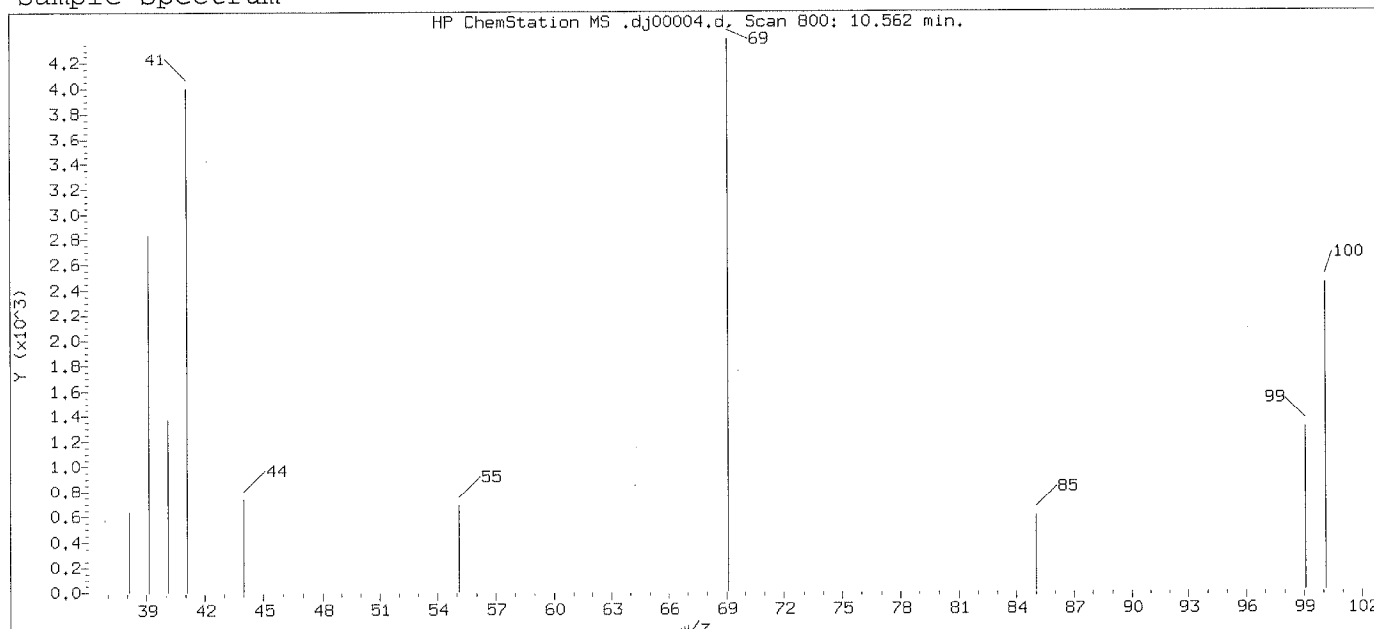
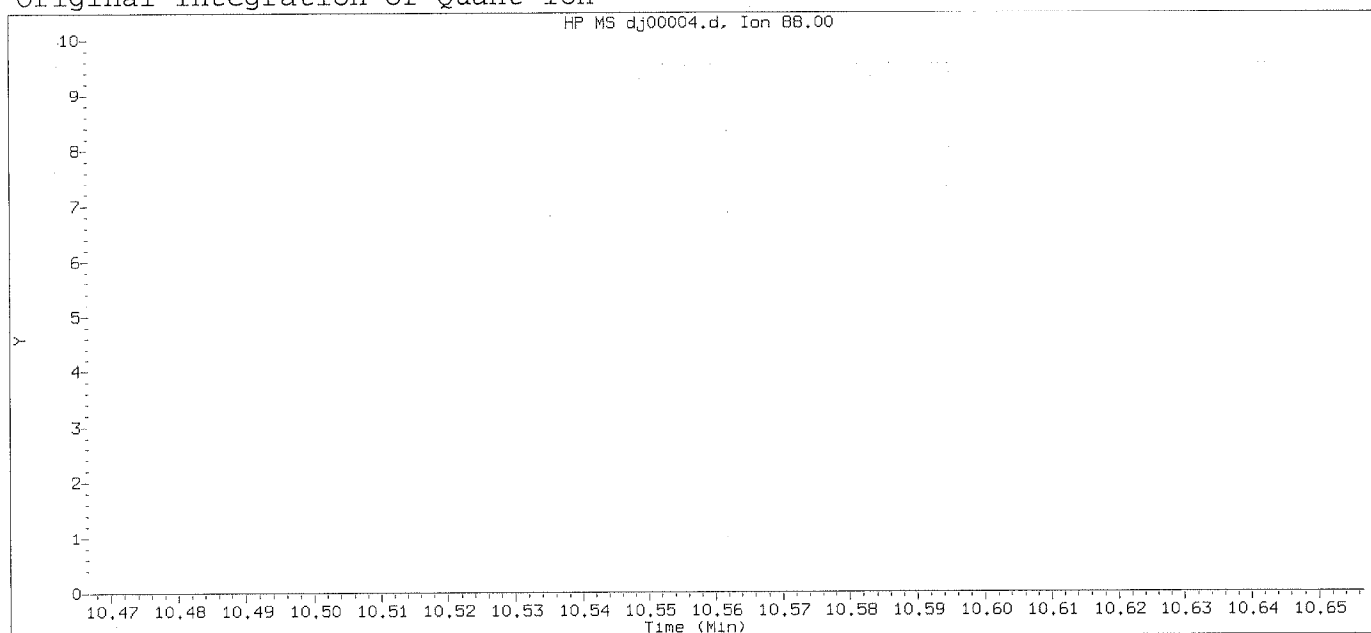


Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00004.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 13:58

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 14:16

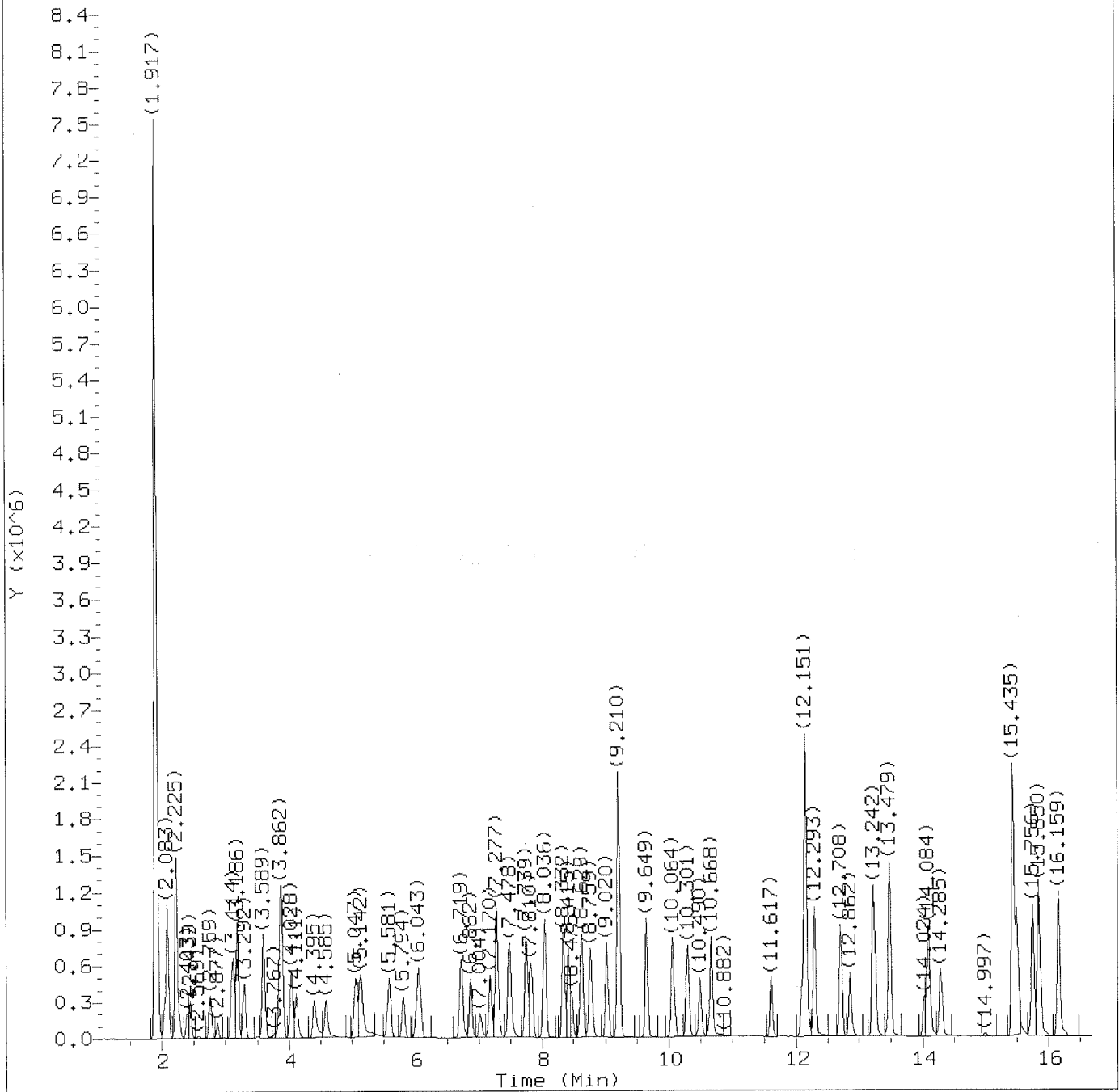
Date, time and analyst ID of latest file update: 01-Oct-2015 14:39 Automation

Sample Name: VSTD002

Lab Sample ID: VSTD002

Compound Number : 56
Compound Name : 1,4-Dioxane
Expected RT (minutes) : 10.562
Quant Ion : 88.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00005.d
Injection date and time: 01-OCT-2015 14:42

Instrument ID: HP10145.i
Analyst ID: jbs01304

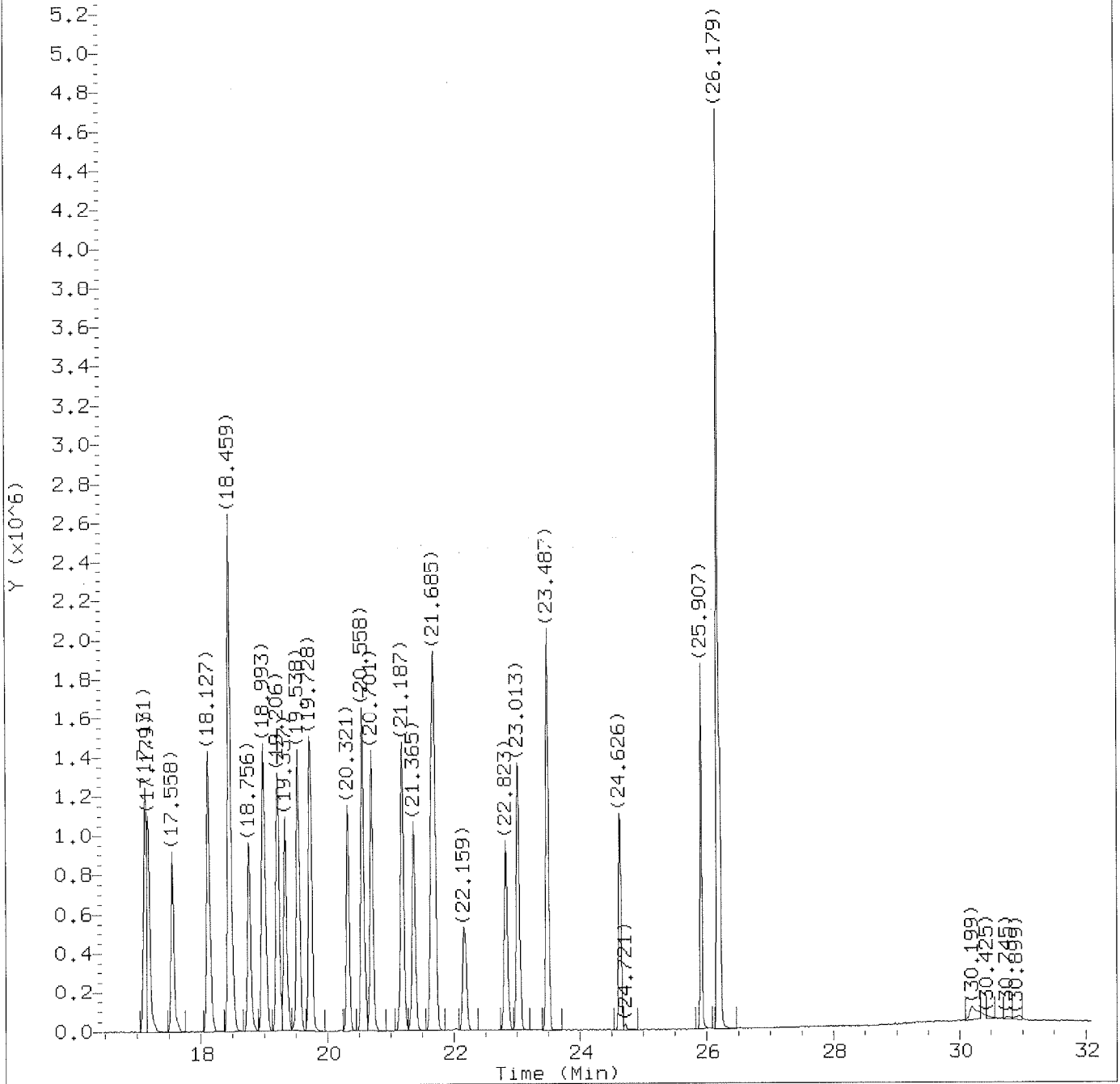
Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 15:26
Date, time and analyst ID of latest file update: 01-Oct-2015 15:26 jeb07445

Sublist used: all

Sample Name: VSTD005

Lab Sample ID: VSTD005

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00005.d
Injection date and time: 01-OCT-2015 14:42

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 15:26
Date, time and analyst ID of latest file update: 01-Oct-2015 15:26 jeb07445

Sublist used: all

Sample Name: VSTD005

Lab Sample ID: VSTD005

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00005.d
 Injection date and time: 01-OCT-2015 14:42

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 15:26

Sublist used: all

Date, time and analyst ID of latest file update: 01-Oct-2015 15:26 jeb07445

Sample Name: VSTD005

Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	160925	4.998
2) Dichlorodifluoromethane	(1)	2.083	85	1165846	4.918
3) Chlorodifluoromethane	(1)	2.095	51	419898	5.182
4) Freon 114	(1)	2.225	85	927077	4.823
5) Chloromethane	(1)	2.272	52	72456	5.046
6) Vinyl Chloride	(1)	2.391	62	283328	4.996
7) 1,3-Butadiene	(1)	2.439	54	186585	5.084
8) Bromomethane	(1)	2.759	94	349270	4.796
9) Chloroethane	(1)	2.877	64	151009	4.723
10) Bromoethene	(1)	3.091	106	370345	5.173
11) Dichlorofluoromethane	(1)	3.114	67	700960	5.013
12) Trichlorofluoromethane	(1)	3.186	101	1196267	4.809
13) Pentane	(1)	3.292	43	377590	4.965
15) Freon123a	(1)	3.589	67	617751A	5.273
14) Ethanol	(1)	3.696	45	63309M	3.021
16) Acrolein	(1)	3.767	56	56215	4.357
17) 1,1-Dichloroethene	(1)	3.838	61	479886	4.784
18) Freon 113	(1)	3.873	103	495541	4.514
19) Acetone	(1)	4.016	43	332693	4.732
20) Methyl Iodide	(1)	4.028	142	842110	5.015
21) Carbon Disulfide	(1)	4.111	76	879895	4.757
24) 3-Chloropropene	(1)	4.383	76	145293	4.874
23) Acetonitrile	(1)	4.395	40	111552M	8.834
22) Isopropanol	(1)	4.431	45	393623M	4.849
25) Methylene Chloride	(1)	4.585	84	274844	5.294
28) trans-1,2-Dichloroethene	(1)	5.047	61	382358	4.863
27) Acrylonitrile	(1)	5.047	53	133225	6.386
26) tert-Butyl Alcohol	(1)	5.107	59	707972M	5.762
29) Methyl t-Butyl Ether	(1)	5.142	73	924066	5.090
30) Hexane	(1)	5.581	57	420069	4.759
31) 1,1-Dichloroethane	(1)	5.794	63	546622	4.872
32) Vinyl Acetate	(1)	6.008	86	60477	4.138
33) Di-Isopropyl Ether	(1)	6.055	45	773902	5.170
36) 1,2-Dichloroethene (total)	(1)		61	798108	10.078
34) Ethyl Tert-Butyl Ether	(1)	6.719	59	1020470	5.026
35) cis-1,2-Dichloroethene	(1)	6.862	61	415750	5.215
37) 2-Butanone	(1)	7.016	72	154623	5.665
38) Ethyl Acetate	(1)	7.170	70	107191	5.843

M = Compound was manually integrated.
 A = User selected an alternate hit.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00005.d
 Injection date and time: 01-OCT-2015 14:42

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 15:26

Date, time and analyst ID of latest file update: 01-Oct-2015 15:26 jeb07445

Sample Name: VSTD005

Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.182	55	427494	5.530
40) *Bromochloromethane	(1)	7.277	130	779818	10.000
42) Chloroform	(1)	7.478	83	806962	4.919
41) Tetrahydrofuran	(1)	7.490	42	215239	4.993
43) 1,1,1-Trichloroethane	(1)	7.739	97	999849	4.851
44) Cyclohexane	(1)	7.810	56	447869	4.834
45) Carbon Tetrachloride	(1)	8.036	117	1065252	4.886
46) Benzene	(2)	8.415	78	1072956	5.087
47) 1,2-Dichloroethane	(2)	8.475	62	512186	5.075
48) Isooctane	(2)	8.629	57	1414943	5.038
49) Tert-Amyl Methyl Ether	(2)	8.759	73	1120016	5.476
50) Heptane	(2)	9.020	43	412301	4.986
51) *1,4-Difluorobenzene	(2)	9.210	114	3050690	10.000
52) Trichloroethene	(2)	9.649	130	559396	5.039
53) Ethyl Acrylate	(2)	10.052	55	595497	5.957
54) 1,2-Dichloropropane	(2)	10.075	63	317039	5.159
55) Dibromomethane	(2)	10.301	174	573650	5.172
57) Methyl Methacrylate	(2)	10.490	69	337161	5.445
58) Bromodichloromethane	(2)	10.668	83	871281	5.128
56) 1,4-Dioxane	(2)	10.668	88	266472M	5.447
59) cis-1,3-Dichloropropene	(2)	11.617	75	494338	4.901
60) 4-Methyl-2-Pentanone	(2)	12.091	43	553399	5.389
61) Toluene	(3)	12.293	91	1424029	5.229
62) Octane	(3)	12.708	43	545732	5.029
63) trans-1,3-Dichloropropene	(3)	12.862	75	534257	5.386
64) 1,3-Dichloropropene (total)	(3)		75	1028595	10.287
65) Ethyl Methacrylate	(3)	13.230	69	575723	5.525
66) 1,1,2-Trichloroethane	(3)	13.242	97	484678	5.265
67) Tetrachloroethene	(3)	13.491	166	897942	5.204
68) 2-Hexanone	(3)	14.024	43	514076	5.978
69) Dibromochloromethane	(3)	14.095	127	697322	4.978
70) 1,2-Dibromoethane	(3)	14.285	107	724877	5.026
71) *Chlorobenzene-d5	(3)	15.435	117	2720059	10.000
72) Chlorobenzene	(3)	15.507	112	1170301	5.276
73) 1,1,1,2-Tetrachloroethane	(3)	15.756	131	675921	5.201
74) Ethylbenzene	(3)	15.850	91	1867389	5.322
75) m/p-Xylene	(3)	16.159	91	1522575	4.927
76) o-Xylene	(3)	17.131	91	1580958	5.336

M = Compound was manually integrated.

* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00005.d
 Injection date and time: 01-OCT-2015 14:42

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 15:26

Sublist used: all

Date, time and analyst ID of latest file update: 01-Oct-2015 15:26 jeb07445

Sample Name: VSTD005

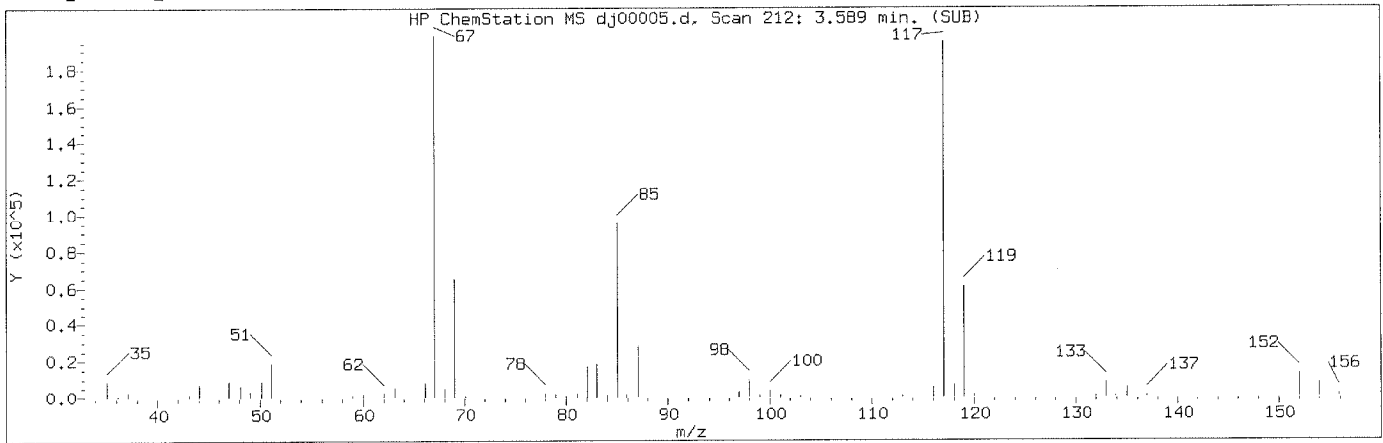
Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.179	104	1150000	5.303
77) Xylene (total)	(3)		91	3103533	10.263
79) Bromoform	(3)	17.558	173	954246	5.224
80) Cumene	(3)	18.127	105	2203905	5.129
81) Bromobenzene	(3)	18.768	156	706025	5.322
82) 1,1,2,2-Tetrachloroethane	(3)	18.981	83	953922	5.318
83) 1,2,3-Trichloropropane	(3)	19.005	110	334586	5.126
84) n-Propylbenzene	(3)	19.218	120	589959	5.068
85) 2-Chlorotoluene	(3)	19.337	126	497156	5.163
86) 4-Ethyltoluene	(3)	19.538	105	2085073	5.110
87) 1,3,5-Trimethylbenzene	(3)	19.728	105	1925223	5.084
88) Alpha Methyl Styrene	(3)	20.321	118	808099	5.165
89) tert-Butylbenzene	(3)	20.558	119	1890755	4.940
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	1815832	5.053
91) sec-Butylbenzene	(3)	21.187	105	2490936	4.946
92) 1,3-Dichlorobenzene	(3)	21.365	146	1148353	5.362
93) 1,4-Dichlorobenzene	(3)	21.661	146	1079567	5.196
94) p-Isopropyltoluene	(3)	21.685	119	2193086	5.034
95) Benzyl Chloride	(3)	22.171	91	1029633	4.799
96) 1,2-Dichlorobenzene	(3)	22.823	146	1040462	5.047
97) n-Butylbenzene	(3)	23.013	91	1689924	5.105
98) Hexachloroethane	(3)	23.487	117	713346	5.590
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	546173	4.769
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	756121	5.286
101) Hexachlorobutadiene	(3)	26.179	225	1212681	4.512
102) Naphthalene	(3)	26.215	128	1392183	5.934

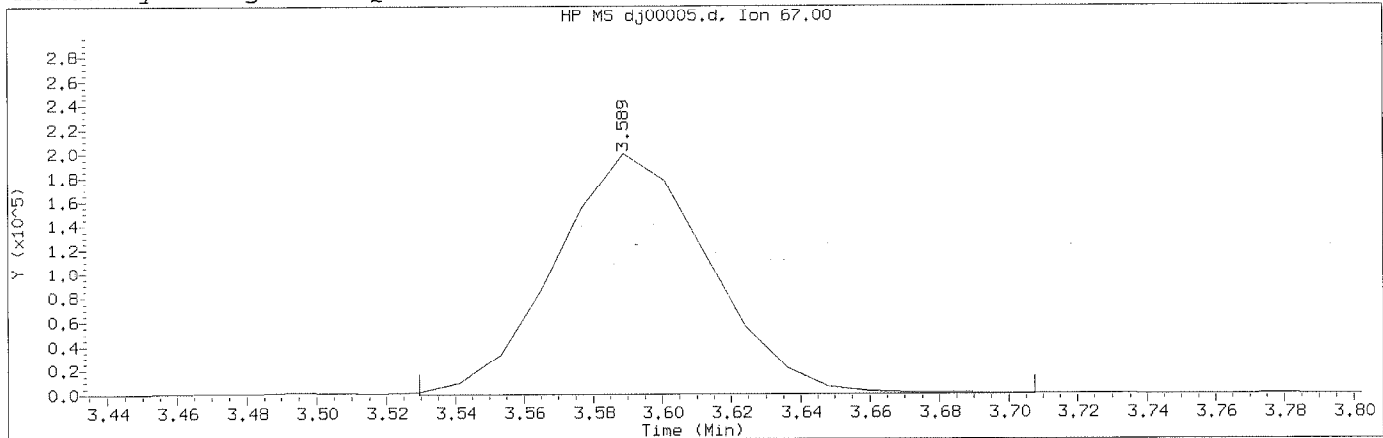
page 3 of 3

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 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 14:42 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 15:26
 Date, time and analyst ID of latest file update: 01-Oct-2015 15:26 jeb07445

Sample Name: VSTD005 Lab Sample ID: VSTD005

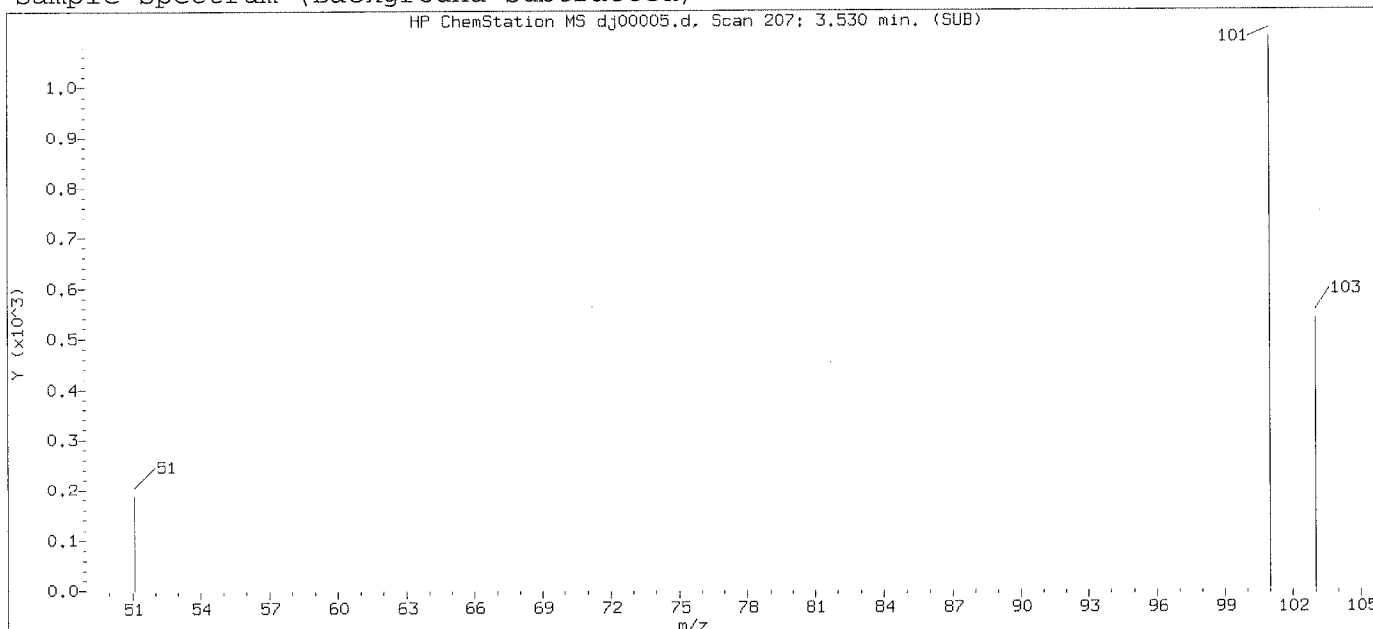
Compound Number : 15
 Compound Name : Freon123a
 Scan Number : 212
 Retention Time (minutes): 3.589
 Quant Ion : 67.00
 Area (flag) : 617751A
 Concentration (ppb(v)) : 5.2729
 Integration start scan : 206 Integration stop scan: 221
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

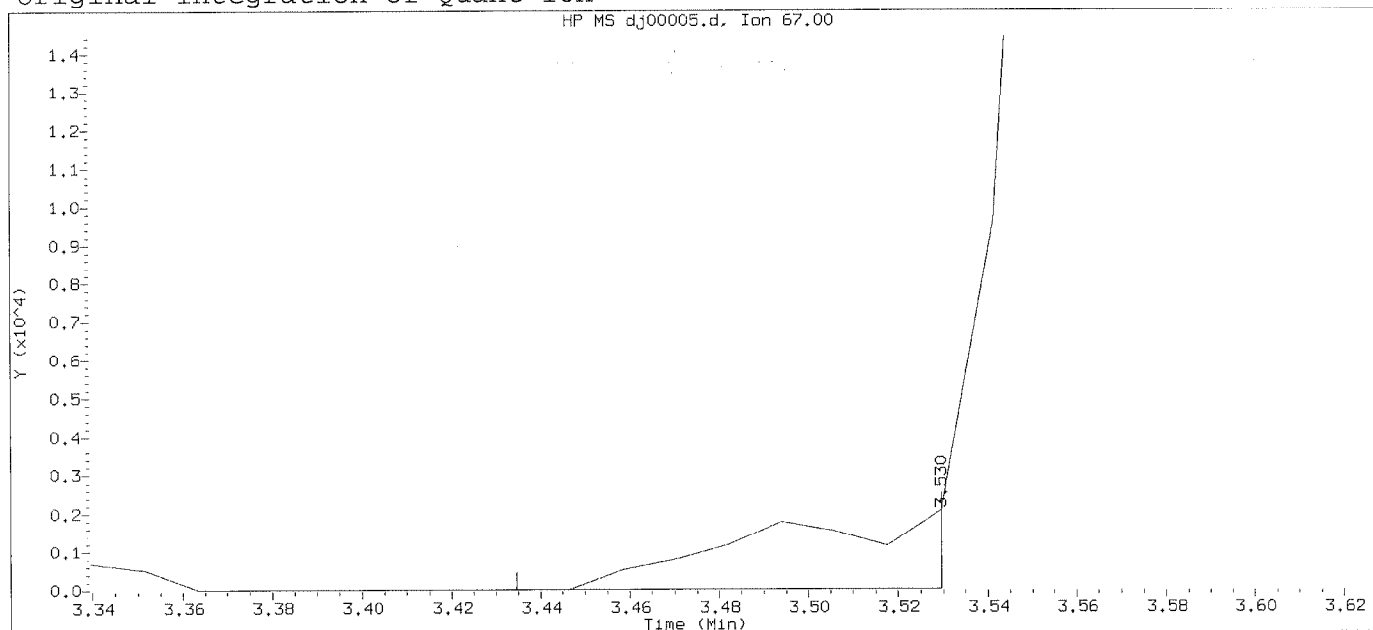
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omry 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d
Injection date and time: 01-OCT-2015 14:42

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 15:00
Date, time and analyst ID of latest file update: 01-Oct-2015 15:23 Automation

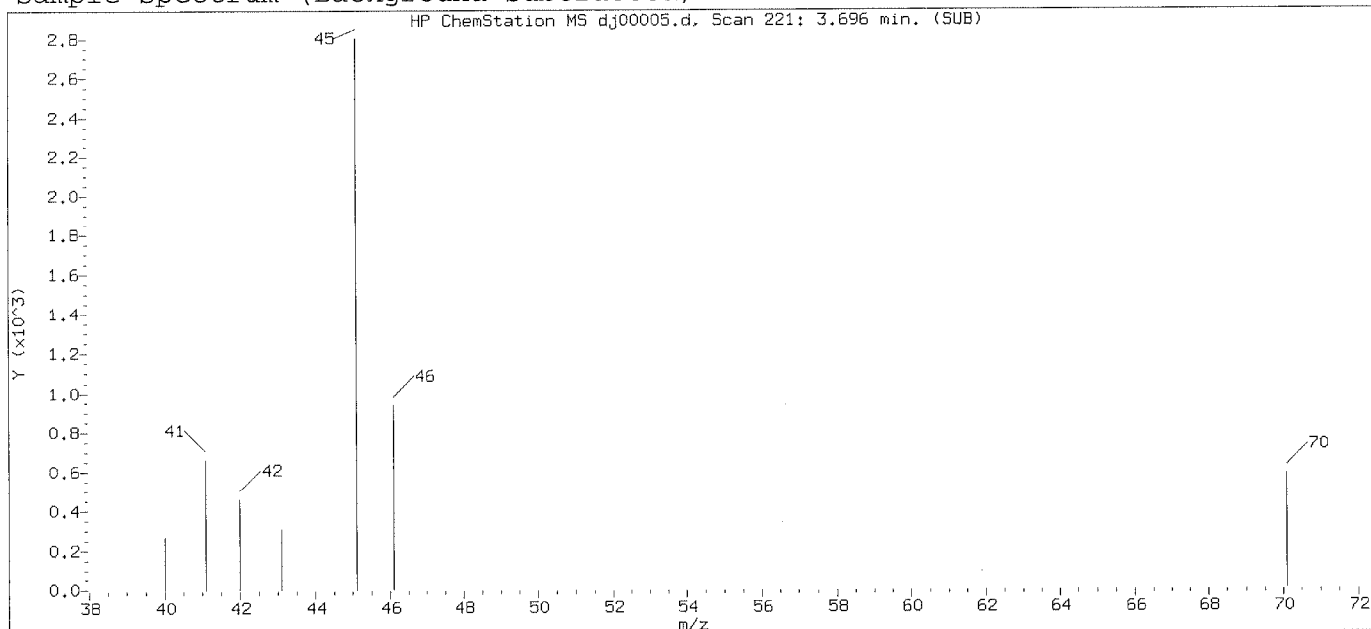
Sample Name: VSTD005

Lab Sample ID: VSTD005

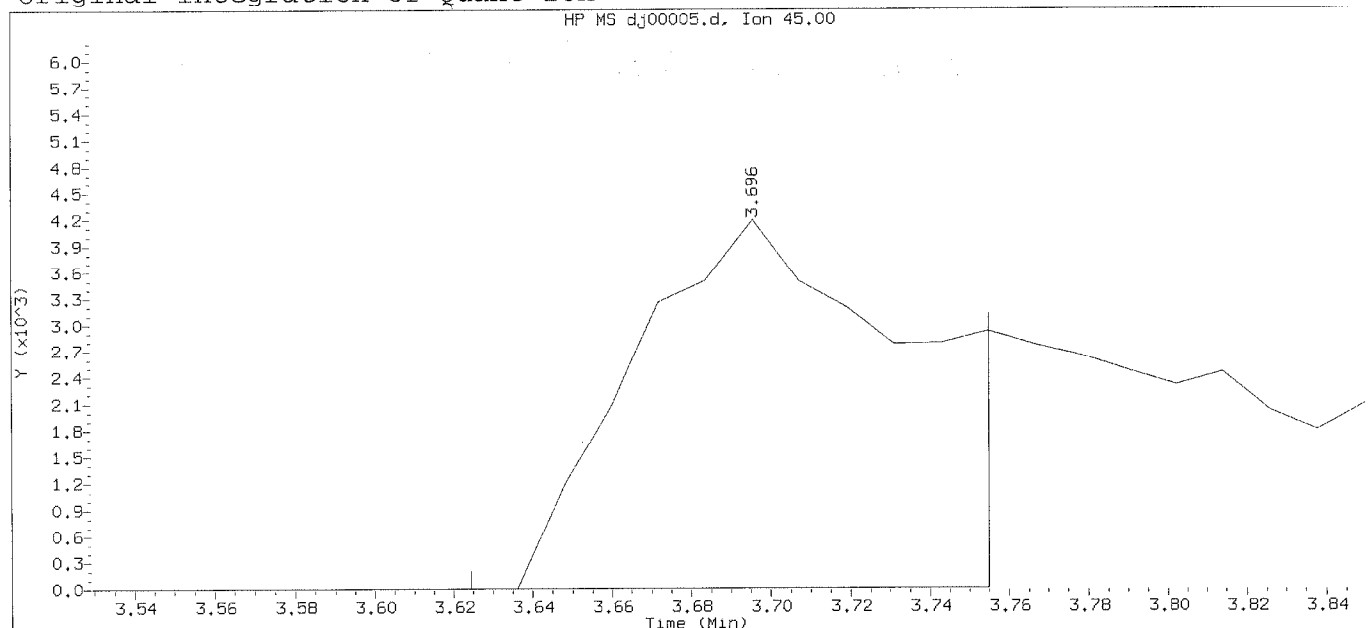
Compound Number : 15
Compound Name : Freon123a
Scan Number : 207
Retention Time (minutes): 3.530
Quant Ion : 67.00
Area : 5632
Concentration (ppb(v)) : 0.0471
Integration start scan : 198 Integration stop scan: 206
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 14:42

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 15:00

Date, time and analyst ID of latest file update: 01-Oct-2015 15:23 Automation

Sample Name: VSTD005

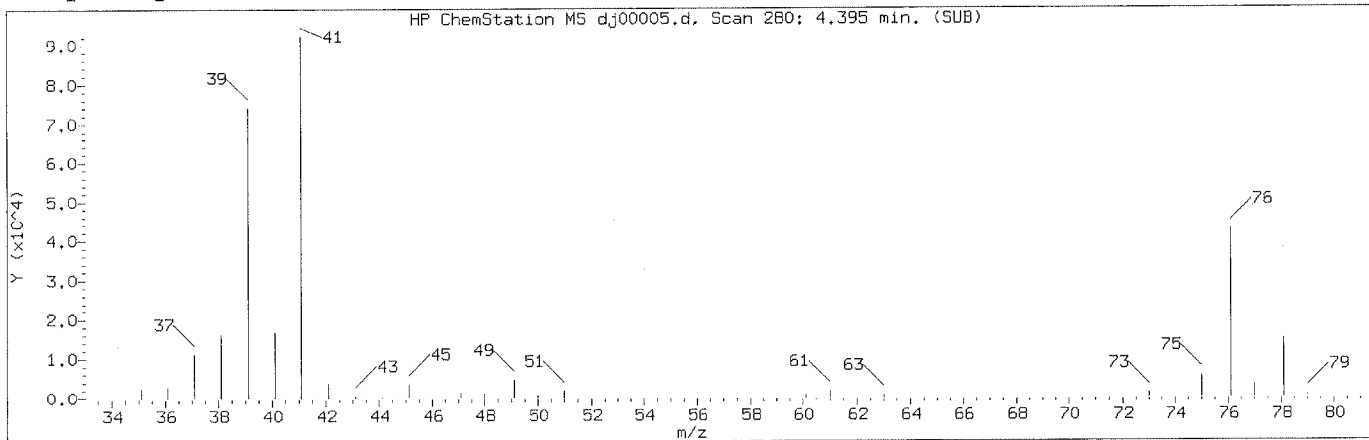
Lab Sample ID: VSTD005

Compound Number : 14
 Compound Name : Ethanol
 Scan Number : 221
 Retention Time (minutes): 3.696
 Quant Ion : 45.00
 Area : 19864
 Concentration (ppb(v)) : 0.9891
 Integration start scan : 214
 Y at integration start : 0

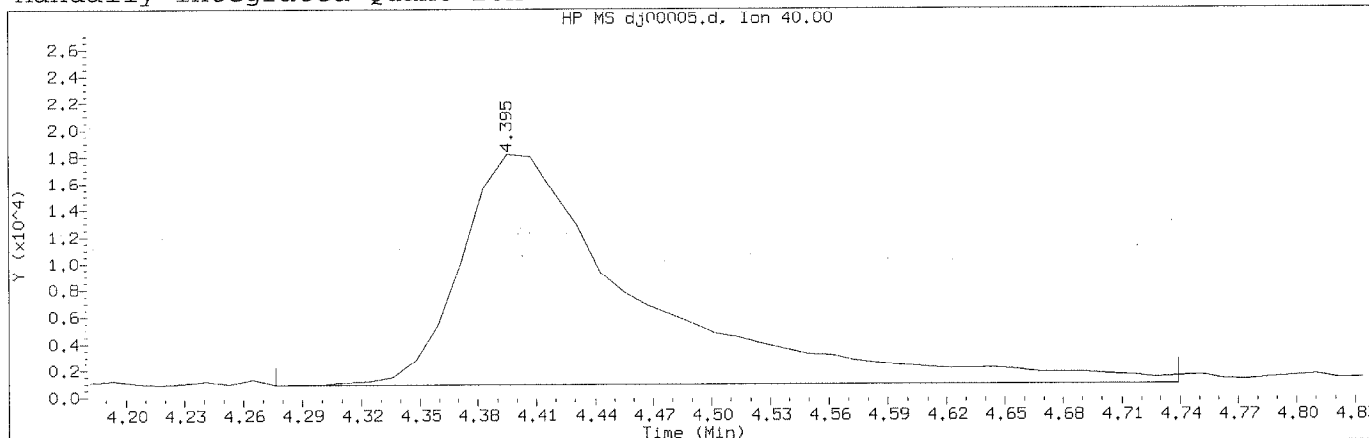
Integration stop scan: 225
 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 14:42 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 15:26
 Date, time and analyst ID of latest file update: 01-Oct-2015 15:26 jeb07445

Sample Name: VSTD005

Lab Sample ID: VSTD005

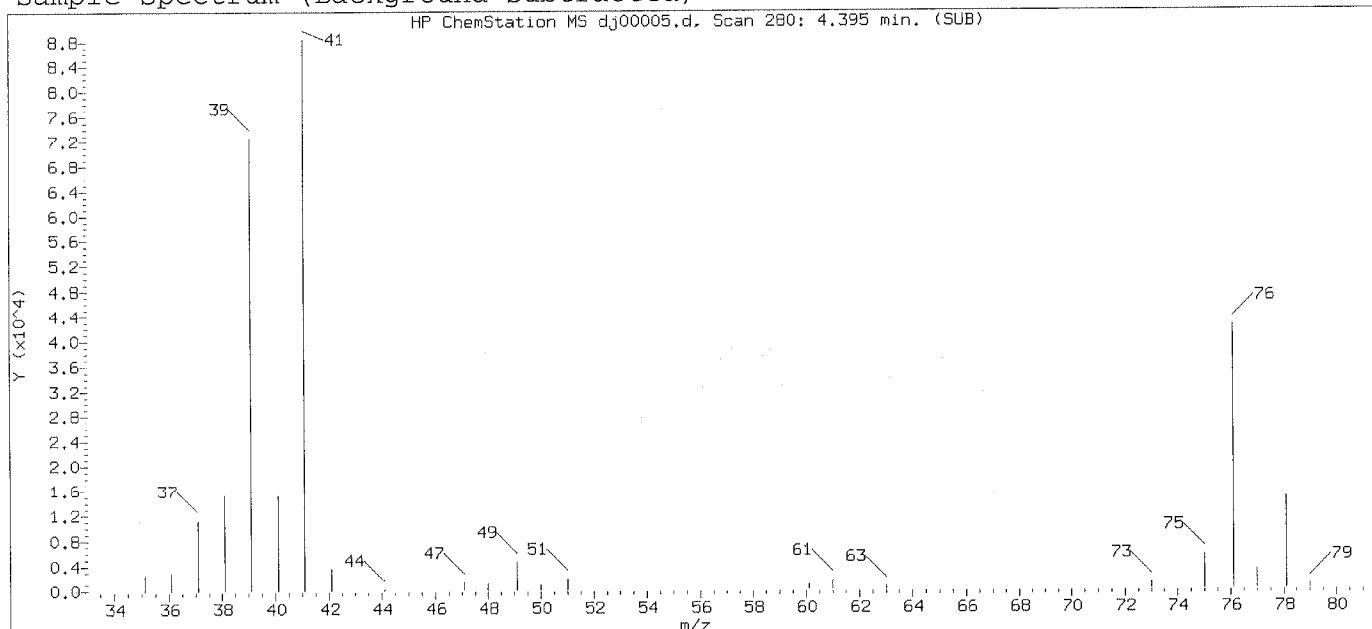
Compound Number	:	23		
Compound Name	:	Acetonitrile		
Scan Number	:	280		
Retention Time (minutes)	:	4.395		
Quant Ion	:	40.00		
Area (flag)	:	11152M		
Concentration (ppb(v))	:	8.8343		
Integration start scan	:	269	Integration stop scan:	308
Y at integration start	:	903	Y at integration end:	903

Reason for manual integration: improper integration

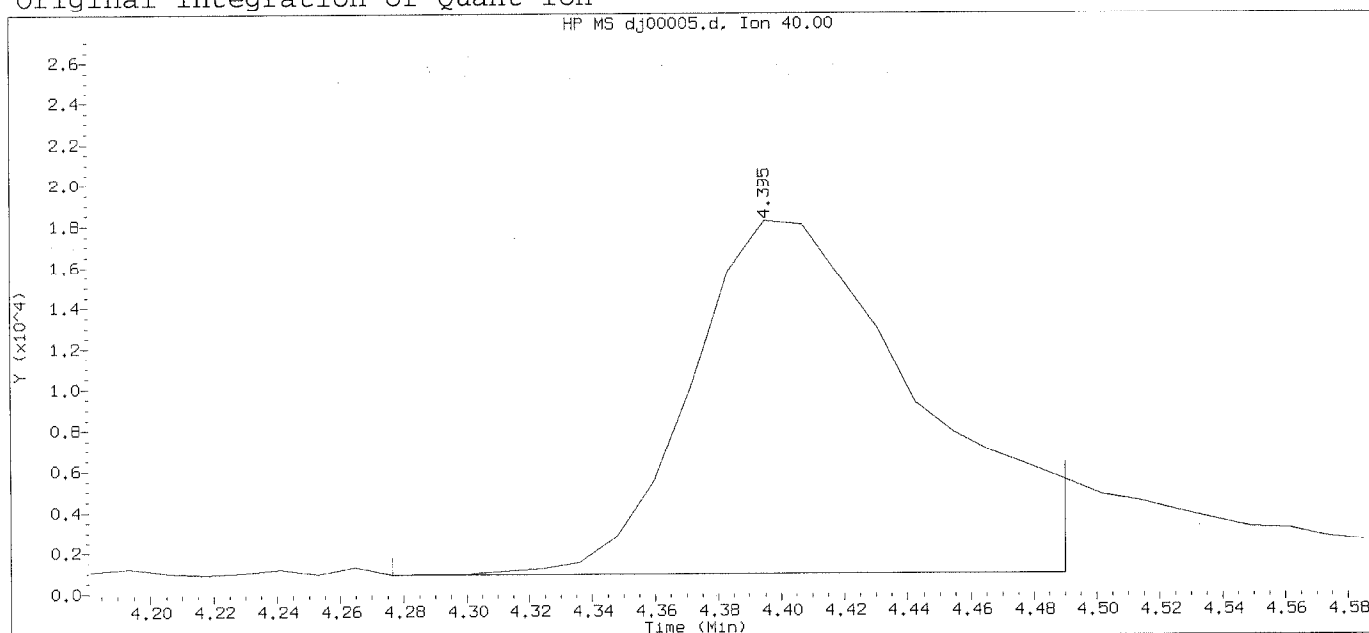
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omuyun 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 14:42

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 15:00

Date, time and analyst ID of latest file update: 01-Oct-2015 15:23 Automation

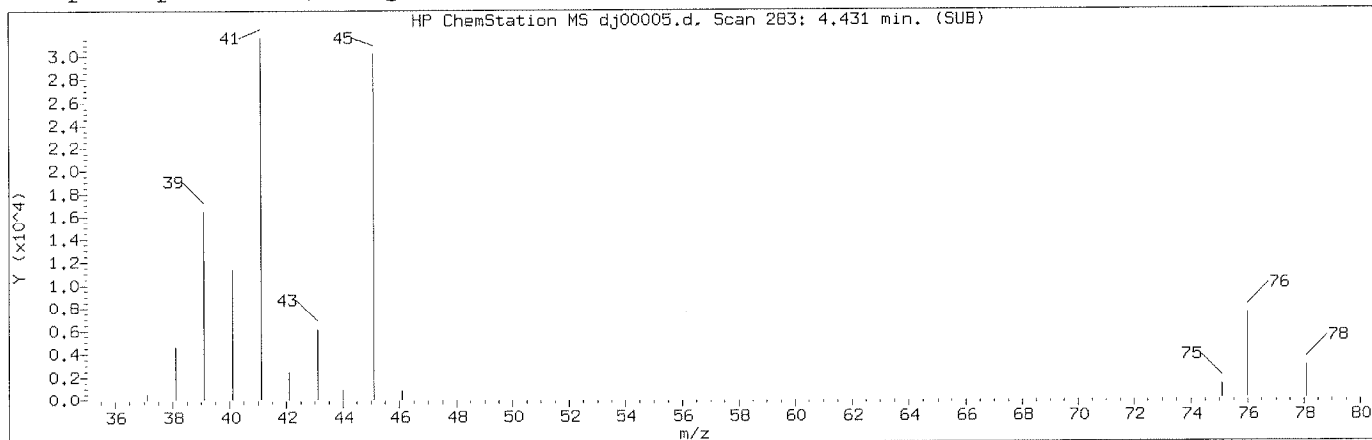
Sample Name: VSTD005

Lab Sample ID: VSTD005

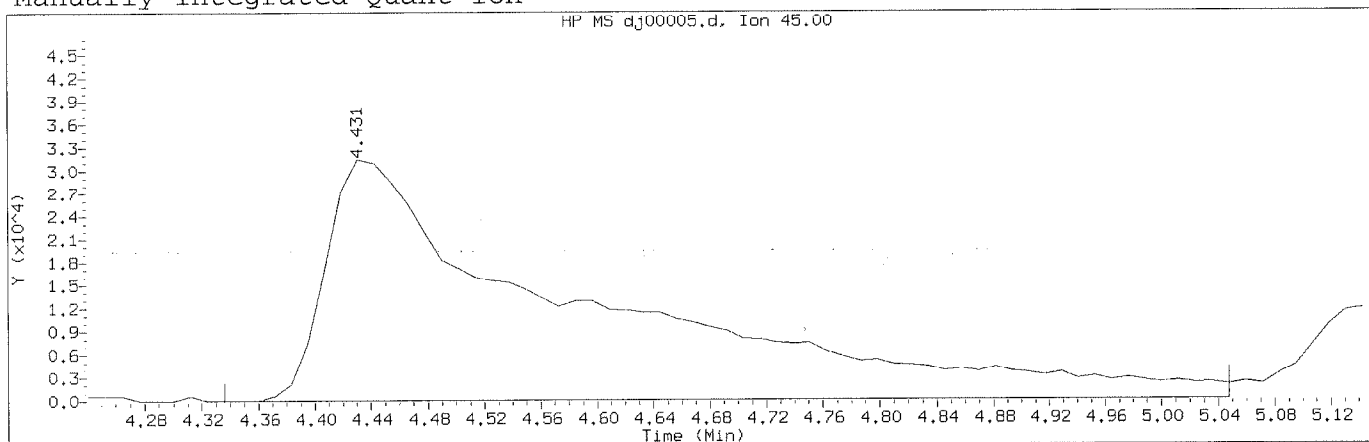
Compound Number	: 23		
Compound Name	: Acetonitrile		
Scan Number	: 280		
Retention Time (minutes)	: 4.395		
Quant Ion	: 40.00		
Area	: 86221		
Concentration (ppb(v))	: 11.2372		
Integration start scan	: 269	Integration stop scan:	287
Y at integration start	: 894	Y at integration end:	894

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d
Injection date and time: 01-OCT-2015 14:42

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 15:26
Date, time and analyst ID of latest file update: 01-Oct-2015 15:26 jeb07445

Sublist used: all

Sample Name: VSTD005

Lab Sample ID: VSTD005

Compound Number	: 22	
Compound Name	: Isopropanol	
Scan Number	: 283	
Retention Time (minutes)	: 4.431	
Quant Ion	: 45.00	
Area (flag)	: 393623M	
Concentration (ppb(v))	: 4.8492	
Integration start scan	: 274	Integration stop scan: 334
Y at integration start	: 0	Y at integration end: 0

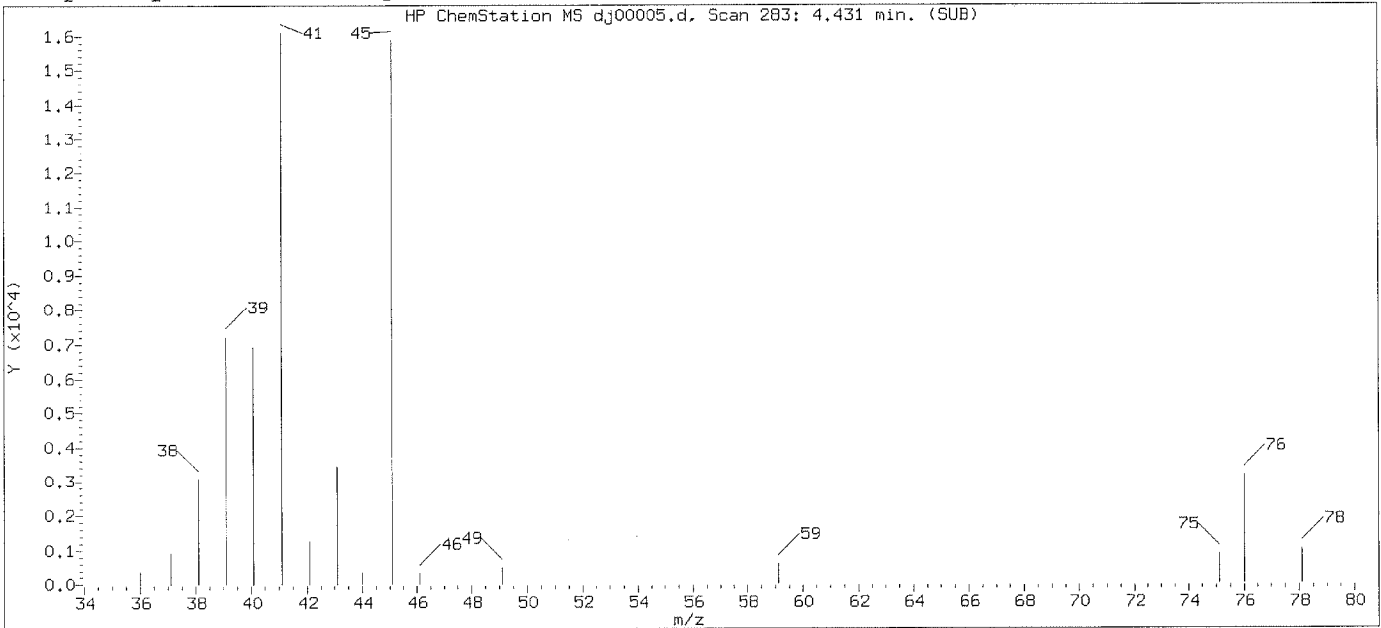
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

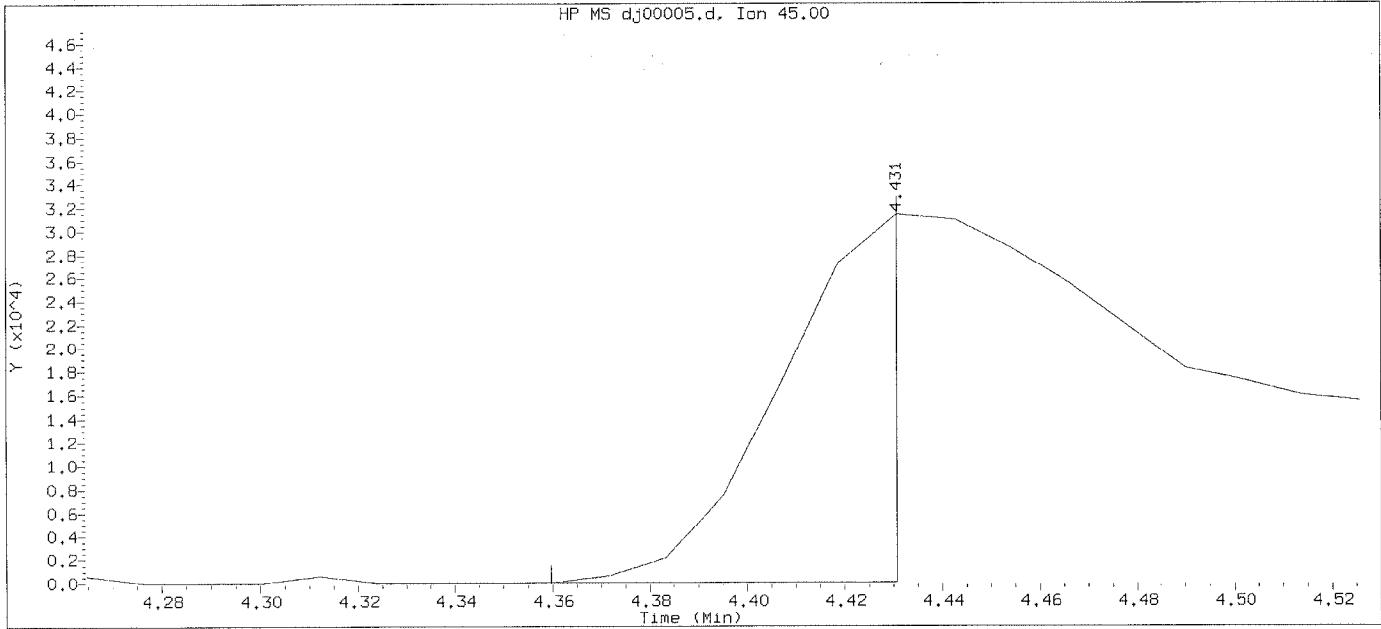
GC/MS audit/management approval: _____

Omny 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d
 Injection date and time: 01-OCT-2015 14:42

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 15:00
 Date, time and analyst ID of latest file update: 01-Oct-2015 15:23 Automation

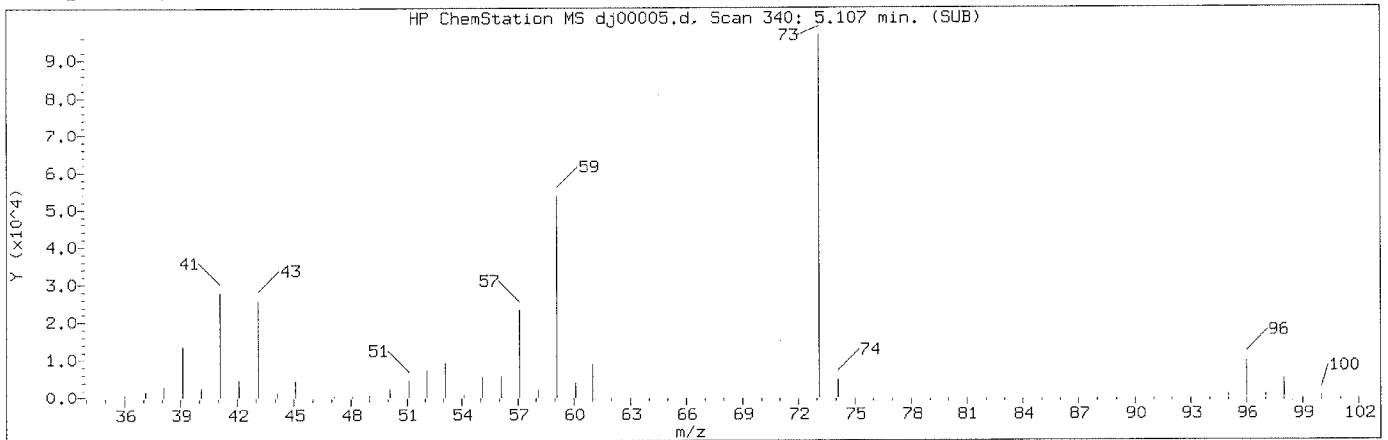
Sample Name: VSTD005

Lab Sample ID: VSTD005

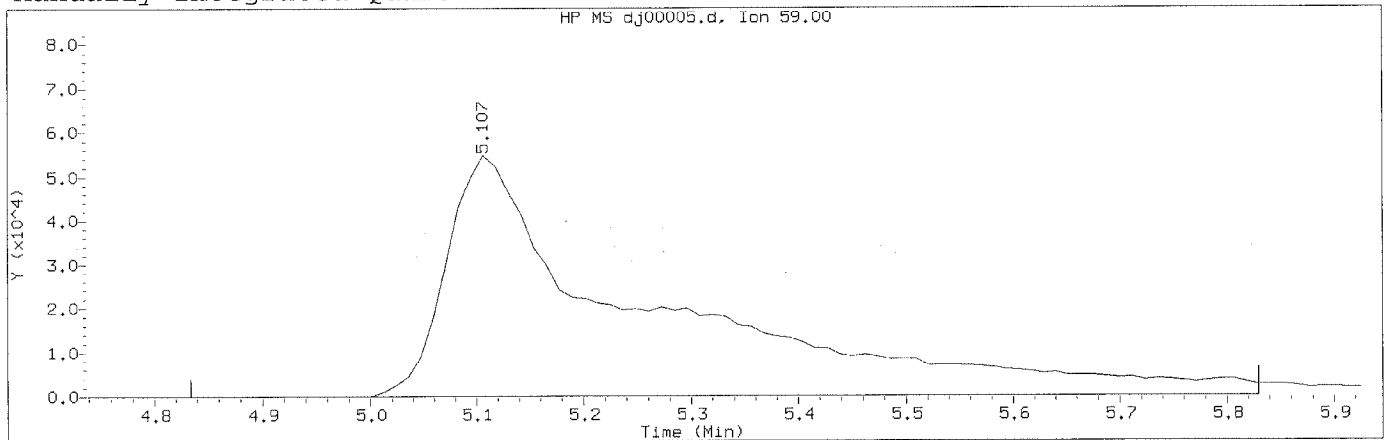
Compound Number	: 22	
Compound Name	: Isopropanol	
Scan Number	: 283	
Retention Time (minutes)	: 4.431	
Quant Ion	: 45.00	
Area	: 50022	
Concentration (ppb(v))	: 0.6194	
Integration start scan	: 276	Integration stop scan: 282
Y at integration start	: 0	Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d
Injection date and time: 01-OCT-2015 14:42

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 15:26
Date, time and analyst ID of latest file update: 01-Oct-2015 15:26 jeb07445

Sublist used: all

Sample Name: VSTD005

Lab Sample ID: VSTD005

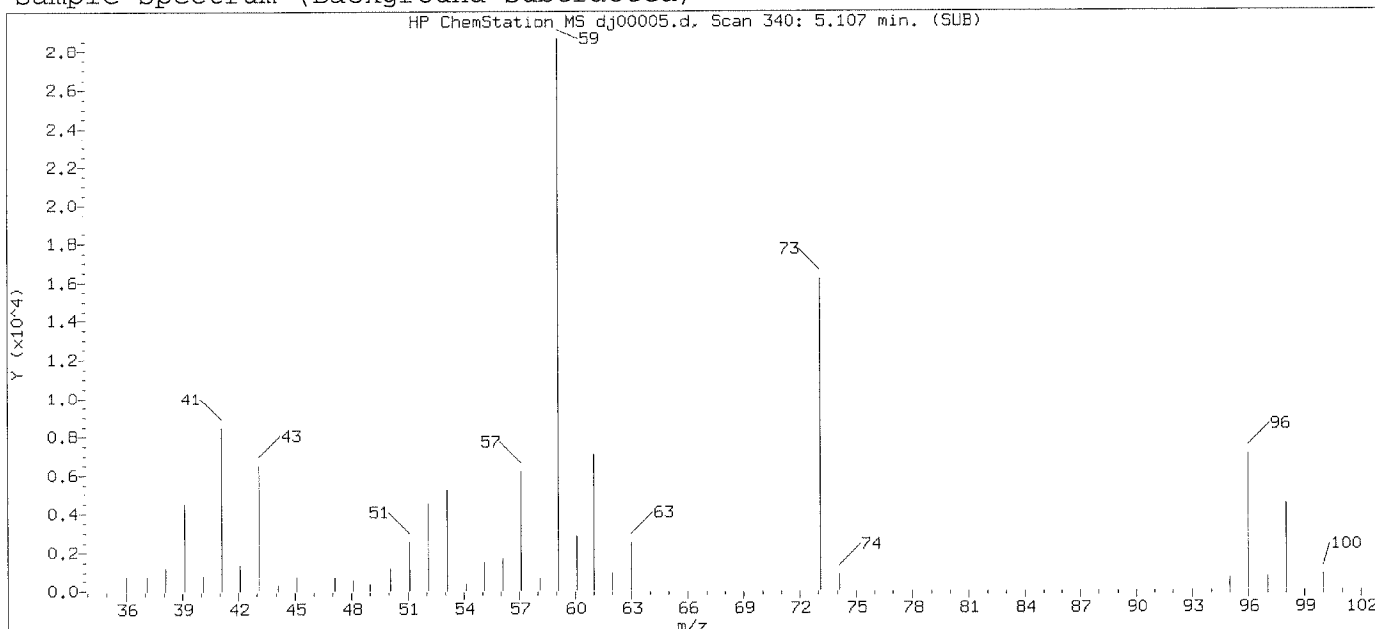
Compound Number : 26
Compound Name : tert-Butyl Alcohol
Scan Number : 340
Retention Time (minutes): 5.107
Quant Ion : 59.00
Area (flag) : 707972M
Concentration (ppb(v)) : 5.7619
Integration start scan : 316 Integration stop scan: 400
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

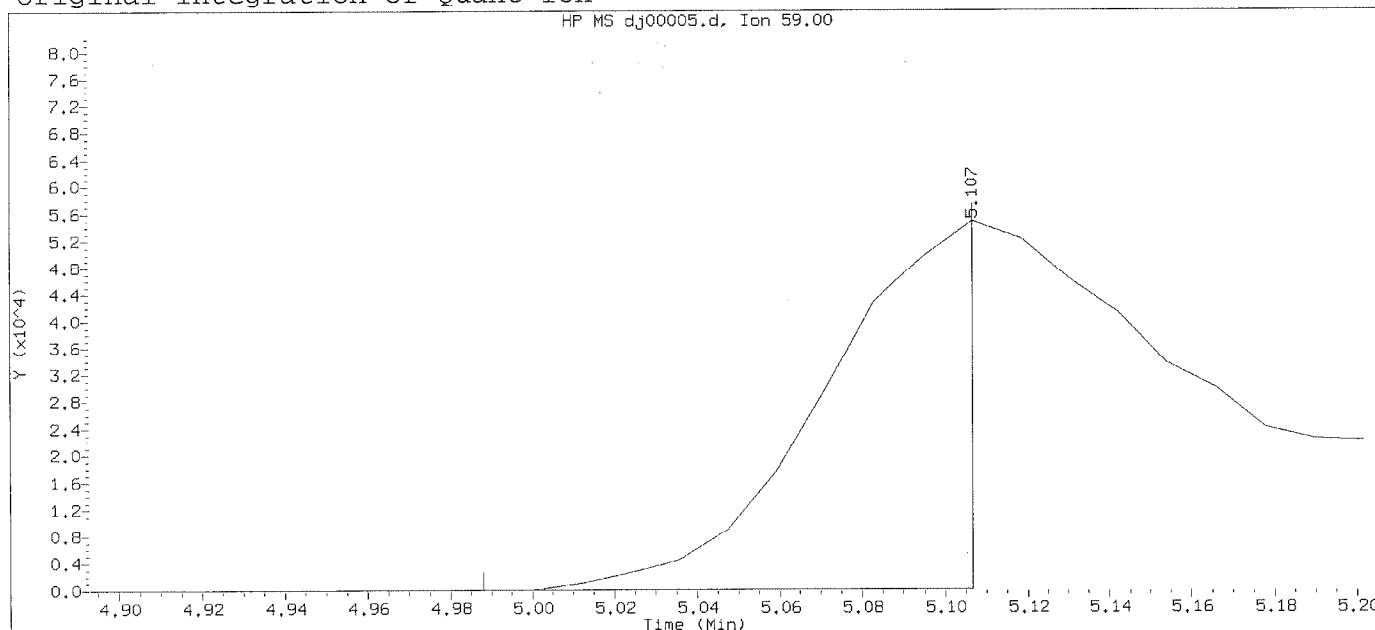
Analyst responsible for change: Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Ommy 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 14:42

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 15:00

Date, time and analyst ID of latest file update: 01-Oct-2015 15:23 Automation

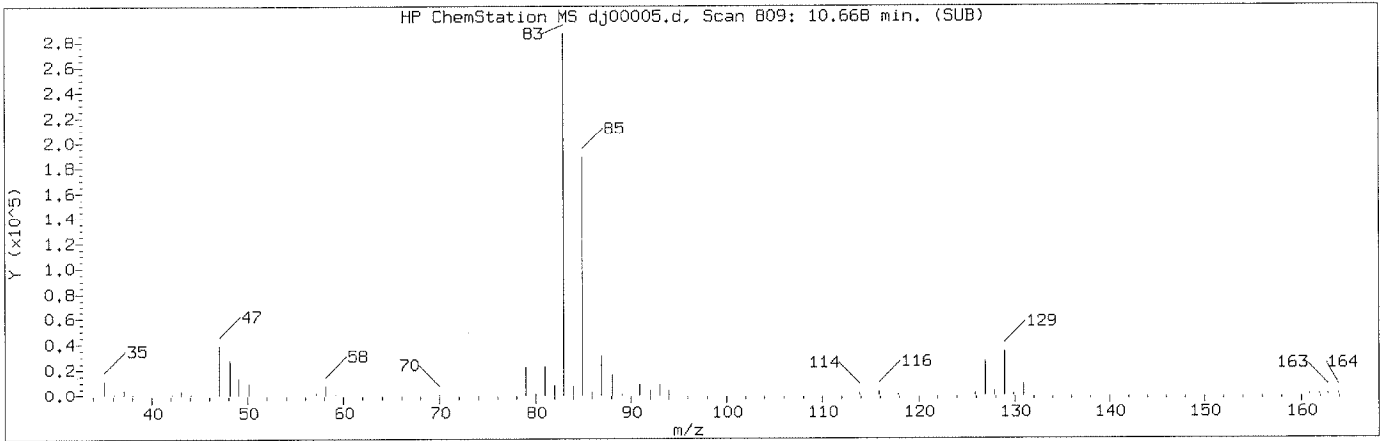
Sample Name: VSTD005

Lab Sample ID: VSTD005

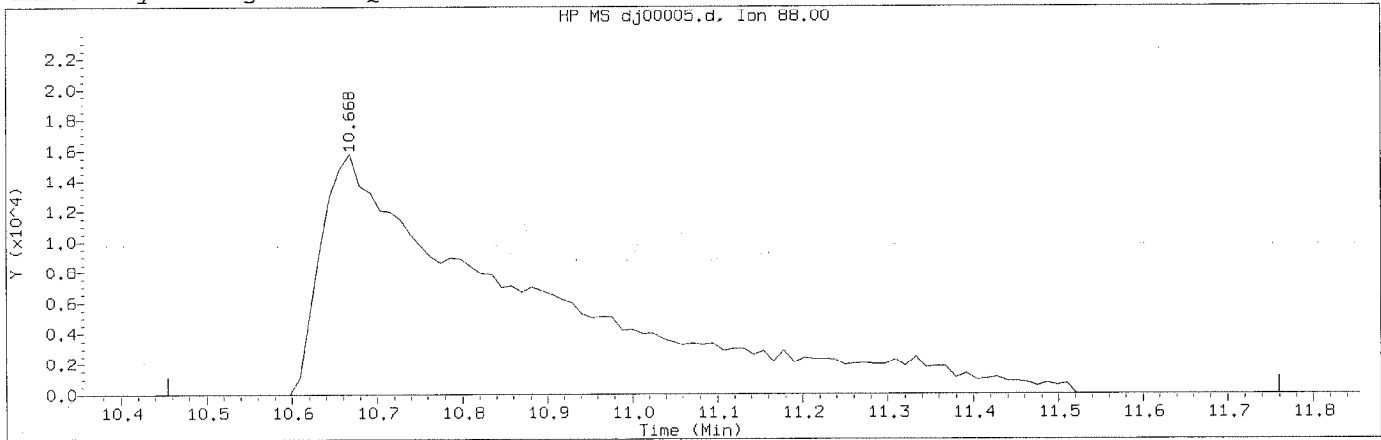
Compound Number	: 26	
Compound Name	: tert-Butyl Alcohol	
Scan Number	: 340	
Retention Time (minutes)	: 5.107	
Quant Ion	: 59.00	
Area	: 130793	
Concentration (ppb(v))	: 1.0904	
Integration start scan	: 329	Integration stop scan: 339
Y at integration start	: 0	Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 14:42 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 15:26
 Date, time and analyst ID of latest file update: 01-Oct-2015 15:26 jeb07445

Sample Name: VSTD005 Lab Sample ID: VSTD005

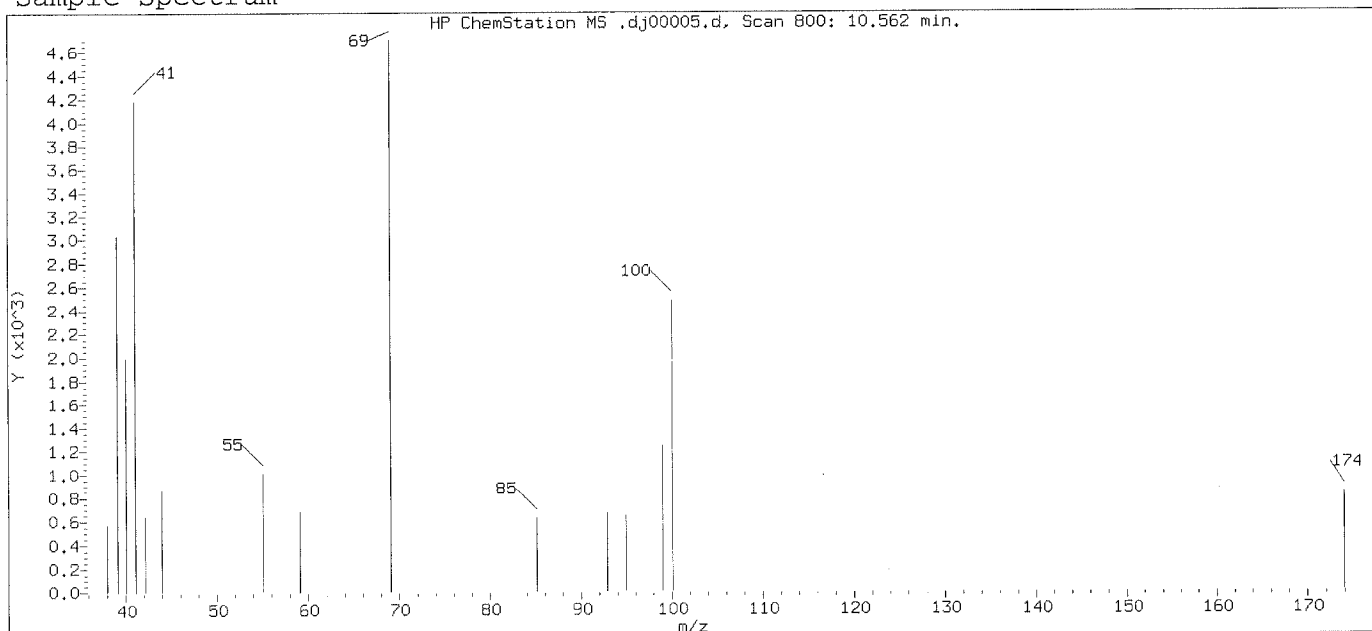
Compound Number : 56
 Compound Name : 1,4-Dioxane
 Scan Number : 809
 Retention Time (minutes): 10.668
 Quant Ion : 88.00
 Area (flag) : 266472M
 Concentration (ppb(v)) : 5.4466
 Integration start scan : 790 Integration stop scan: 900
 Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

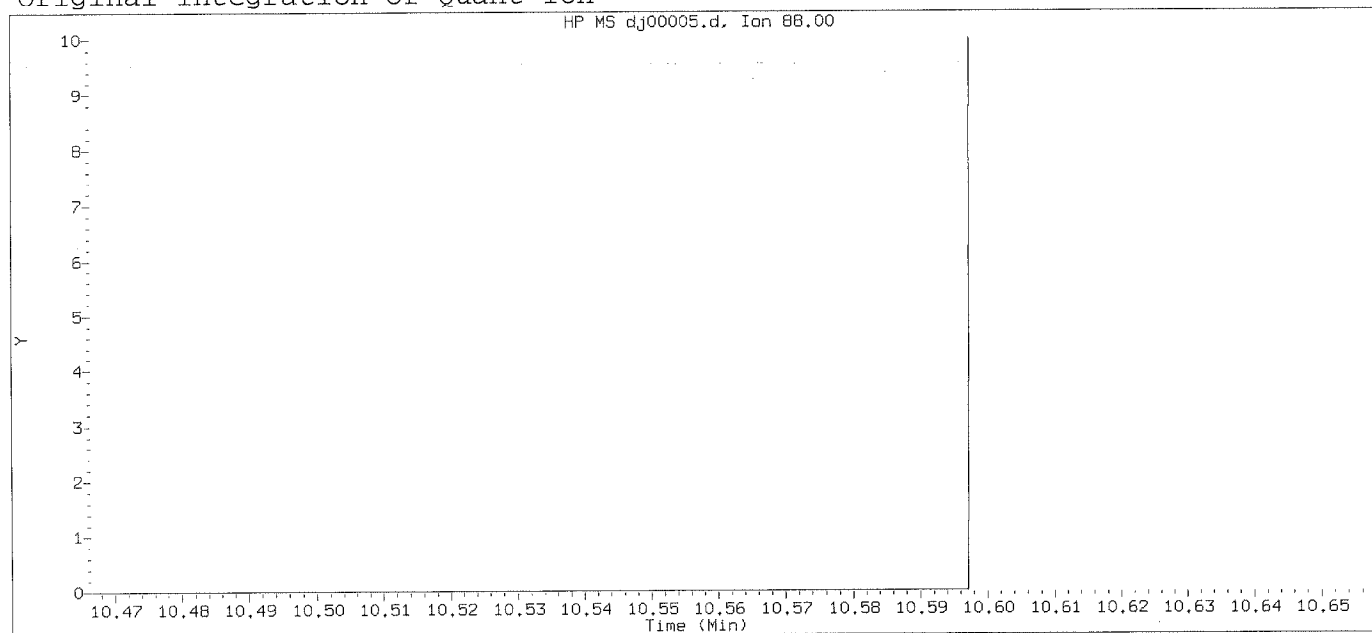
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omuy4r 10/5/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00005.d
Injection date and time: 01-OCT-2015 14:42

Instrument ID: HP10145.i
Analyst ID: jbs01304

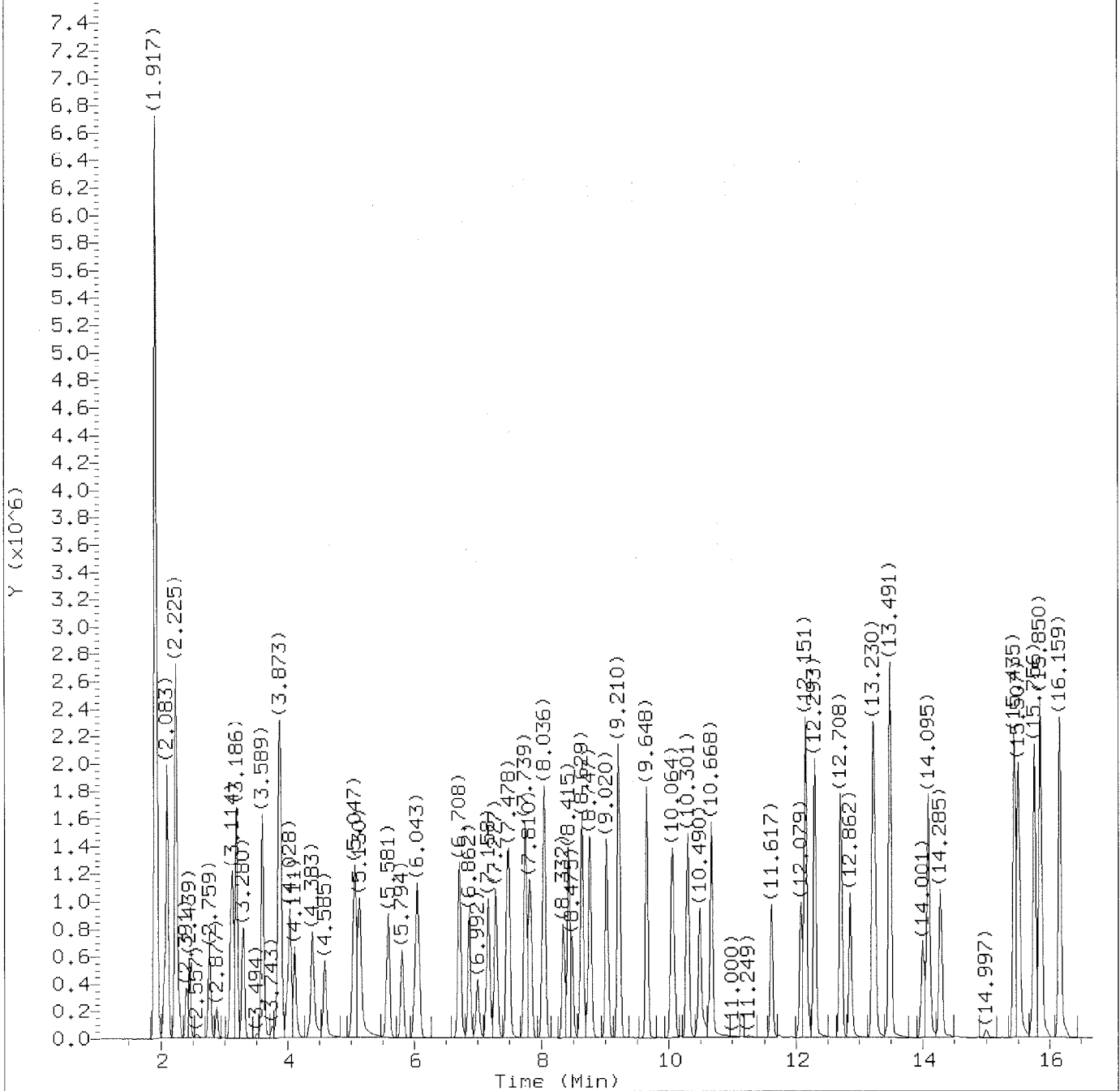
Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 15:00
Sublist used: all
Date, time and analyst ID of latest file update: 01-Oct-2015 15:23 Automation

Sample Name: VSTD005

Lab Sample ID: VSTD005

Compound Number : 56
Compound Name : 1,4-Dioxane
Expected RT (minutes) : 10.562
Quant Ion : 88.00

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Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00006.d
Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
Analyst ID: jbs01304

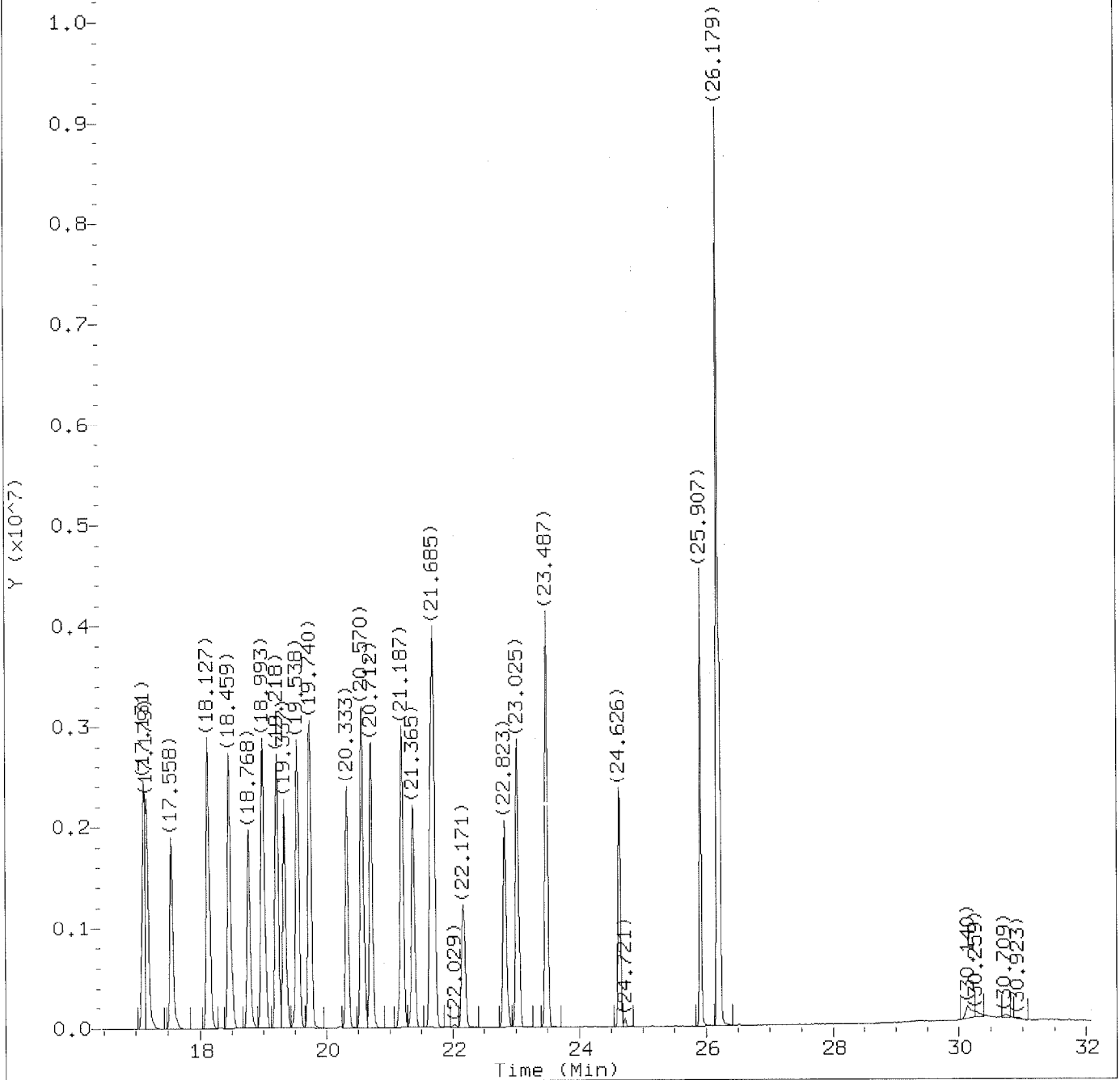
Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:19
Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00006.d
Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:19
Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00006.d
 Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 16:19

Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	292718	9.419
2) Dichlorodifluoromethane	(1)	2.083	85	2104314	9.226
3) Chlorodifluoromethane	(1)	2.095	51	775027	9.903
4) Freon 114	(1)	2.225	85	1713784	9.215
5) Chloromethane	(1)	2.272	52	135020	9.689
6) Vinyl Chloride	(1)	2.391	62	528959	9.584
7) 1,3-Butadiene	(1)	2.439	54	349513	9.760
8) Bromomethane	(1)	2.759	94	647441	9.174
9) Chloroethane	(1)	2.877	64	283646	9.137
10) Bromoethene	(1)	3.091	106	686793	9.904
11) Dichlorofluoromethane	(1)	3.114	67	1305733	9.680
12) Trichlorofluoromethane	(1)	3.186	101	2213762	9.246
13) Pentane	(1)	3.280	43	701982	9.594
15) Freon123a	(1)	3.589	67	1185153	10.405
14) Ethanol	(1)	3.624	45	124075M	5.920
16) Acrolein	(1)	3.743	56	117048	8.684
17) 1,1-Dichloroethene	(1)	3.838	61	888307	9.189
18) Freon 113	(1)	3.873	103	934168	8.849
19) Acetone	(1)	3.980	43	698496	10.195
20) Methyl Iodide	(1)	4.028	142	1569644	9.600
21) Carbon Disulfide	(1)	4.111	76	1607266	9.056
22) Isopropanol	(1)	4.371	45	773451M	9.620
23) Acetonitrile	(1)	4.383	40	194576	13.619
24) 3-Chloropropene	(1)	4.383	76	280481	9.841
25) Methylene Chloride	(1)	4.585	84	520237	10.329
26) tert-Butyl Alcohol	(1)	5.047	59	1439006M	11.613
28) trans-1,2-Dichloroethene	(1)	5.047	61	766544	9.887
27) Acrylonitrile	(1)	5.047	53	309124	13.531
29) Methyl t-Butyl Ether	(1)	5.130	73	1904158	10.495
30) Hexane	(1)	5.581	57	788432	9.293
31) 1,1-Dichloroethane	(1)	5.794	63	1045877	9.580
32) Vinyl Acetate	(1)	5.996	86	122473	8.232
33) Di-Isopropyl Ether	(1)	6.043	45	1495536	10.169
36) 1,2-Dichloroethene (total)	(1)		61	1561038	20.061
34) Ethyl Tert-Butyl Ether	(1)	6.708	59	1988073	9.943
35) cis-1,2-Dichloroethene	(1)	6.862	61	794494	10.174
37) 2-Butanone	(1)	6.992	72	315507	11.331
38) Ethyl Acetate	(1)	7.146	70	211474	11.478

M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00006.d
 Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 16:19

Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.170	55	857633	10.995
40) *Bromochloromethane	(1)	7.277	130	771832	10.000
41) Tetrahydrofuran	(1)	7.443	42	449245	10.392
42) Chloroform	(1)	7.478	83	1531416	9.591
43) 1,1,1-Trichloroethane	(1)	7.739	97	1897842	9.533
44) Cyclohexane	(1)	7.822	56	853523	9.537
45) Carbon Tetrachloride	(1)	8.036	117	2029492	9.636
46) Benzene	(2)	8.415	78	2052625	10.105
47) 1,2-Dichloroethane	(2)	8.475	62	991927	10.135
48) Isooctane	(2)	8.629	57	2643054	9.827
49) Tert-Amyl Methyl Ether	(2)	8.747	73	2201335	10.927
50) Heptane	(2)	9.020	43	789680	9.939
51) *1,4-Difluorobenzene	(2)	9.210	114	2983541	10.000
52) Trichloroethene	(2)	9.648	130	1058611	9.882
53) Ethyl Acrylate	(2)	10.040	55	1199970	11.870
54) 1,2-Dichloropropane	(2)	10.075	63	603903	10.157
55) Dibromomethane	(2)	10.301	174	1112780	10.318
57) Methyl Methacrylate	(2)	10.490	69	673055	10.843
56) 1,4-Dioxane	(2)	10.562	88	533614M	10.926
58) Bromodichloromethane	(2)	10.668	83	1696764	10.234
59) cis-1,3-Dichloropropene	(2)	11.617	75	981352	9.832
60) 4-Methyl-2-Pentanone	(2)	12.079	43	1116702	10.875
61) Toluene	(3)	12.293	91	2744296	10.285
62) Octane	(3)	12.708	43	1054073	9.933
63) trans-1,3-Dichloropropene	(3)	12.862	75	1082597	10.781
64) 1,3-Dichloropropene (total)	(3)		75	2063949	20.613
65) Ethyl Methacrylate	(3)	13.218	69	1163542	10.963
66) 1,1,2-Trichloroethane	(3)	13.242	97	941896	10.404
67) Tetrachloroethene	(3)	13.491	166	1703995	10.151
68) 2-Hexanone	(3)	14.001	43	1095275	12.314
69) Dibromochloromethane	(3)	14.095	127	1386195	9.950
70) 1,2-Dibromoethane	(3)	14.285	107	1433516	10.033
71) *Chlorobenzene-d5	(3)	15.435	117	2691526	10.000
72) Chlorobenzene	(3)	15.507	112	2304290	10.524
73) 1,1,1,2-Tetrachloroethane	(3)	15.756	131	1338924	10.458
74) Ethylbenzene	(3)	15.850	91	3744317	10.737
75) m/p-Xylene	(3)	16.159	91	3047334M	9.923
76) o-Xylene	(3)	17.131	91	3152458	10.740

M = Compound was manually integrated.

* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00006.d
 Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 16:19
 Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sublist used: all

Sample Name: VSTD010

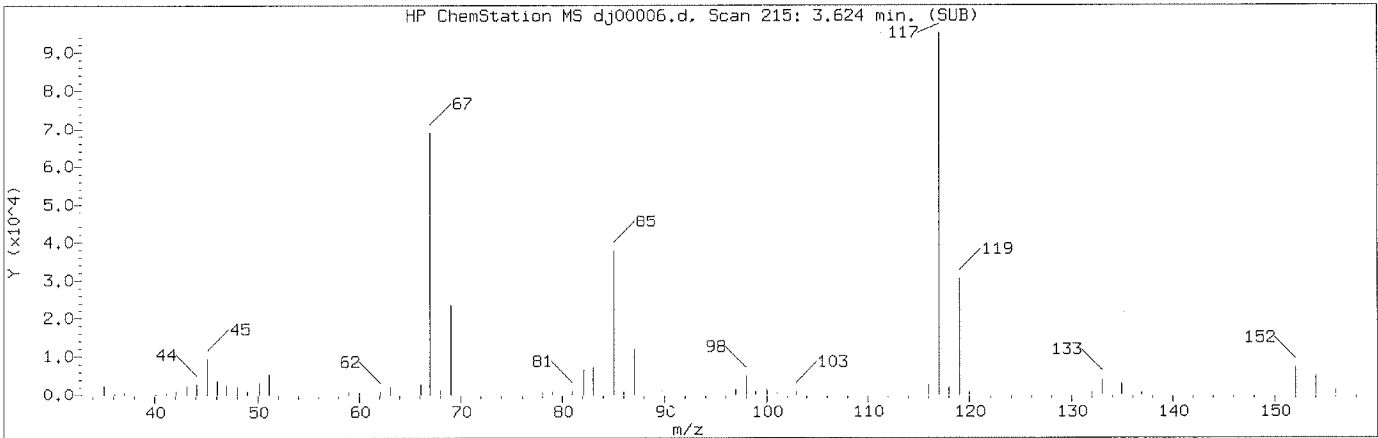
Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.179	104	2359707	10.842
77) Xylene (total)	(3)		91	6199792	20.663
79) Bromoform	(3)	17.558	173	1983473	10.713
80) Cumene	(3)	18.127	105	4454992	10.459
81) Bromobenzene	(3)	18.768	156	1428677	10.812
82) 1,1,2,2-Tetrachloroethane	(3)	18.981	83	1900956	10.707
83) 1,2,3-Trichloropropane	(3)	19.017	110	669235	10.321
84) n-Propylbenzene	(3)	19.218	120	1210397	10.376
85) 2-Chlorotoluene	(3)	19.337	126	1006228	10.494
86) 4-Ethyltoluene	(3)	19.538	105	4294307	10.497
87) 1,3,5-Trimethylbenzene	(3)	19.740	105	3898532	10.377
88) Alpha Methyl Styrene	(3)	20.333	118	1699308	10.686
89) tert-Butylbenzene	(3)	20.570	119	3771077	10.017
90) 1,2,4-Trimethylbenzene	(3)	20.712	105	3731659	10.420
91) sec-Butylbenzene	(3)	21.187	105	5051846	10.127
92) 1,3-Dichlorobenzene	(3)	21.365	146	2369099	11.001
93) 1,4-Dichlorobenzene	(3)	21.661	146	2267871	10.810
94) p-Isopropyltoluene	(3)	21.697	119	4451313	10.295
95) Benzyl Chloride	(3)	22.171	91	2277442	10.069
96) 1,2-Dichlorobenzene	(3)	22.823	146	2149778	10.425
97) n-Butylbenzene	(3)	23.025	91	3473839M	10.501
98) Hexachloroethane	(3)	23.487	117	1422948	11.175
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	1155975	10.044
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	1778908	11.666
101) Hexachlorobutadiene	(3)	26.179	225	2355220	9.095
102) Naphthalene	(3)	26.215	128	3541411	13.660

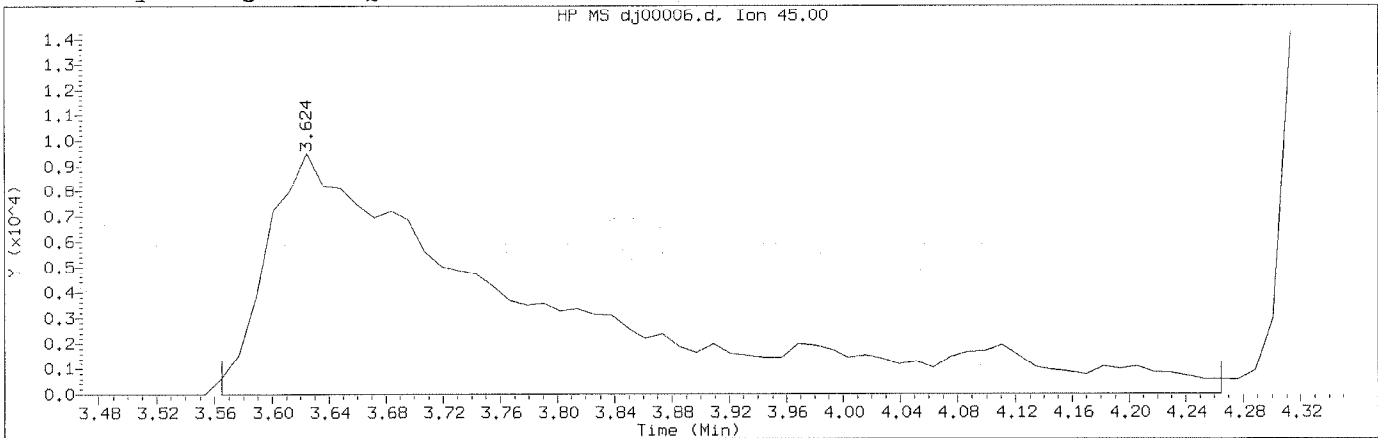
M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00006.d
Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:19
Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

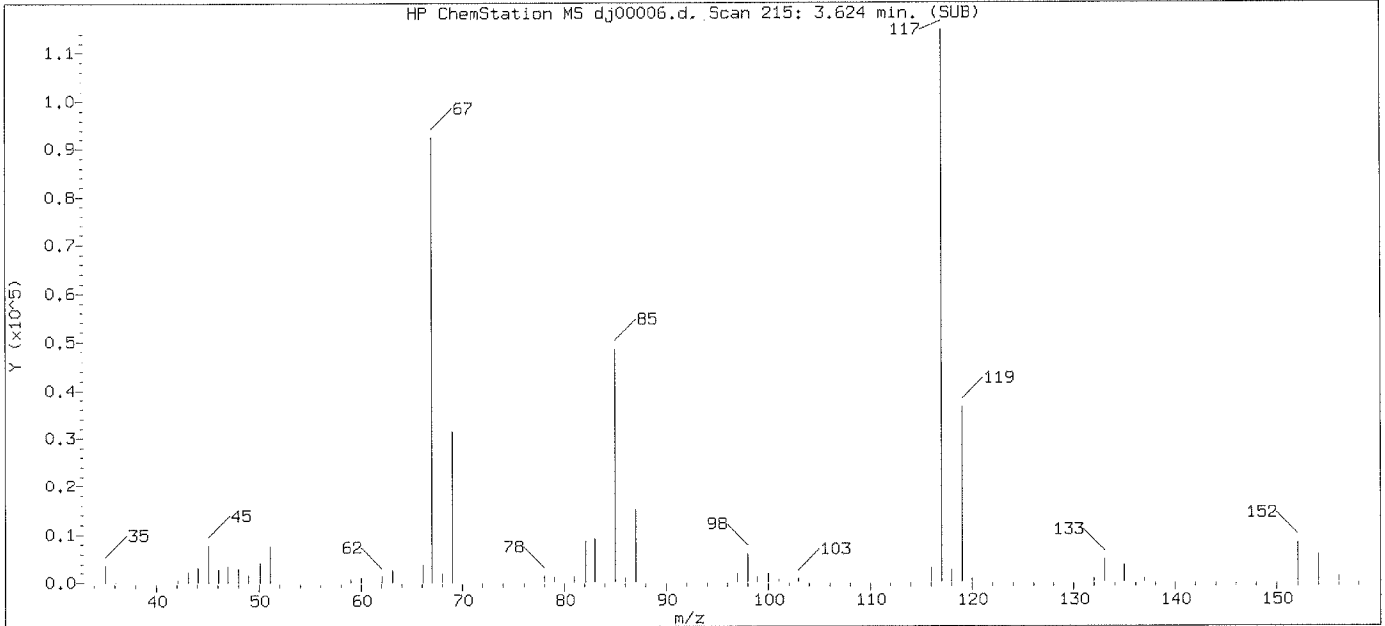
Compound Number : 14
Compound Name : Ethanol
Scan Number : 215
Retention Time (minutes): 3.624
Quant Ion : 45.00
Area (flag) : 124075M
Concentration (ppb(v)) : 5.9199
Integration start scan : 209 Integration stop scan: 268
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

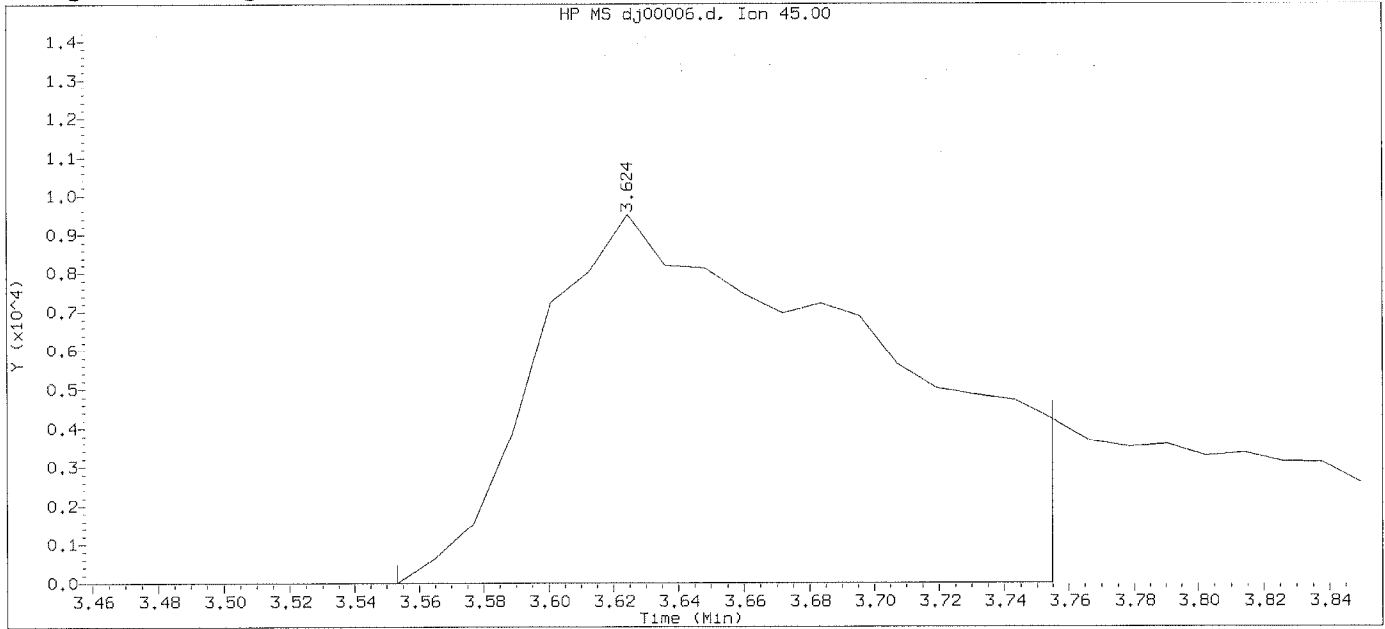
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omny 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00006.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 15:28

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 15:29

Date, time and analyst ID of latest file update: 01-Oct-2015 16:09 Automation

Sample Name: VSTD010

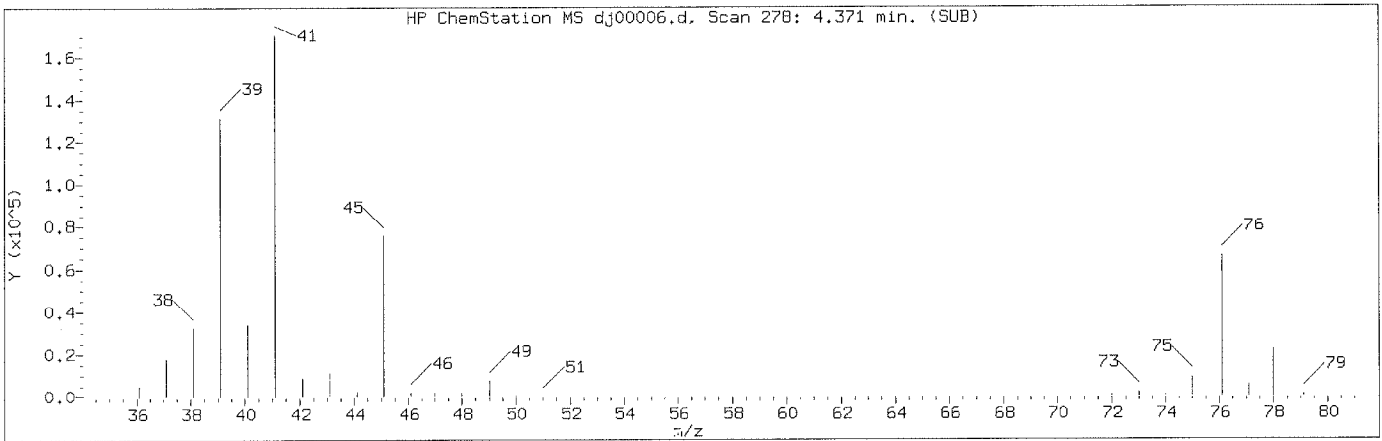
Lab Sample ID: VSTD010

Compound Number : 14
Compound Name : Ethanol
Scan Number : 215
Retention Time (minutes): 3.624
Quant Ion : 45.00
Area : 69742
Concentration (ppb(v)) : 3.3623
Integration start scan : 208
Y at integration start : 0

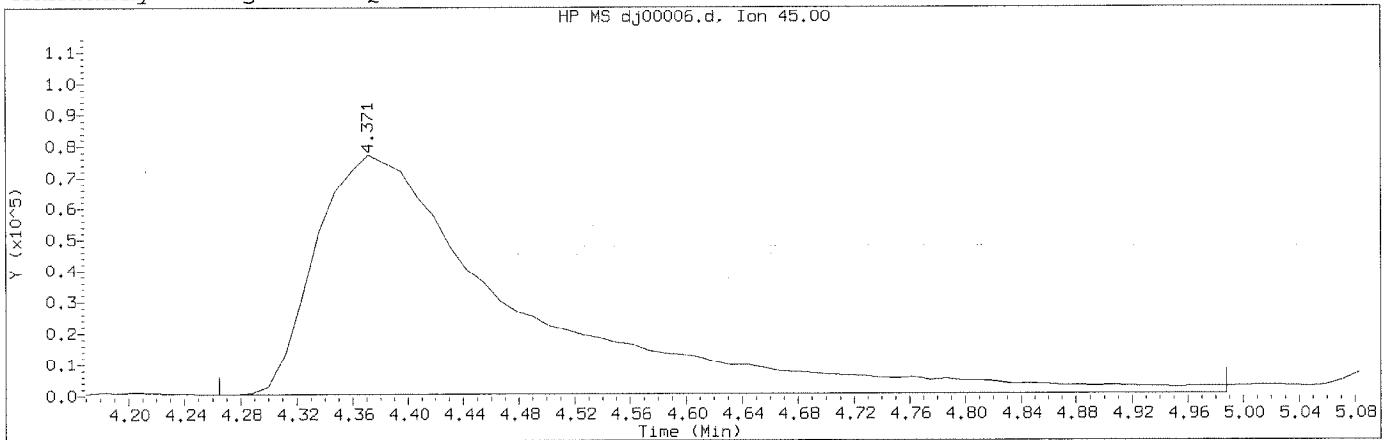
Integration stop scan: 225
Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00006.d
Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:19
Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

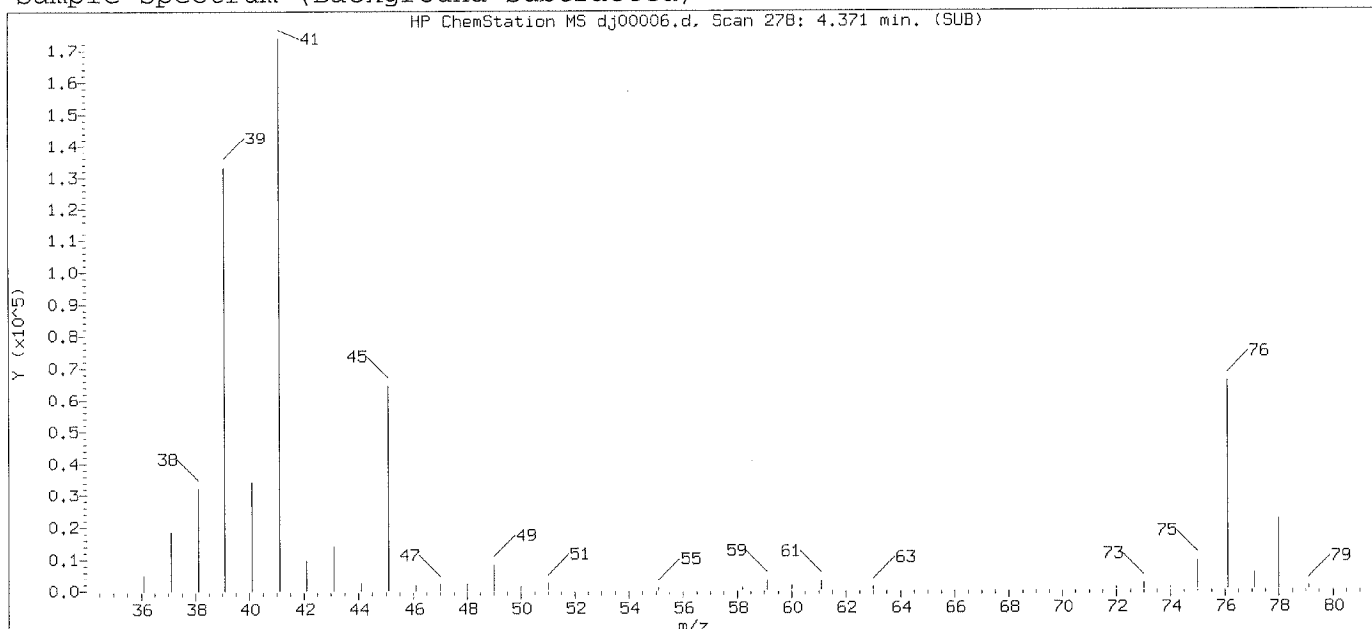
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 278
Retention Time (minutes): 4.371
Quant Ion : 45.00
Area (flag) : 773451M
Concentration (ppb(v)) : 9.6202
Integration start scan : 268 Integration stop scan: 329
Y at integration start : 570 Y at integration end: 589

Reason for manual integration: improper integration

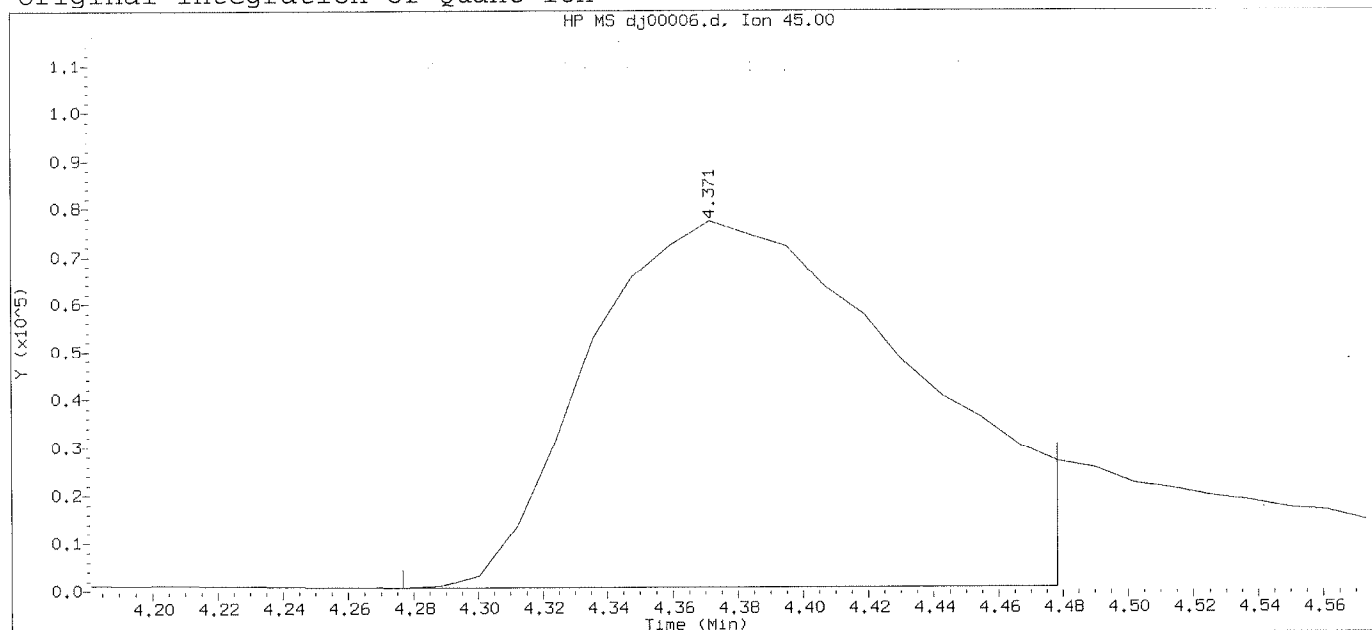
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omy 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00006.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 15:28

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 15:29

Date, time and analyst ID of latest file update: 01-Oct-2015 16:09 Automation

Sample Name: VSTD010

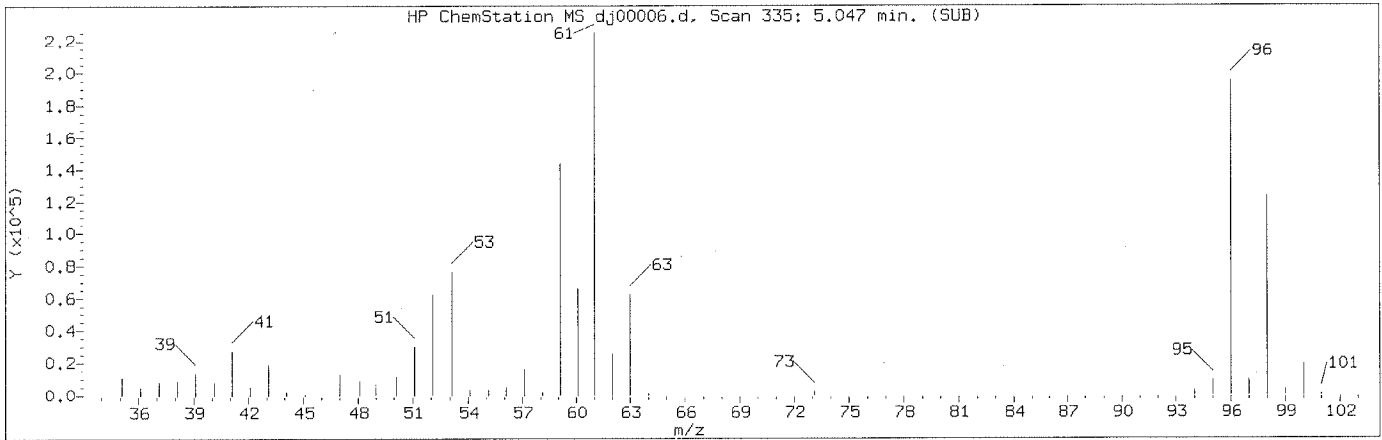
Lab Sample ID: VSTD010

Compound Number : 22
 Compound Name : Isopropanol
 Scan Number : 278
 Retention Time (minutes): 4.371
 Quant Ion : 45.00
 Area : 528572
 Concentration (ppb(v)) : 6.5790
 Integration start scan : 269
 Y at integration start : 544

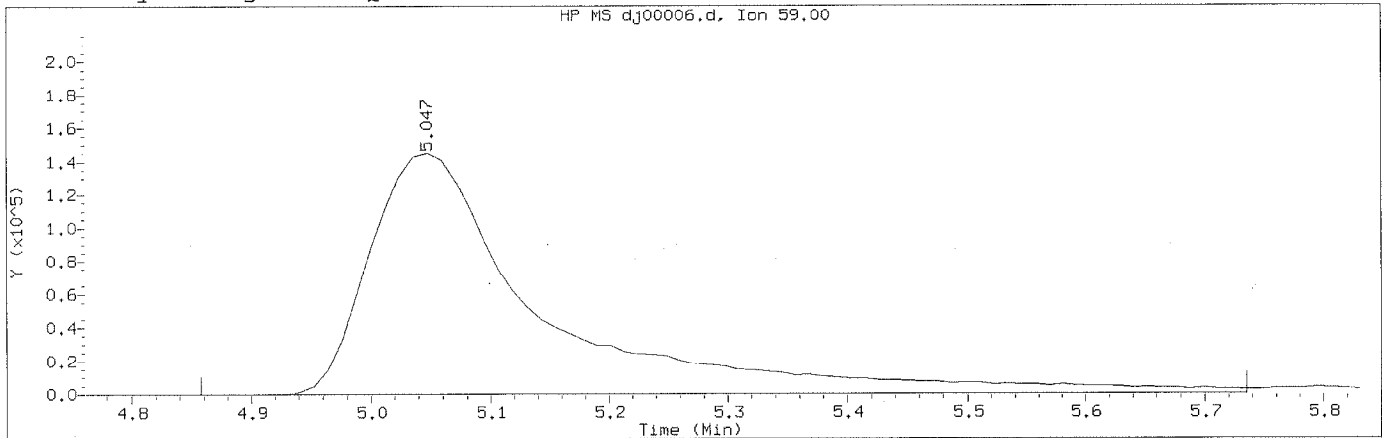
Integration stop scan: 286
 Y at integration end: 544

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00006.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 15:28 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 16:19
Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

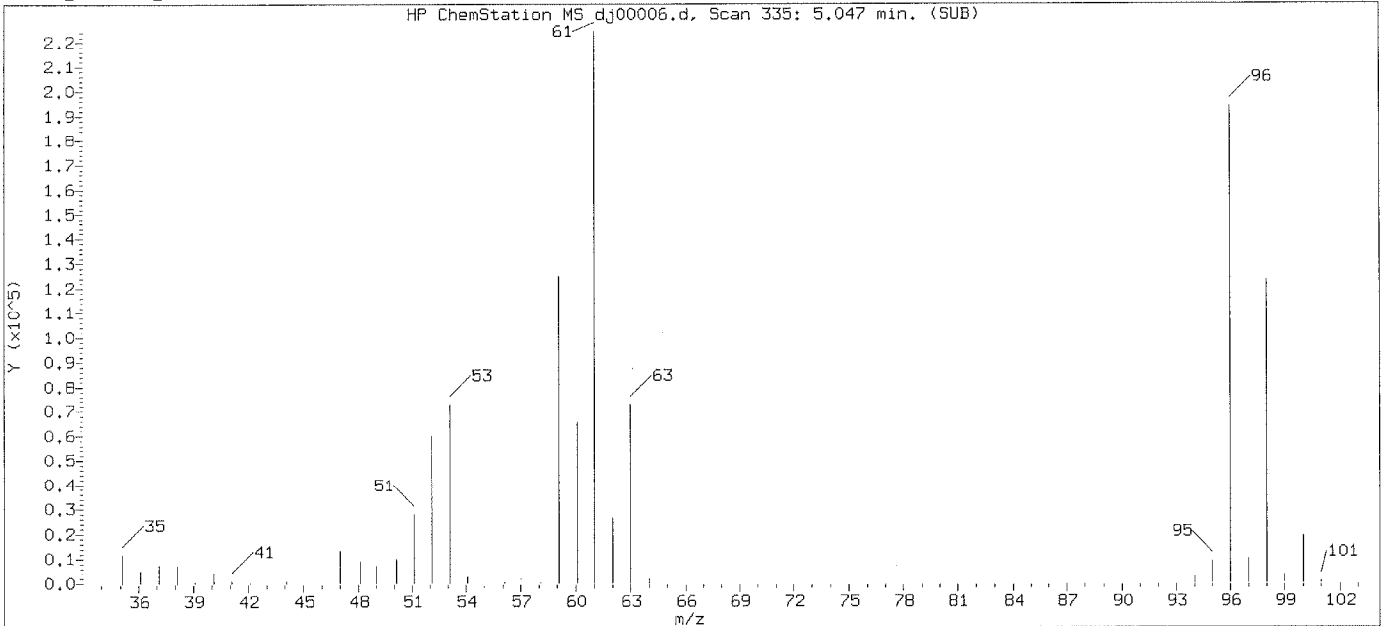
Compound Number : 26
Compound Name : tert-Butyl Alcohol
Scan Number : 335
Retention Time (minutes): 5.047
Quant Ion : 59.00
Area (flag) : 1439006M
Concentration (ppb(v)) : 11.6129
Integration start scan : 318 Integration stop scan: 392
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

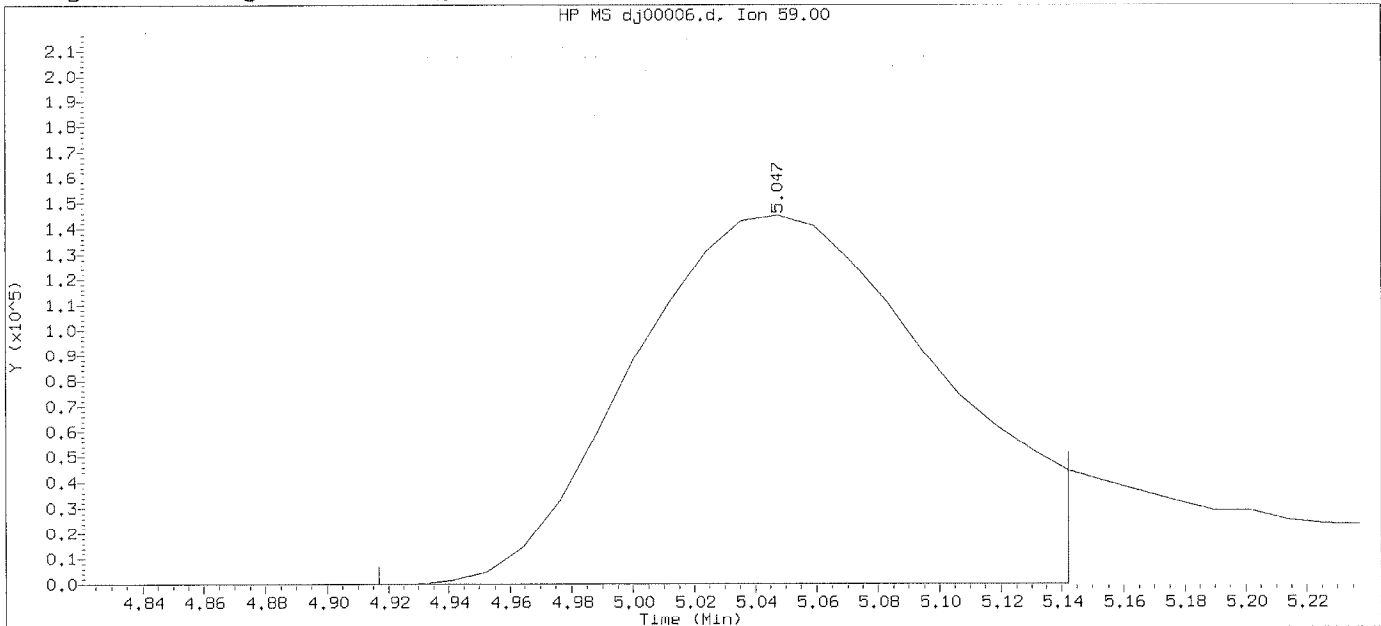
Digitally signed by Jeffrey B. Smith
Analyst responsible for change: on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Cmly 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



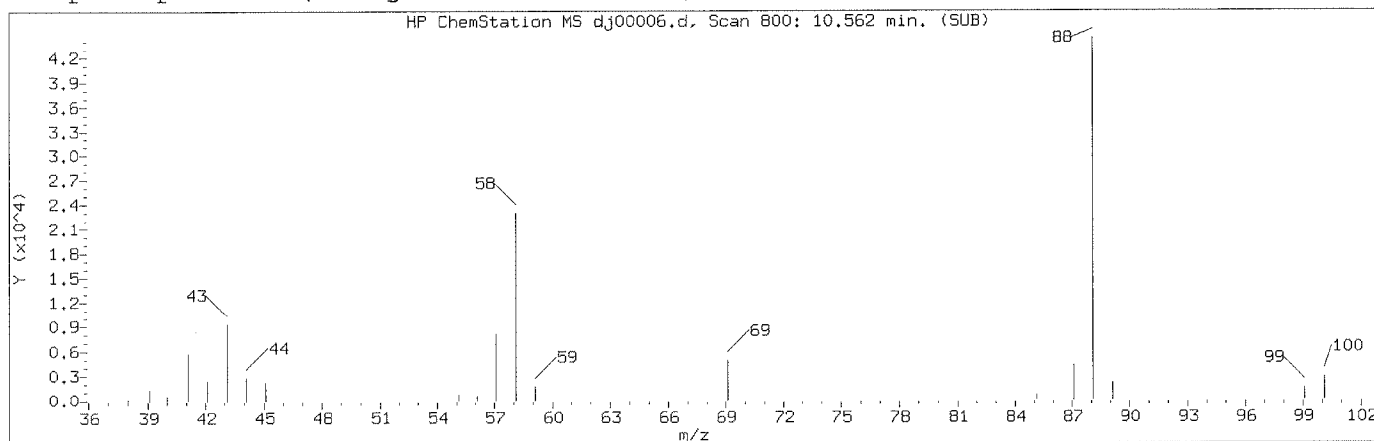
Data File: /chem/HP10145.i/15oct01.b/dj00006.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 15:28 Analyst ID: jbs01304
 Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 15:29
 Date, time and analyst ID of latest file update: 01-Oct-2015 16:09 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

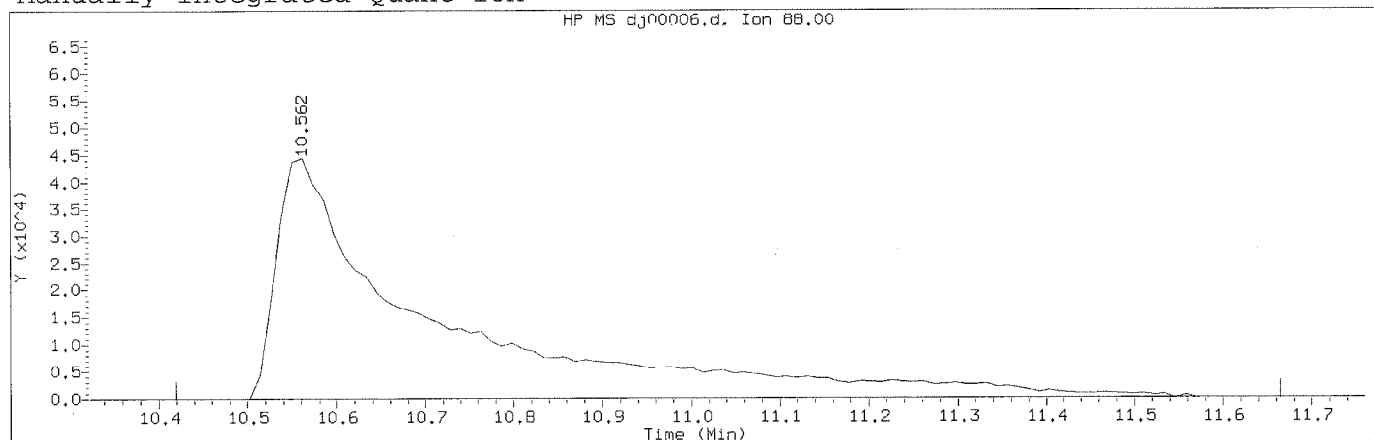
Compound Number : 26
 Compound Name : tert-Butyl Alcohol
 Scan Number : 335
 Retention Time (minutes): 5.047
 Quant Ion : 59.00
 Area : 1004258
 Concentration (ppb(v)) : 8.2578
 Integration start scan : 323 Integration stop scan: 342
 Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00006.d
Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:19
Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 800
Retention Time (minutes): 10.562
Quant Ion : 88.00
Area (flag) : 533614M
Concentration (ppb(v)) : 10.9263
Integration start scan : 787 Integration stop scan: 892
Y at integration start : 0 Y at integration end: 0

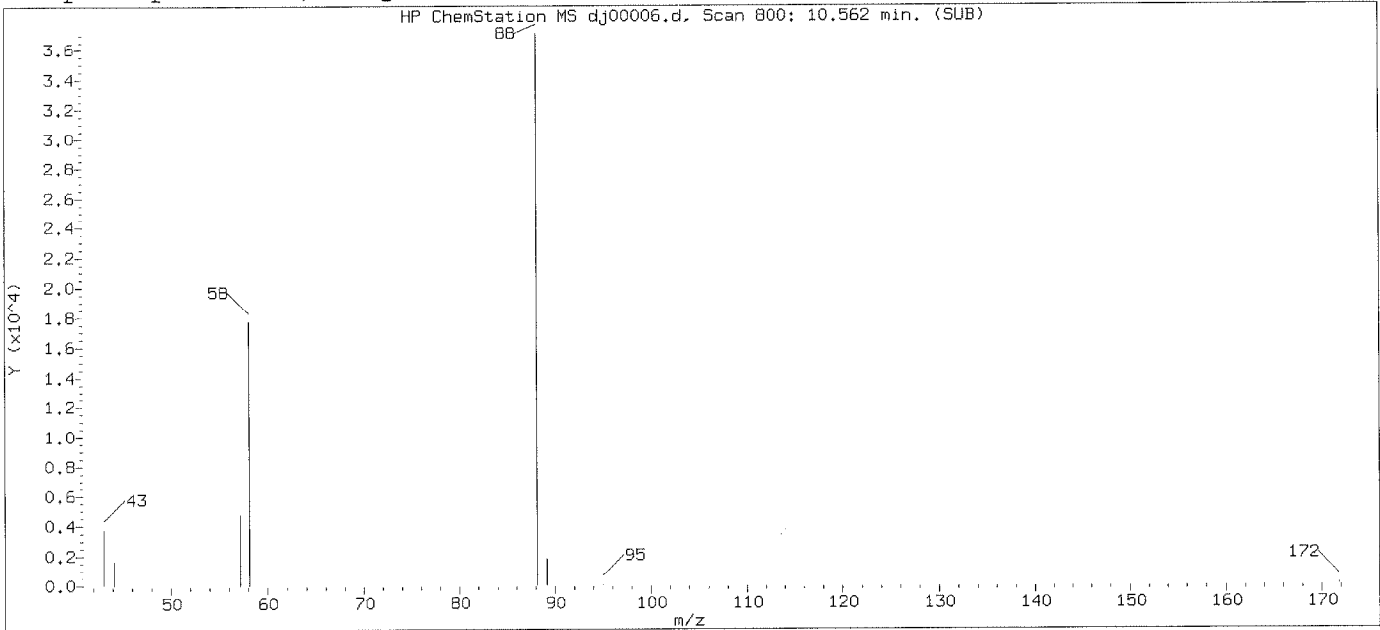
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

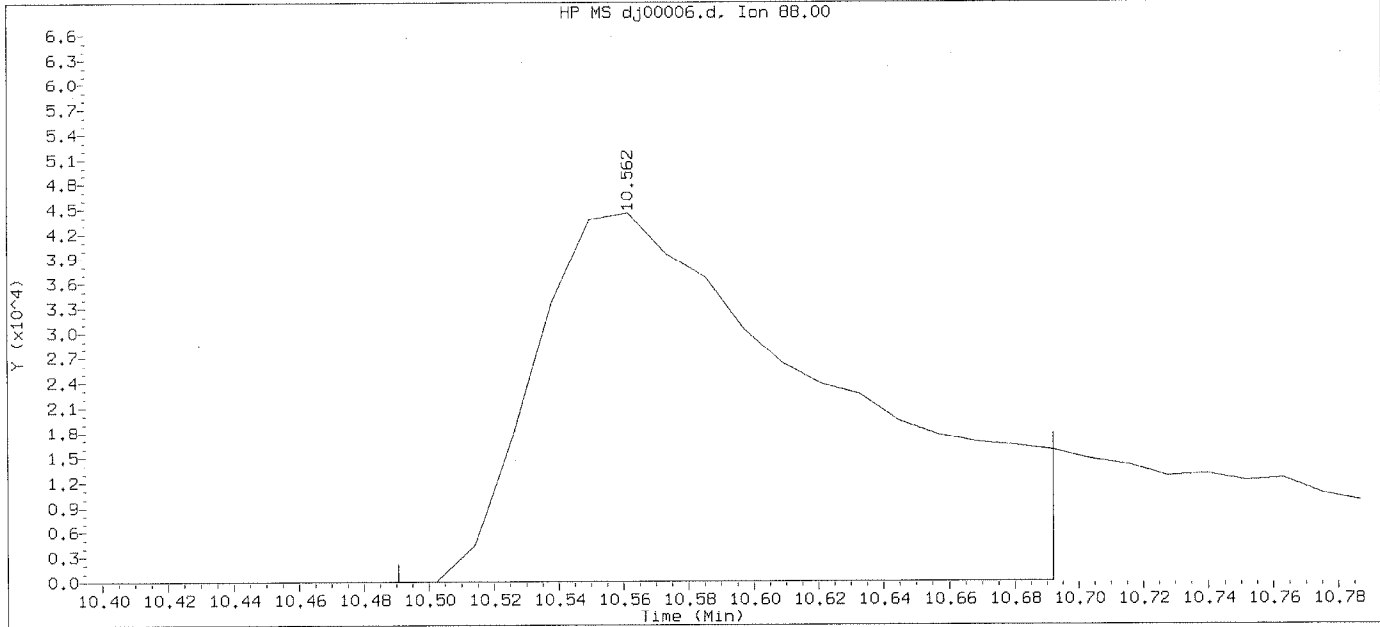
GC/MS audit/management approval: _____

Handwritten signature: CMY 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00006.d
Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 15:29
Date, time and analyst ID of latest file update: 01-Oct-2015 16:09 Automation

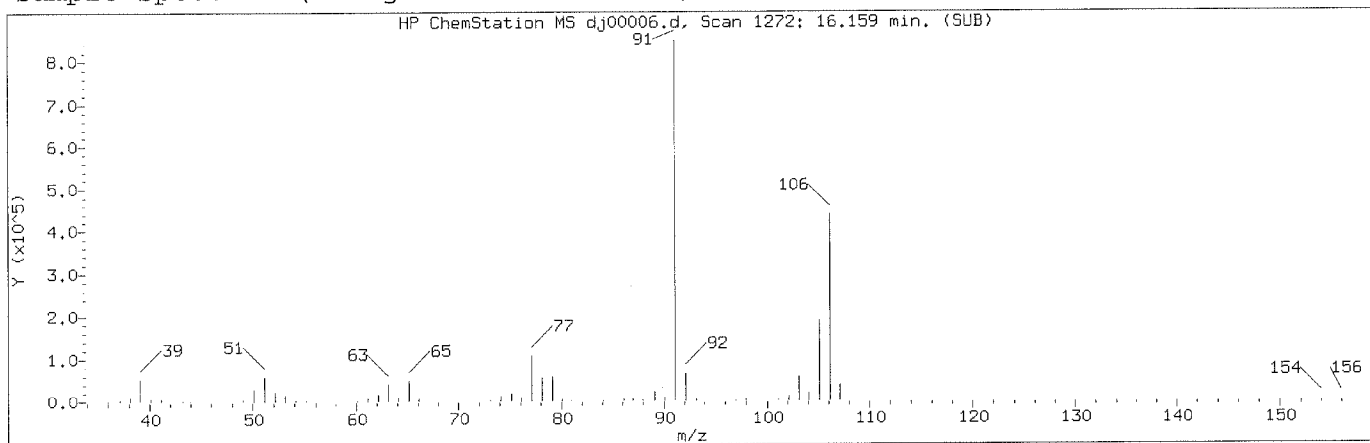
Sample Name: VSTD010

Lab Sample ID: VSTD010

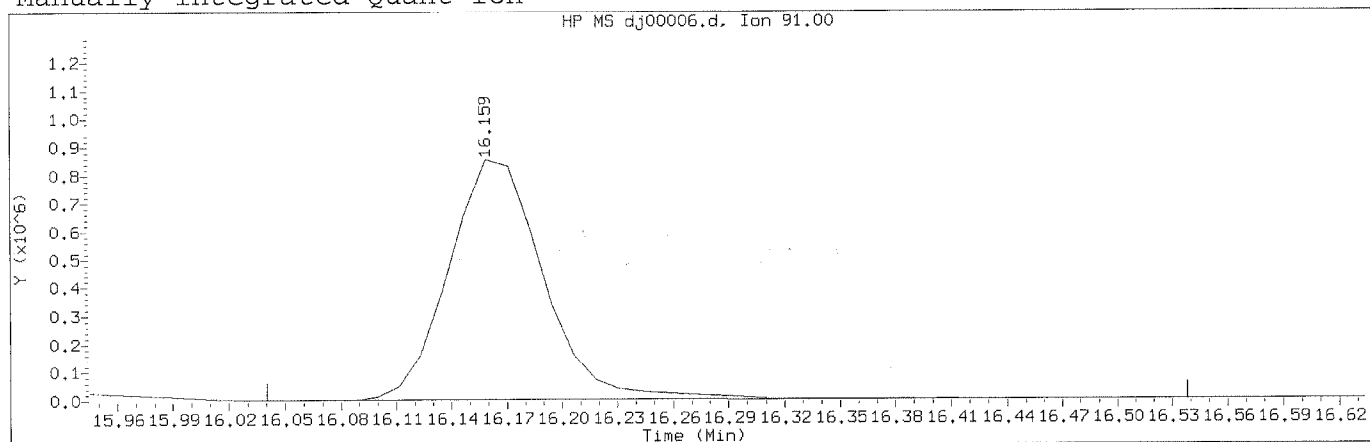
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 800
Retention Time (minutes): 10.562
Quant Ion : 88.00
Area : 285403
Concentration (ppb(v)) : 5.9648
Integration start scan : 793
Integration stop scan: 810
Y at integration start : 0
Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00006.d
 Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 16:19
 Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

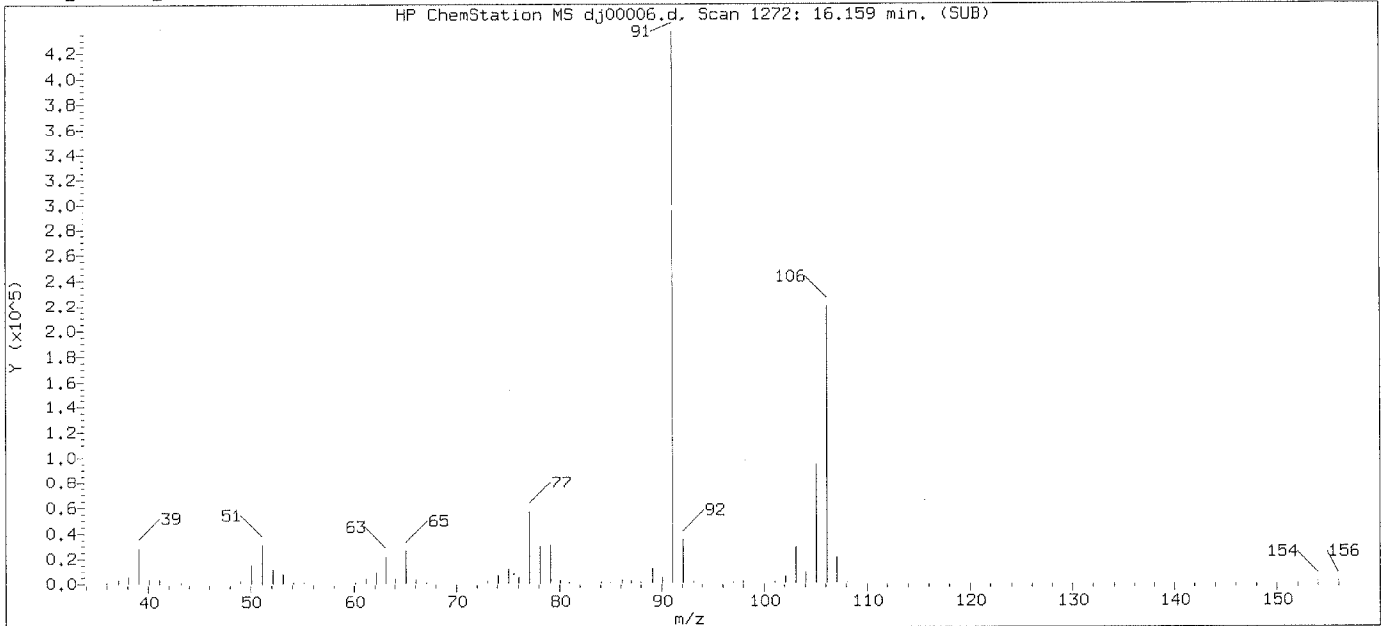
Compound Number	: 75	
Compound Name	: m/p-Xylene	
Scan Number	: 1272	
Retention Time (minutes)	: 16.159	
Quant Ion	: 91.00	
Area (flag)	: 3047334M	
Concentration (ppb(v))	: 9.9230	
Integration start scan	: 1261	Integration stop scan: 1303
Y at integration start	: 1465	Y at integration end: 0

Reason for manual integration: improper integration

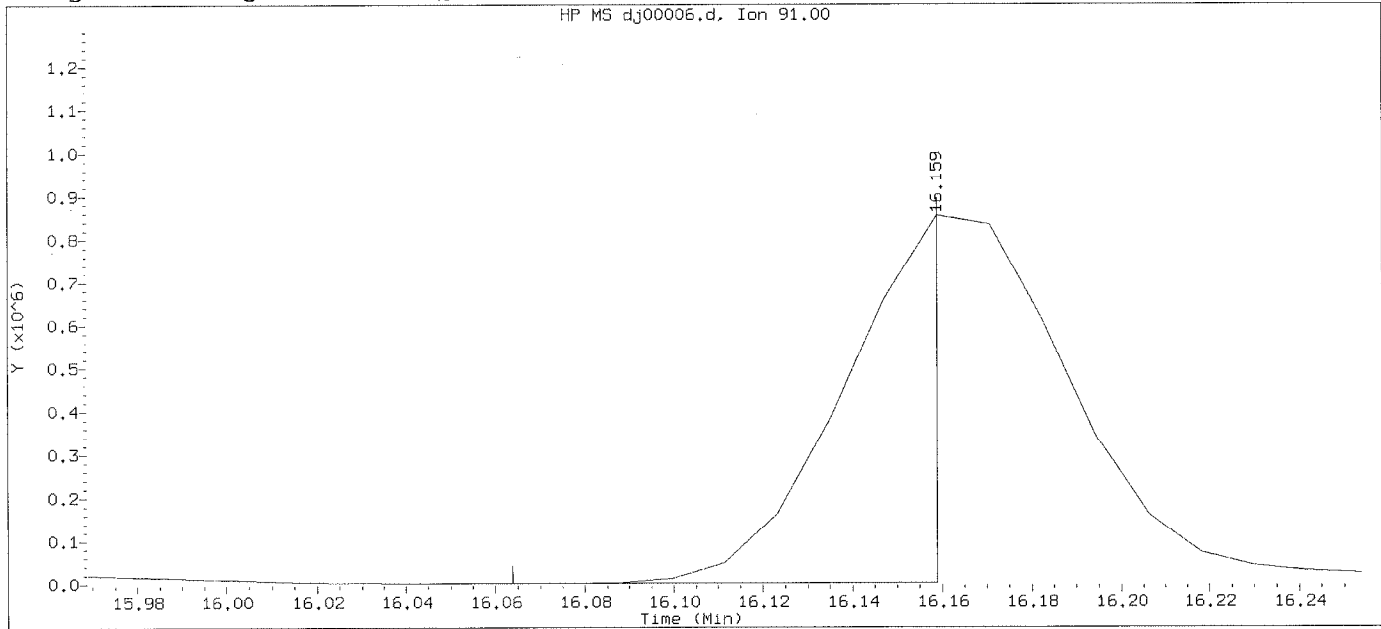
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Cmuyin 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00006.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 15:28

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 15:29

Date, time and analyst ID of latest file update: 01-Oct-2015 16:09 Automation

Sample Name: VSTD010

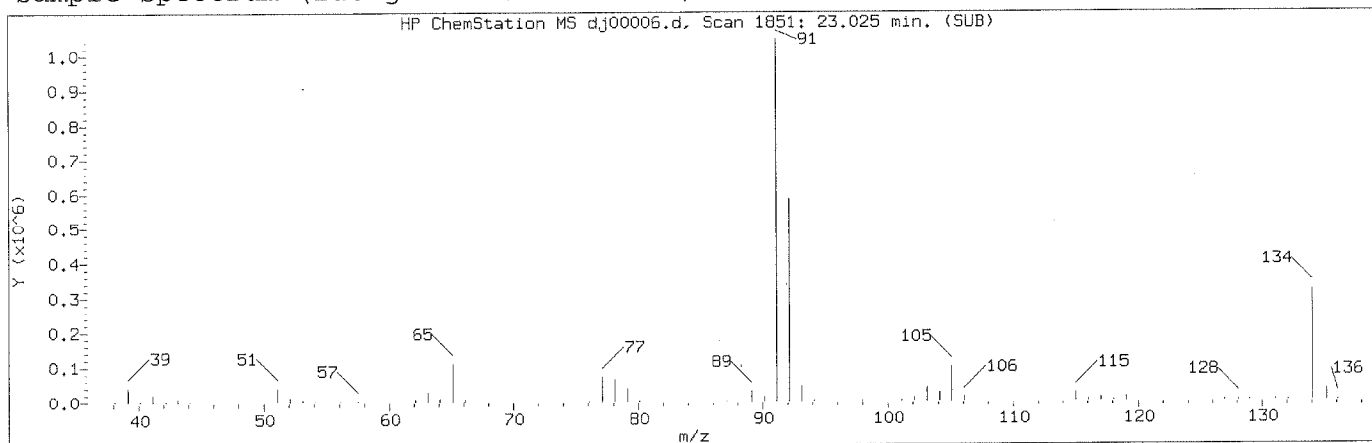
Lab Sample ID: VSTD010

Compound Number : 75
 Compound Name : m/p-Xylene
 Scan Number : 1272
 Retention Time (minutes): 16.159
 Quant Ion : 91.00
 Area : 1198451
 Concentration (ppb(v)) : 3.9189
 Integration start scan : 1263
 Y at integration start : 1220

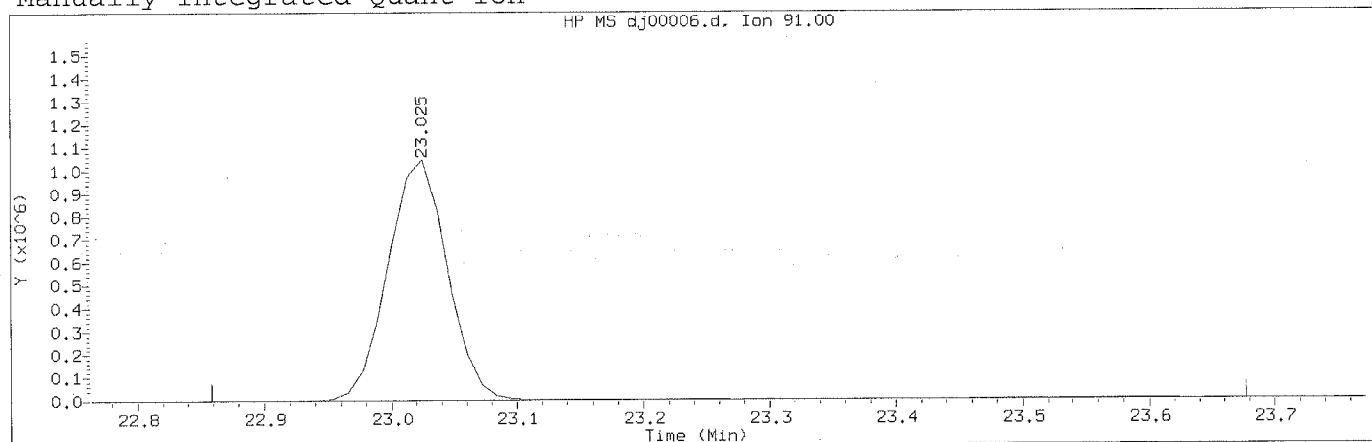
Integration stop scan: 1271
 Y at integration end: 1220

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj000006.d
Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:19
Date, time and analyst ID of latest file update: 01-Oct-2015 16:19 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compound Number : 97
Compound Name : n-Butylbenzene
Scan Number : 1851
Retention Time (minutes): 23.025
Quant Ion : 91.00
Area (flag) : 3473839M
Concentration (ppb(v)) : 10.5010
Integration start scan : 1836 Integration stop scan: 1905
Y at integration start : 594 Y at integration end: 853

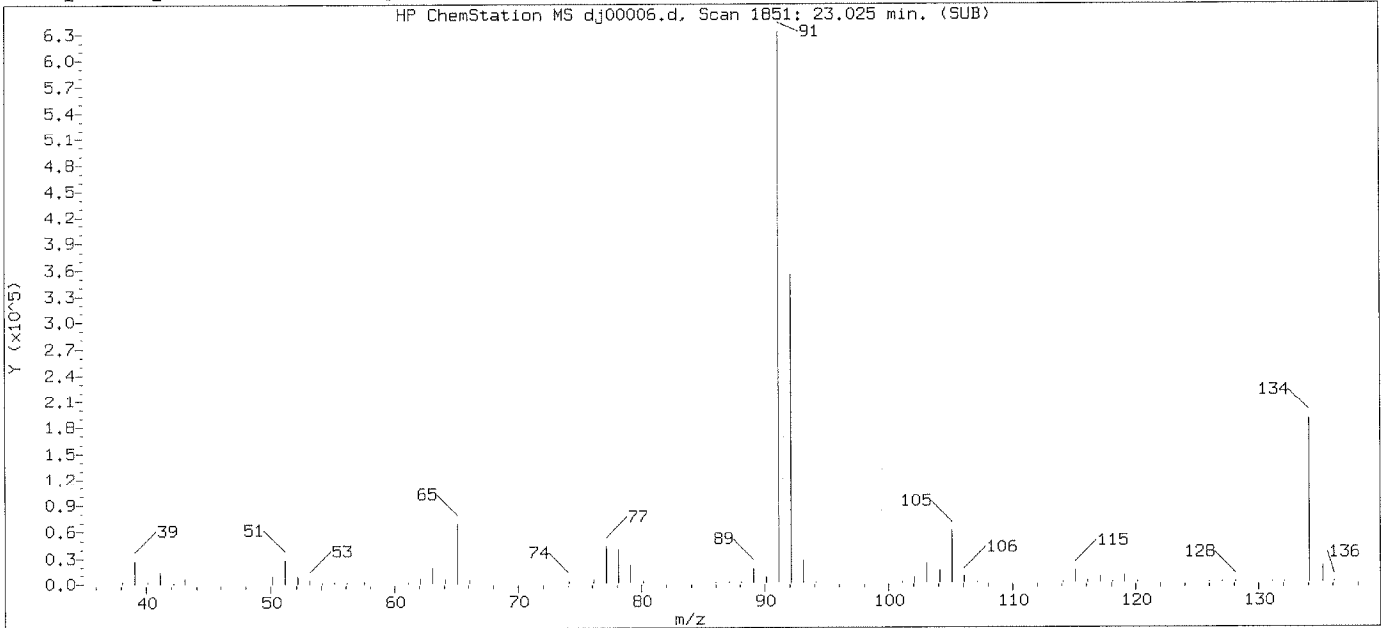
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

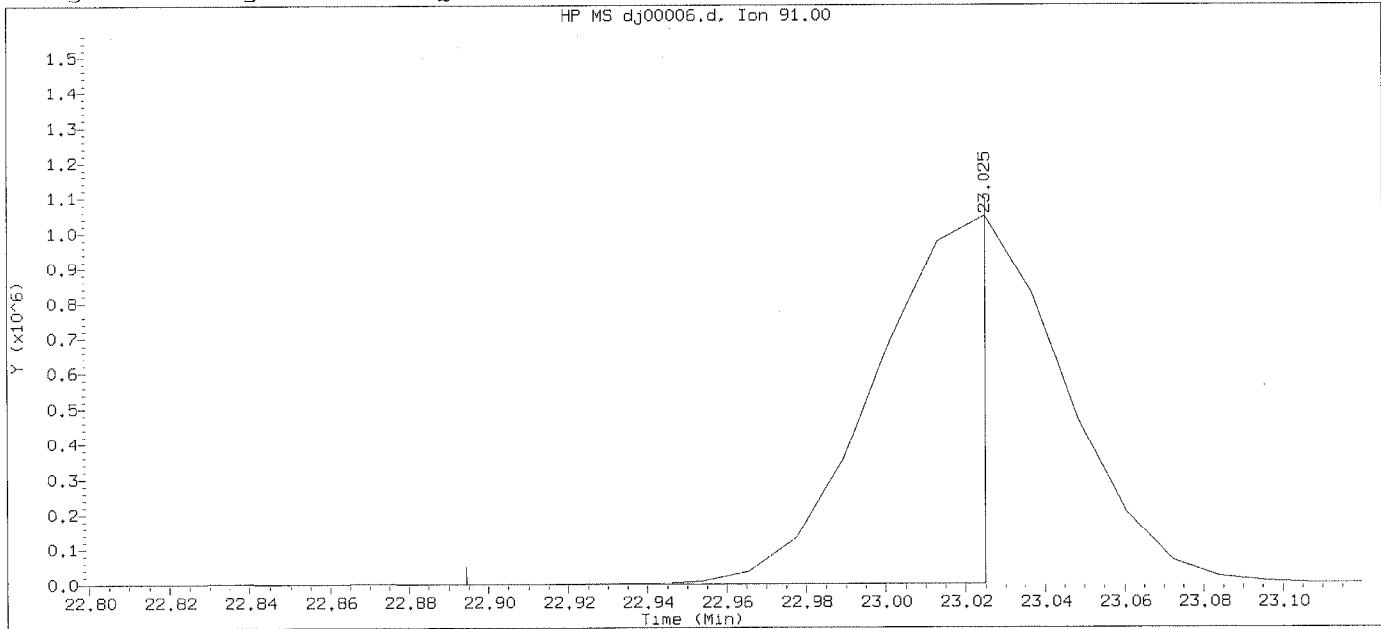
GC/MS audit/management approval: _____

Omym 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00006.d
Injection date and time: 01-OCT-2015 15:28

Instrument ID: HP10145.i
Analyst ID: jbs01304

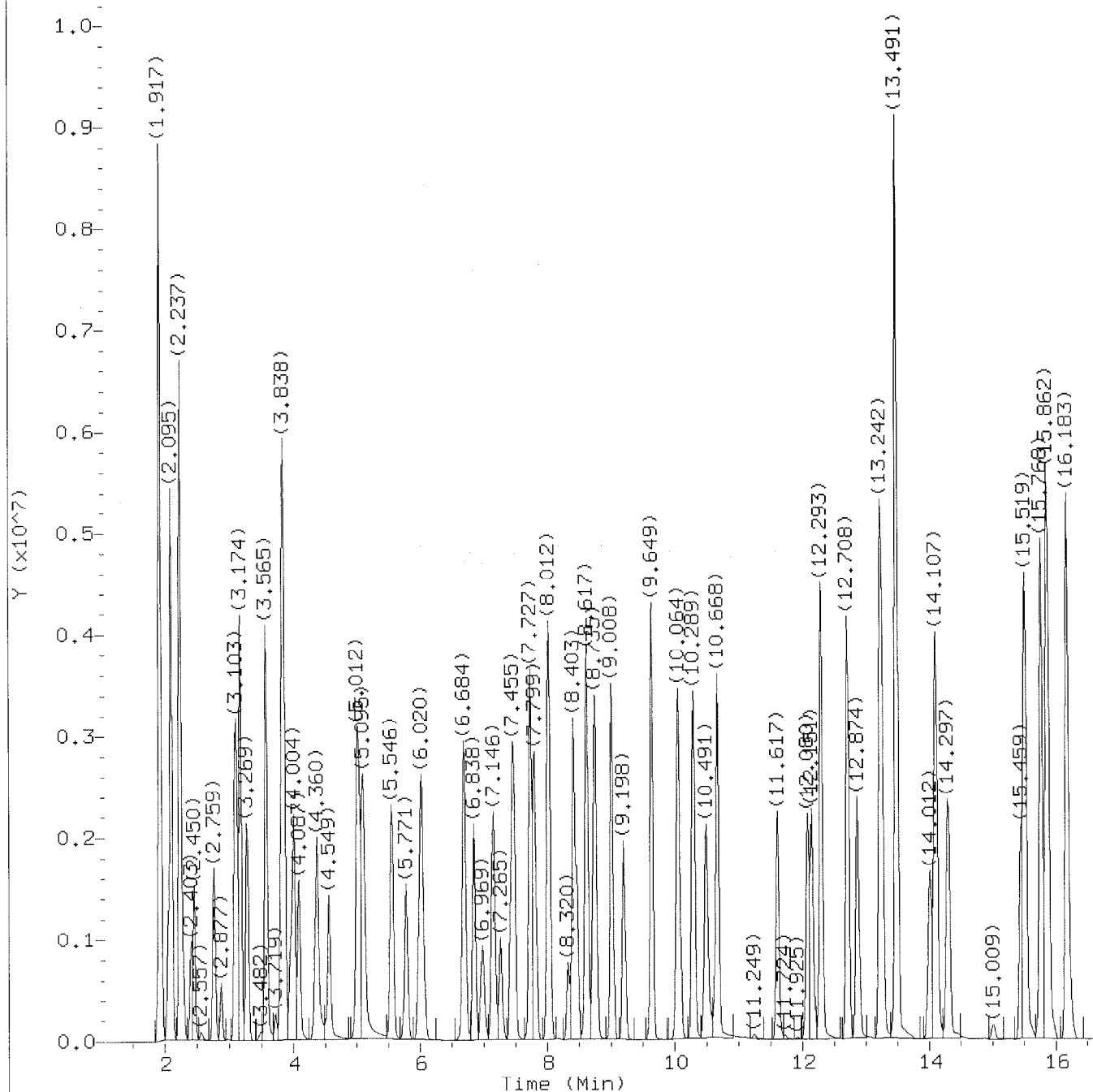
Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 15:29
Date, time and analyst ID of latest file update: 01-Oct-2015 16:09 Automation

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compound Number : 97
Compound Name : n-Butylbenzene
Scan Number : 1851
Retention Time (minutes): 23.025
Quant Ion : 91.00
Area : 1933119
Concentration (ppb(v)) : 5.9016
Integration start scan : 1839 Integration stop scan: 1850
Y at integration start : 709 Y at integration end: 709

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Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00007.d
Injection date and time: 01-OCT-2015 16:12

Instrument ID: HP10145.i
Analyst ID: jbs01304

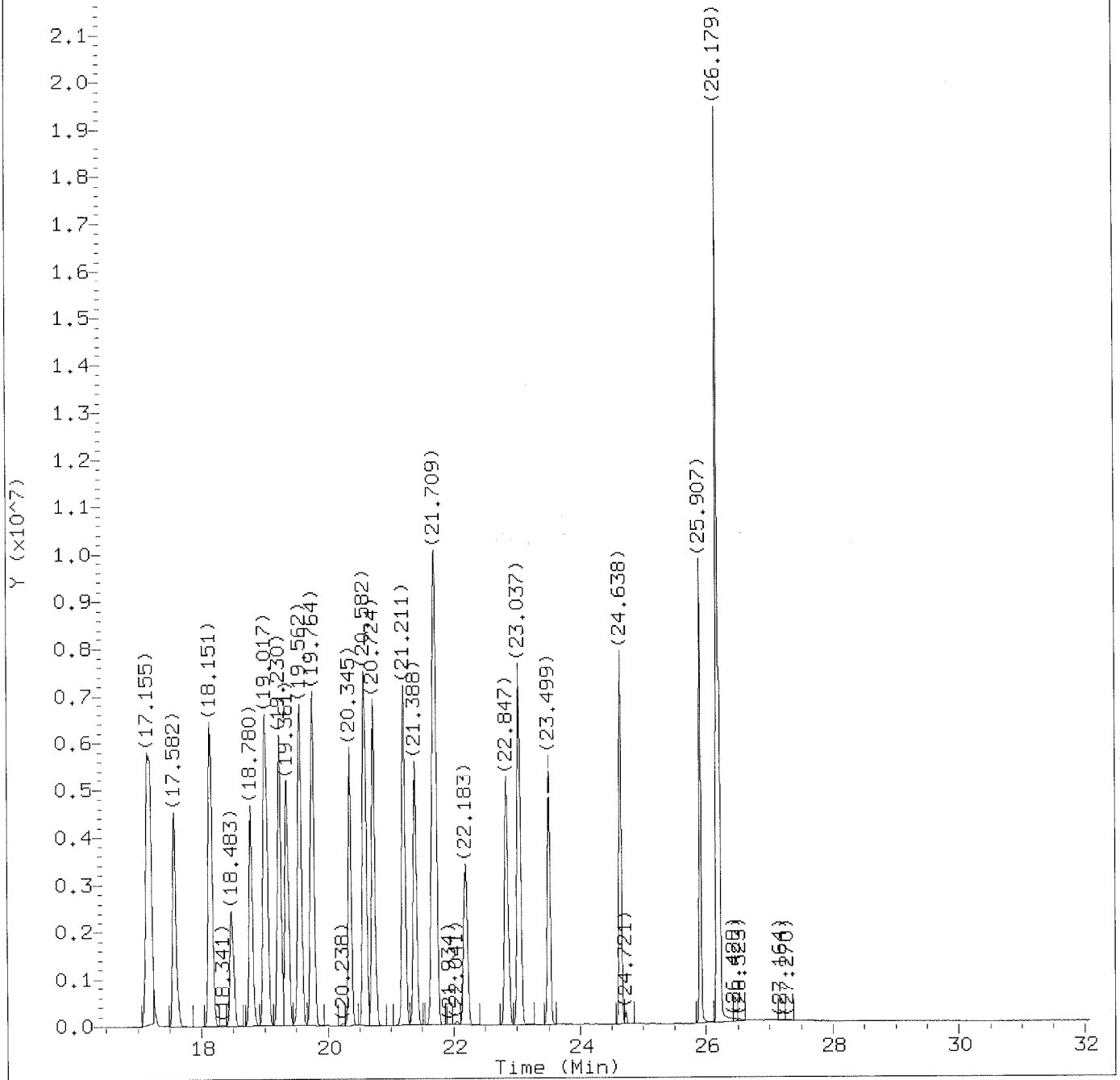
Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:55
Date, time and analyst ID of latest file update: 01-Oct-2015 16:55 jeb07445

Sublist used: all

Sample Name: VSTD025

Lab Sample ID: VSTD025

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00007.d
Injection date and time: 01-OCT-2015 16:12

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:55
Date, time and analyst ID of latest file update: 01-Oct-2015 16:55 jeb07445

Sublist used: all

Sample Name: VSTD025

Lab Sample ID: VSTD025

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00007.d
 Injection date and time: 01-OCT-2015 16:12

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 16:55

Date, time and analyst ID of latest file update: 01-Oct-2015 16:55 jeb07445

Sample Name: VSTD025

Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	796242	25.569
2) Dichlorodifluoromethane	(1)	2.095	85	5596767	24.651
3) Chlorodifluoromethane	(1)	2.107	51	2054761	26.324
4) Freon 114	(1)	2.237	85	4291897	23.368
5) Chloromethane	(1)	2.284	52	365006	26.074
6) Vinyl Chloride	(1)	2.403	62	1354044	24.646
7) 1,3-Butadiene	(1)	2.450	54	917951	25.578
8) Bromomethane	(1)	2.759	94	1640577	23.461
9) Chloroethane	(1)	2.877	64	720660	23.389
10) Bromoethene	(1)	3.079	106	1706220	24.935
11) Dichlorofluoromethane	(1)	3.103	67	3235261	24.379
12) Trichlorofluoromethane	(1)	3.174	101	5419218	23.086
13) Pentane	(1)	3.269	43	1770713	24.557
15) Freon123a	(1)	3.565	67	2943291	26.127
14) Ethanol	(1)	3.613	45	290457M	13.999
16) Acrolein	(1)	3.719	56	337143	23.423
17) 1,1-Dichloroethene	(1)	3.814	61	2187301	23.038
18) Freon 113	(1)	3.850	103	2330471M	22.455
19) Acetone	(1)	3.945	43	1788564	26.203
20) Methyl Iodide	(1)	4.004	142	3866255	24.098
21) Carbon Disulfide	(1)	4.087	76	3967598	22.813
22) Isopropanol	(1)	4.336	45	2016071M	24.826
23) Acetonitrile	(1)	4.360	40	557068	34.933
24) 3-Chloropropene	(1)	4.360	76	712479	25.433
25) Methylene Chloride	(1)	4.549	84	1314005	26.331
26) tert-Butyl Alcohol	(1)	5.012	59	3958617M	30.913
28) trans-1,2-Dichloroethene	(1)	5.012	61	1981483	25.416
27) Acrylonitrile	(1)	5.012	53	928383	36.586
29) Methyl t-Butyl Ether	(1)	5.095	73	5018391	27.169
30) Hexane	(1)	5.546	57	2004506	23.952
31) 1,1-Dichloroethane	(1)	5.771	63	2588737	23.978
32) Vinyl Acetate	(1)	5.972	86	325394	21.207
33) Di-Isopropyl Ether	(1)	6.020	45	3734894	25.486
36) 1,2-Dichloroethene (total)	(1)		61	3948987	50.787
34) Ethyl Tert-Butyl Ether	(1)	6.684	59	5004710	25.047
35) cis-1,2-Dichloroethene	(1)	6.838	61	1967504	25.371
37) 2-Butanone	(1)	6.969	72	771632	27.322
38) Ethyl Acetate	(1)	7.135	70	516927	27.914

M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00007.d
 Injection date and time: 01-OCT-2015 16:12

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 01-Oct-2015 16:55 jeb07445

Sample Name: VSTD025

Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.146	55	2177895	27.486
40) *Bromochloromethane	(1)	7.265	130	772889	10.000
41) Tetrahydrofuran	(1)	7.419	42	1130013	25.875
42) Chloroform	(1)	7.467	83	3786134	23.978
43) 1,1,1-Trichloroethane	(1)	7.727	97	4714823	24.043
44) Cyclohexane	(1)	7.799	56	2122259	24.067
45) Carbon Tetrachloride	(1)	8.012	117	4840215	23.501
46) Benzene	(2)	8.403	78	5128404	25.590
47) 1,2-Dichloroethane	(2)	8.463	62	2443891	25.271
48) Isooctane	(2)	8.617	57	6755893	25.440
49) Tert-Amyl Methyl Ether	(2)	8.735	73	5637179	27.837
50) Heptane	(2)	9.008	43	2026590	25.756
51) *1,4-Difluorobenzene	(2)	9.198	114	2968678	10.000
52) Trichloroethene	(2)	9.649	130	2692222	25.355
53) Ethyl Acrylate	(2)	10.040	55	3004765	29.249
54) 1,2-Dichloropropane	(2)	10.064	63	1497884	25.499
55) Dibromomethane	(2)	10.289	174	2799178	26.118
57) Methyl Methacrylate	(2)	10.491	69	1677412	26.754
56) 1,4-Dioxane	(2)	10.538	88	1393376M	28.037
58) Bromodichloromethane	(2)	10.668	83	4261535	25.815
59) cis-1,3-Dichloropropene	(2)	11.617	75	2517923	25.016
60) 4-Methyl-2-Pentanone	(2)	12.080	43	2896060	27.726
61) Toluene	(3)	12.293	91	6954191	25.899
62) Octane	(3)	12.708	43	2692988	25.207
63) trans-1,3-Dichloropropene	(3)	12.874	75	2862154	27.528
64) 1,3-Dichloropropene (total)	(3)		75	5380077	52.544
65) Ethyl Methacrylate	(3)	13.230	69	2988076	27.263
66) 1,1,2-Trichloroethane	(3)	13.254	97	2393943	26.202
67) Tetrachloroethene	(3)	13.491	166	6015552	33.257
68) 2-Hexanone	(3)	14.012	43	2964776	31.617
69) Dibromochloromethane	(3)	14.107	127	3618972	25.426
70) 1,2-Dibromoethane	(3)	14.297	107	3704266	25.491
71) *Chlorobenzene-d5	(3)	15.447	117	2723944	10.000
72) Chlorobenzene	(3)	15.519	112	5947199	26.770
73) 1,1,1,2-Tetrachloroethane	(3)	15.768	131	3418000	26.403
74) Ethylbenzene	(3)	15.862	91	9555929	26.960
75) m/p-Xylene	(3)	16.183	91	7870654	25.155
76) o-Xylene	(3)	17.155	91	8040289	27.002

M = Compound was manually integrated.

* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00007.d
 Injection date and time: 01-OCT-2015 16:12

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 16:55

Sublist used: all

Date, time and analyst ID of latest file update: 01-Oct-2015 16:55 jeb07445

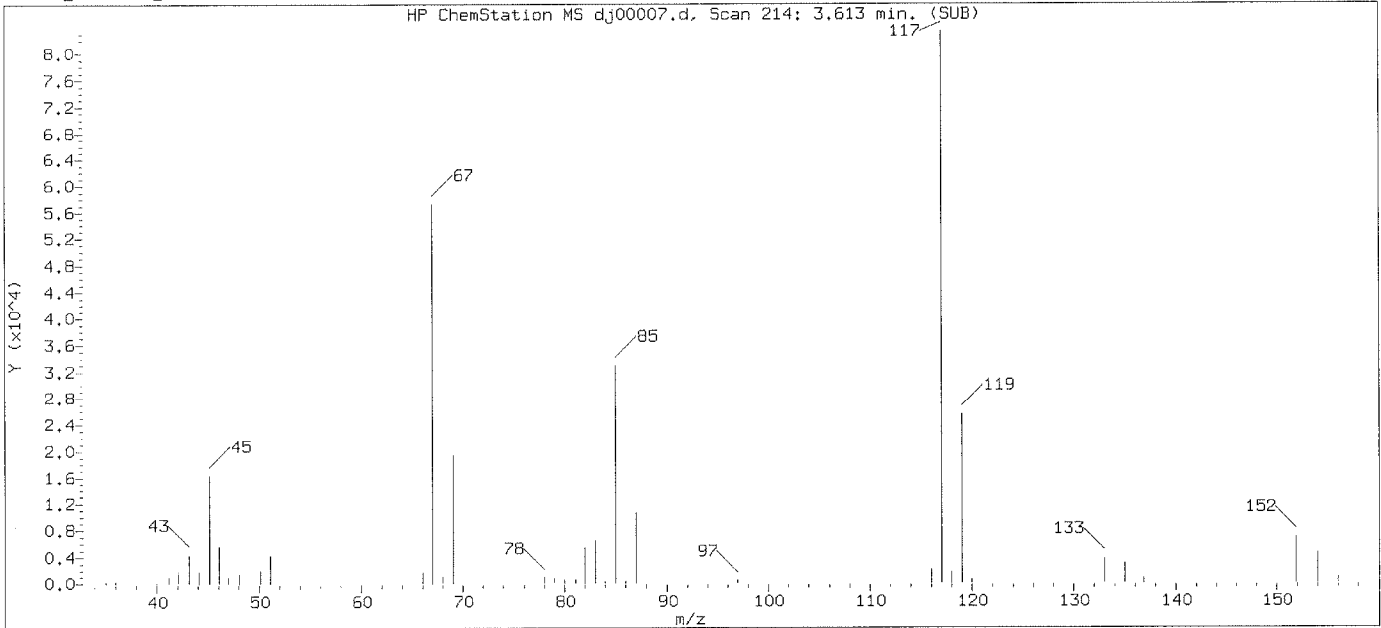
Sample Name: VSTD025

Lab Sample ID: VSTD025

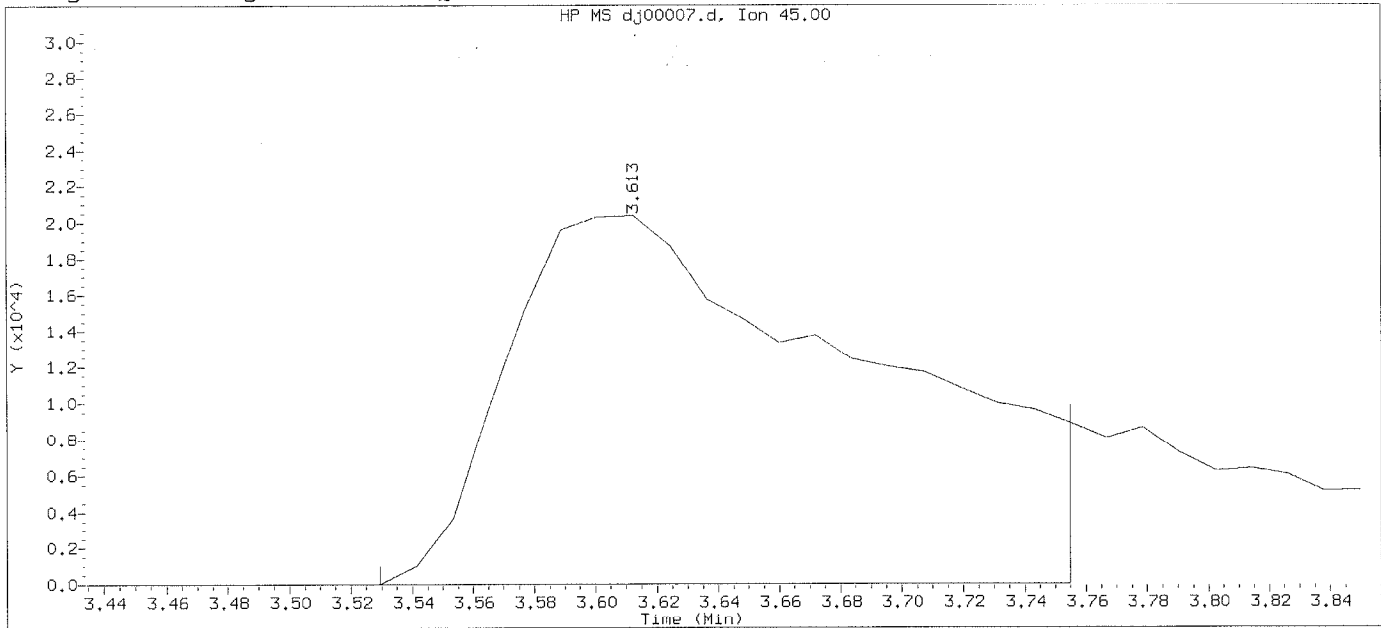
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.202	104	6174788	27.601
77) Xylene (total)	(3)		91	15910943	52.157
79) Bromoform	(3)	17.582	173	5235176	27.297
80) Cumene	(3)	18.151	105	11350767	26.264
81) Bromobenzene	(3)	18.780	156	3761563	27.786
82) 1,1,2,2-Tetrachloroethane	(3)	18.993	83	4705199	26.298
83) 1,2,3-Trichloropropane	(3)	19.029	110	1704568	25.879
84) n-Propylbenzene	(3)	19.242	120	3141349	26.270
85) 2-Chlorotoluene	(3)	19.361	126	2645992	26.950
86) 4-Ethyltoluene	(3)	19.562	105	11121076	26.523
87) 1,3,5-Trimethylbenzene	(3)	19.764	105	10018822	26.229
88) Alpha Methyl Styrene	(3)	20.345	118	4539775	27.442
89) tert-Butylbenzene	(3)	20.582	119	9598431	25.253
90) 1,2,4-Trimethylbenzene	(3)	20.724	105	9695548	26.490
91) sec-Butylbenzene	(3)	21.211	105	12889402	25.475
92) 1,3-Dichlorobenzene	(3)	21.388	146	6311860	28.374
93) 1,4-Dichlorobenzene	(3)	21.685	146	6053487	27.854
94) p-Isopropyltoluene	(3)	21.721	119	11541952	26.196
95) Benzyl Chloride	(3)	22.183	91	6558088	26.783
96) 1,2-Dichlorobenzene	(3)	22.847	146	5713435	26.923
97) n-Butylbenzene	(3)	23.037	91	9129004	26.895
98) Hexachloroethane	(3)	23.499	117	2037575	17.260
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	3703628	29.856
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	4036121	25.693
101) Hexachlorobutadiene	(3)	26.179	225	5022013	20.069
102) Naphthalene	(3)	26.215	128	6608976	25.347

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00007.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 16:12

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 16:20

Date, time and analyst ID of latest file update: 01-Oct-2015 16:53 Automation

Sample Name: VSTD025

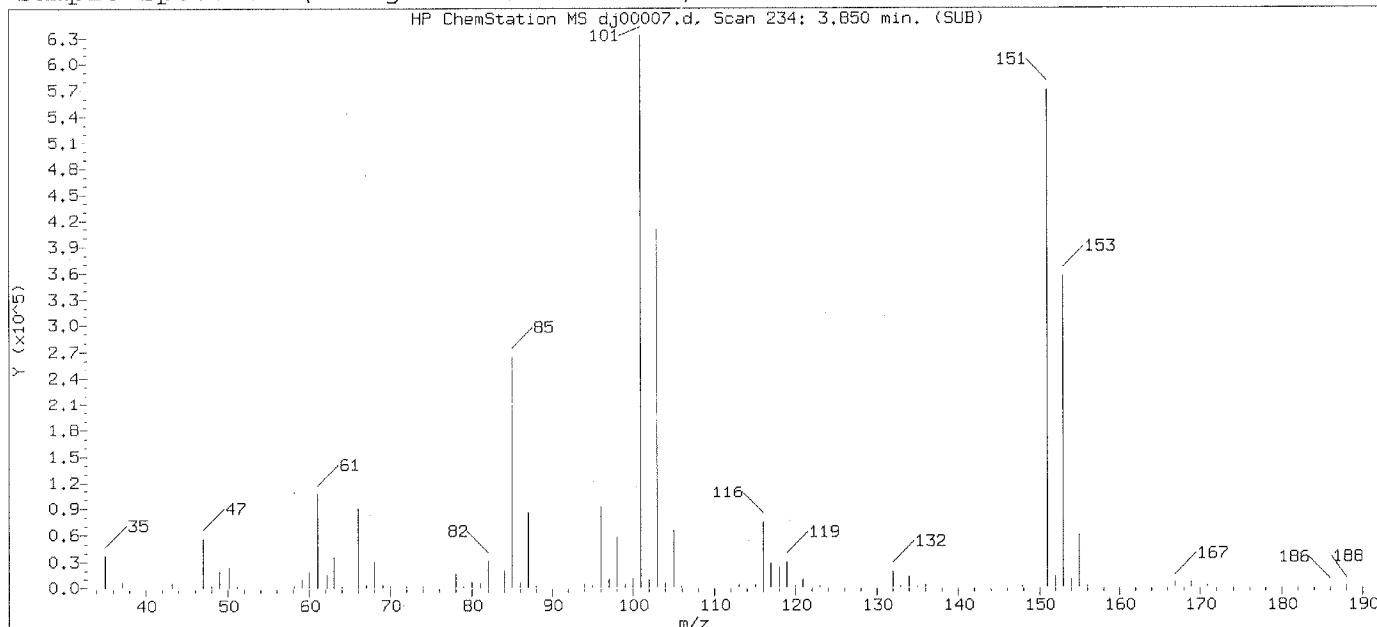
Lab Sample ID: VSTD025

Compound Number : 14
 Compound Name : Ethanol
 Scan Number : 214
 Retention Time (minutes): 3.613
 Quant Ion : 45.00
 Area : 168579
 Concentration (ppb(v)) : 8.0323
 Integration start scan : 206
 Y at integration start : 0

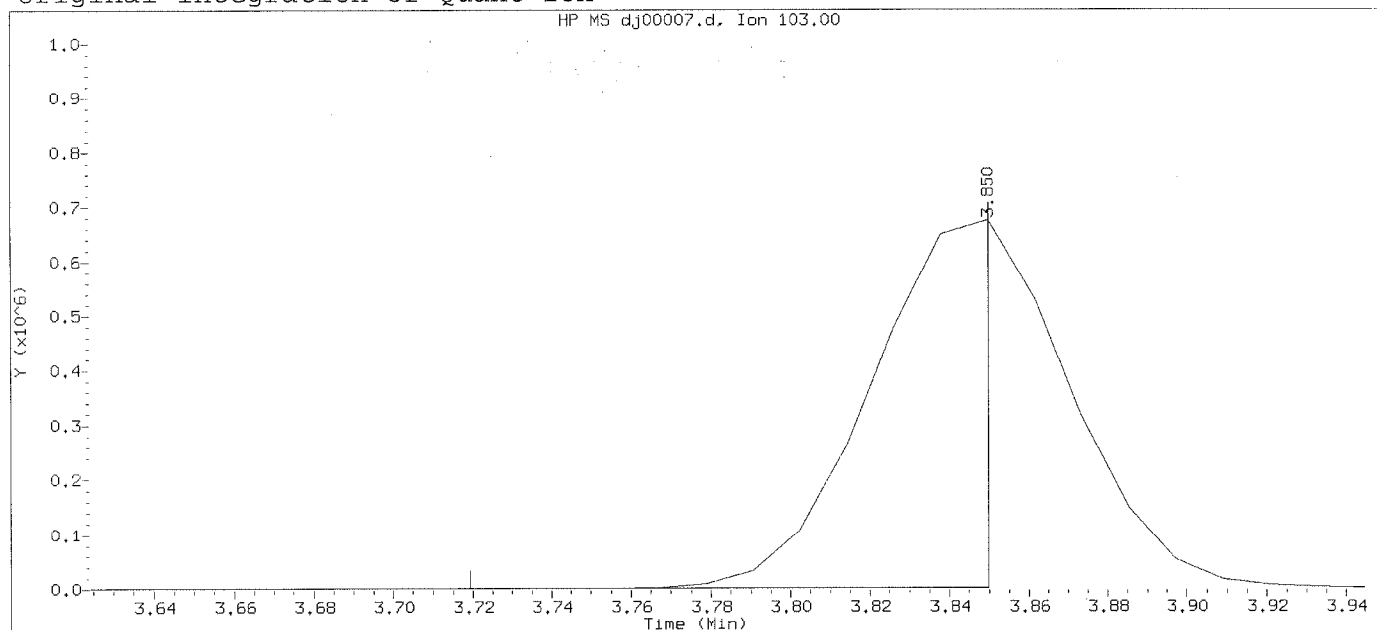
Integration stop scan: 225
 Y at integration end: 0

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 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



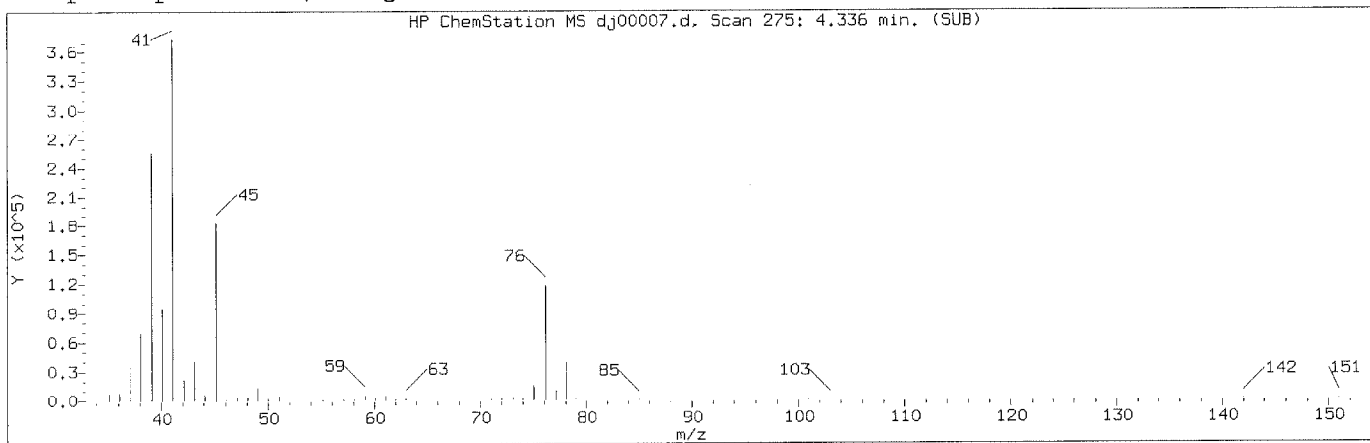
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 Injection date and time: 01-OCT-2015 16:12 Analyst ID: jbs01304
 Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 16:20
 Date, time and analyst ID of latest file update: 01-Oct-2015 16:53 Automation

Sample Name: VSTD025 Lab Sample ID: VSTD025

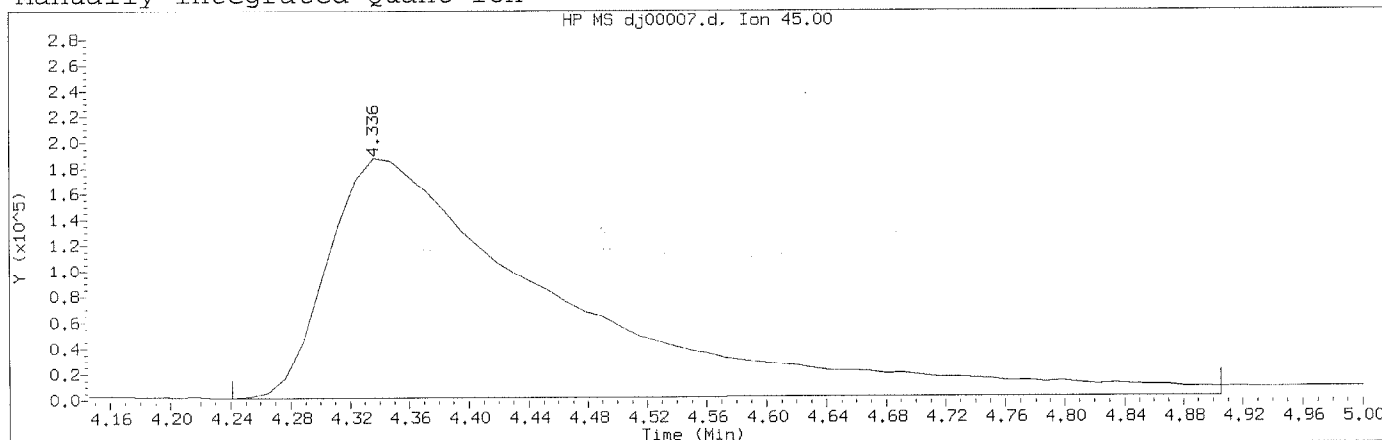
Compound Number : 18
 Compound Name : Freon 113
 Scan Number : 234
 Retention Time (minutes): 3.850
 Quant Ion : 103.00
 Area : 1330301
 Concentration (ppb(v)) : 12.5848
 Integration start scan : 222 Integration stop scan: 233
 Y at integration start : 725 Y at integration end: 725

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 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00007.d
Injection date and time: 01-OCT-2015 16:12

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:55
Date, time and analyst ID of latest file update: 01-Oct-2015 16:55 jeb07445

Sublist used: all

Sample Name: VSTD025

Lab Sample ID: VSTD025

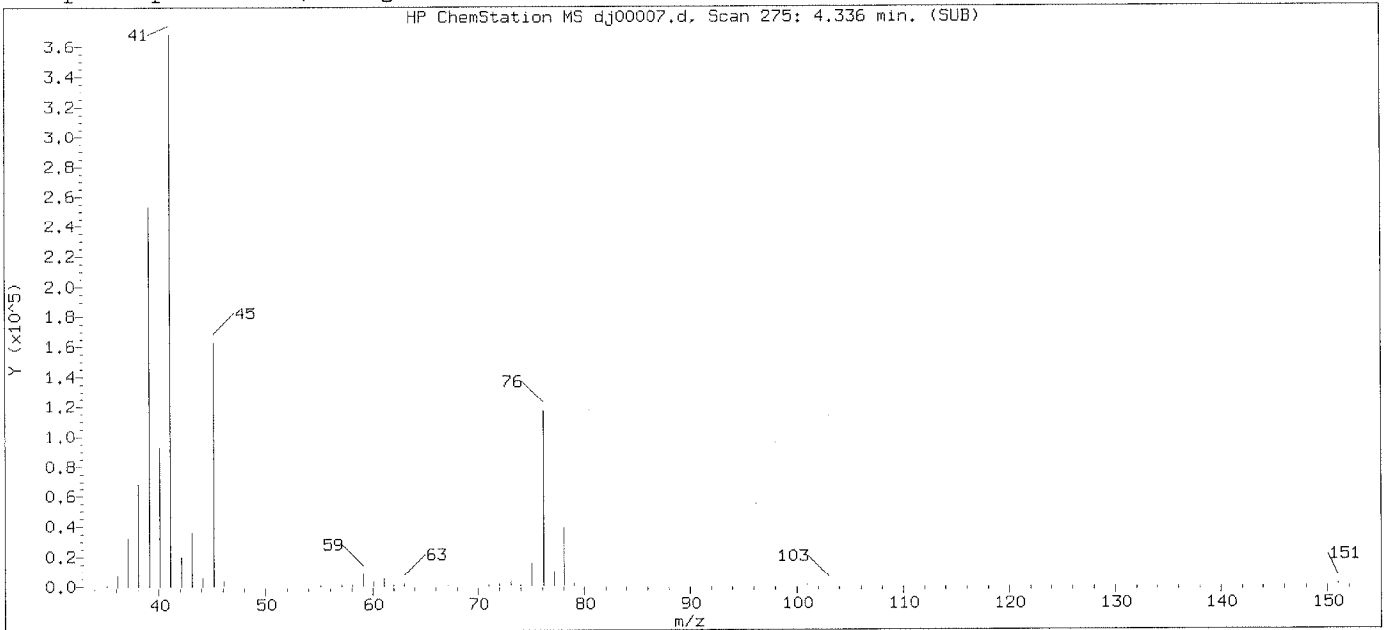
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 275
Retention Time (minutes): 4.336
Quant Ion : 45.00
Area (flag) : 2016071M
Concentration (ppb(v)) : 24.8262
Integration start scan : 266 Integration stop scan: 322
Y at integration start : 1291 Y at integration end: 1610

Reason for manual integration: improper integration

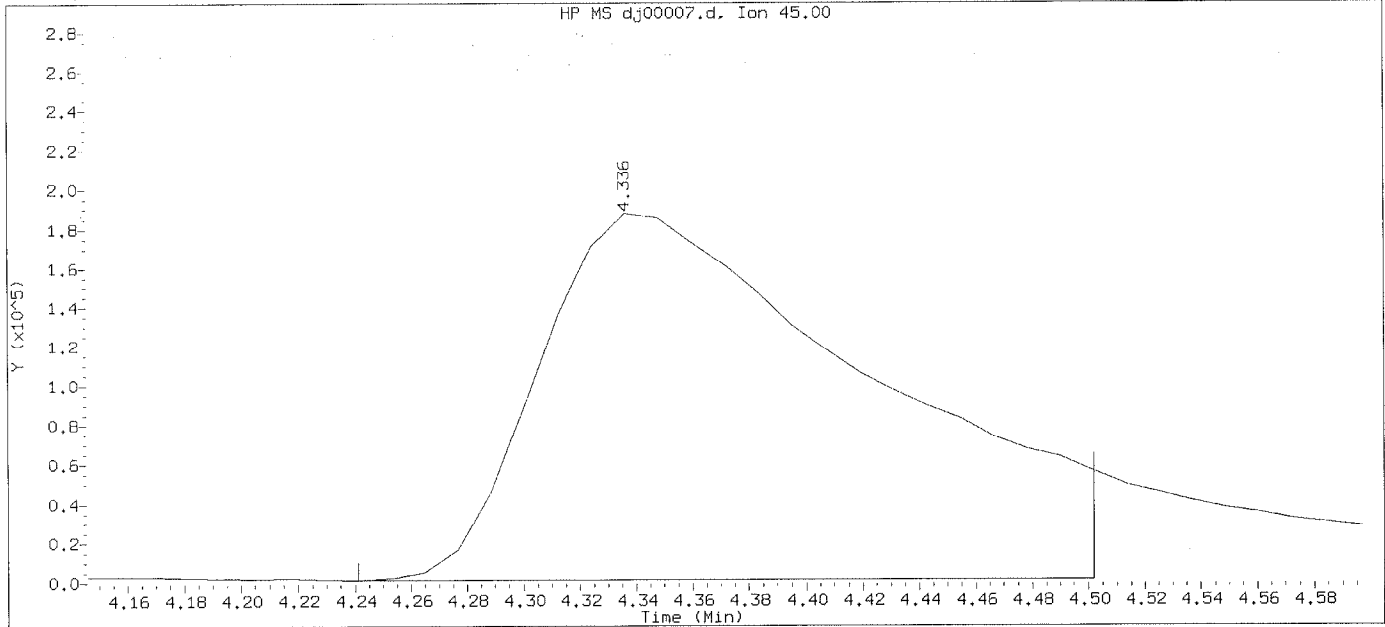
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omuy 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00007.d
Injection date and time: 01-OCT-2015 16:12

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:20
Date, time and analyst ID of latest file update: 01-Oct-2015 16:53 Automation

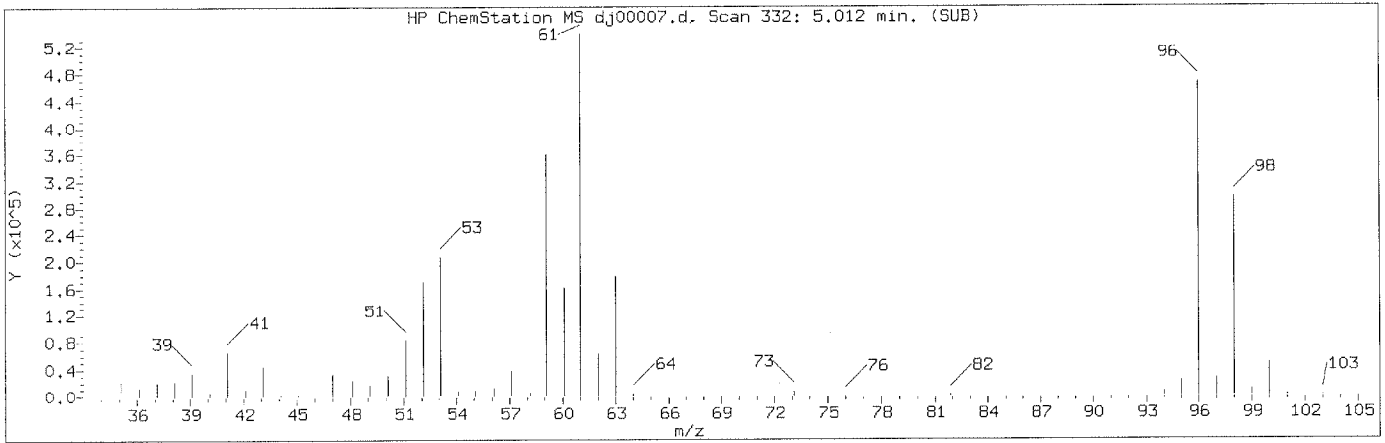
Sample Name: VSTD025

Lab Sample ID: VSTD025

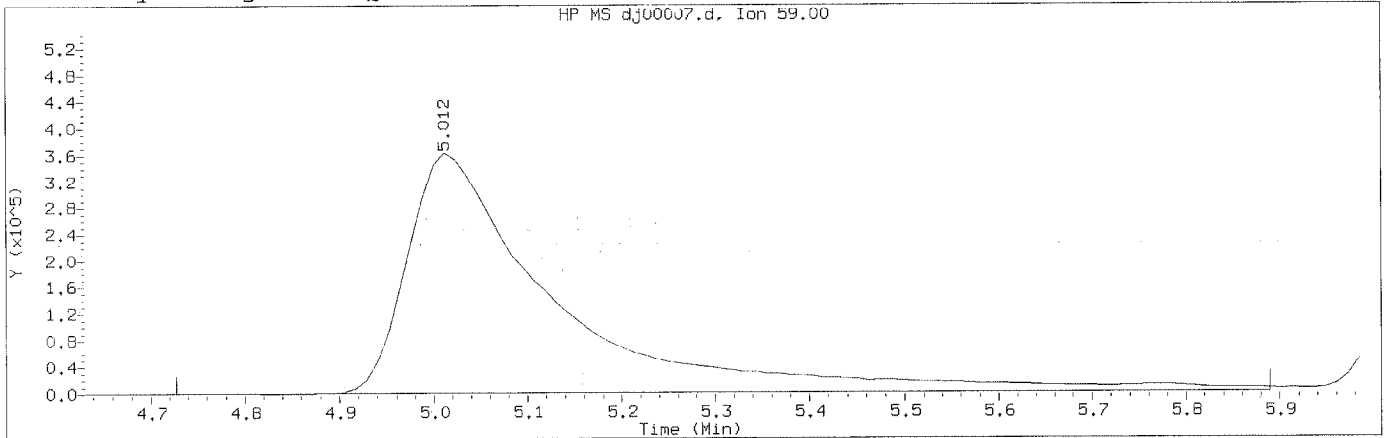
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 275
Retention Time (minutes): 4.336
Quant Ion : 45.00
Area : 1531158
Concentration (ppb(v)) : 19.0185
Integration start scan : 266 Integration stop scan: 288
Y at integration start : 1291 Y at integration end: 1291

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Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00007.d
Injection date and time: 01-OCT-2015 16:12

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:55
Date, time and analyst ID of latest file update: 01-Oct-2015 16:55 jeb07445

Sublist used: all

Sample Name: VSTD025

Lab Sample ID: VSTD025

Compound Number : 26
Compound Name : tert-Butyl Alcohol
Scan Number : 332
Retention Time (minutes): 5.012
Quant Ion : 59.00
Area (flag) : 3958617M
Concentration (ppb(v)) : 30.9128
Integration start scan : 307 Integration stop scan: 405
Y at integration start : 928 Y at integration end: 1167

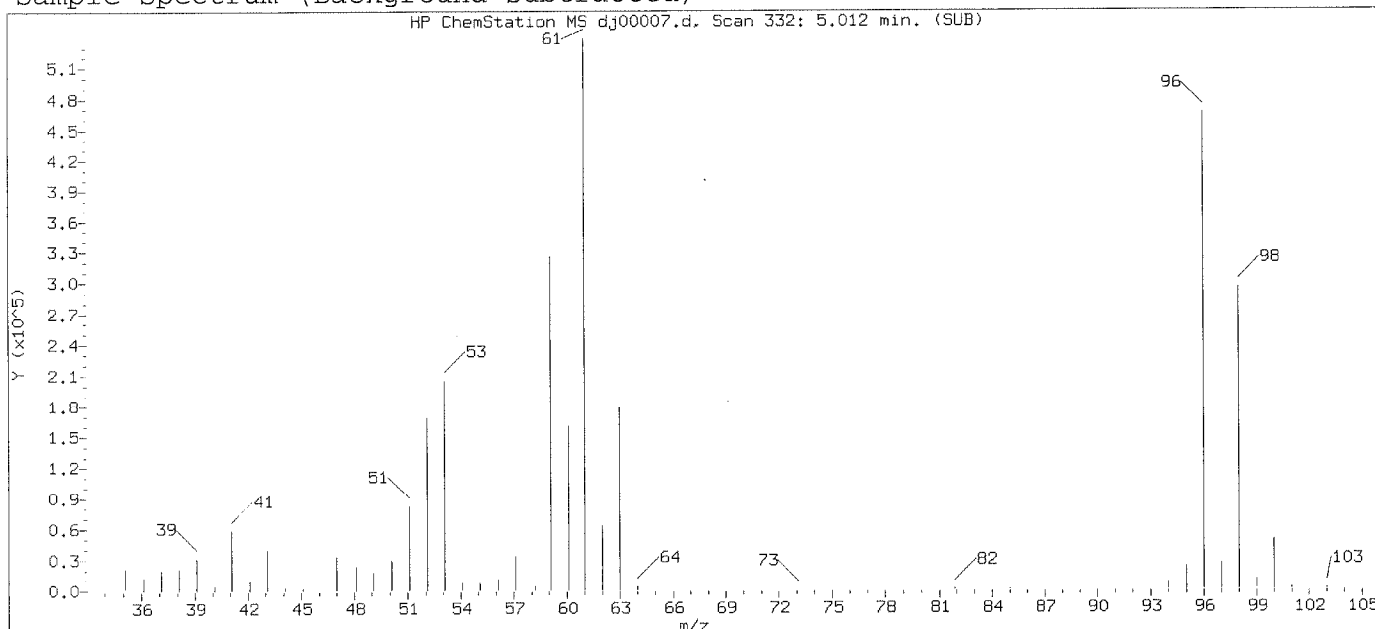
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

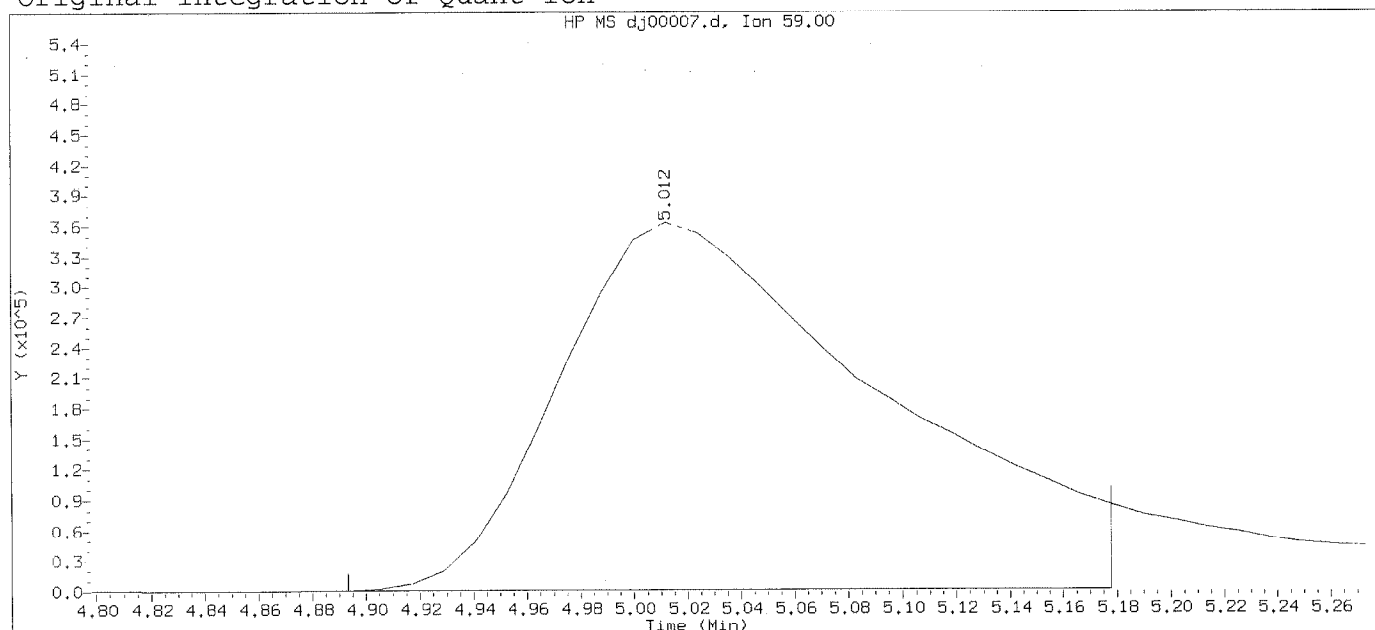
GC/MS audit/management approval: _____

Handwritten signature: OMU 4/12 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



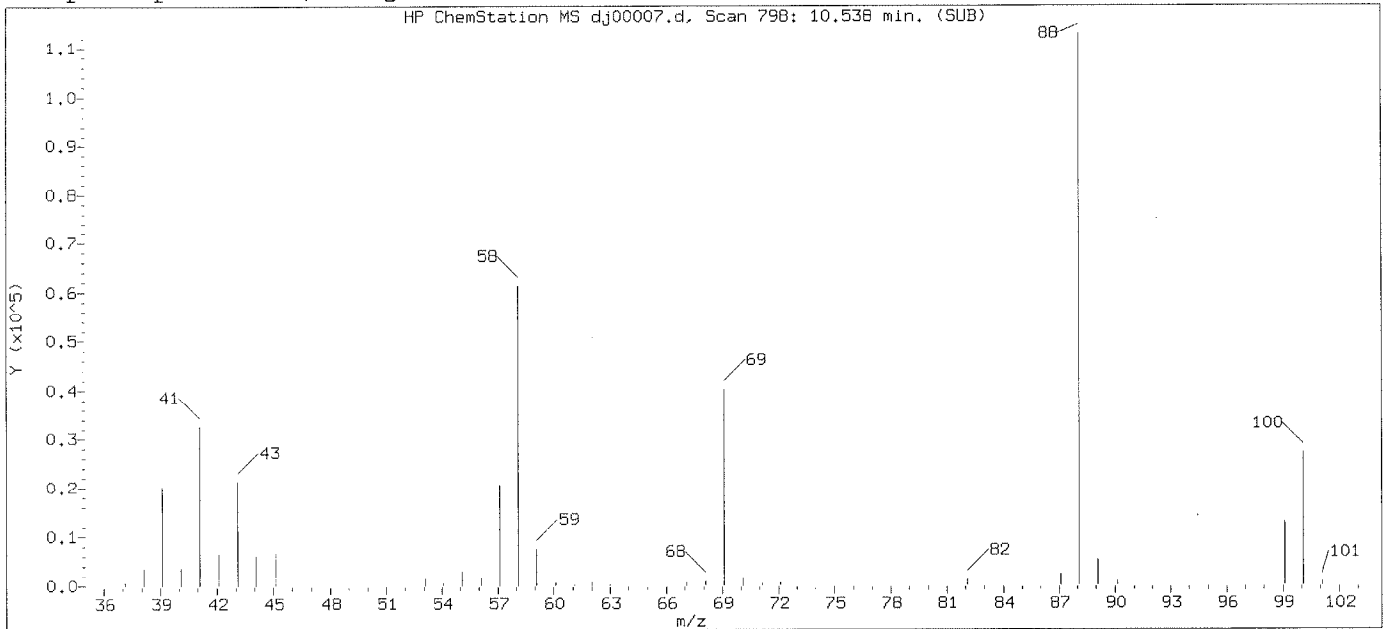
Data File: /chem/HP10145.i/15oct01.b/dj00007.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 16:12 Analyst ID: jbs01304
 Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 16:20
 Date, time and analyst ID of latest file update: 01-Oct-2015 16:53 Automation

Sample Name: VSTD025 Lab Sample ID: VSTD025

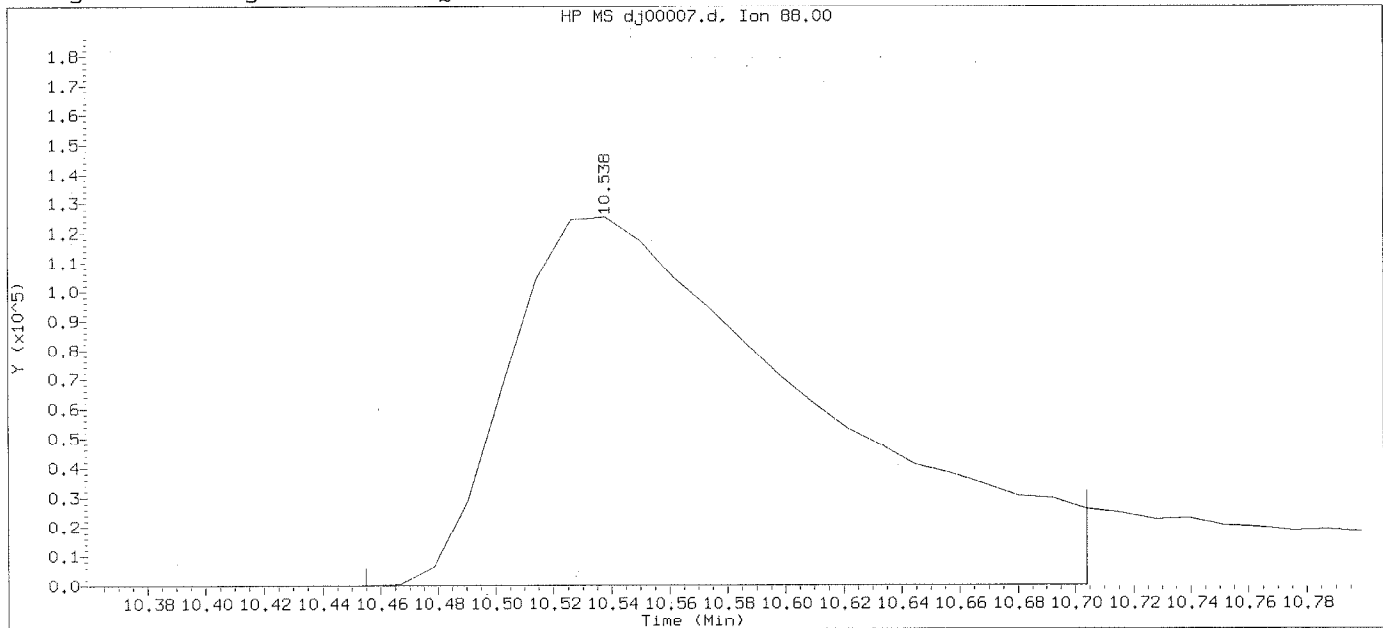
Compound Number : 26
 Compound Name : tert-Butyl Alcohol
 Scan Number : 332
 Retention Time (minutes): 5.012
 Quant Ion : 59.00
 Area : 3035712
 Concentration (ppb(v)) : 24.4649
 Integration start scan : 321 Integration stop scan: 345
 Y at integration start : 811 Y at integration end: 811

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 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00007.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 16:12

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 16:20

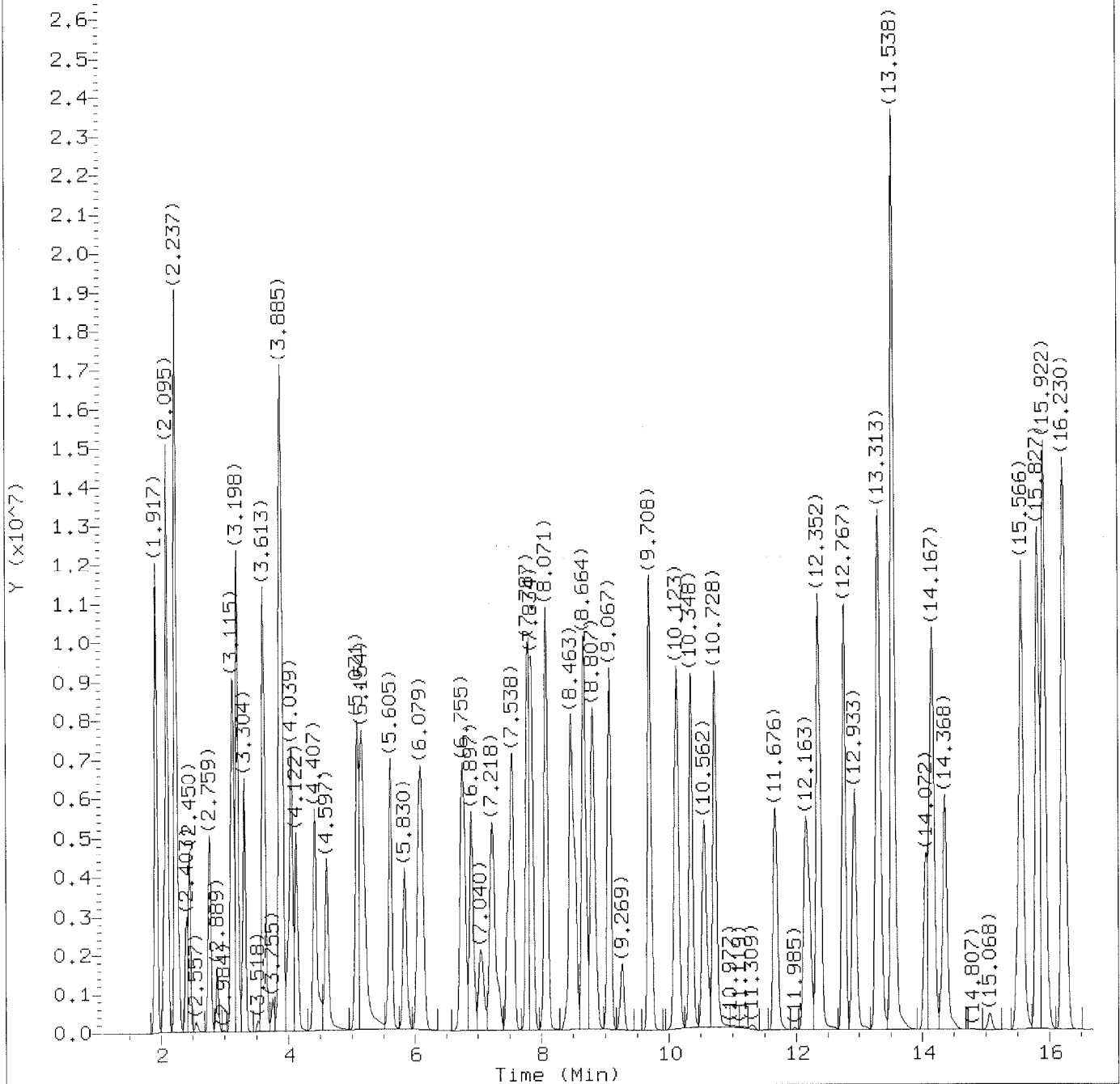
Date, time and analyst ID of latest file update: 01-Oct-2015 16:53 Automation

Sample Name: VSTD025

Lab Sample ID: VSTD025

Compound Number : 56
 Compound Name : 1,4-Dioxane
 Scan Number : 798
 Retention Time (minutes): 10.538
 Quant Ion : 88.00
 Area : 909954
 Concentration (ppb(v)) : 18.7256
 Integration start scan : 790 Integration stop scan: 811
 Y at integration start : 0 Y at integration end: 0

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 Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00008.d
Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
Analyst ID: jbs01304

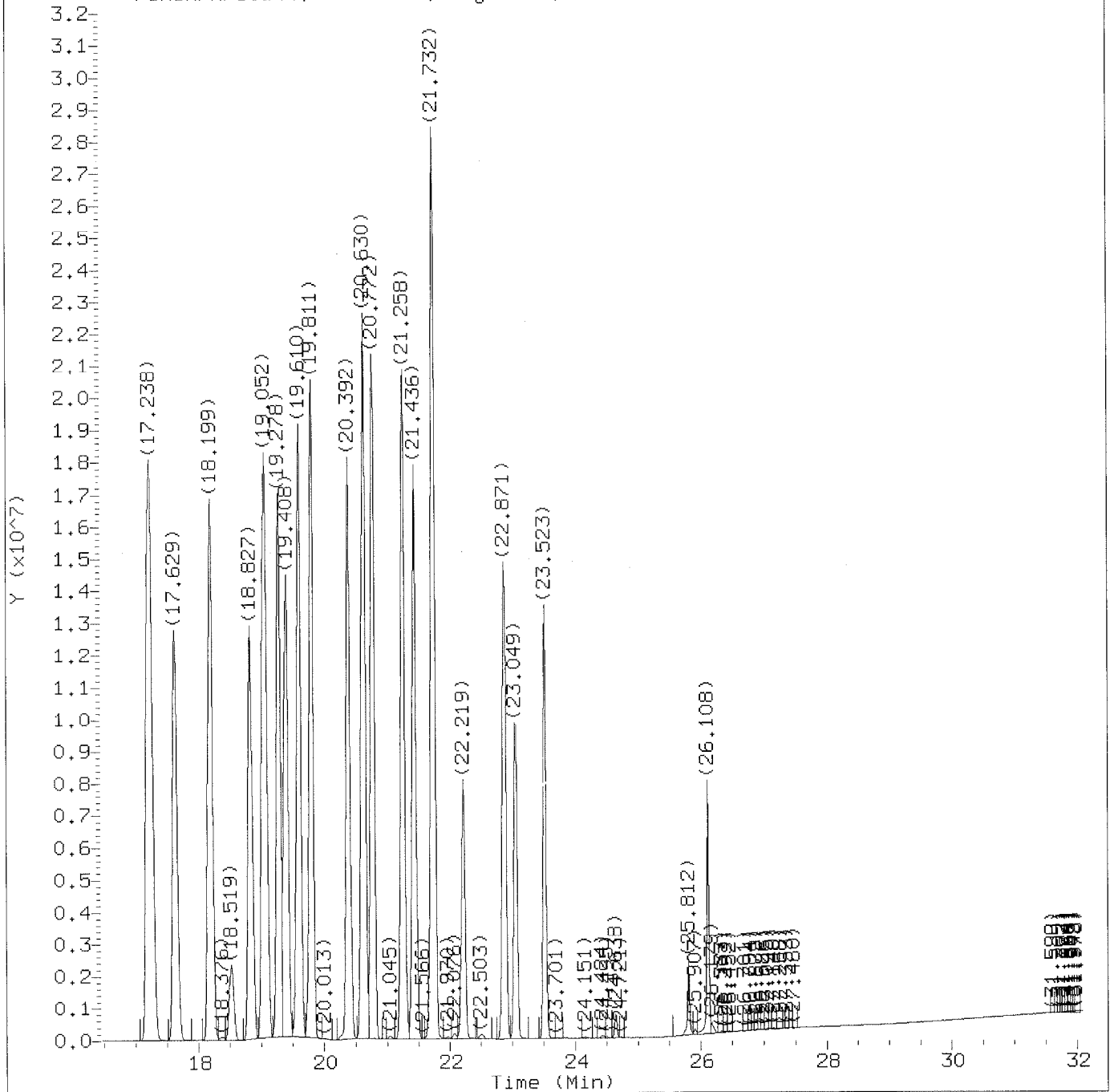
Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 17:52
Date, time and analyst ID of latest file update: 01-Oct-2015 17:52 jeb07445

Sublist used: all

Sample Name: VSTD070

Lab Sample ID: VSTD070

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00008.d
Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 17:52
Date, time and analyst ID of latest file update: 01-Oct-2015 17:52 jeb07445

Sublist used: all

Sample Name: VSTD070

Lab Sample ID: VSTD070

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00008.d
 Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 17:52

Sublist used: all

Date, time and analyst ID of latest file update: 01-Oct-2015 17:52 jeb07445

Sample Name: VSTD070

Lab Sample ID: VSTD070

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	2482587	70.761
2) Dichlorodifluoromethane	(1)	2.095	85	15607075	62.345
3) Chlorodifluoromethane	(1)	2.107	51	6302391	72.078
4) Freon 114	(1)	2.225	85	12572052	62.297
5) Chloromethane	(1)	2.273	52	1156875	73.032
6) Vinyl Chloride	(1)	2.403	62	4194528	68.136
7) 1,3-Butadiene	(1)	2.450	54	2934531	72.270
8) Bromomethane	(1)	2.759	94	5115793	65.420
9) Chloroethane	(1)	2.889	64	2239688	64.960
10) Bromoethene	(1)	3.103	106	5470149	71.368
11) Dichlorofluoromethane	(1)	3.126	67	9728604	66.237
12) Trichlorofluoromethane	(1)	3.198	101	16684323	64.142
13) Pentane	(1)	3.304	43	5763379	71.252
15) Freon123a	(1)	3.613	67	8886274	69.890
14) Ethanol	(1)	3.719	45	796536M	35.154
16) Acrolein	(1)	3.755	56	1107861	64.958
17) 1,1-Dichloroethene	(1)	3.862	61	6771287	64.231
18) Freon 113	(1)	3.897	103	7185107	62.343
19) Acetone	(1)	3.992	43	5838558	75.636
20) Methyl Iodide	(1)	4.051	142	13101148	72.350
21) Carbon Disulfide	(1)	4.122	76	12548958	64.866
24) 3-Chloropropene	(1)	4.407	76	2270919	71.823
23) Acetonitrile	(1)	4.407	40	1857961	95.441
22) Isopropanol	(1)	4.502	45	5669444M	62.687
25) Methylene Chloride	(1)	4.597	84	4315029	76.676
28) trans-1,2-Dichloroethene	(1)	5.071	61	6254909	70.901
27) Acrylonitrile	(1)	5.083	53	3019381	105.426
29) Methyl t-Butyl Ether	(1)	5.154	73	15388138	73.399
26) tert-Butyl Alcohol	(1)	5.190	59	11339511M	78.210
30) Hexane	(1)	5.605	57	6434989	68.651
31) 1,1-Dichloroethane	(1)	5.830	63	8305019	68.567
32) Vinyl Acetate	(1)	6.044	86	1074673	60.381
33) Di-Isopropyl Ether	(1)	6.091	45	12042146	72.805
36) 1,2-Dichloroethene (total)	(1)		61	12614822	143.702
34) Ethyl Tert-Butyl Ether	(1)	6.755	59	15945947	70.707
35) cis-1,2-Dichloroethene	(1)	6.897	61	6359913	72.801
37) 2-Butanone	(1)	7.052	72	2458326	76.367
38) Ethyl Acetate	(1)	7.218	70	1675601	79.622

M = Compound was manually integrated.

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 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00008.d
 Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 17:52

Sublist used: all

Date, time and analyst ID of latest file update: 01-Oct-2015 17:52 jeb07445

Sample Name: VSTD070

Lab Sample ID: VSTD070

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.229	55	7279475	79.826
40) *Bromochloromethane	(1)	7.324	130	872328	10.000
41) Tetrahydrofuran	(1)	7.467	42	3817889M	76.104
42) Chloroform	(1)	7.538	83	12052557	68.121
43) 1,1,1-Trichloroethane	(1)	7.787	97	14760665	67.535
44) Cyclohexane	(1)	7.846	56	6806360	68.980
45) Carbon Tetrachloride	(1)	8.071	117	15220807	66.595
46) Benzene	(2)	8.463	78	16072853	73.528
47) 1,2-Dichloroethane	(2)	8.522	62	7925111	74.617
48) Isooctane	(2)	8.664	57	21193662	73.110
49) Tert-Amyl Methyl Ether	(2)	8.807	73	17506049	78.375
50) Heptane	(2)	9.067	43	6724404	77.380
51) *1,4-Difluorobenzene	(2)	9.269	114	3244055	10.000
52) Trichloroethene	(2)	9.708	130	9058085	77.004
53) Ethyl Acrylate	(2)	10.123	55	9958435	86.216
54) 1,2-Dichloropropane	(2)	10.135	63	4680968	73.018
55) Dibromomethane	(2)	10.360	174	9574613	80.251
57) Methyl Methacrylate	(2)	10.562	69	5406968	77.417
56) 1,4-Dioxane	(2)	10.597	88	3765503M	69.782
58) Bromodichloromethane	(2)	10.728	83	13586327	74.760
59) cis-1,3-Dichloropropene	(2)	11.676	75	8250363	73.443
60) 4-Methyl-2-Pentanone	(2)	12.163	43	9224279	79.076
61) Toluene	(3)	12.352	91	22798528	76.506
62) Octane	(3)	12.755	43	8976573	75.471
63) trans-1,3-Dichloropropene	(3)	12.933	75	9570855	81.027
64) 1,3-Dichloropropene (total)	(3)		75	17821218	154.470
65) Ethyl Methacrylate	(3)	13.301	69	8984207	73.695
66) 1,1,2-Trichloroethane	(3)	13.313	97	7618038	75.363
67) Tetrachloroethene	(3)	13.550	166	19691314	93.741
68) 2-Hexanone	(3)	14.060	43	9119270	85.947
69) Dibromochloromethane	(3)	14.167	127	11960851	74.814
70) 1,2-Dibromoethane	(3)	14.368	107	12248493	75.273
71) *Chlorobenzene-d5	(3)	15.495	117	3004226	10.000
72) Chlorobenzene	(3)	15.566	112	19700707	79.300
73) 1,1,1,2-Tetrachloroethane	(3)	15.827	131	11237563	77.920
74) Ethylbenzene	(3)	15.922	91	30812647	78.011
75) m/p-Xylene	(3)	16.230	91	25566185	73.112
76) o-Xylene	(3)	17.202	91	25865246M	78.090

M = Compound was manually integrated.

* = Compound is an internal standard.

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 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00008.d
 Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 17:52

Sublist used: all

Date, time and analyst ID of latest file update: 01-Oct-2015 17:52 jeb07445

Sample Name: VSTD070

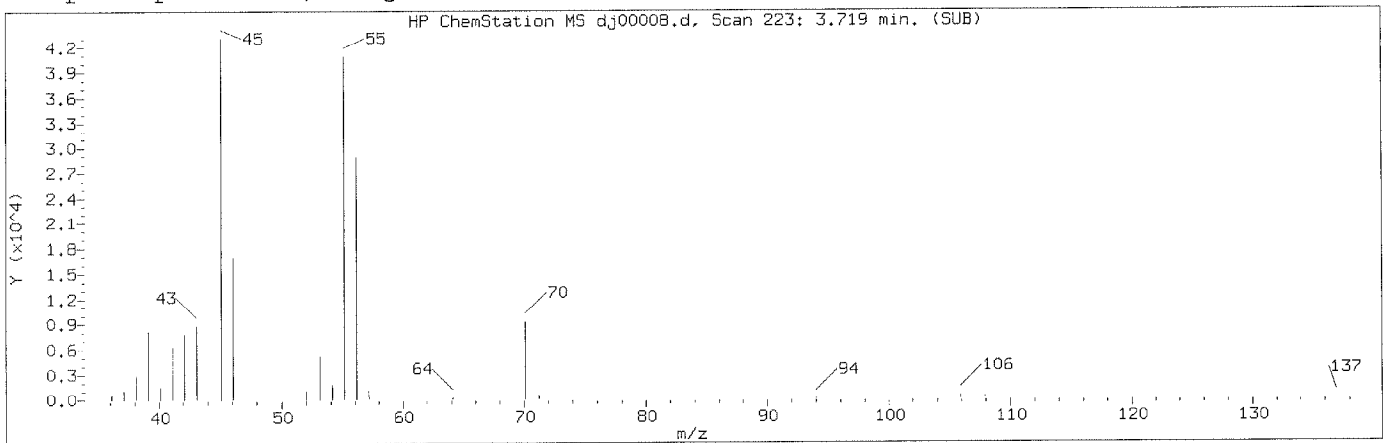
Lab Sample ID: VSTD070

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.250	104	19933237	79.337
77) Xylene (total)	(3)		91	51431431	151.203
79) Bromoform	(3)	17.629	173	17457994	80.144
80) Cumene	(3)	18.199	105	37227842	77.166
81) Bromobenzene	(3)	18.827	156	12831777	83.734
82) 1,1,2,2-Tetrachloroethane	(3)	19.040	83	15100482	76.248
83) 1,2,3-Trichloropropane	(3)	19.076	110	5593324	76.002
84) n-Propylbenzene	(3)	19.290	120	10597225	78.421
85) 2-Chlorotoluene	(3)	19.408	126	8960772	80.763
86) 4-Ethyltoluene	(3)	19.610	105	37694705	79.486
87) 1,3,5-Trimethylbenzene	(3)	19.811	105	34078553	79.282
88) Alpha Methyl Styrene	(3)	20.392	118	15834885	86.788
89) tert-Butylbenzene	(3)	20.630	119	32114216	75.689
90) 1,2,4-Trimethylbenzene	(3)	20.772	105	31556983	76.959
91) sec-Butylbenzene	(3)	21.258	105	40309640	72.236
92) 1,3-Dichlorobenzene	(3)	21.436	146	22050985	89.880
93) 1,4-Dichlorobenzene	(3)	21.721	146	19617679	81.846
94) p-Isopropyltoluene	(3)	21.756	119	27438060	56.464
95) Benzyl Chloride	(3)	22.219	91	15617702	57.832
96) 1,2-Dichlorobenzene	(3)	22.871	146	16250968	69.434
97) n-Butylbenzene	(3)	23.049	91	12199329	32.587
98) Hexachloroethane	(3)	23.523	117	4981064	38.257
99) 1,2-Dibromo-3-chloropropane	(3)	24.650	157	370348	2.707
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	72207	0.417
101) Hexachlorobutadiene	(3)	26.179	225	78154	0.283
102) Naphthalene	(3)	26.203	128	175925	0.612

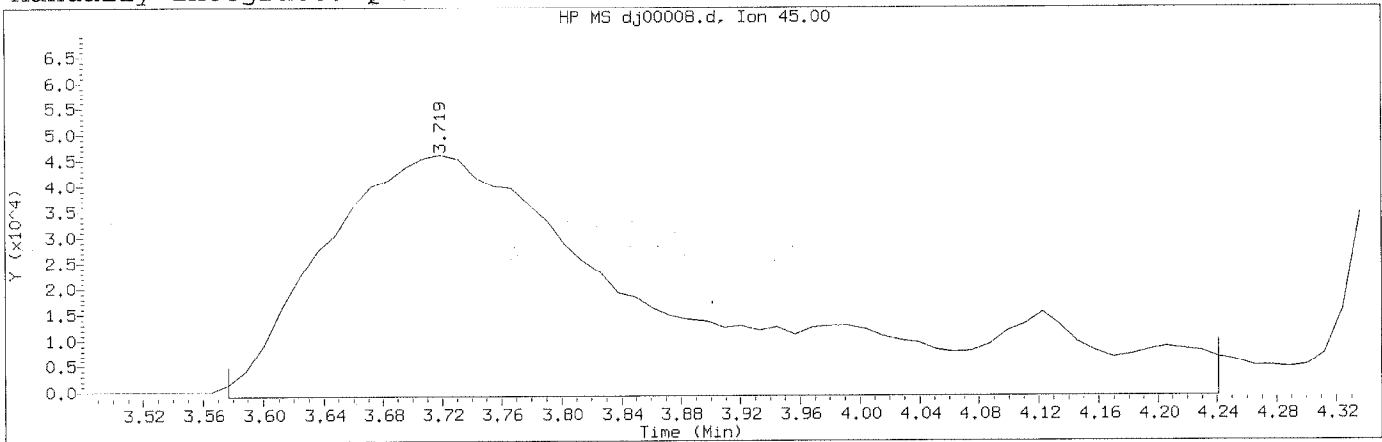
page 3 of 3

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 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d
 Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 17:52
 Date, time and analyst ID of latest file update: 01-Oct-2015 17:52 jeb07445

Sample Name: VSTD070

Lab Sample ID: VSTD070

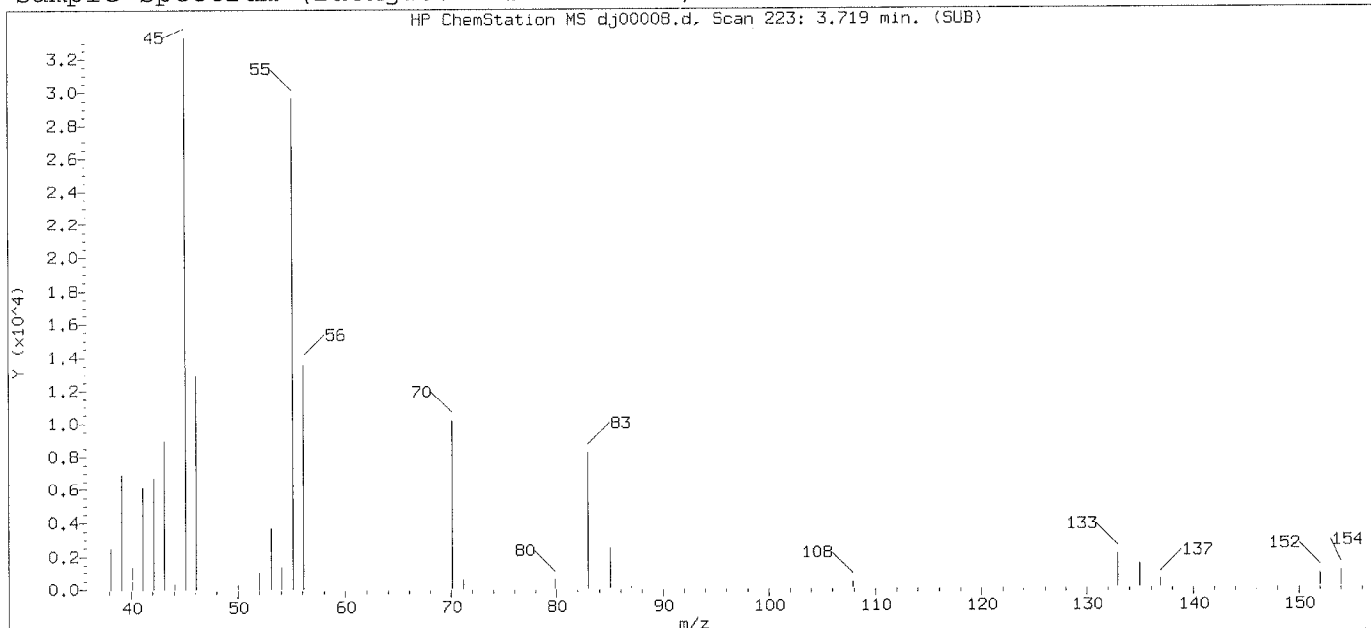
Compound Number : 14
 Compound Name : Ethanol
 Scan Number : 223
 Retention Time (minutes): 3.719
 Quant Ion : 45.00
 Area (flag) : 796536M
 Concentration (ppb(v)) : 35.1544
 Integration start scan : 210 Integration stop scan: 266
 Y at integration start : -930 Y at integration end: -930

Reason for manual integration: improper integration

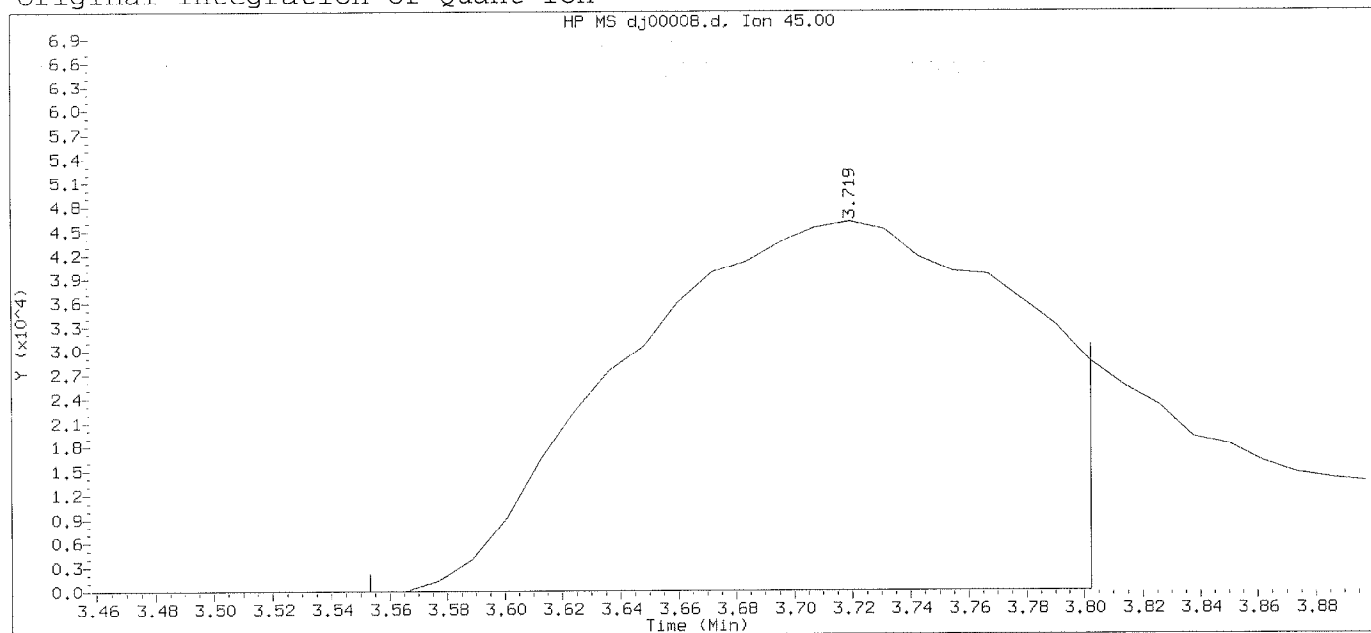
Digitally signed by Jeffrey B. Smith
 Analyst responsible for change: on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: OMM 4/2 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d
 Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 16:56
 Date, time and analyst ID of latest file update: 01-Oct-2015 17:49 Automation

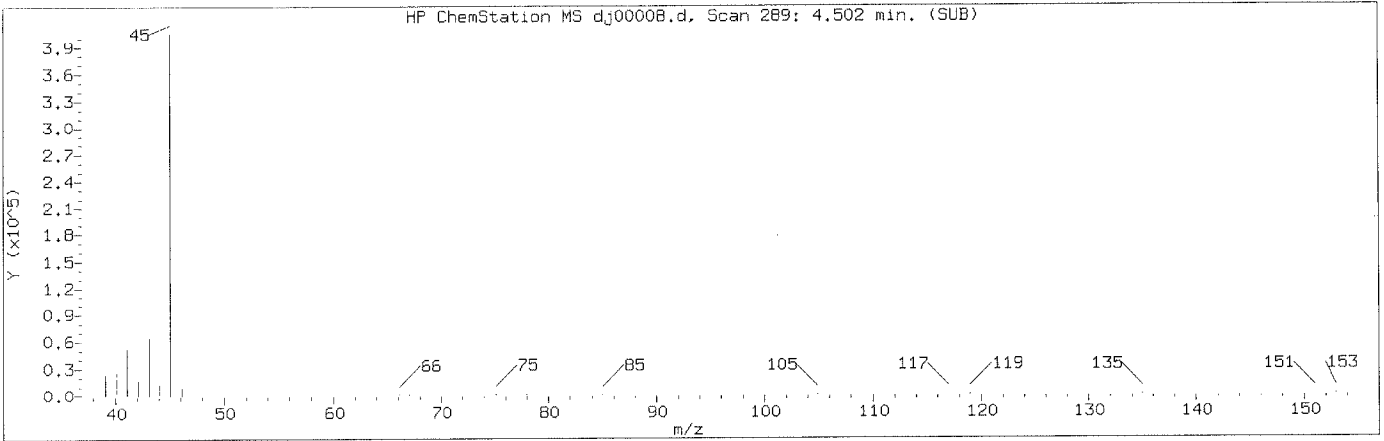
Sample Name: VSTD070

Lab Sample ID: VSTD070

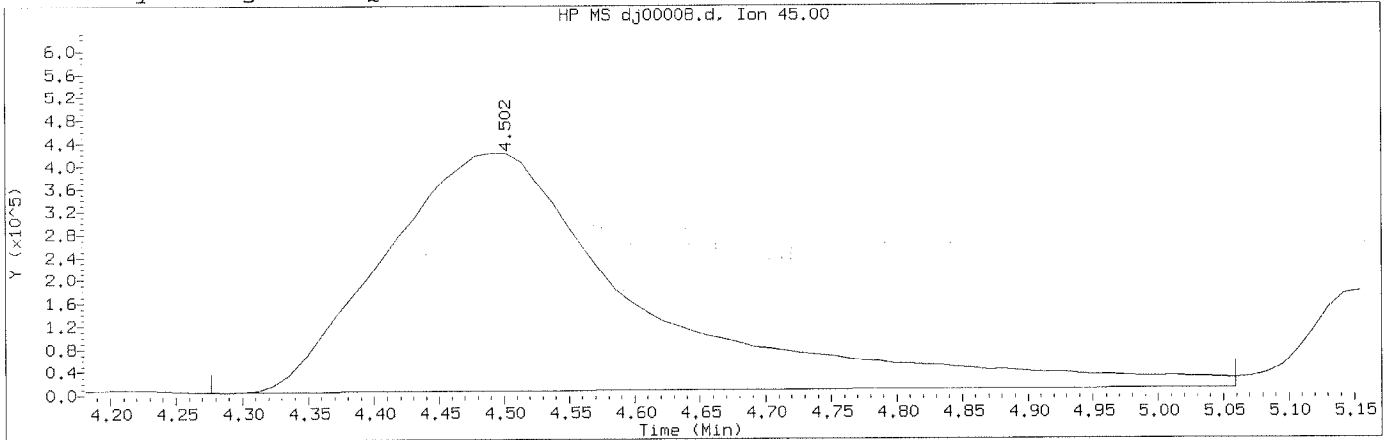
Compound Number : 14
 Compound Name : Ethanol
 Scan Number : 223
 Retention Time (minutes): 3.719
 Quant Ion : 45.00
 Area : 436143
 Concentration (ppb(v)) : 18.6243
 Integration start scan : 208
 Y at integration start : 0
 Integration stop scan: 229
 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 17:08 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 17:52
 Date, time and analyst ID of latest file update: 01-Oct-2015 17:52 jeb07445

Sample Name: VSTD070 Lab Sample ID: VSTD070

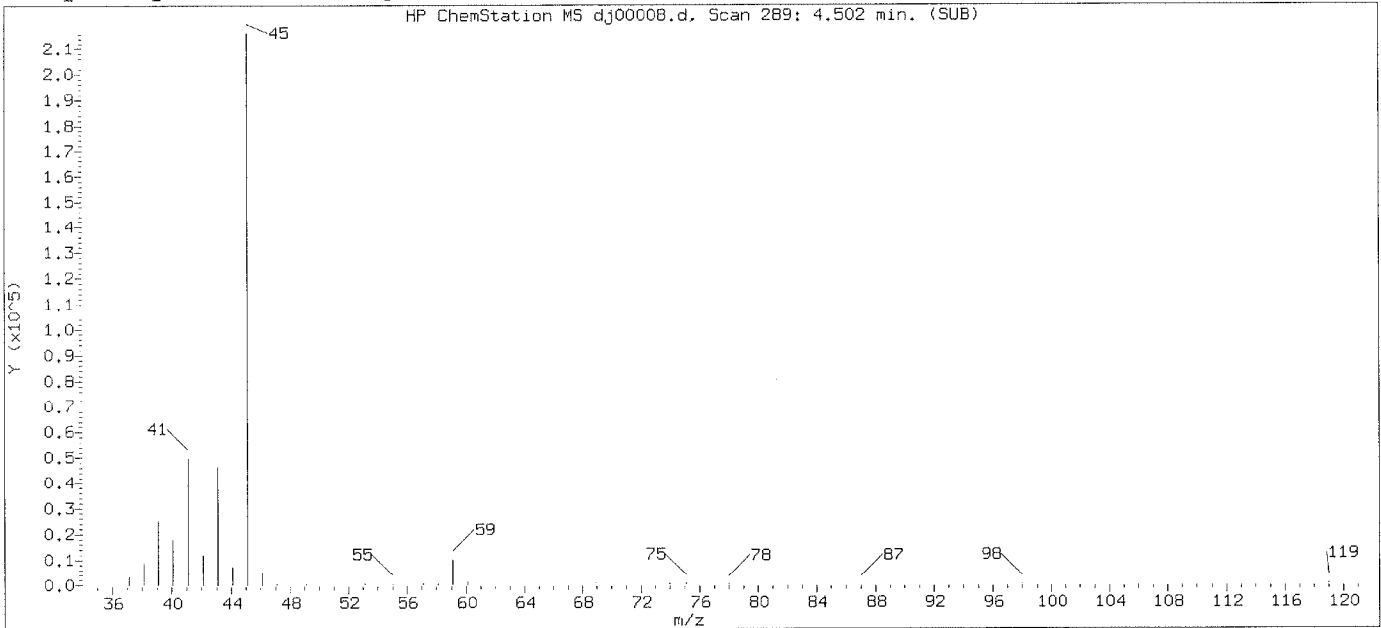
Compound Number : 22
 Compound Name : Isopropanol
 Scan Number : 289
 Retention Time (minutes): 4.502
 Quant Ion : 45.00
 Area (flag) : 5669444M
 Concentration (ppb(v)) : 62.6868
 Integration start scan : 269 Integration stop scan: 335
 Y at integration start : 4789 Y at integration end: 9023

Reason for manual integration: improper integration

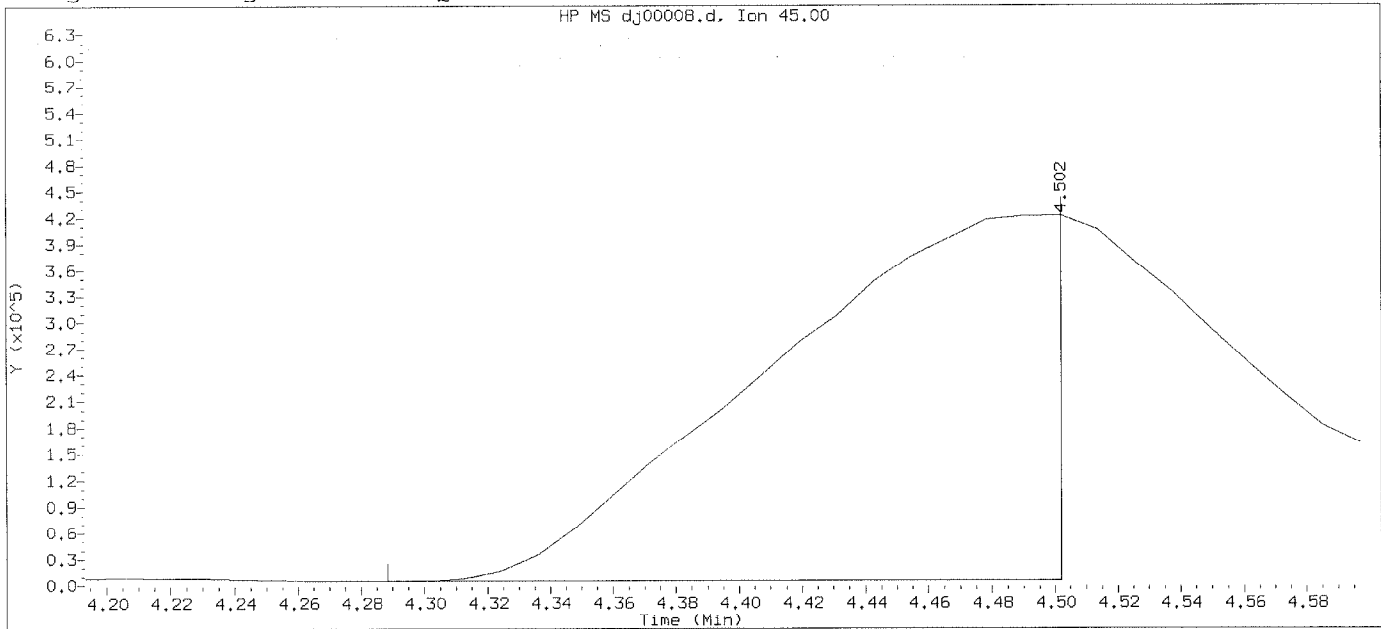
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: OMM/4x2 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d
Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:56
Date, time and analyst ID of latest file update: 01-Oct-2015 17:49 Automation

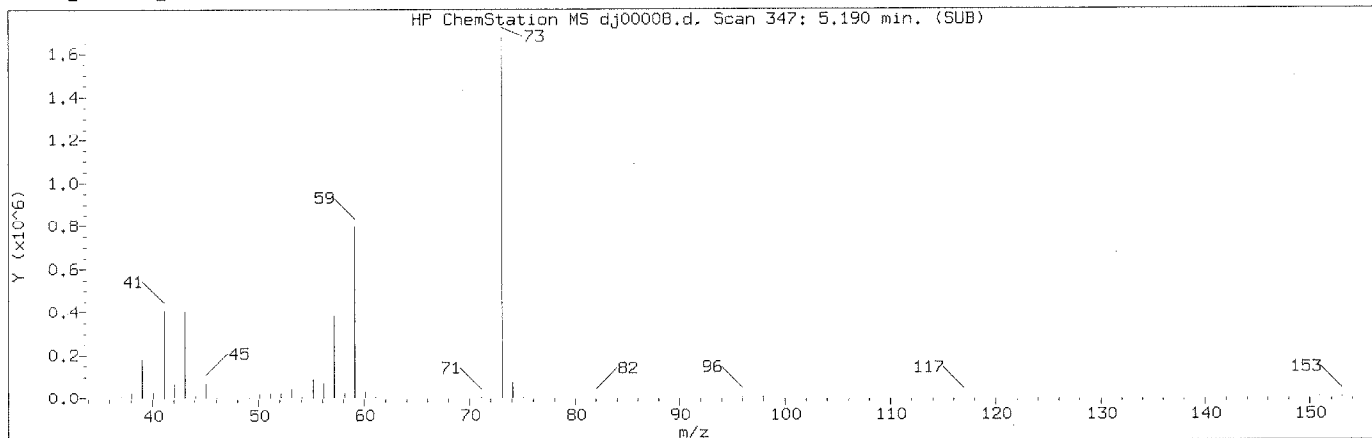
Sample Name: VSTD070

Lab Sample ID: VSTD070

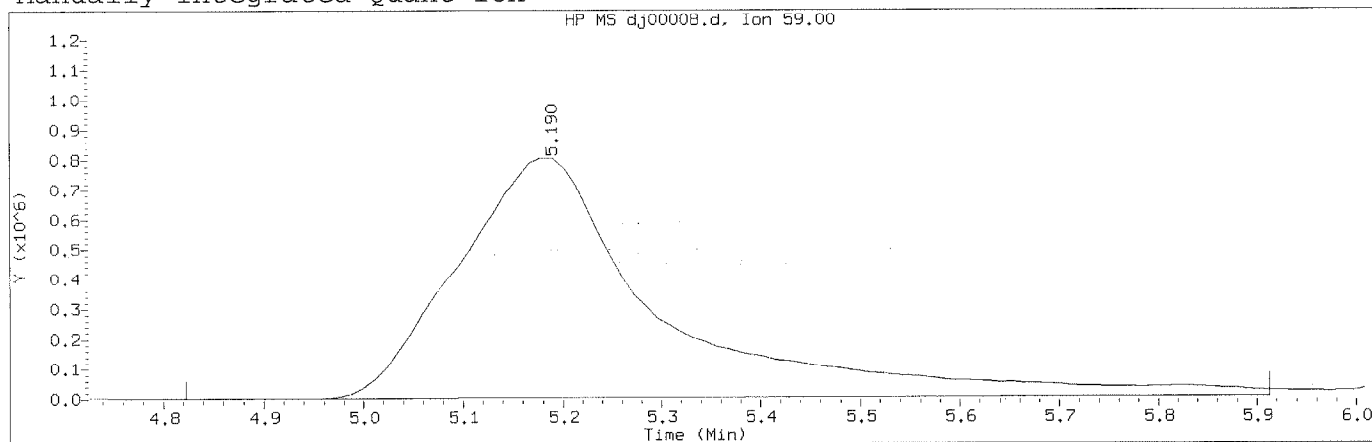
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 289
Retention Time (minutes): 4.502
Quant Ion : 45.00
Area : 2598462
Concentration (ppb(v)) : 28.3503
Integration start scan : 270
Y at integration start : 4496
Integration stop scan: 288
Y at integration end: 4496

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d
 Injection date and time: 01-OCT-2015 17:08
 Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 17:52
 Sublist used: all
 Date, time and analyst ID of latest file update: 01-Oct-2015 17:52 jeb07445

Sample Name: VSTD070 Lab Sample ID: VSTD070

```

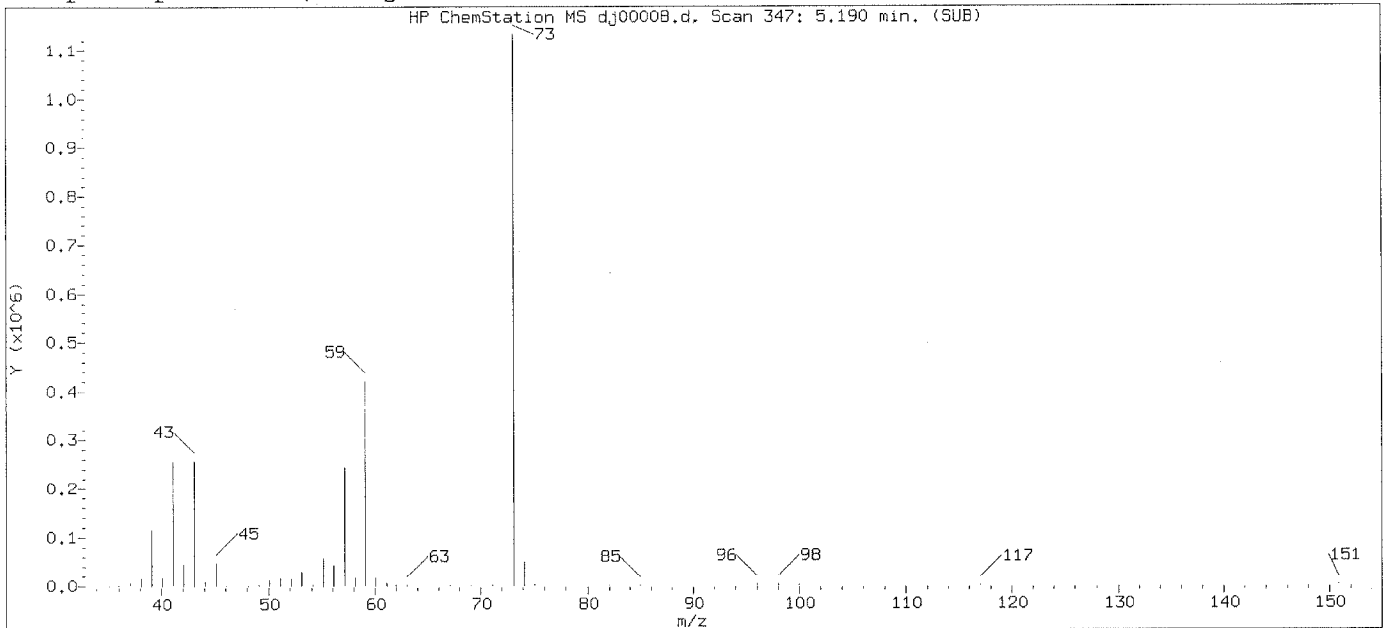
Compound Number           : 26
Compound Name             : tert-Butyl Alcohol
Scan Number                : 347
Retention Time (minutes)  : 5.190
Quant Ion                  : 59.00
Area (flag)                : 11339511M
Concentration (ppb(v))    : 78.2095
Integration start scan    : 315
Integration stop scan     : 407
Y at integration start    : 2021
Y at integration end      : 5930
    
```

Reason for manual integration: improper integration

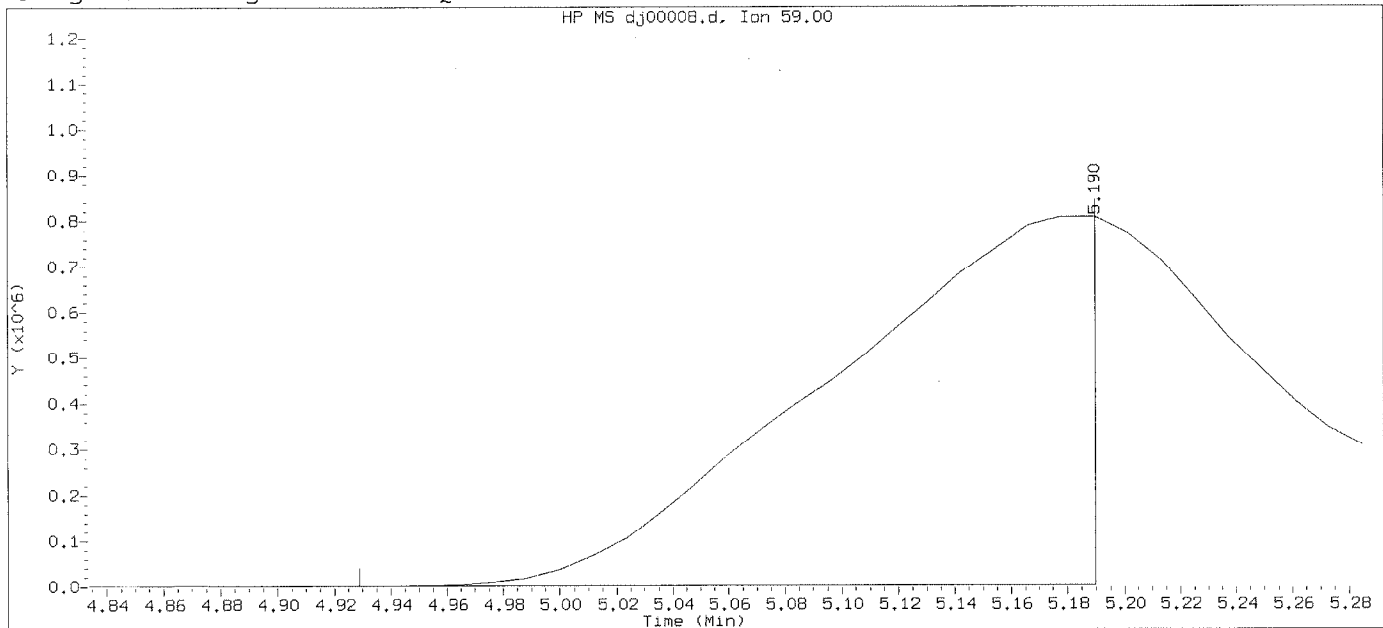
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omryn 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 17:08

Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 16:56

Date, time and analyst ID of latest file update: 01-Oct-2015 17:49 Automation

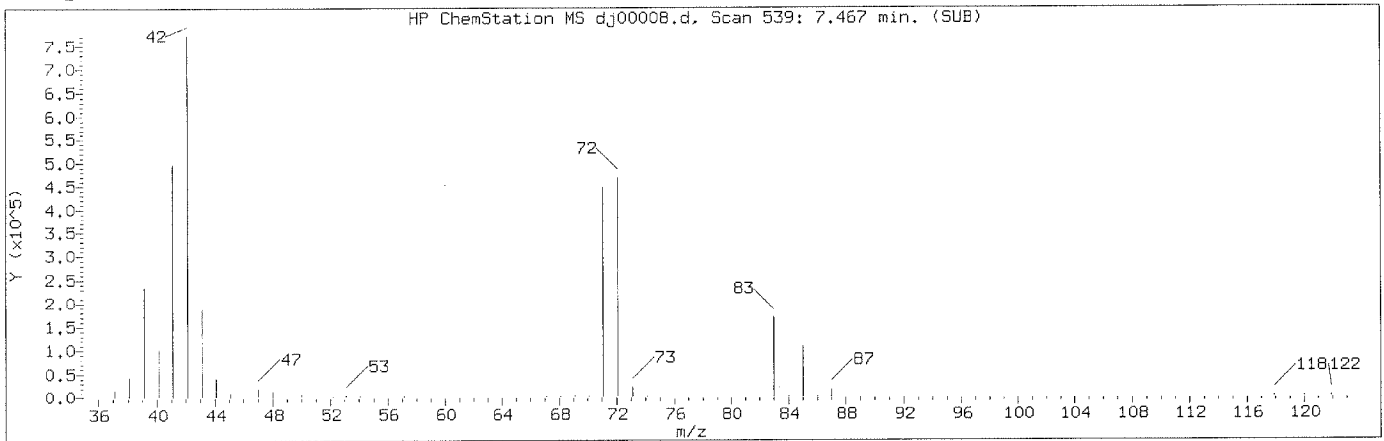
Sample Name: VSTD070

Lab Sample ID: VSTD070

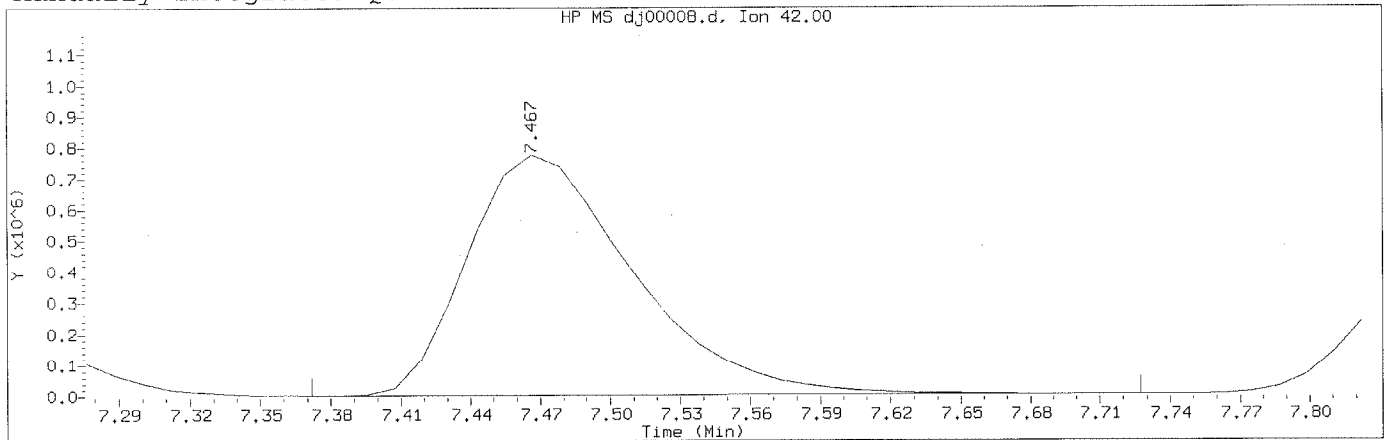
Compound Number	: 26	
Compound Name	: tert-Butyl Alcohol	
Scan Number	: 347	
Retention Time (minutes)	: 5.190	
Quant Ion	: 59.00	
Area	: 5093290	
Concentration (ppb(v))	: 35.2395	
Integration start scan	: 324	Integration stop scan: 346
Y at integration start	: 1323	Y at integration end: 1323

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 17:08 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 17:52
 Date, time and analyst ID of latest file update: 01-Oct-2015 17:52 jeb07445

Sample Name: VSTD070 Lab Sample ID: VSTD070

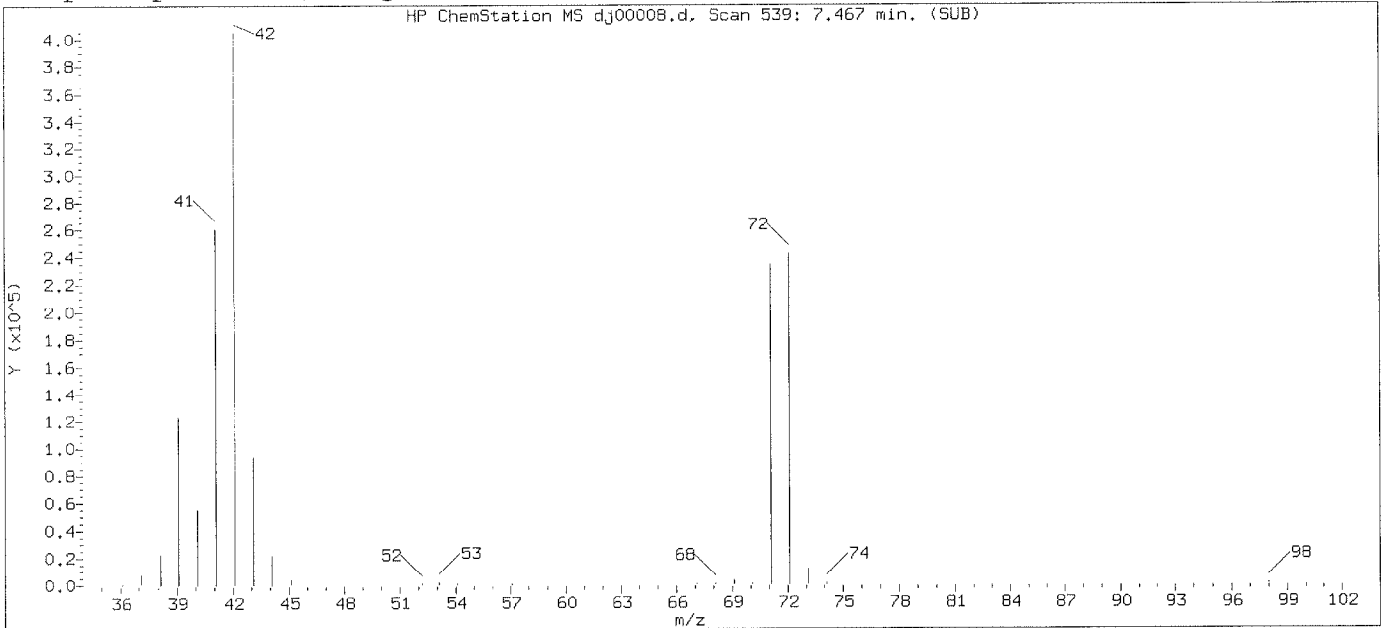
Compound Number : 41
 Compound Name : Tetrahydrofuran
 Scan Number : 539
 Retention Time (minutes): 7.467
 Quant Ion : 42.00
 Area (flag) : 3817889M
 Concentration (ppb(v)) : 76.1041
 Integration start scan : 530 Integration stop scan: 560
 Y at integration start : 2607 Y at integration end: 3047

Reason for manual integration: improper integration

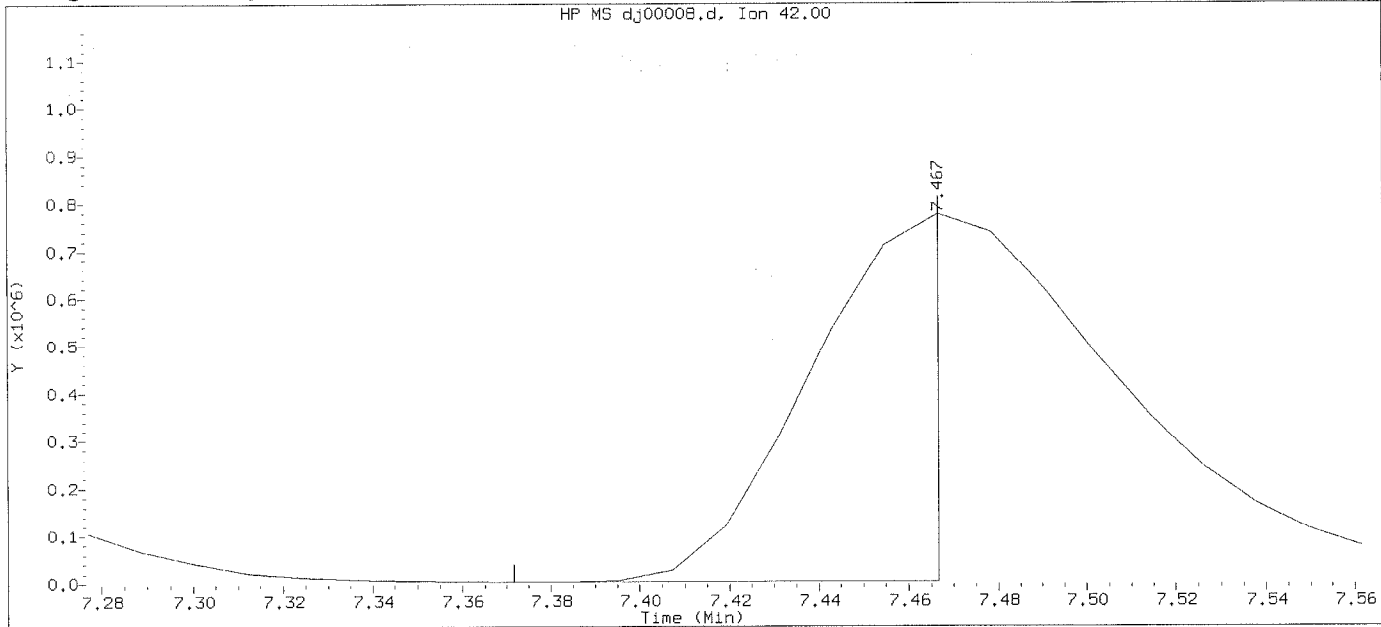
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Cmrym 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d
Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 16:56
Date, time and analyst ID of latest file update: 01-Oct-2015 17:49 Automation

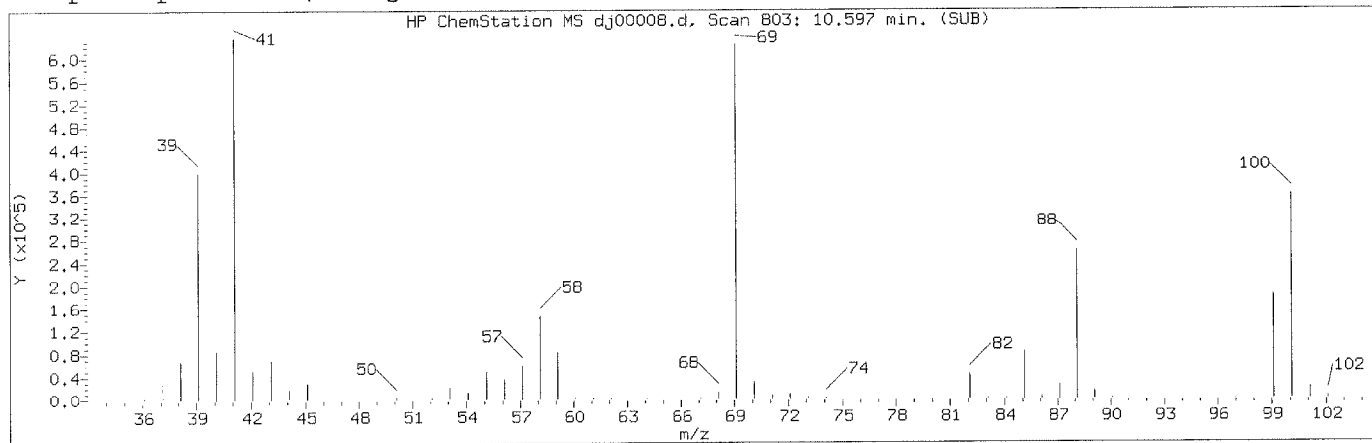
Sample Name: VSTD070

Lab Sample ID: VSTD070

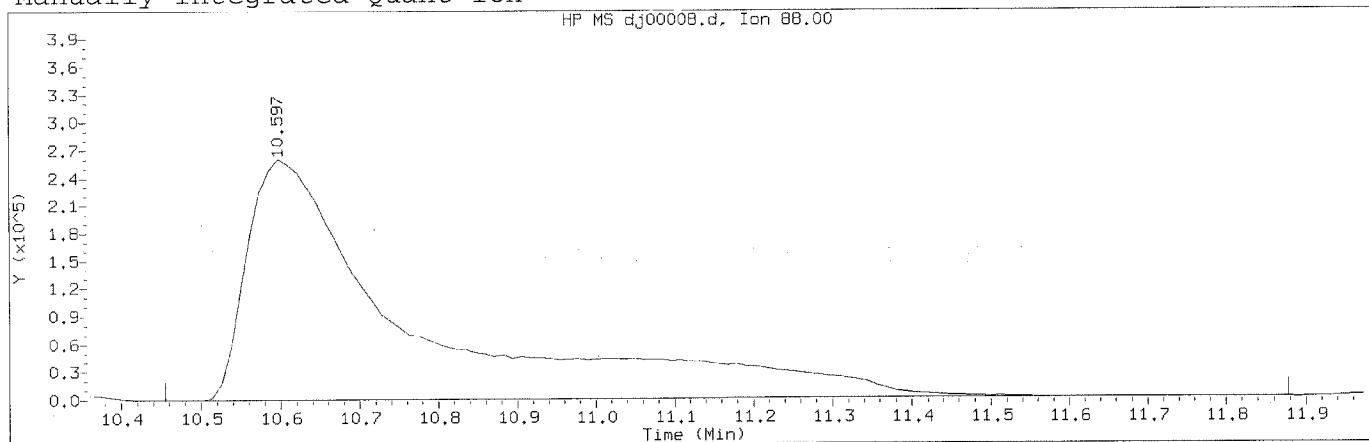
Compound Number : 41
Compound Name : Tetrahydrofuran
Scan Number : 539
Retention Time (minutes): 7.467
Quant Ion : 42.00
Area : 1474238
Concentration (ppb(v)) : 29.9084
Integration start scan : 530 Integration stop scan: 538
Y at integration start : 2607 Y at integration end: 2607

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Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d Instrument ID: HP10145.i
 Injection date and time: 01-OCT-2015 17:08 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 17:52
 Date, time and analyst ID of latest file update: 01-Oct-2015 17:52 jeb07445

Sample Name: VSTD070 Lab Sample ID: VSTD070

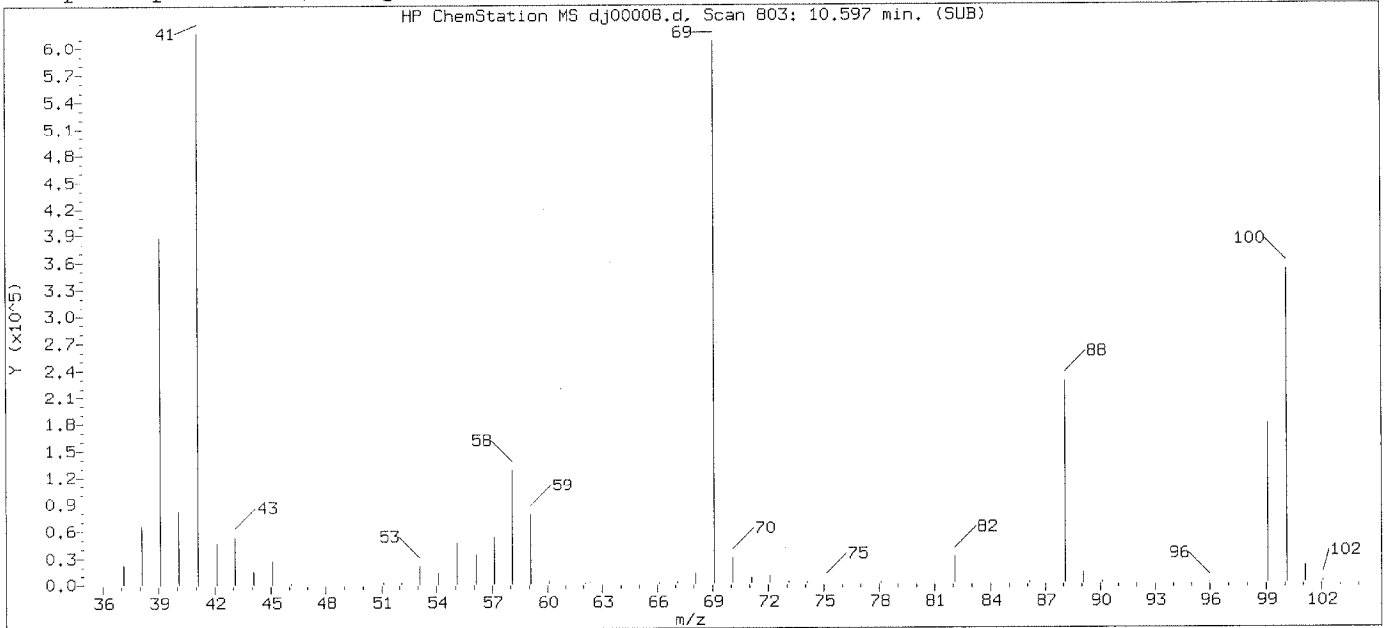
Compound Number : 56
 Compound Name : 1,4-Dioxane
 Scan Number : 803
 Retention Time (minutes): 10.597
 Quant Ion : 88.00
 Area (flag) : 3765503M
 Concentration (ppb(v)) : 69.7823
 Integration start scan : 790 Integration stop scan: 910
 Y at integration start : 0 Y at integration end: 759

Reason for manual integration: improper integration

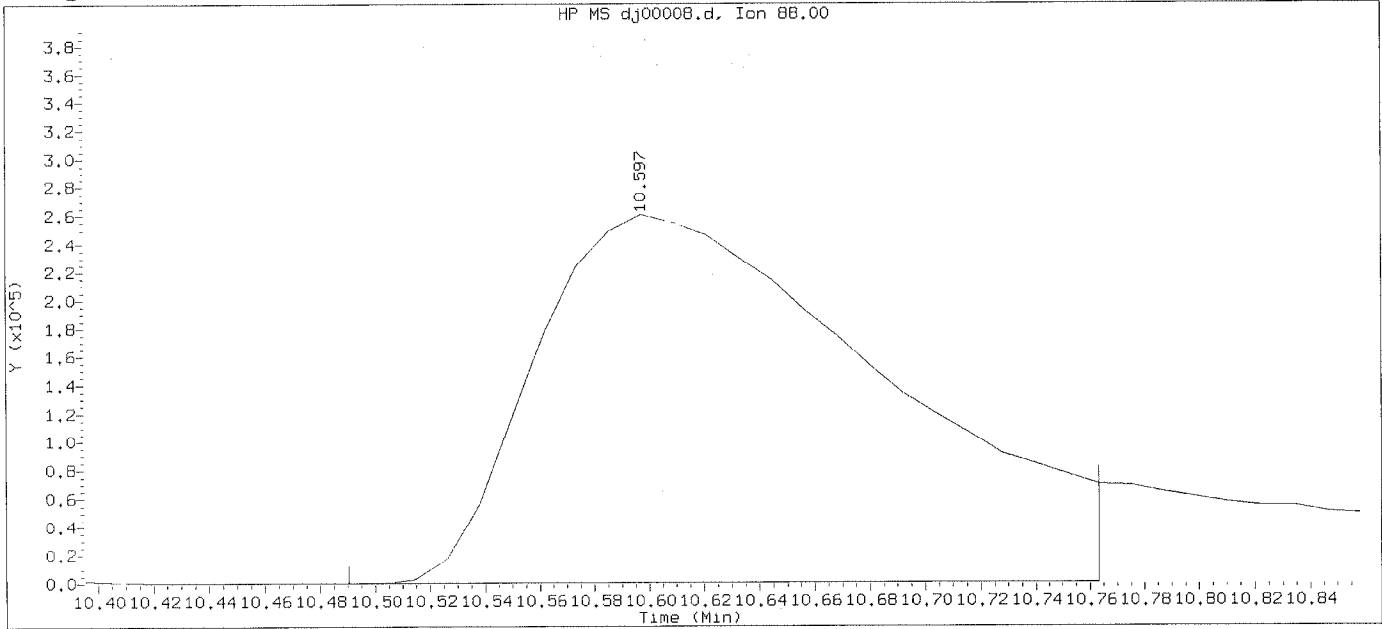
Digitally signed by Jeffrey B. Smith
 Analyst responsible for change: on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omny 4/2 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d
 Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 16:56
 Date, time and analyst ID of latest file update: 01-Oct-2015 17:49 Automation

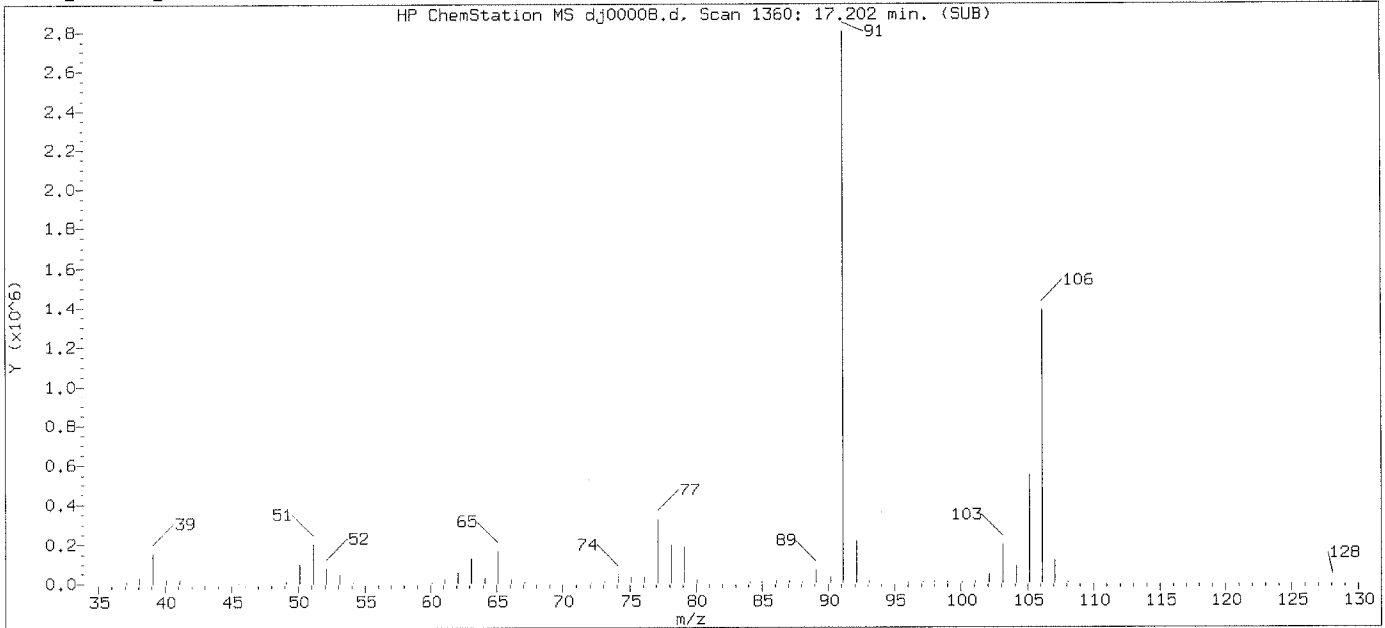
Sample Name: VSTD070

Lab Sample ID: VSTD070

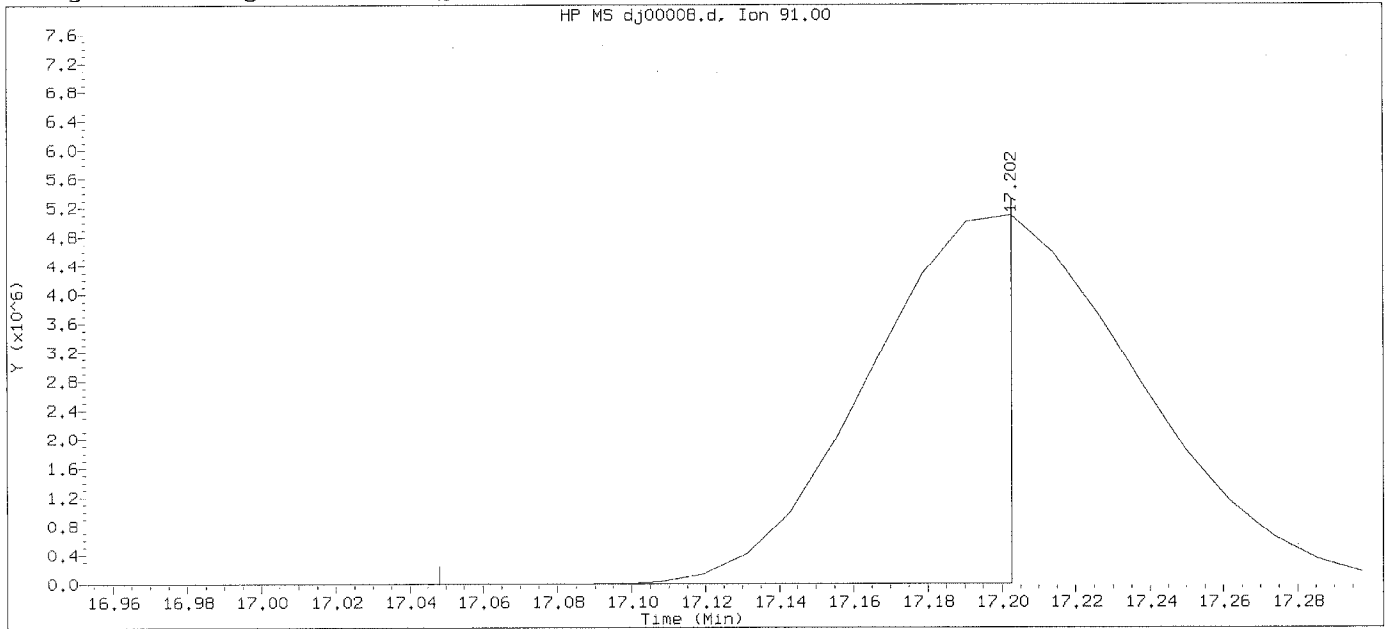
Compound Number	: 56		
Compound Name	: 1,4-Dioxane		
Scan Number	: 803		
Retention Time (minutes)	: 10.597		
Quant Ion	: 88.00		
Area	: 2285698		
Concentration (ppb(v))	: 42.0880		
Integration start scan	: 793	Integration stop scan:	816
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00008.d
 Injection date and time: 01-OCT-2015 17:08

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 16:56
 Date, time and analyst ID of latest file update: 01-Oct-2015 17:49 Automation

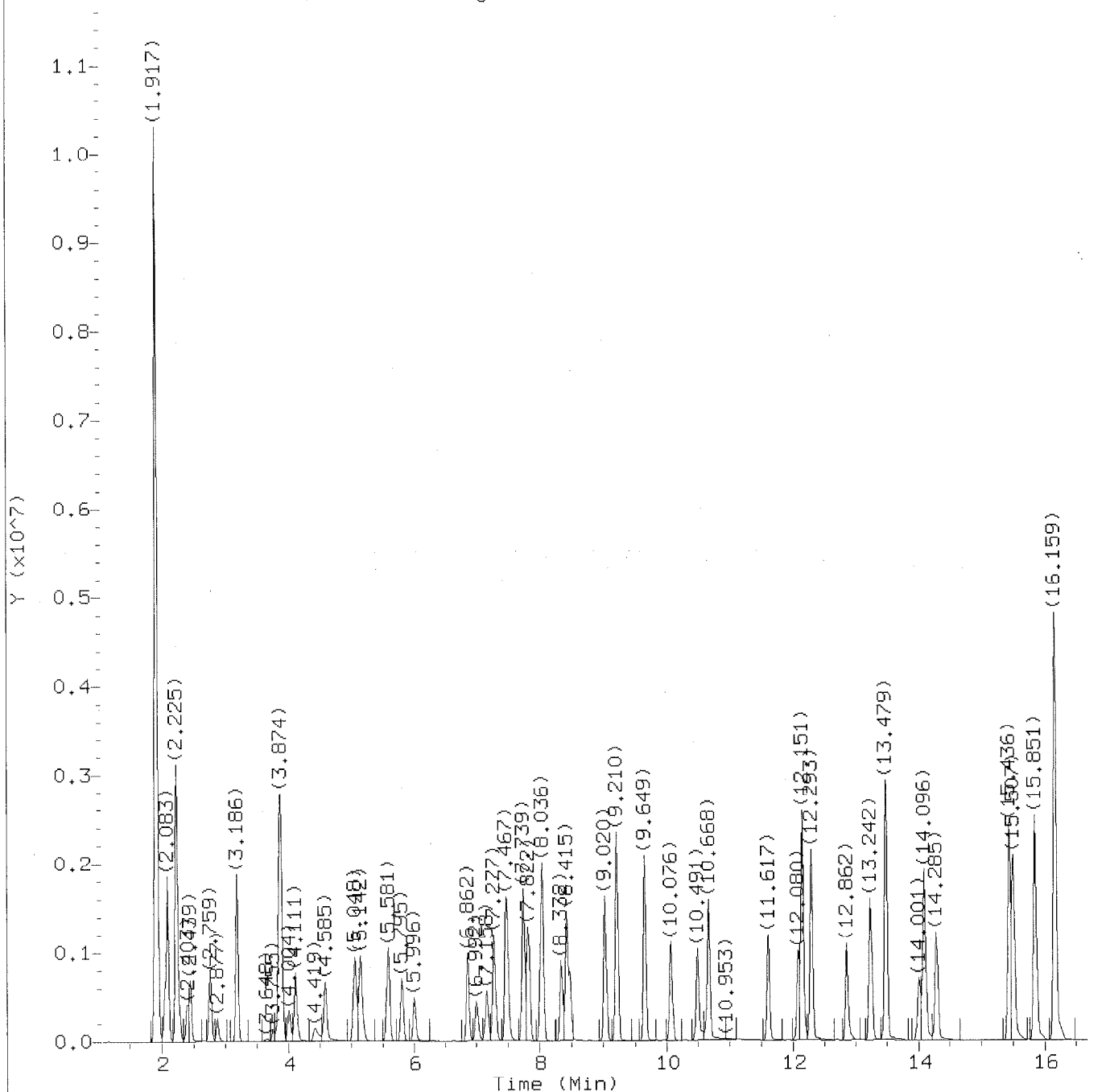
Sublist used: all

Sample Name: VSTD070

Lab Sample ID: VSTD070

Compound Number : 76
 Compound Name : o-Xylene
 Scan Number : 1360
 Retention Time (minutes): 17.202
 Quant Ion : 91.00
 Area : 13166074
 Concentration (ppb(v)) : 40.0915
 Integration start scan : 1346 Integration stop scan: 1359
 Y at integration start : 1868 Y at integration end: 1868

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 Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00012.d
Injection date and time: 01-OCT-2015 20:58

Instrument ID: HP10145.i
Analyst ID: jeb07445

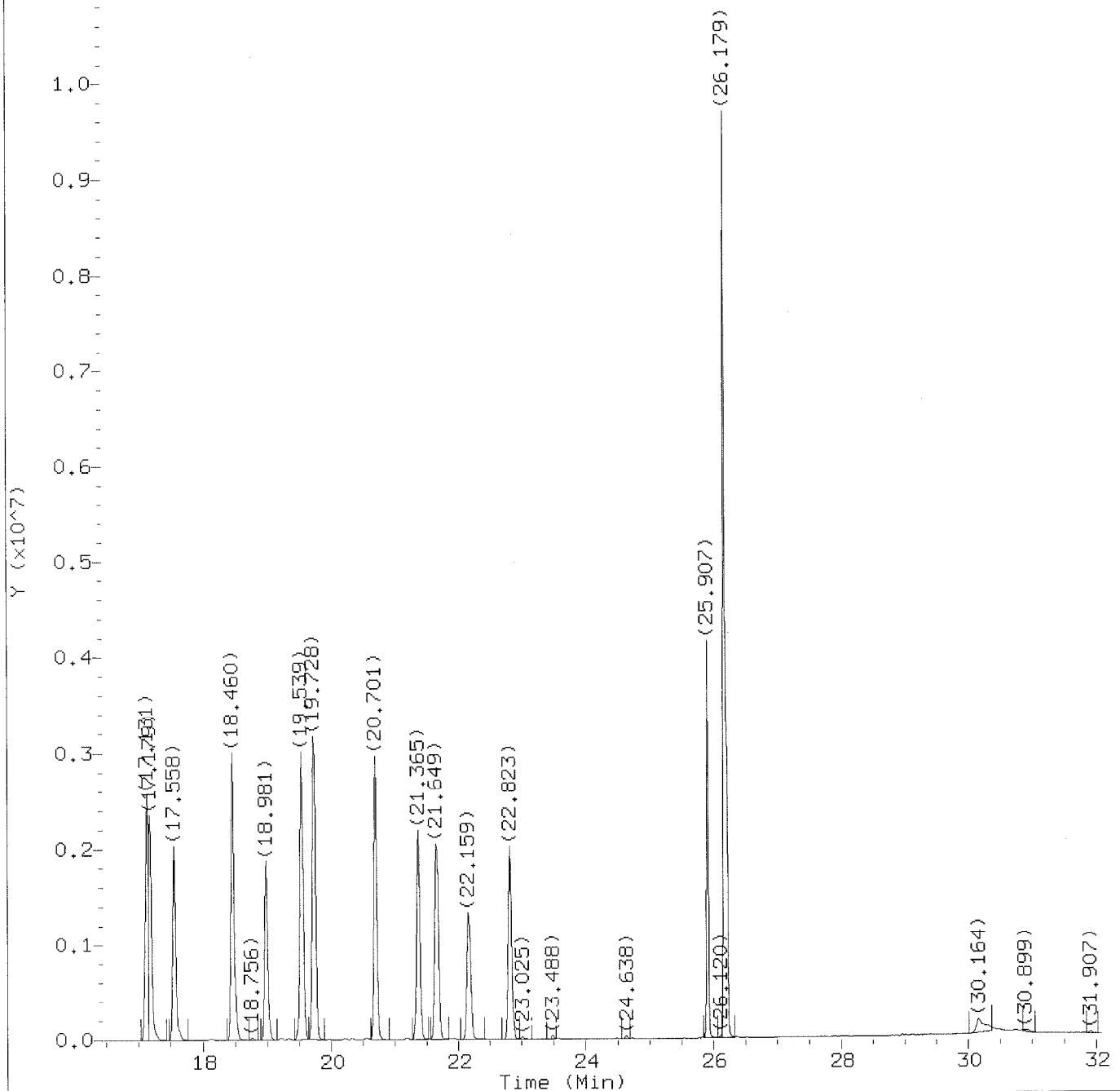
Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:23
Date, time and analyst ID of latest file update: 02-Oct-2015 10:39 jbs01304

Sublist used: all

Sample Name: LCSD86

Lab Sample ID: LCSD86

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00012.d
Injection date and time: 01-OCT-2015 20:58

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:23
Date, time and analyst ID of latest file update: 02-Oct-2015 10:39 jbs01304

Sublist used: all

Sample Name: LCSD86

Lab Sample ID: LCSD86

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00012.d
 Injection date and time: 01-OCT-2015 20:58

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 02-OCT-2015 10:23

Sublist used: all

Date, time and analyst ID of latest file update: 02-Oct-2015 10:39 jbs01304

Sample Name: LCSD86

Lab Sample ID: LCSD86

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	353203	10.101
2) Dichlorodifluoromethane	(1)	2.083	85	2347195	9.407
4) Freon 114	(1)	2.225	85	1915483	9.523
5) Chloromethane	(1)	2.273	52	143097	9.064
6) Vinyl Chloride	(1)	2.391	62	601649	9.806
7) 1,3-Butadiene	(1)	2.439	54	409486	10.118
8) Bromomethane	(1)	2.759	94	754716	9.683
9) Chloroethane	(1)	2.877	64	321017	9.342
12) Trichlorofluoromethane	(1)	3.186	101	2433066	9.385
14) Ethanol	(1)	3.660	45	137623M	6.094
16) Acrolein	(1)	3.755	56	180637	10.627
17) 1,1-Dichloroethene	(1)	3.838	61	1047966	9.974
18) Freon 113	(1)	3.874	103	1125876	9.801
19) Acetone	(1)	4.004	43	772796	10.045
21) Carbon Disulfide	(1)	4.111	76	1882010	9.761
22) Isopropanol	(1)	4.419	45	857395M	9.512
25) Methylene Chloride	(1)	4.585	84	614438	10.955
28) trans-1,2-Dichloroethene	(1)	5.048	61	893513	10.162
29) Methyl t-Butyl Ether	(1)	5.142	73	2053682	9.828
30) Hexane	(1)	5.581	57	911242	9.754
31) 1,1-Dichloroethane	(1)	5.795	63	1134965	9.402
32) Vinyl Acetate	(1)	5.996	86	182809	10.305
36) 1,2-Dichloroethene (total)	(1)		61	1748330	19.979
35) cis-1,2-Dichloroethene	(1)	6.862	61	854817	9.817
37) 2-Butanone	(1)	6.992	72	323631	10.087
38) Ethyl Acetate	(1)	7.158	70	184611	8.802
40)*Bromochloromethane	(1)	7.277	130	869437	10.000
41) Tetrahydrofuran	(1)	7.467	42	515615	10.312
42) Chloroform	(1)	7.479	83	1622116	9.199
43) 1,1,1-Trichloroethane	(1)	7.739	97	2037515	9.353
44) Cyclohexane	(1)	7.822	56	966780	9.831
45) Carbon Tetrachloride	(1)	8.036	117	2200525	9.660
46) Benzene	(2)	8.415	78	2134940	9.530
47) 1,2-Dichloroethane	(2)	8.475	62	1040900	9.562
50) Heptane	(2)	9.020	43	904697	10.158
51)*1,4-Difluorobenzene	(2)	9.210	114	3324768	10.000
52) Trichloroethene	(2)	9.649	130	1215047	10.078
54) 1,2-Dichloropropane	(2)	10.076	63	638908	9.724

M = Compound was manually integrated.
 * = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:41.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00012.d
 Injection date and time: 01-OCT-2015 20:58

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 02-OCT-2015 10:23

Sublist used: all

Date, time and analyst ID of latest file update: 02-Oct-2015 10:39 jbs01304

Sample Name: LCSD86

Lab Sample ID: LCSD86

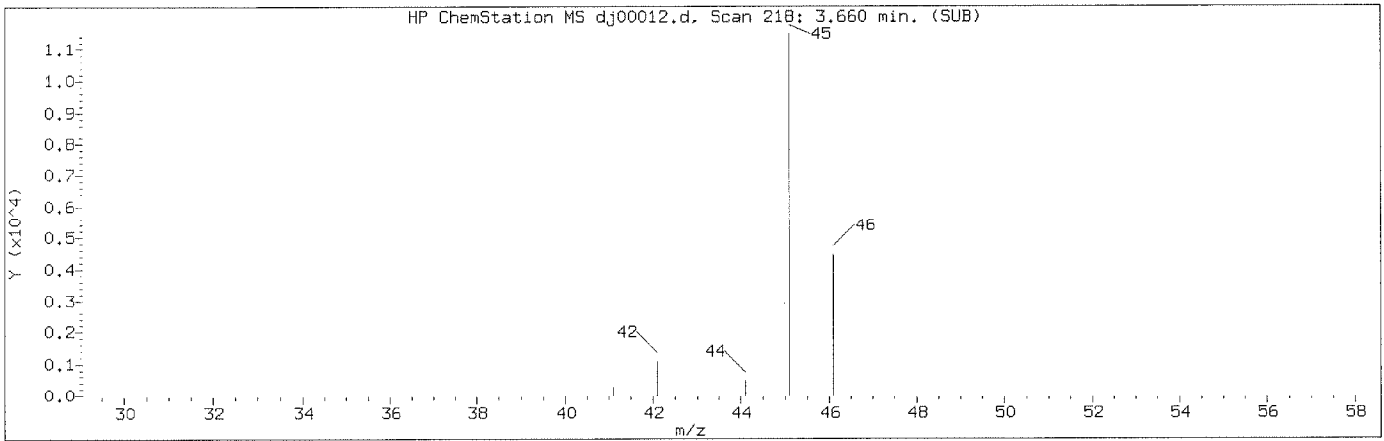
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
57) Methyl Methacrylate	(2)	10.491	69	689432	9.632
56) 1,4-Dioxane	(2)	10.574	88	556651M	10.065
58) Bromodichloromethane	(2)	10.668	83	1715003	9.208
59) cis-1,3-Dichloropropene	(2)	11.617	75	1201128	10.433
60) 4-Methyl-2-Pentanone	(2)	12.080	43	1198500	10.025
61) Toluene	(3)	12.293	91	2906957	9.796
63) trans-1,3-Dichloropropene	(3)	12.862	75	1106557	9.408
64) 1,3-Dichloropropene (total)	(3)		75	2307685	19.840
66) 1,1,2-Trichloroethane	(3)	13.242	97	996815	9.903
67) Tetrachloroethene	(3)	13.491	166	1864218	8.912
68) 2-Hexanone	(3)	14.001	43	1118766	10.589
69) Dibromochloromethane	(3)	14.096	127	1521508	9.557
70) 1,2-Dibromoethane	(3)	14.285	107	1603281	9.895
71) *Chlorobenzene-d5	(3)	15.436	117	2991589	10.000
72) Chlorobenzene	(3)	15.507	112	2434820	9.842
74) Ethylbenzene	(3)	15.851	91	3805806	9.676
75) m/p-Xylene	(3)	16.159	91	6210001	17.834
76) o-Xylene	(3)	17.131	91	3221402	9.767
78) Styrene	(3)	17.179	104	2409153	9.629
77) Xylene (total)	(3)		91	9431403	27.601
79) Bromoform	(3)	17.558	173	2082902	9.602
82) 1,1,2,2-Tetrachloroethane	(3)	18.981	83	1820750	9.232
86) 4-Ethyltoluene	(3)	19.539	105	4400682	9.319
87) 1,3,5-Trimethylbenzene	(3)	19.728	105	3992482	9.327
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	3780574	9.259
92) 1,3-Dichlorobenzene	(3)	21.365	146	2394652	9.802
93) 1,4-Dichlorobenzene	(3)	21.649	146	2302370M	9.646
95) Benzyl Chloride	(3)	22.159	91	2544114	9.461
96) 1,2-Dichlorobenzene	(3)	22.823	146	2190020	9.397
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	1625857	9.424
101) Hexachlorobutadiene	(3)	26.179	225	2543221	9.254
102) Naphthalene	(3)	26.215	128	3006638	10.500

M = Compound was manually integrated.

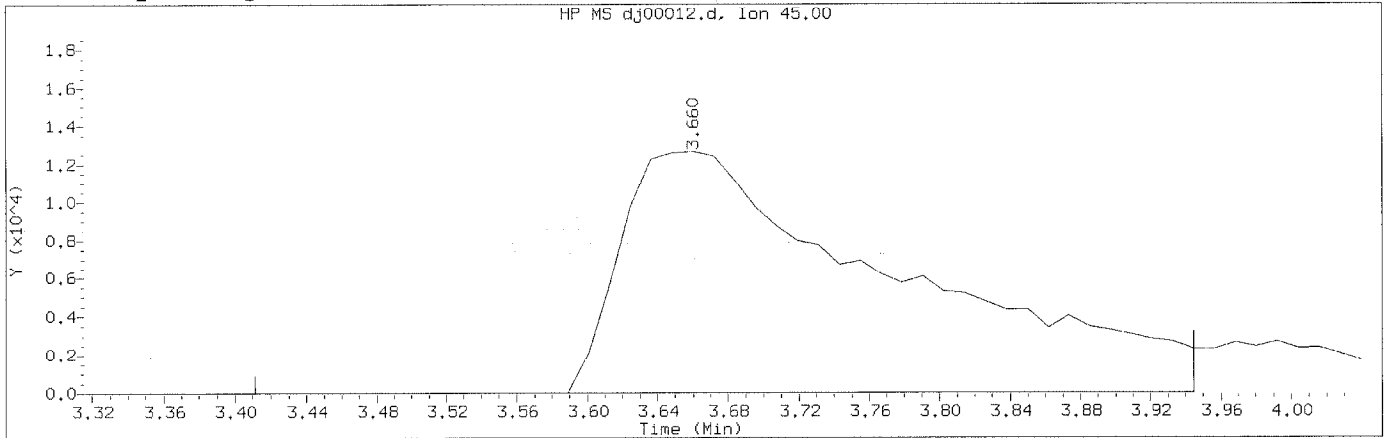
* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:41.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00012.d
Injection date and time: 01-OCT-2015 20:58

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:23
Date, time and analyst ID of latest file update: 02-Oct-2015 10:39 jbs01304

Sublist used: all

Sample Name: LCSD86

Lab Sample ID: LCSD86

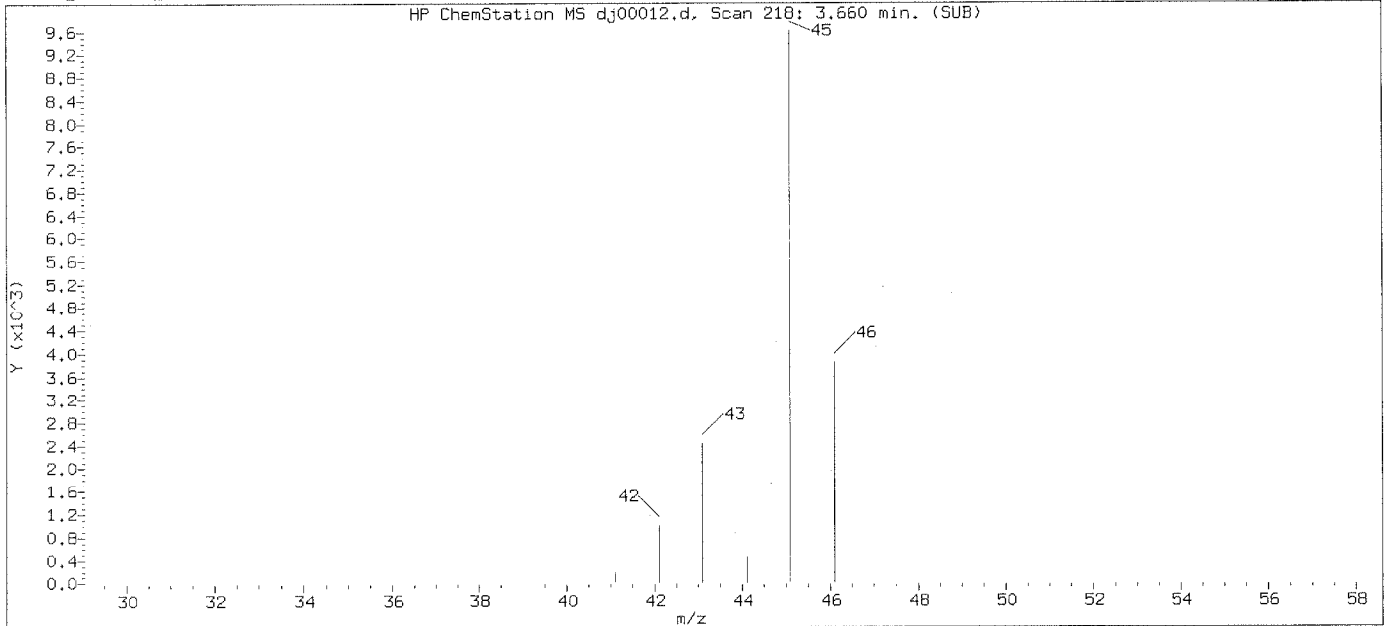
Compound Number : 14
Compound Name : Ethanol
Scan Number : 218
Retention Time (minutes): 3.660
Quant Ion : 45.00
Area (flag) : 137623M
Concentration (ppb(v)) : 6.0941
Integration start scan : 196 Integration stop scan: 241
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

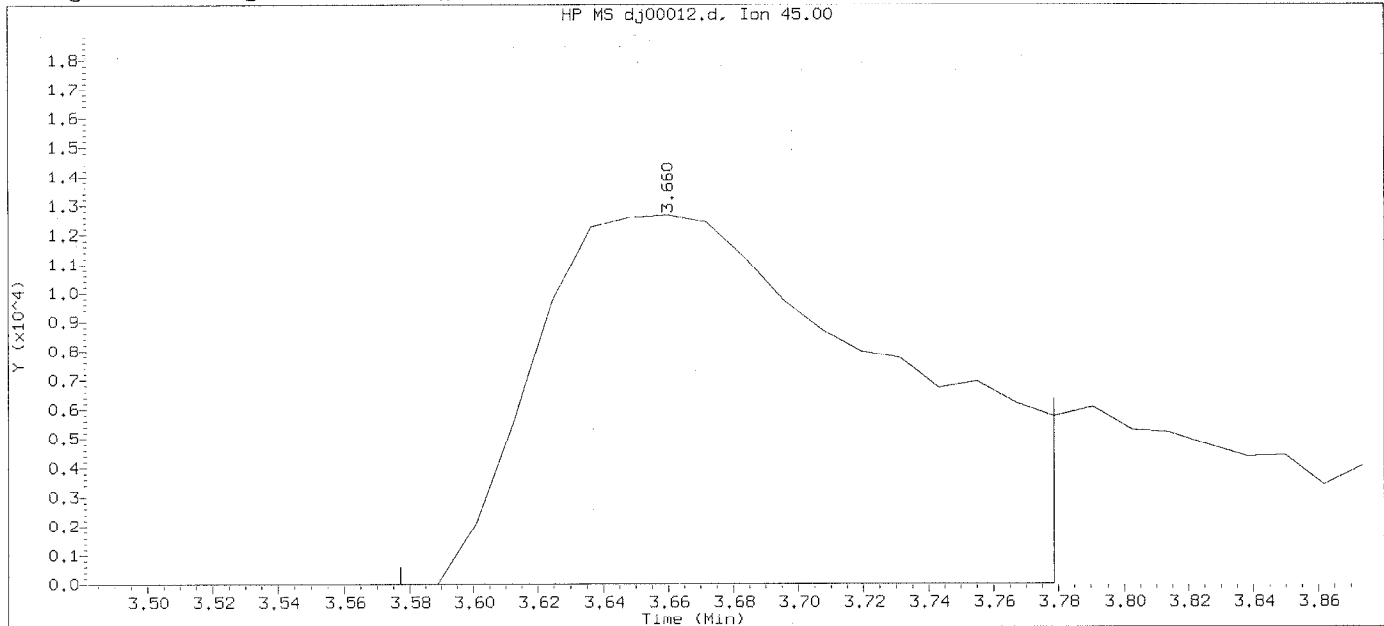
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omny 112 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00012.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 20:58

Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 18:46

Date, time and analyst ID of latest file update: 01-Oct-2015 21:39 Automation

Sample Name: LCSD86

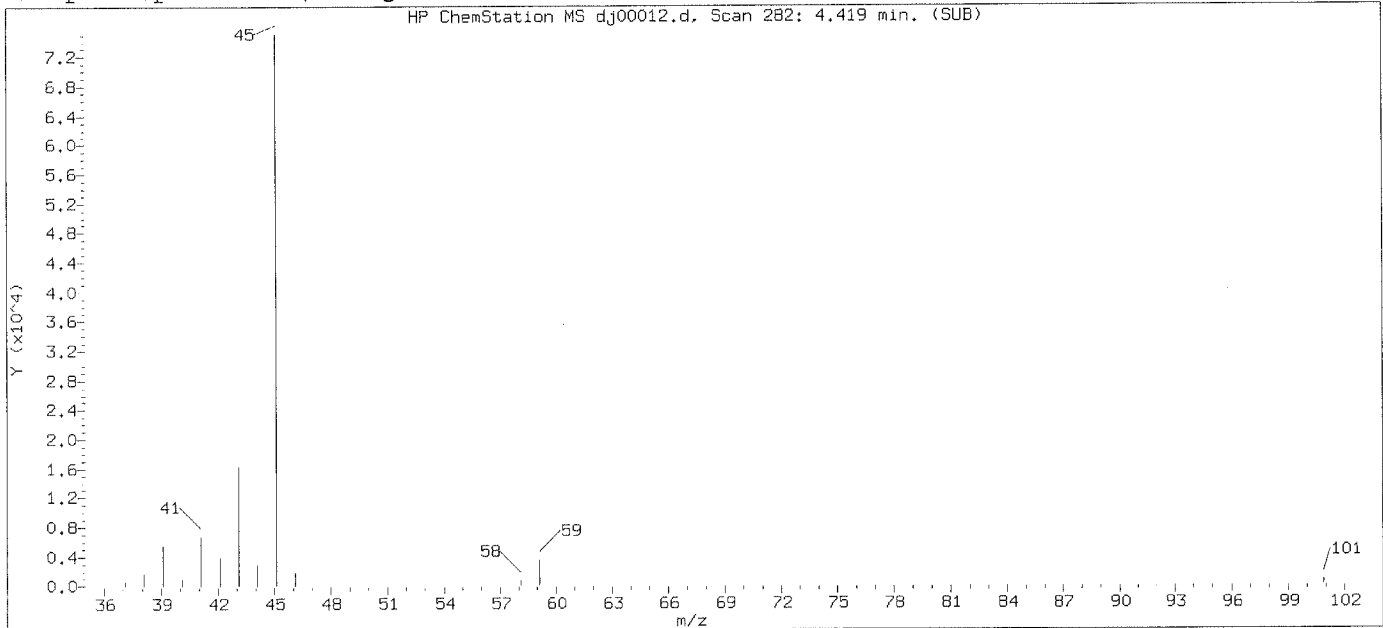
Lab Sample ID: LCSD86

Compound Number : 14
 Compound Name : Ethanol
 Scan Number : 218
 Retention Time (minutes): 3.660
 Quant Ion : 45.00
 Area : 96363
 Concentration (ppb(v)) : 4.2670
 Integration start scan : 210
 Y at integration start : 0

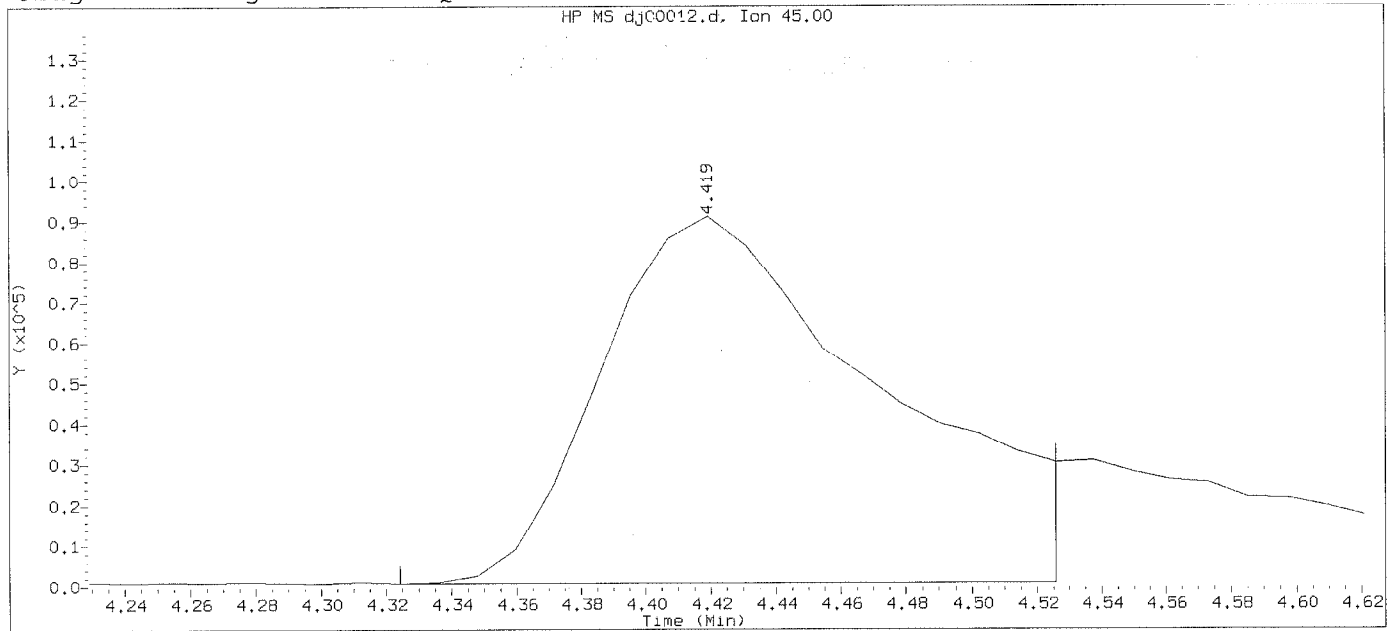
Integration stop scan: 227
 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:41.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00012.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 20:58

Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 18:46

Date, time and analyst ID of latest file update: 01-Oct-2015 21:39 Automation

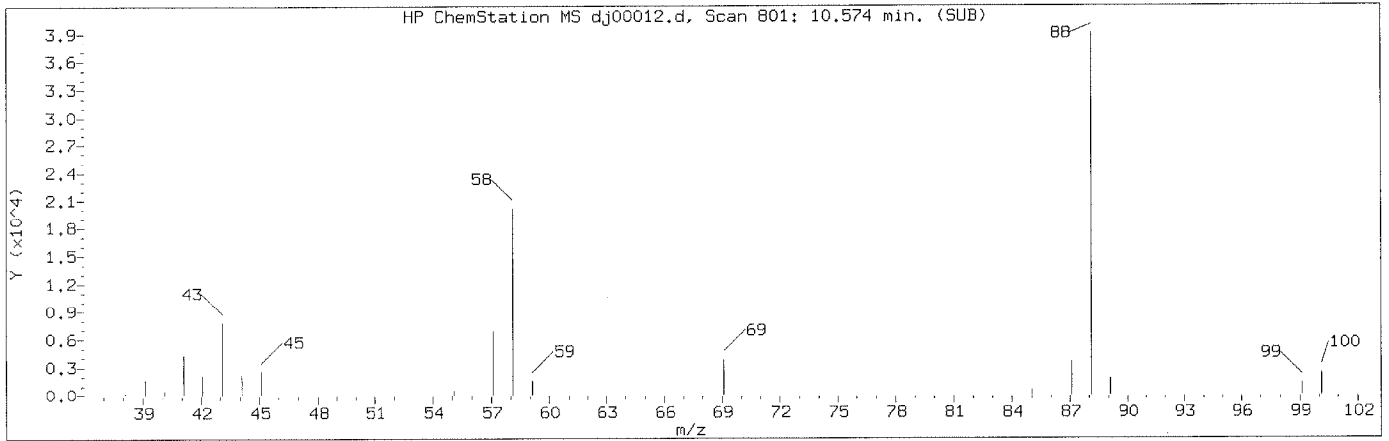
Sample Name: LCSD86

Lab Sample ID: LCSD86

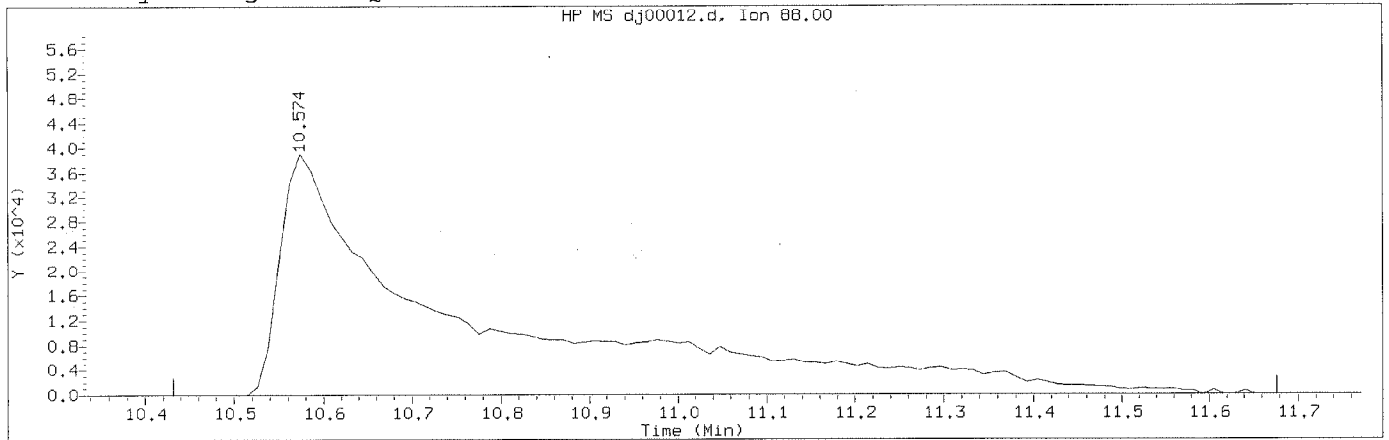
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 282
Retention Time (minutes): 4.419
Quant Ion : 45.00
Area : 539652
Concentration (ppb(v)) : 5.9867
Integration start scan : 273 Integration stop scan: 290
Y at integration start : 738 Y at integration end: 738

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00012.d
Injection date and time: 01-OCT-2015 20:58

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:23
Date, time and analyst ID of latest file update: 02-Oct-2015 10:39 jbs01304

Sublist used: all

Sample Name: LCSD86

Lab Sample ID: LCSD86

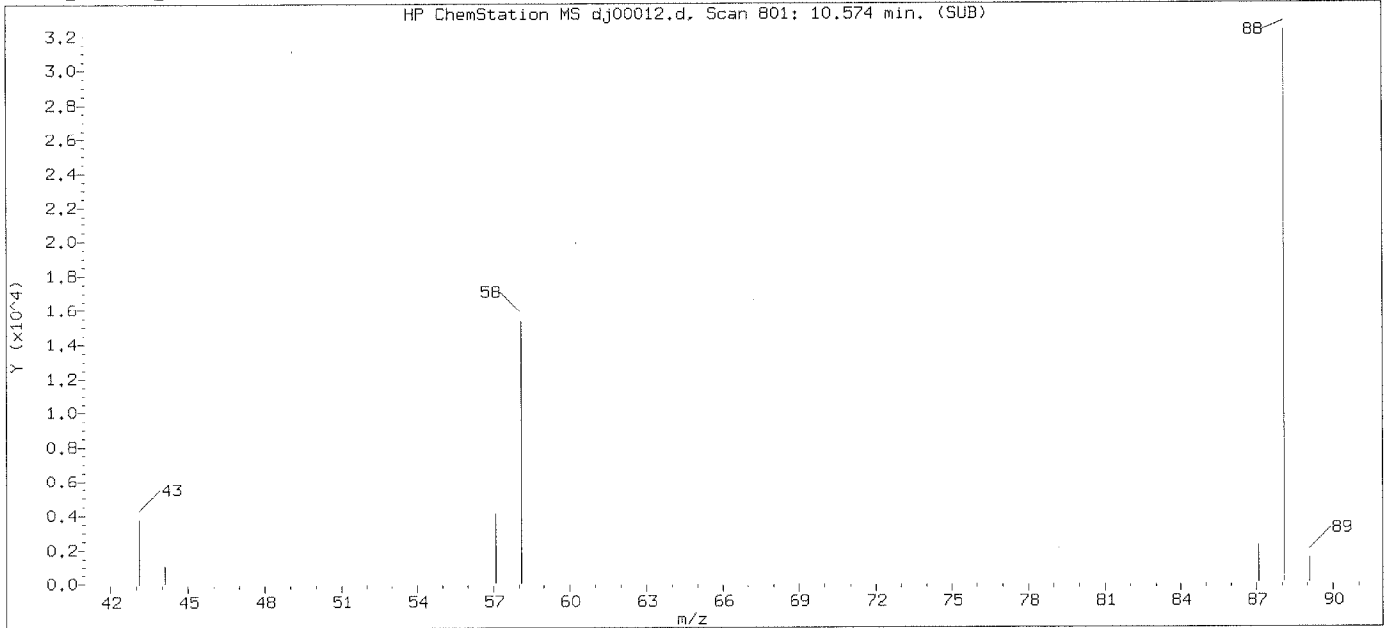
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 801
Retention Time (minutes): 10.574
Quant Ion : 88.00
Area (flag) : 556651M
Concentration (ppb(v)) : 10.0654
Integration start scan : 788 Integration stop scan: 893
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

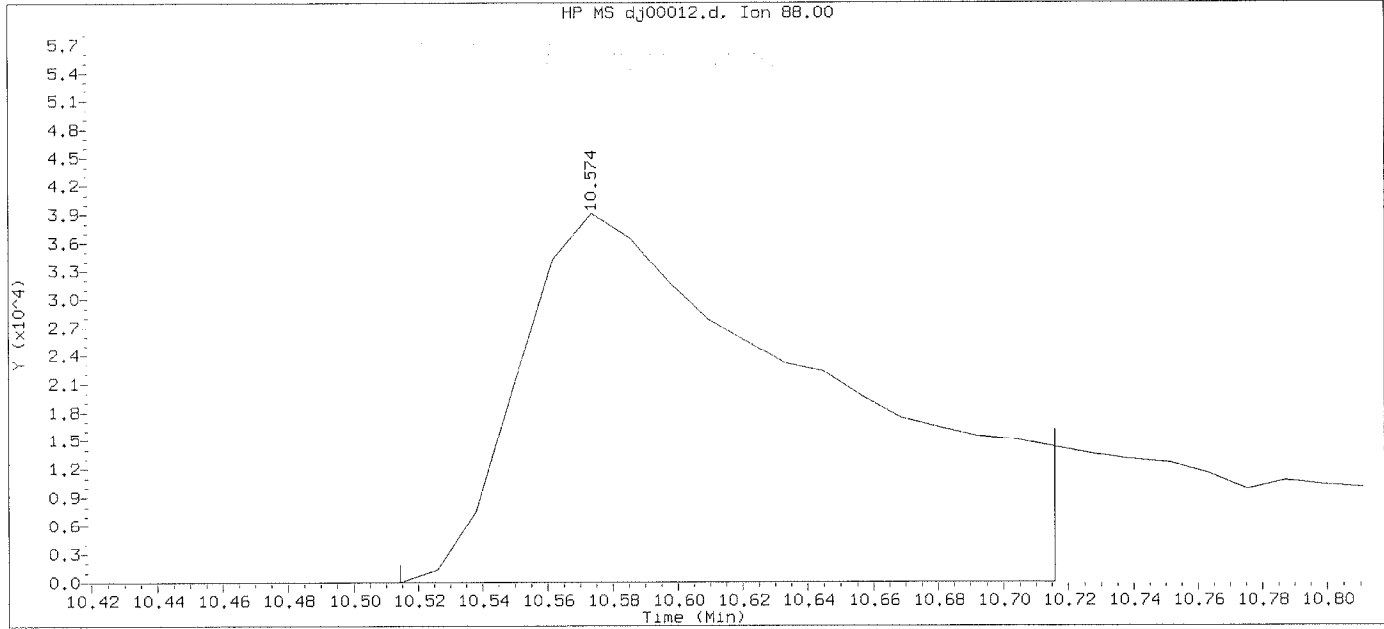
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Ommyln 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00012.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 20:58 Analyst ID: jeb07445

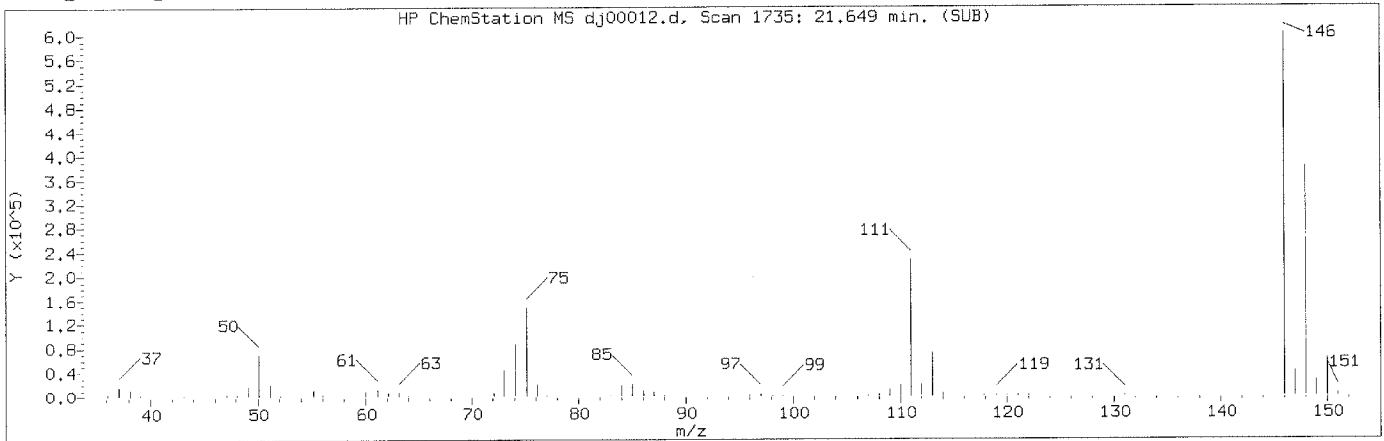
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 18:46
Date, time and analyst ID of latest file update: 01-Oct-2015 21:39 Automation

Sample Name: LCSD86 Lab Sample ID: LCSD86

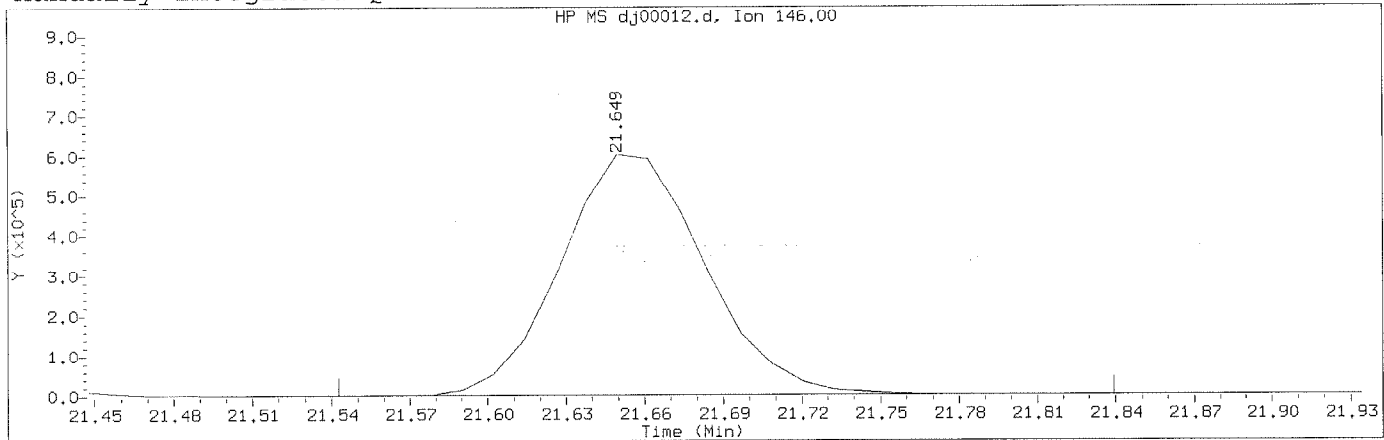
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 801
Retention Time (minutes): 10.574
Quant Ion : 88.00
Area : 256951
Concentration (ppb(v)) : 4.6462
Integration start scan : 795 Integration stop scan: 812
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00012.d
Injection date and time: 01-OCT-2015 20:58

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:23
Date, time and analyst ID of latest file update: 02-Oct-2015 10:39 jbs01304

Sublist used: all

Sample Name: LCSD86

Lab Sample ID: LCSD86

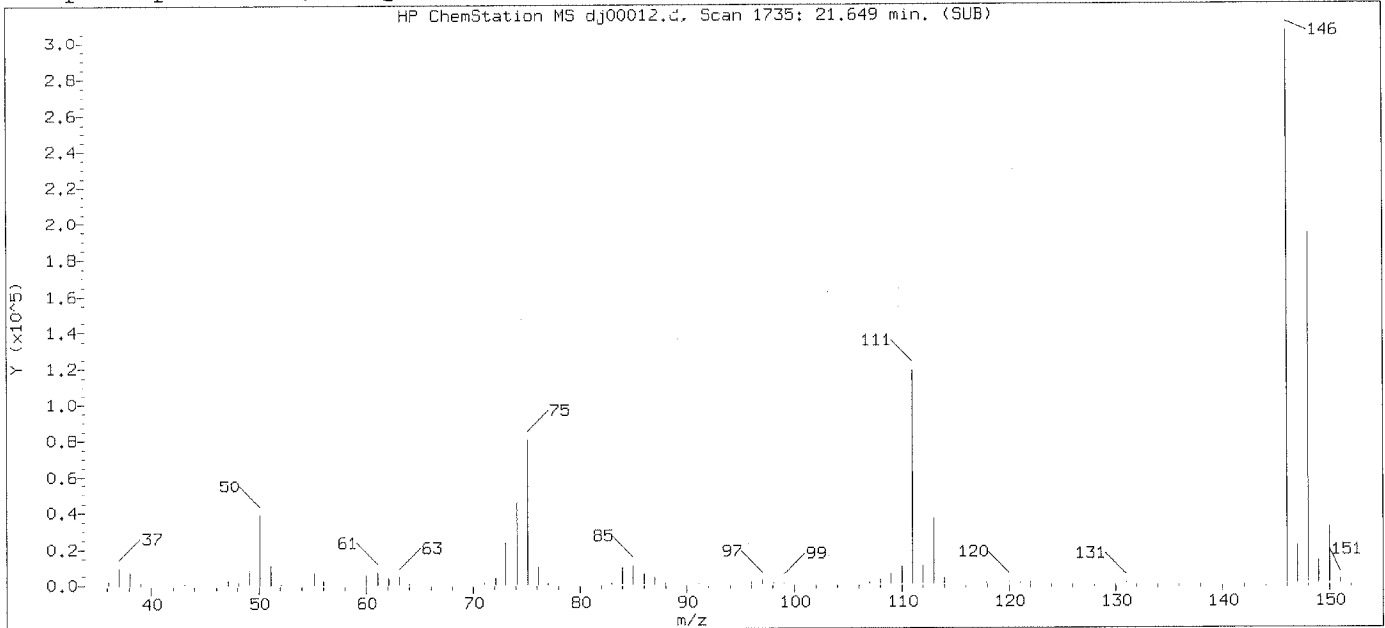
Compound Number : 93
Compound Name : 1,4-Dichlorobenzene
Scan Number : 1735
Retention Time (minutes): 21.649
Quant Ion : 146.00
Area (flag) : 2302370M
Concentration (ppb(v)) : 9.6462
Integration start scan : 1725 Integration stop scan: 1750
Y at integration start : 726 Y at integration end: 726

Reason for manual integration: improper integration

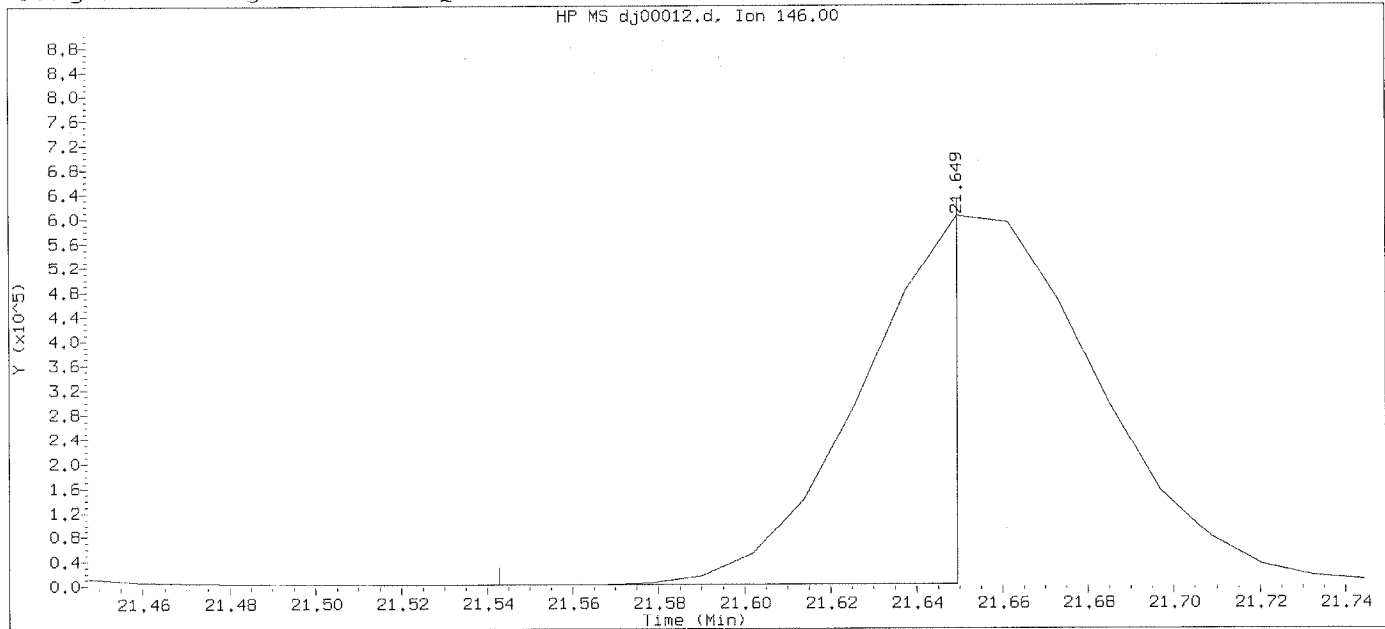
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Ommy 10/2/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00012.d
 Injection date and time: 01-OCT-2015 20:58

Instrument ID: HP10145.i
 Analyst ID: jeb07445

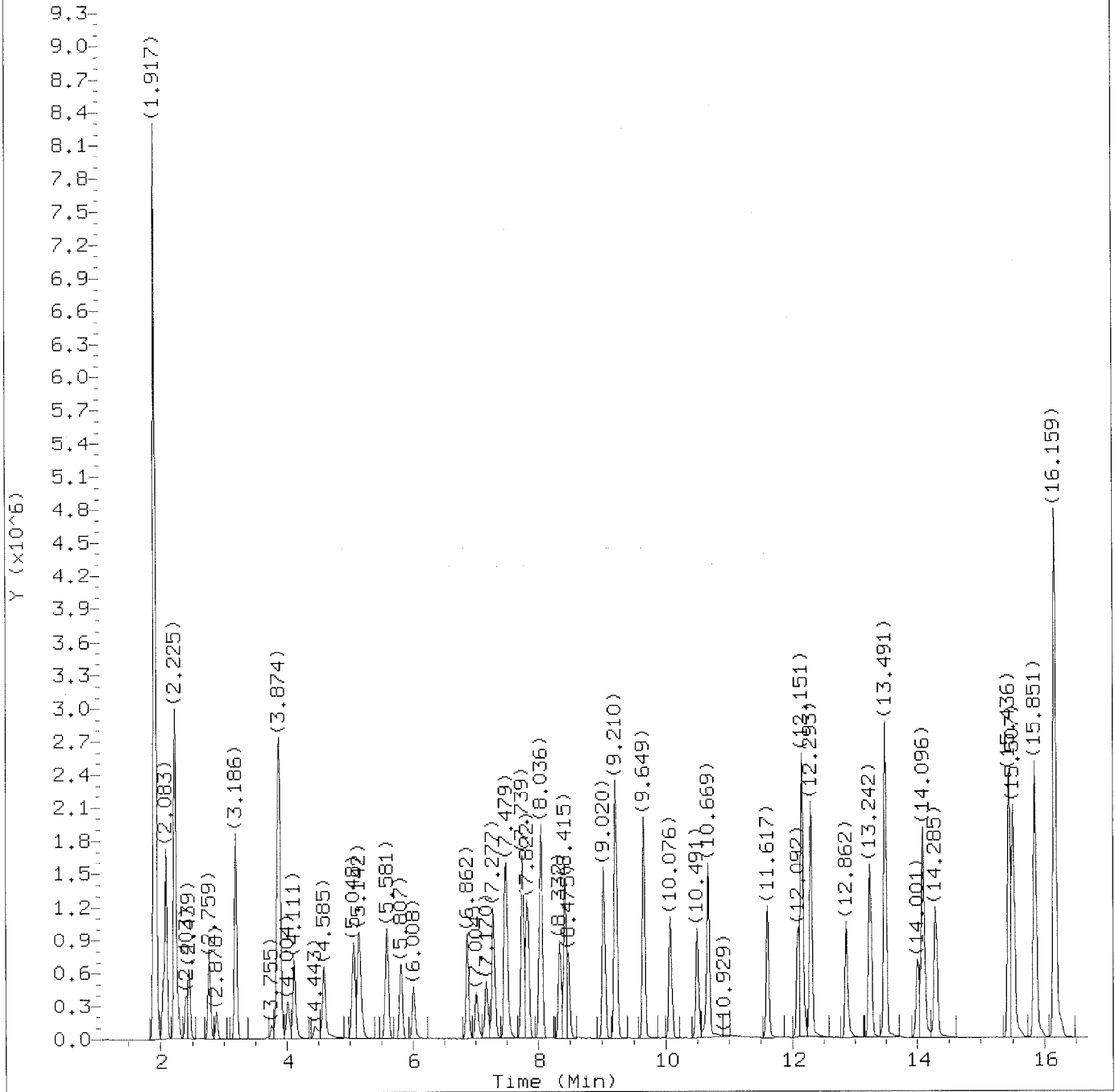
Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 18:46
 Date, time and analyst ID of latest file update: 01-Oct-2015 21:39 Automation

Sample Name: LCSD86

Lab Sample ID: LCSD86

Compound Number : 93
 Compound Name : 1,4-Dichlorobenzene
 Scan Number : 1735
 Retention Time (minutes): 21.649
 Quant Ion : 146.00
 Area : 911832
 Concentration (ppb(v)) : 3.8203
 Integration start scan : 1725
 Y at integration start : 964
 Integration stop scan: 1734
 Y at integration end: 964

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:41.
 Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00013.d
Injection date and time: 01-OCT-2015 21:44

Instrument ID: HP10145.i
Analyst ID: jeb07445

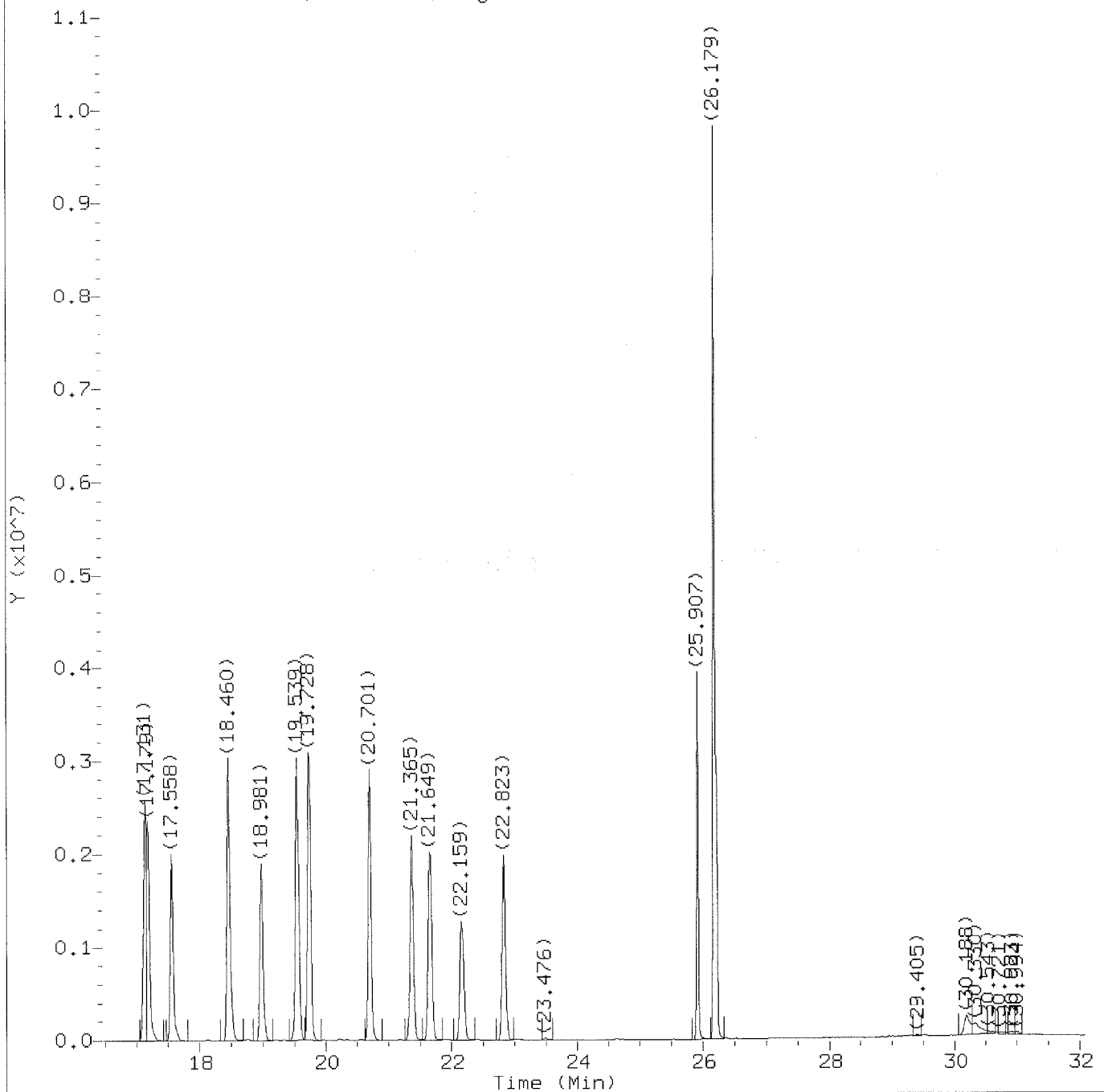
Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:40
Date, time and analyst ID of latest file update: 02-Oct-2015 10:40 jbs01304

Sublist used: all

Sample Name: LCSDD86

Lab Sample ID: LCSDD86

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00013.d
Injection date and time: 01-OCT-2015 21:44

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:40
Date, time and analyst ID of latest file update: 02-Oct-2015 10:40 jbs01304

Sublist used: all

Sample Name: LCSDD86

Lab Sample ID: LCSDD86

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00013.d
 Injection date and time: 01-OCT-2015 21:44

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 02-OCT-2015 10:40
 Date, time and analyst ID of latest file update: 02-Oct-2015 10:40 jbs01304

Sublist used: all

Sample Name: LCSDD86

Lab Sample ID: LCSDD86

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	336954	9.696
2) Dichlorodifluoromethane	(1)	2.083	85	2260406	9.116
4) Freon 114	(1)	2.225	85	1880979	9.410
5) Chloromethane	(1)	2.273	52	133589	8.514
6) Vinyl Chloride	(1)	2.403	62	578346	9.485
7) 1,3-Butadiene	(1)	2.439	54	387082	9.624
8) Bromomethane	(1)	2.759	94	721102	9.310
9) Chloroethane	(1)	2.878	64	305491	8.946
12) Trichlorofluoromethane	(1)	3.186	101	2360311	9.161
14) Ethanol	(1)	3.684	45	128260M	5.715
16) Acrolein	(1)	3.755	56	173871	10.293
17) 1,1-Dichloroethene	(1)	3.838	61	1007075	9.645
18) Freon 113	(1)	3.874	103	1088931	9.539
19) Acetone	(1)	4.004	43	769543	10.065
21) Carbon Disulfide	(1)	4.111	76	1751478	9.140
22) Isopropanol	(1)	4.443	45	781072M	8.719
25) Methylene Chloride	(1)	4.585	84	580159	10.408
28) trans-1,2-Dichloroethene	(1)	5.048	61	838886	9.600
29) Methyl t-Butyl Ether	(1)	5.142	73	2084818	10.040
30) Hexane	(1)	5.581	57	877536	9.452
31) 1,1-Dichloroethane	(1)	5.795	63	1105539	9.215
32) Vinyl Acetate	(1)	6.008	86	186108	10.557
36) 1,2-Dichloroethene (total)	(1)		61	1670167	19.207
35) cis-1,2-Dichloroethene	(1)	6.862	61	831281	9.607
37) 2-Butanone	(1)	7.004	72	323674	10.151
38) Ethyl Acetate	(1)	7.170	70	182285	8.745
40) *Bromochloromethane	(1)	7.277	130	864023	10.000
41) Tetrahydrofuran	(1)	7.479	42	514509	10.355
42) Chloroform	(1)	7.479	83	1589938	9.073
43) 1,1,1-Trichloroethane	(1)	7.739	97	1988275	9.184
44) Cyclohexane	(1)	7.822	56	925239	9.467
45) Carbon Tetrachloride	(1)	8.036	117	2136649	9.438
46) Benzene	(2)	8.415	78	2099566	9.375
47) 1,2-Dichloroethane	(2)	8.475	62	1027427	9.443
50) Heptane	(2)	9.020	43	876279	9.843
51) *1,4-Difluorobenzene	(2)	9.210	114	3323391	10.000
52) Trichloroethene	(2)	9.649	130	1189530	9.871
54) 1,2-Dichloropropane	(2)	10.076	63	624873	9.515

M = Compound was manually integrated.
 * = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:41.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00013.d
 Injection date and time: 01-OCT-2015 21:44

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 02-OCT-2015 10:40

Sublist used: all

Date, time and analyst ID of latest file update: 02-Oct-2015 10:40 jbs01304

Sample Name: LCSDD86

Lab Sample ID: LCSDD86

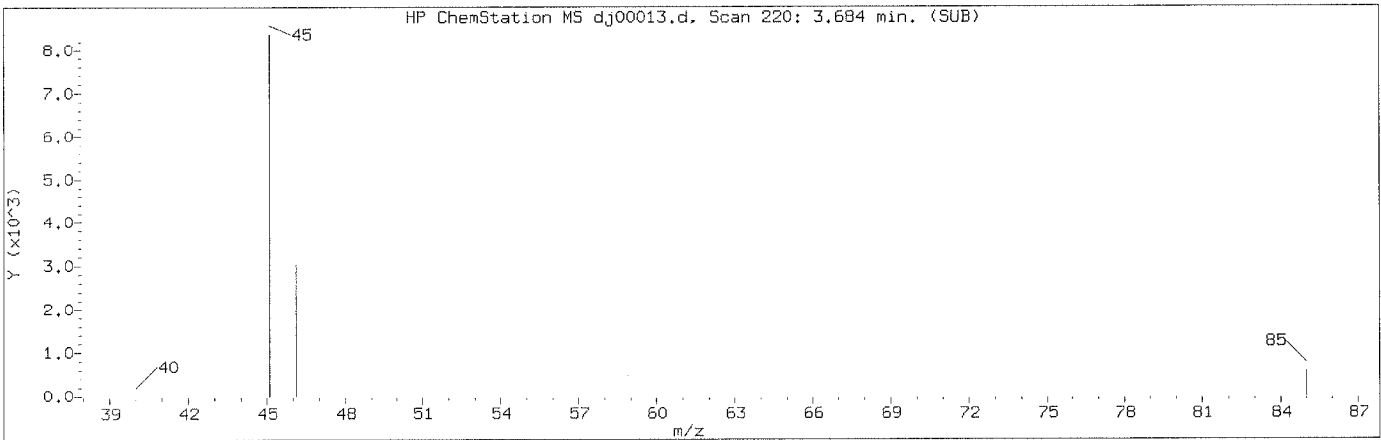
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
57) Methyl Methacrylate	(2)	10.491	69	691809	9.669
56) 1,4-Dioxane	(2)	10.621	88	521882M	9.441
58) Bromodichloromethane	(2)	10.669	83	1702397	9.144
59) cis-1,3-Dichloropropene	(2)	11.617	75	1188277	10.325
60) 4-Methyl-2-Pentanone	(2)	12.092	43	1196609	10.013
61) Toluene	(3)	12.293	91	2911284	9.753
63) trans-1,3-Dichloropropene	(3)	12.862	75	1094940	9.254
64) 1,3-Dichloropropene (total)	(3)		75	2283217	19.579
66) 1,1,2-Trichloroethane	(3)	13.242	97	992542	9.802
67) Tetrachloroethene	(3)	13.491	166	1822719	8.662
68) 2-Hexanone	(3)	14.001	43	1117271	10.512
69) Dibromochloromethane	(3)	14.096	127	1507070	9.411
70) 1,2-Dibromoethane	(3)	14.285	107	1592567	9.771
71) *Chlorobenzene-d5	(3)	15.436	117	3009313	10.000
72) Chlorobenzene	(3)	15.507	112	2425204	9.746
74) Ethylbenzene	(3)	15.851	91	3878379	9.803
75) m/p-Xylene	(3)	16.159	91	6316885	18.034
76) o-Xylene	(3)	17.131	91	3281346	9.890
78) Styrene	(3)	17.179	104	2442460	9.705
77) Xylene (total)	(3)		91	9598231	27.924
79) Bromoform	(3)	17.558	173	2088925	9.573
82) 1,1,2,2-Tetrachloroethane	(3)	18.981	83	1842517	9.288
86) 4-Ethyltoluene	(3)	19.539	105	4447337	9.362
87) 1,3,5-Trimethylbenzene	(3)	19.728	105	3999659	9.289
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	3760269	9.155
92) 1,3-Dichlorobenzene	(3)	21.365	146	2383137	9.697
93) 1,4-Dichlorobenzene	(3)	21.649	146	2293272	9.551
95) Benzyl Chloride	(3)	22.159	91	2523702	9.329
96) 1,2-Dichlorobenzene	(3)	22.823	146	2147194	9.159
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	1548698	8.924
101) Hexachlorobutadiene	(3)	26.179	225	2491951	9.014
102) Naphthalene	(3)	26.215	128	2763488	9.594

M = Compound was manually integrated.

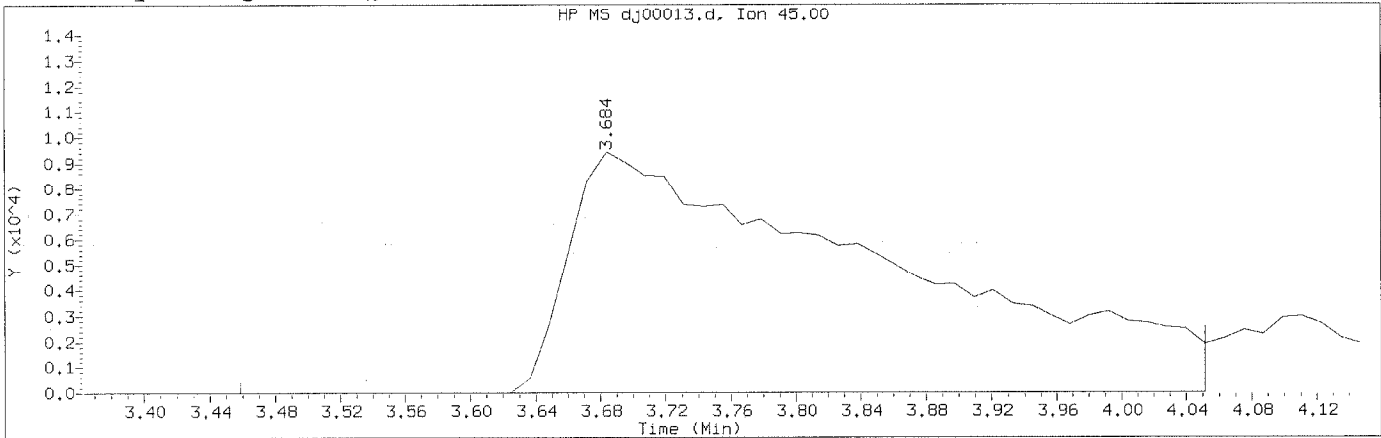
* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:41.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00013.d
Injection date and time: 01-OCT-2015 21:44

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:40

Sublist used: all

Date, time and analyst ID of latest file update: 02-Oct-2015 10:40 jbs01304

Sample Name: LCSDD86

Lab Sample ID: LCSDD86

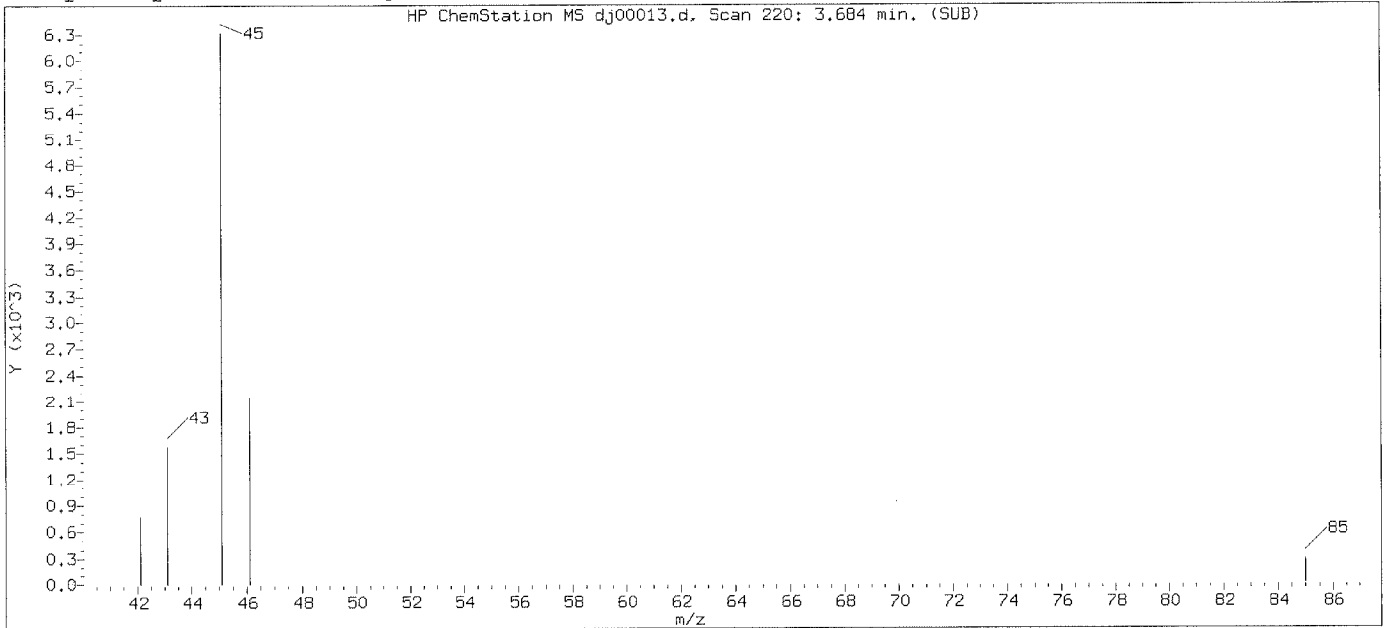
Compound Number : 14
Compound Name : Ethanol
Scan Number : 220
Retention Time (minutes): 3.684
Quant Ion : 45.00
Area (flag) : 128260M
Concentration (ppb(v)) : 5.7150
Integration start scan : 200 Integration stop scan: 250
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

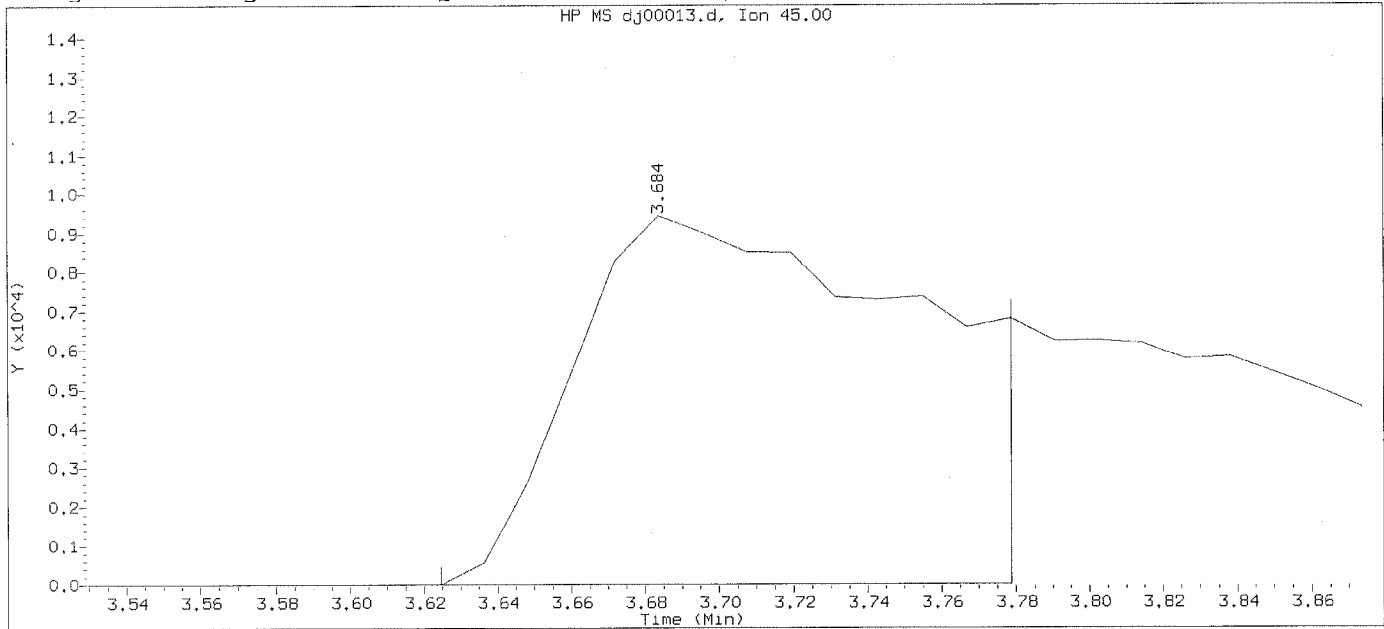
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omny in 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00013.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 21:44

Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 18:46

Date, time and analyst ID of latest file update: 01-Oct-2015 22:25 Automation

Sample Name: LCSDD86

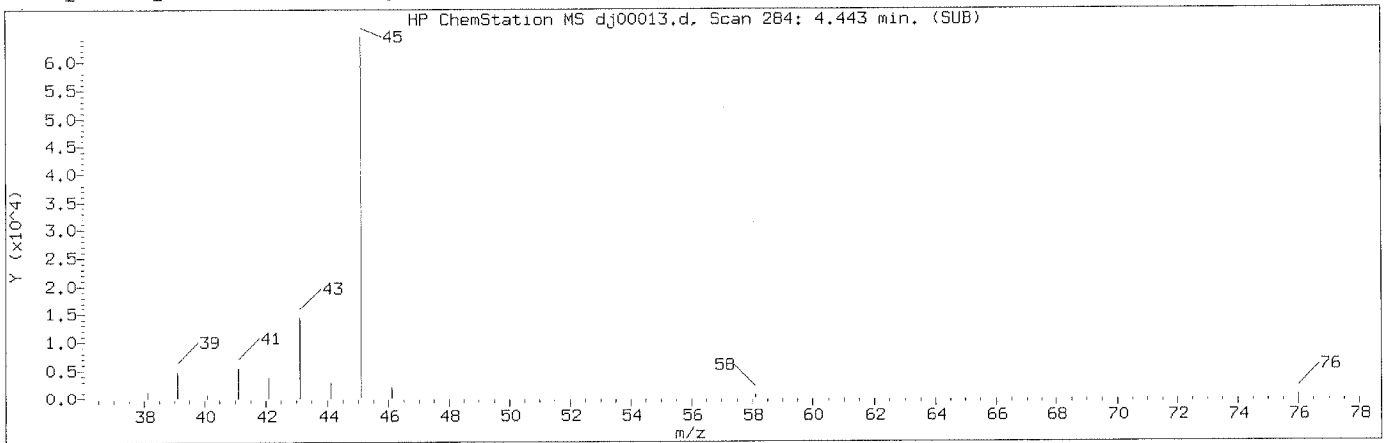
Lab Sample ID: LCSDD86

Compound Number : 14
Compound Name : Ethanol
Scan Number : 220
Retention Time (minutes): 3.684
Quant Ion : 45.00
Area : 60054
Concentration (ppb(v)) : 2.6759
Integration start scan : 214
Y at integration start : 0

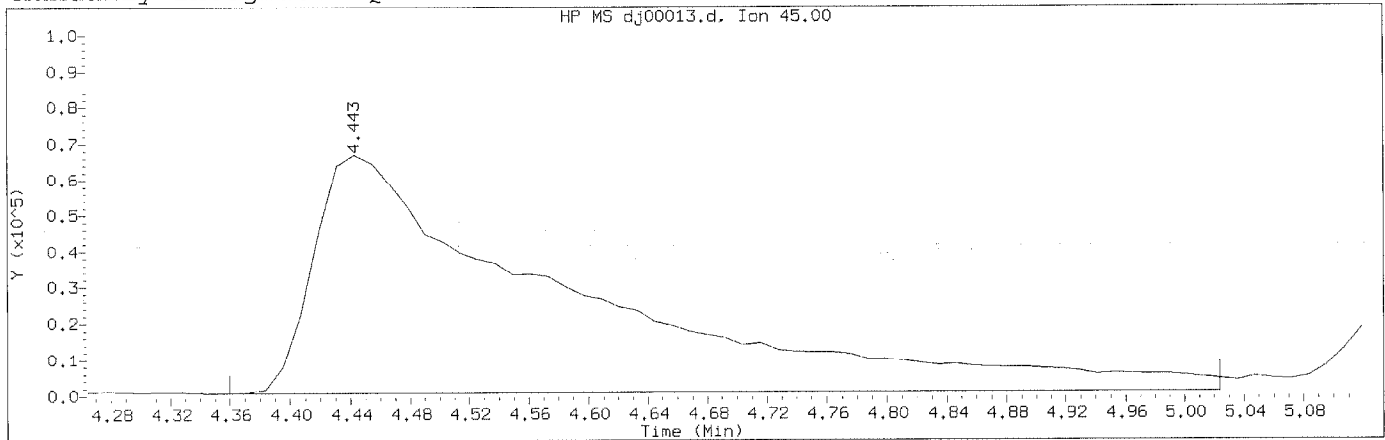
Integration stop scan: 227
Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00013.d
Injection date and time: 01-OCT-2015 21:44

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:40
Date, time and analyst ID of latest file update: 02-Oct-2015 10:40 jbs01304

Sublist used: all

Sample Name: LCSDD86

Lab Sample ID: LCSDD86

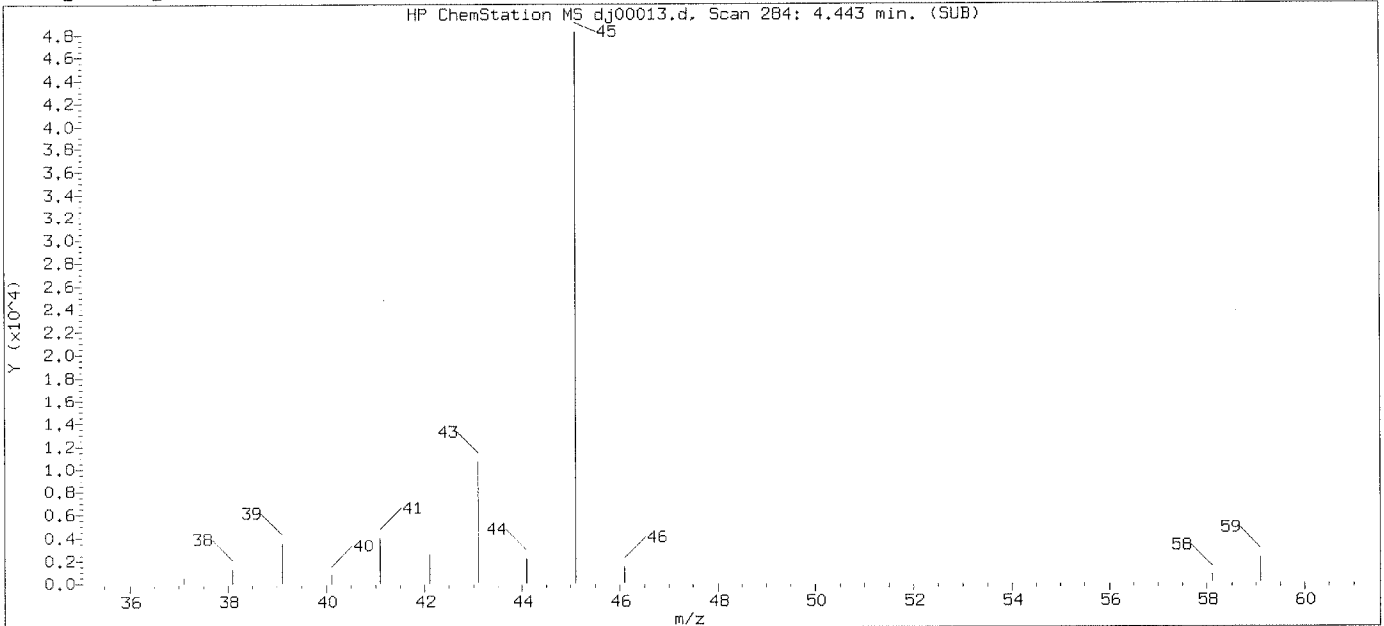
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 284
Retention Time (minutes): 4.443
Quant Ion : 45.00
Area (flag) : 781072M
Concentration (ppb(v)) : 8.7193
Integration start scan : 276 Integration stop scan: 332
Y at integration start : 804 Y at integration end: 804

Reason for manual integration: improper integration

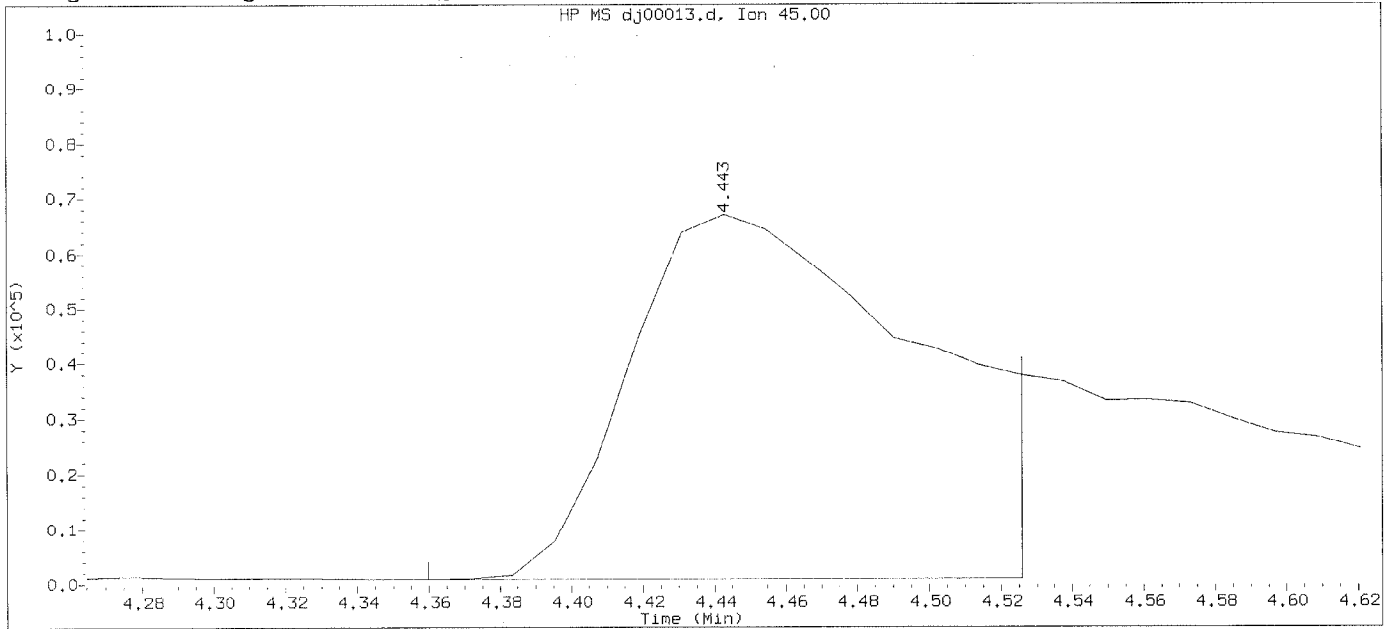
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Ommy 12 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00013.d
 Injection date and time: 01-OCT-2015 21:44

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 18:46
 Date, time and analyst ID of latest file update: 01-Oct-2015 22:25 Automation

Sublist used: all

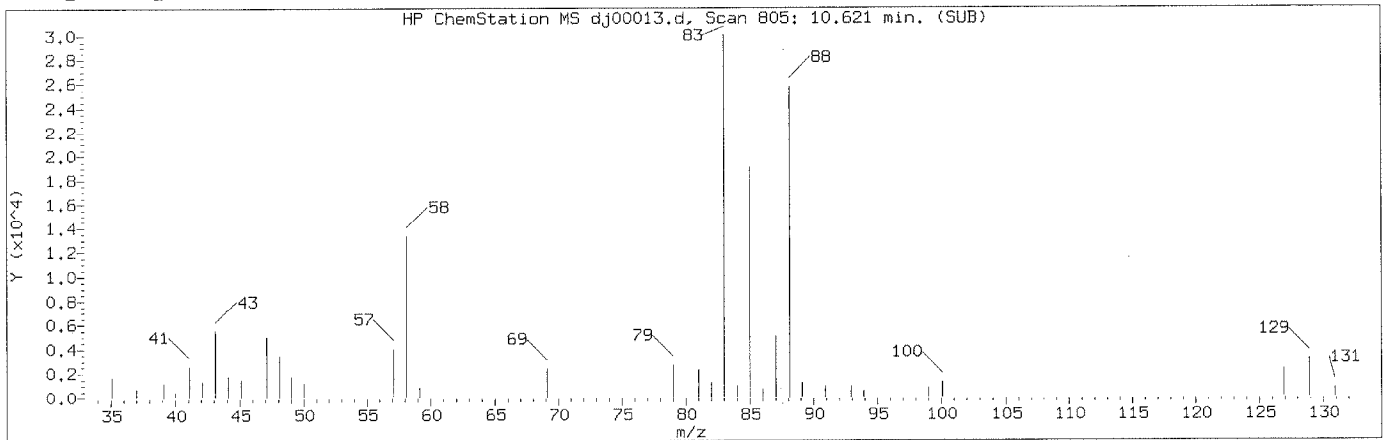
Sample Name: LCSDD86

Lab Sample ID: LCSDD86

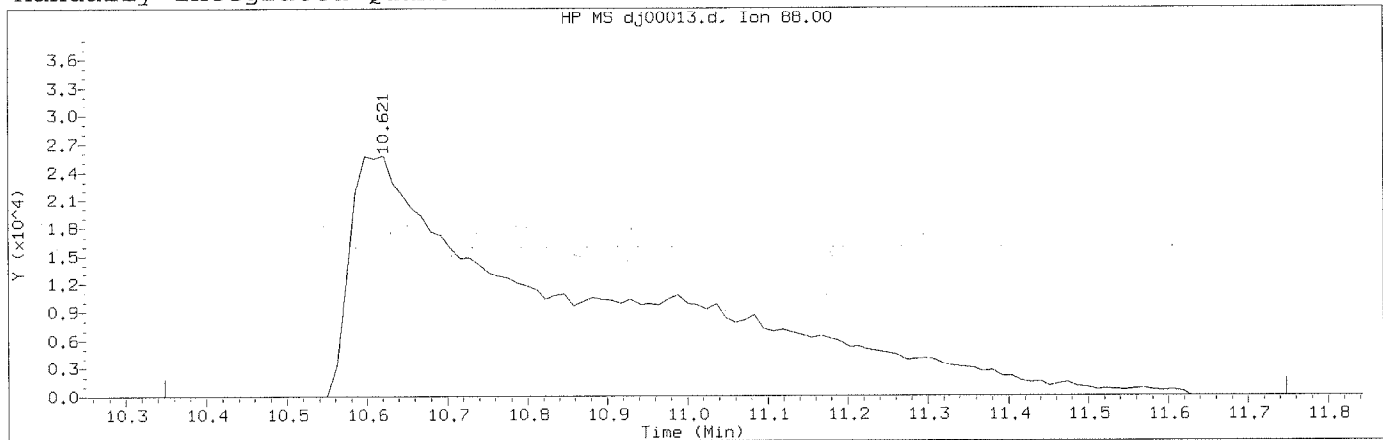
Compound Number	: 22		
Compound Name	: Isopropanol		
Scan Number	: 284		
Retention Time (minutes)	: 4.443		
Quant Ion	: 45.00		
Area	: 369311		
Concentration (ppb(v))	: 4.1227		
Integration start scan	: 276	Integration stop scan:	290
Y at integration start	: 795	Y at integration end:	795

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:41.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00013.d Instrument ID: HP10145.i
Injection date and time: 01-OCT-2015 21:44 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 02-OCT-2015 10:40
Date, time and analyst ID of latest file update: 02-Oct-2015 10:40 jbs01304

Sample Name: LCSDD86 Lab Sample ID: LCSDD86

Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 805
Retention Time (minutes): 10.621
Quant Ion : 88.00
Area (flag) : 521882M
Concentration (ppb(v)) : 9.4406
Integration start scan : 781 Integration stop scan: 899
Y at integration start : 0 Y at integration end: 0

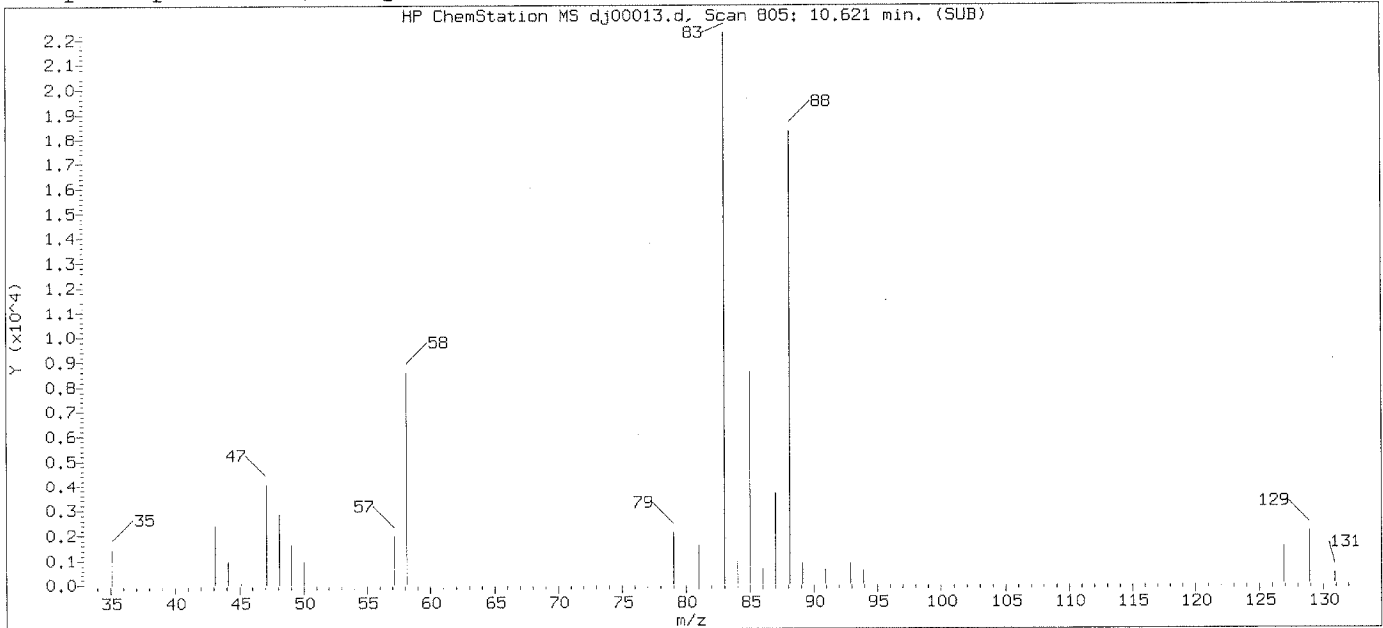
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304

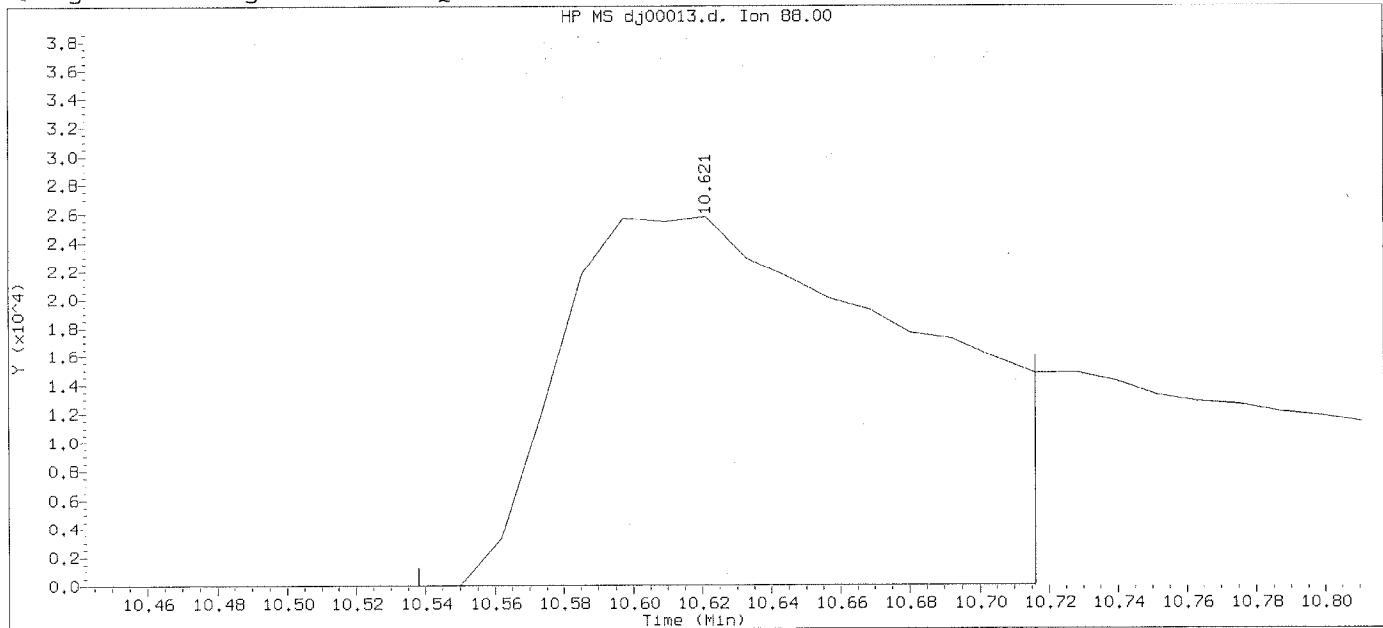
GC/MS audit/management approval: _____

Ommy 1/12 10/15/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00013.d

Instrument ID: HP10145.i

Injection date and time: 01-OCT-2015 21:44

Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 18:46

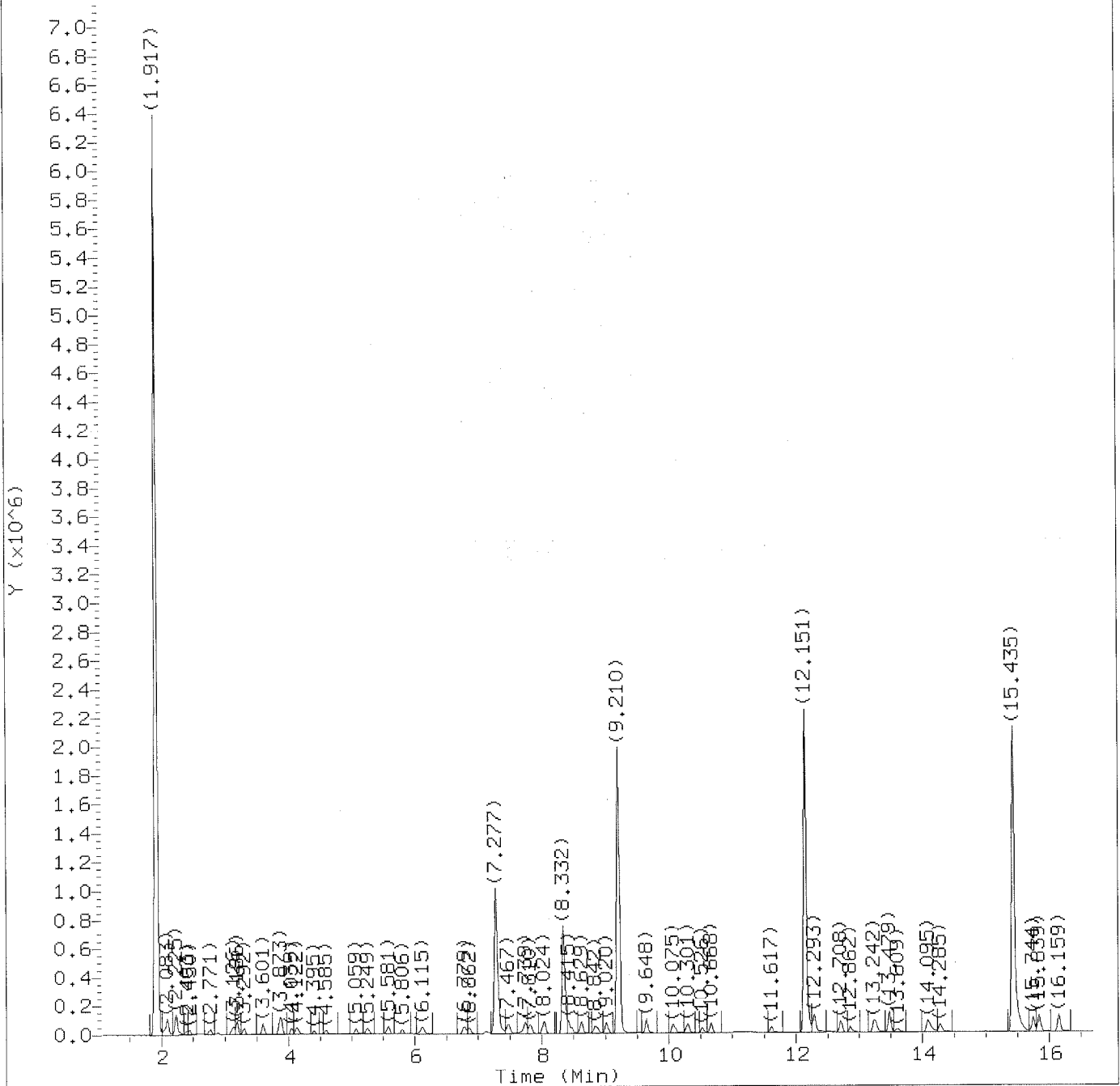
Date, time and analyst ID of latest file update: 01-Oct-2015 22:25 Automation

Sample Name: LCSDD86

Lab Sample ID: LCSDD86

Compound Number	: 56		
Compound Name	: 1,4-Dioxane		
Scan Number	: 805		
Retention Time (minutes)	: 10.621		
Quant Ion	: 88.00		
Area	: 181937		
Concentration (ppb(v))	: 3.2912		
Integration start scan	: 797	Integration stop scan:	812
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:41.
Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00016.d
Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:51
Date, time and analyst ID of latest file update: 02-Oct-2015 10:53 jbs01304

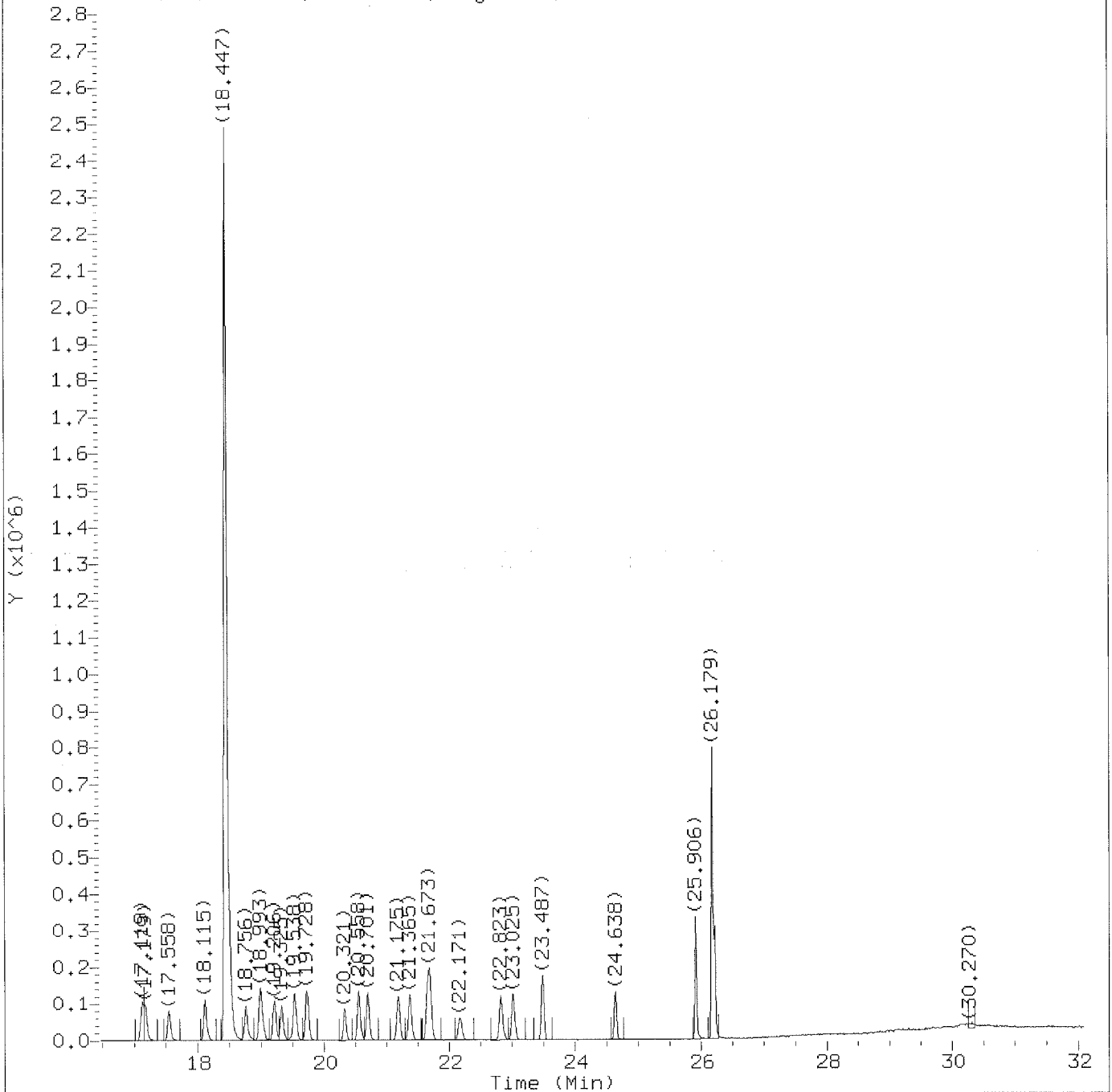
Sublist used: all

Sample Name: MDL0.5

Lab Sample ID: MDL0.5

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:56.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00016.d

Instrument ID: HP10145.i

Injection date and time: 02-OCT-2015 00:01

Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 02-OCT-2015 10:51

Date, time and analyst ID of latest file update: 02-Oct-2015 10:53 jbs01304

Sample Name: MDL0.5

Lab Sample ID: MDL0.5

Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:56.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00016.d
 Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 02-OCT-2015 10:51

Sublist used: all

Date, time and analyst ID of latest file update: 02-Oct-2015 10:53 jbs01304

Sample Name: MDL0.5

Lab Sample ID: MDL0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	15611	0.503
2) Dichlorodifluoromethane	(1)	2.083	85	110875	0.501
3) Chlorodifluoromethane	(1)	2.106	51	37540	0.485
4) Freon 114	(1)	2.225	85	84875	0.475
5) Chloromethane	(1)	2.272	52	6585	0.470
6) Vinyl Chloride	(1)	2.403	62	27251	0.500
7) 1,3-Butadiene	(1)	2.450	54	15966	0.444
8) Bromomethane	(1)	2.771	94	32056	0.463
9) Chloroethane	(1)	2.889	64	13107	0.430
10) Bromoethene	(1)	3.103	106	32534	0.480
11) Dichlorofluoromethane	(1)	3.126	67	61120	0.470
12) Trichlorofluoromethane	(1)	3.186	101	110898	0.482
13) Pentane	(1)	3.292	43	35205	0.492
15) Freon123a	(1)	3.601	67	54148	0.481
14) Ethanol	(1)	3.838	45	6172M	0.308
17) 1,1-Dichloroethene	(1)	3.850	61	43171	0.463
16) Acrolein	(1)	3.873	56	5113M	0.339
18) Freon 113	(1)	3.885	103	45679	0.448
20) Methyl Iodide	(1)	4.039	142	77948	0.487
21) Carbon Disulfide	(1)	4.122	76	104975	0.613
19) Acetone	(1)	4.134	43	41376M	0.606
24) 3-Chloropropene	(1)	4.395	76	12612	0.451
23) Acetonitrile	(1)	4.419	40	4440	0.232
25) Methylene Chloride	(1)	4.597	84	25352	0.509
22) Isopropanol	(1)	4.692	45	46988M	0.587
28) trans-1,2-Dichloroethene	(1)	5.059	61	36936	0.473
27) Acrylonitrile	(1)	5.154	53	14632M	0.578
29) Methyl t-Butyl Ether	(1)	5.237	73	83820M	0.452
26) tert-Butyl Alcohol	(1)	5.451	59	63249M	0.493
30) Hexane	(1)	5.581	57	42811	0.516
31) 1,1-Dichloroethane	(1)	5.794	63	49000	0.457
32) Vinyl Acetate	(1)	6.067	86	3378	0.215
33) Di-Isopropyl Ether	(1)	6.115	45	61748	0.422
36) 1,2-Dichloroethene (total)	(1)		61	73396	0.945
34) Ethyl Tert-Butyl Ether	(1)	6.779	59	78502	0.393
35) cis-1,2-Dichloroethene	(1)	6.862	61	36460	0.472
37) 2-Butanone	(1)	7.123	72	13041M	0.458
38) Ethyl Acetate	(1)	7.241	70	7571	0.407

M = Compound was manually integrated.

Digitally signed by Jeffrey B. Smith
 on 10/02/2015 at 10:56.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00016.d
 Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 02-OCT-2015 10:51

Sublist used: all

Date, time and analyst ID of latest file update: 02-Oct-2015 10:53 jbs01304

Sample Name: MDL0.5

Lab Sample ID: MDL0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.241	55	33508	0.415
40) *Bromochloromethane	(1)	7.277	130	771719	10.000
42) Chloroform	(1)	7.467	83	71817	0.459
41) Tetrahydrofuran	(1)	7.680	42	17378M	0.392
43) 1,1,1-Trichloroethane	(1)	7.739	97	87430	0.452
44) Cyclohexane	(1)	7.810	56	40338	0.462
45) Carbon Tetrachloride	(1)	8.036	117	93040	0.460
46) Benzene	(2)	8.415	78	99325	0.499
47) 1,2-Dichloroethane	(2)	8.474	62	45736	0.473
48) Isooctane	(2)	8.629	57	123621	0.469
49) Tert-Amyl Methyl Ether	(2)	8.854	73	88113M	0.433
50) Heptane	(2)	9.020	43	42601	0.539
51) *1,4-Difluorobenzene	(2)	9.210	114	2952415	10.000
52) Trichloroethene	(2)	9.648	130	55861	0.522
54) 1,2-Dichloropropane	(2)	10.075	63	28089	0.481
53) Ethyl Acrylate	(2)	10.099	55	42678	0.406
55) Dibromomethane	(2)	10.301	174	52534	0.484
57) Methyl Methacrylate	(2)	10.526	69	27108	0.426
58) Bromodichloromethane	(2)	10.668	83	77566	0.469
56) 1,4-Dioxane	(2)	11.060	88	23107M	0.471
59) cis-1,3-Dichloropropene	(2)	11.617	75	43346	0.424
60) 4-Methyl-2-Pentanone	(2)	12.186	43	63934M	0.602
61) Toluene	(3)	12.293	91	140220	0.536
62) Octane	(3)	12.708	43	47316	0.453
63) trans-1,3-Dichloropropene	(3)	12.862	75	46670	0.450
64) 1,3-Dichloropropene (total)	(3)		75	90016	0.874
66) 1,1,2-Trichloroethane	(3)	13.242	97	47216	0.532
65) Ethyl Methacrylate	(3)	13.265	69	42535	0.397
67) Tetrachloroethene	(3)	13.479	166	89654	0.486
69) Dibromochloromethane	(3)	14.084	127	63655	0.453
68) 2-Hexanone	(3)	14.131	43	63864M	0.685
70) 1,2-Dibromoethane	(3)	14.285	107	74267	0.520
71) *Chlorobenzene-d5	(3)	15.435	117	2638815	10.000
72) Chlorobenzene	(3)	15.495	112	123190	0.565
73) 1,1,1,2-Tetrachloroethane	(3)	15.744	131	57379	0.453
74) Ethylbenzene	(3)	15.850	91	176091	0.508
75) m/p-Xylene	(3)	16.159	91	161057	0.524
76) o-Xylene	(3)	17.119	91	146325	0.503

M = Compound was manually integrated.
 * = Compound is an internal standard.

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 on 10/02/2015 at 10:56.
 Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct01.b/dj00016.d
 Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 02-OCT-2015 10:51

Sublist used: all

Date, time and analyst ID of latest file update: 02-Oct-2015 10:53 jbs01304

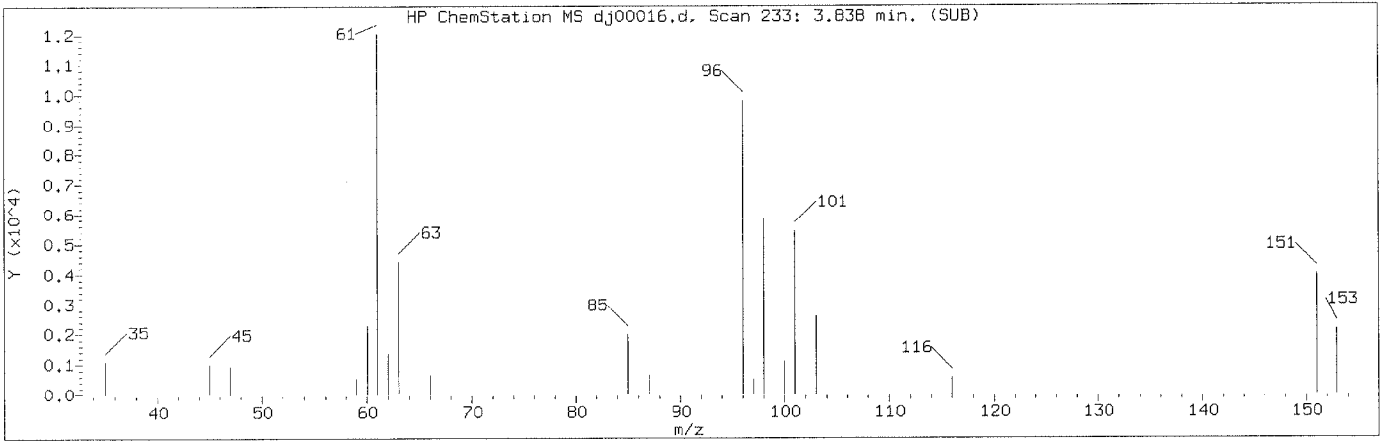
Sample Name: MDL0.5

Lab Sample ID: MDL0.5

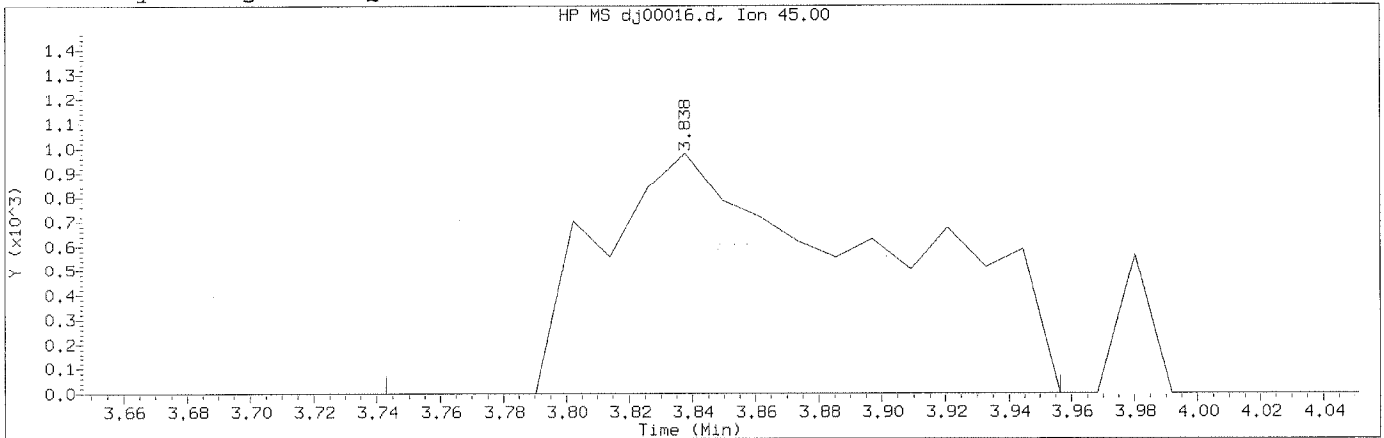
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.179	104	113087	0.512
77) Xylene (total)	(3)		91	307382	1.027
79) Bromoform	(3)	17.558	173	91643	0.479
80) Cumene	(3)	18.115	105	183818	0.434
81) Bromobenzene	(3)	18.756	156	67373	0.501
82) 1,1,2,2-Tetrachloroethane	(3)	18.981	83	100102	0.575
83) 1,2,3-Trichloropropane	(3)	19.005	110	30092	0.466
84) n-Propylbenzene	(3)	19.206	120	48174	0.406
85) 2-Chlorotoluene	(3)	19.325	126	44209	0.454
86) 4-Ethyltoluene	(3)	19.538	105	199143	0.478
87) 1,3,5-Trimethylbenzene	(3)	19.728	105	187565	0.497
88) Alpha Methyl Styrene	(3)	20.321	118	63736	0.398
89) tert-Butylbenzene	(3)	20.558	119	165518	0.444
90) 1,2,4-Trimethylbenzene	(3)	20.701	105	185069	0.514
91) sec-Butylbenzene	(3)	21.187	105	219564	0.448
92) 1,3-Dichlorobenzene	(3)	21.365	146	147202	0.683
93) 1,4-Dichlorobenzene	(3)	21.661	146	150698	0.716
94) p-Isopropyltoluene	(3)	21.685	119	199005	0.466
95) Benzyl Chloride	(3)	22.171	91	128251	0.541
96) 1,2-Dichlorobenzene	(3)	22.823	146	142309	0.692
97) n-Butylbenzene	(3)	23.025	91	168161	0.511
98) Hexachloroethane	(3)	23.475	117	59846	0.523
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	67110	0.558
100) 1,2,4-Trichlorobenzene	(3)	25.906	180	153974	1.012
101) Hexachlorobutadiene	(3)	26.179	225	211293	0.872
102) Naphthalene	(3)	26.215	128	325634	1.289

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 on 10/02/2015 at 10:56.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d Instrument ID: HP10145.i
Injection date and time: 02-OCT-2015 00:01 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 02-OCT-2015 10:51
Date, time and analyst ID of latest file update: 02-Oct-2015 10:53 jbs01304

Sample Name: MDL0.5 Lab Sample ID: MDL0.5

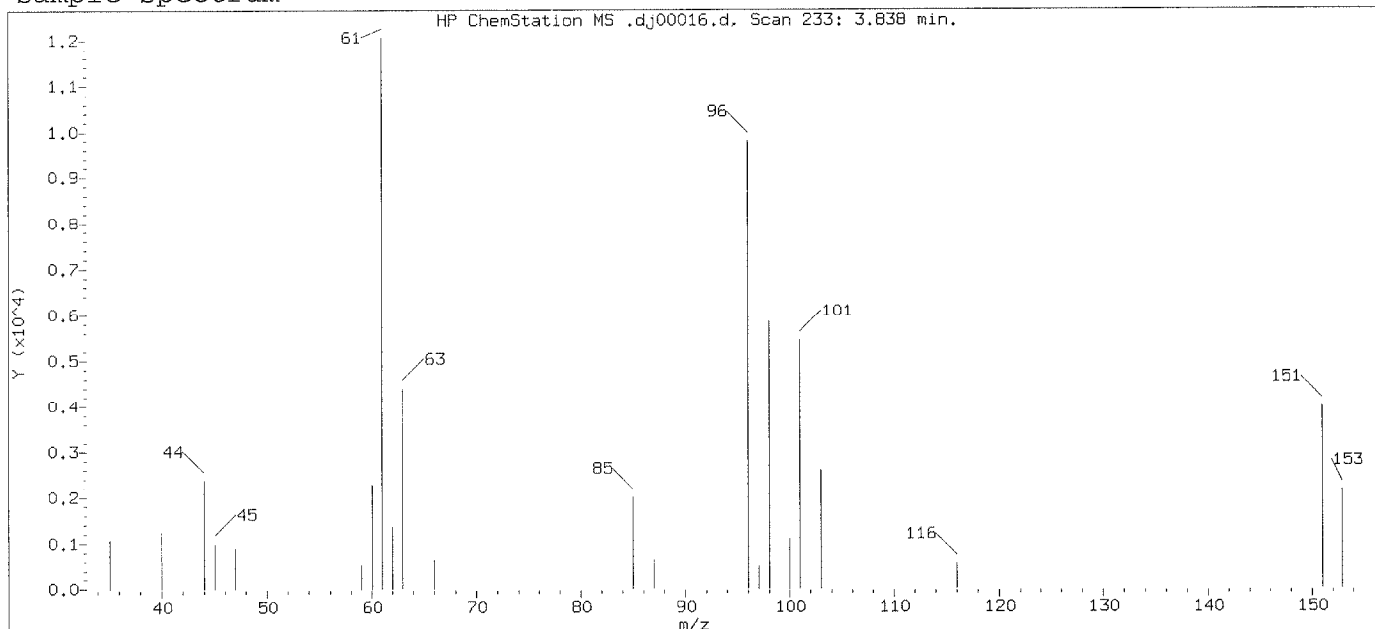
Compound Number : 14
Compound Name : Ethanol
Scan Number : 233
Retention Time (minutes): 3.838
Quant Ion : 45.00
Area (flag) : 6172M
Concentration (ppb(v)) : 0.3079
Integration start scan : 224 Integration stop scan: 242
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: missed peak

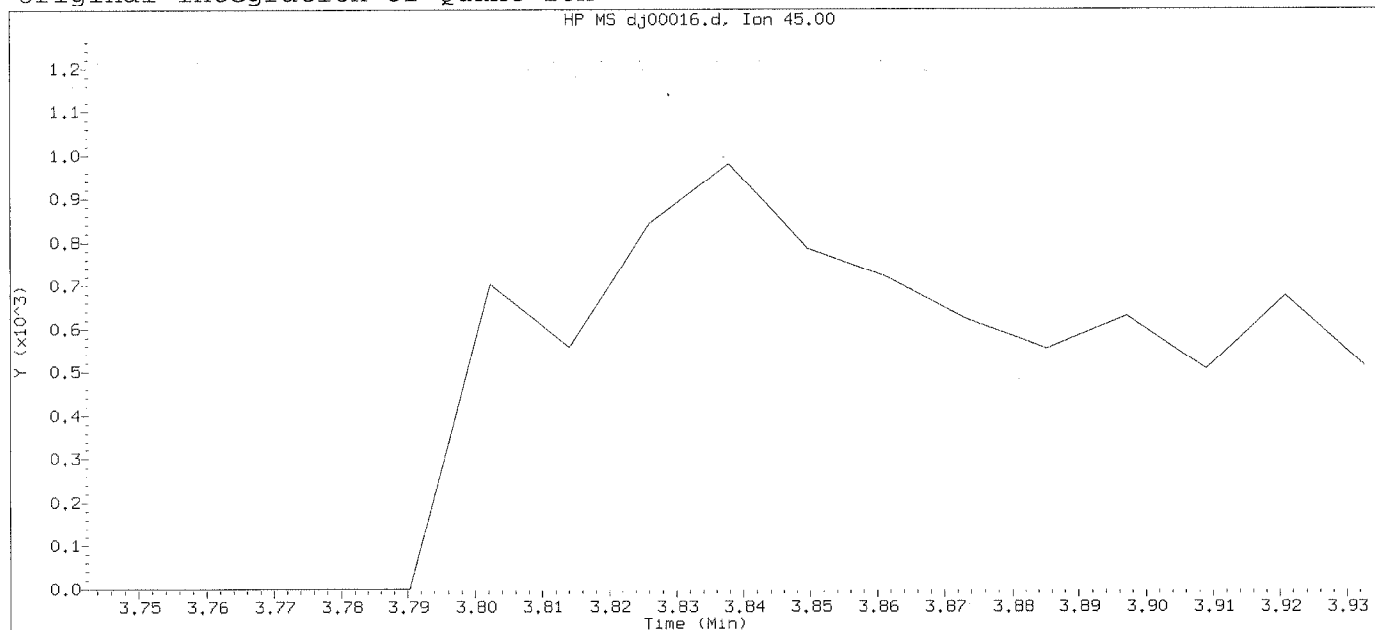
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Ommyrn 10/5/15

Sample Spectrum



Original Integration of Quant Ion



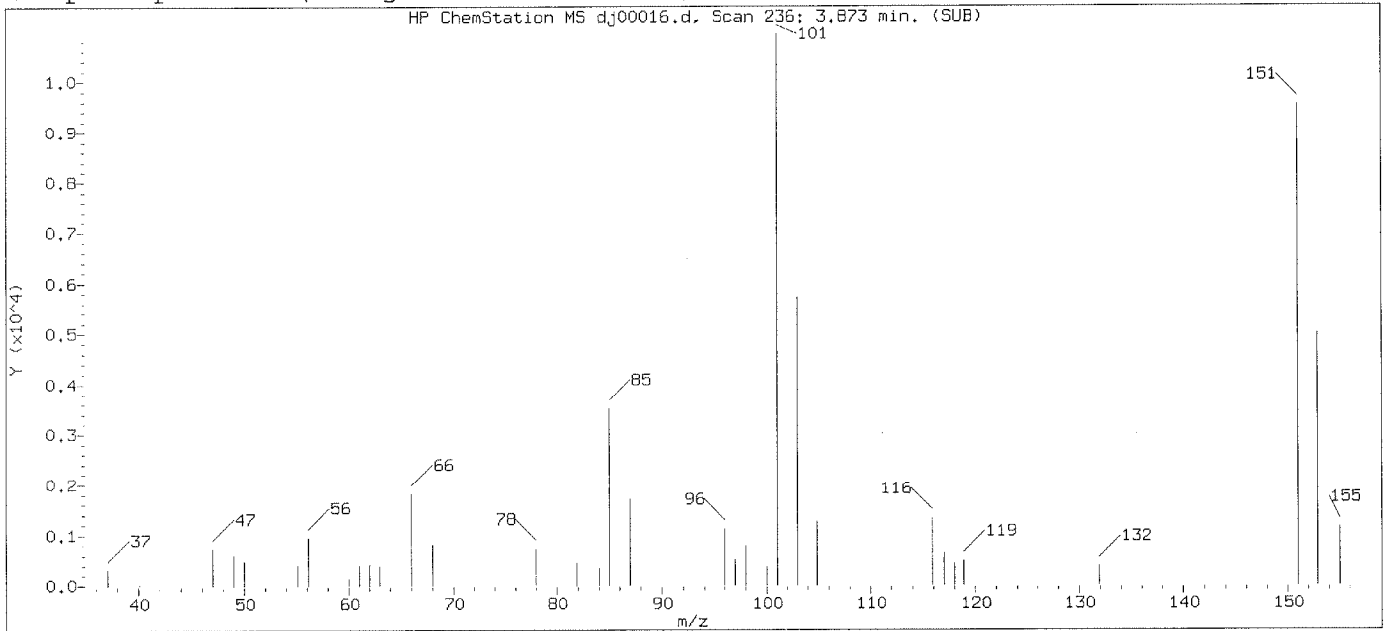
Data File: /chem/HP10145.i/15oct01.b/dj00016.d Instrument ID: HP10145.i
Injection date and time: 02-OCT-2015 00:01 Analyst ID: jeb07445
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 18:46
Date, time and analyst ID of latest file update: 02-Oct-2015 00:42 Automation

Sample Name: MDL0.5 Lab Sample ID: MDL0.5

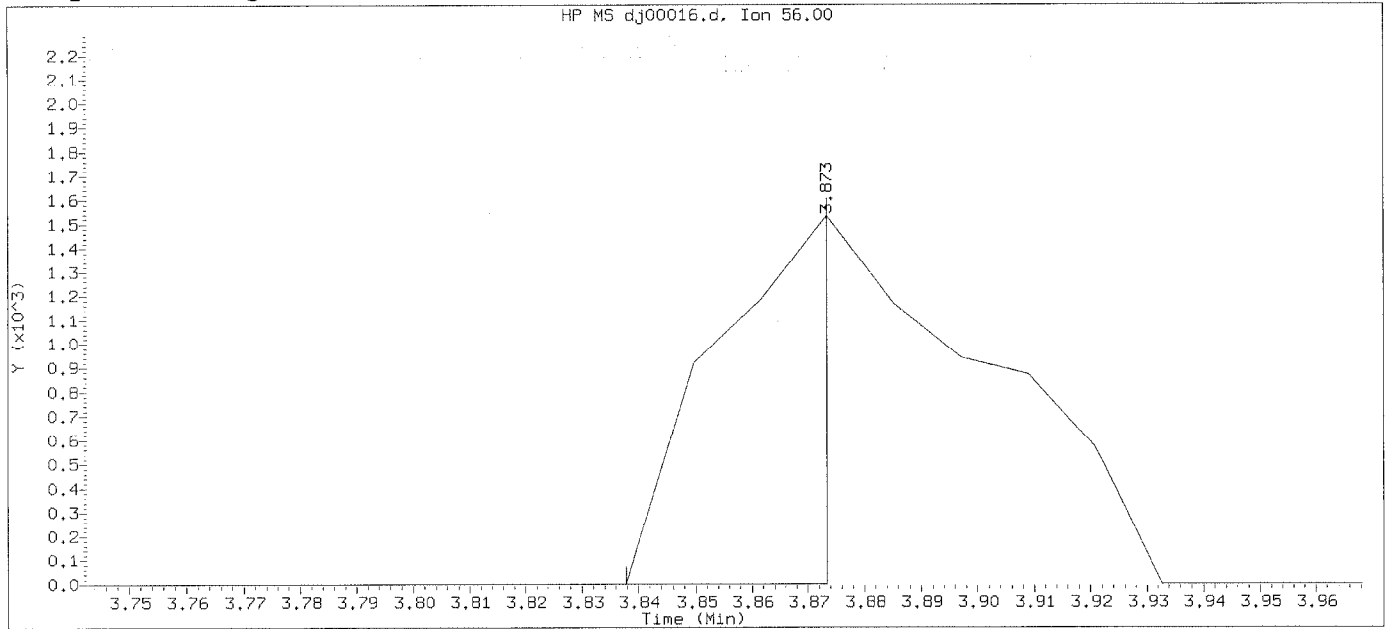
Compound Number : 14
Compound Name : Ethanol
Expected RT (minutes) : 3.838
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d
Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 18:46
Date, time and analyst ID of latest file update: 02-Oct-2015 00:42 Automation

Sublist used: all

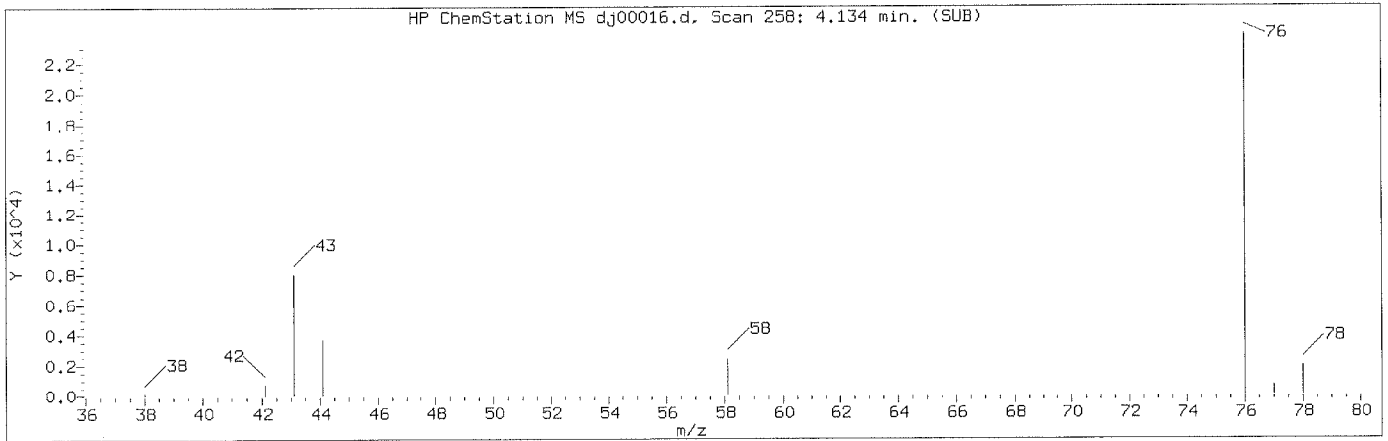
Sample Name: MDL0.5

Lab Sample ID: MDL0.5

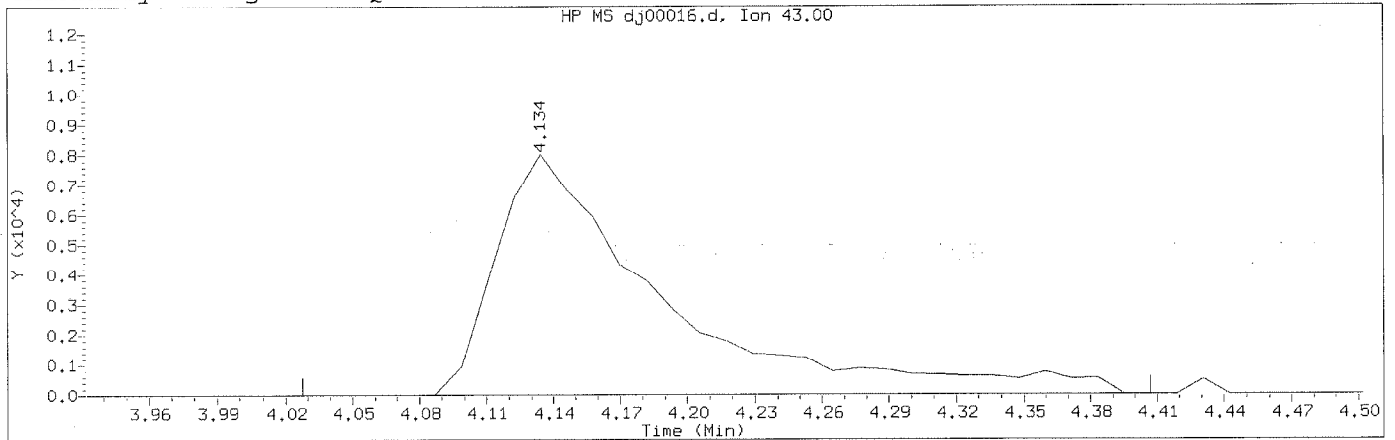
Compound Number	: 16		
Compound Name	: Acrolein		
Scan Number	: 236		
Retention Time (minutes)	: 3.873		
Quant Ion	: 56.00		
Area	: 2041		
Concentration (ppb(v))	: 0.1353		
Integration start scan	: 232	Integration stop scan:	235
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d
Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:51
Date, time and analyst ID of latest file update: 02-Oct-2015 10:53 jbs01304

Sublist used: all

Sample Name: MDL0.5

Lab Sample ID: MDL0.5

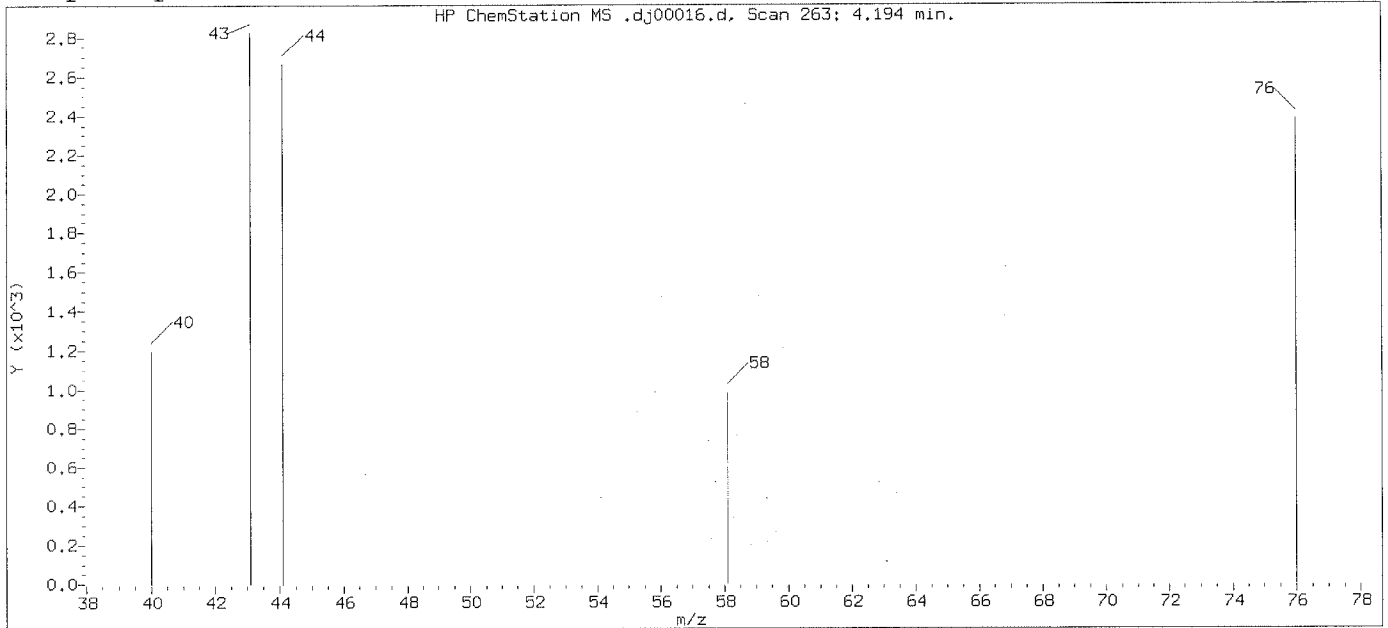
Compound Number	: 19	
Compound Name	: Acetone	
Scan Number	: 258	
Retention Time (minutes)	: 4.134	
Quant Ion	: 43.00	
Area (flag)	: 41376M	
Concentration (ppb(v))	: 0.6059	
Integration start scan	: 248	Integration stop scan: 280
Y at integration start	: 0	Y at integration end: 0

Reason for manual integration: missed peak

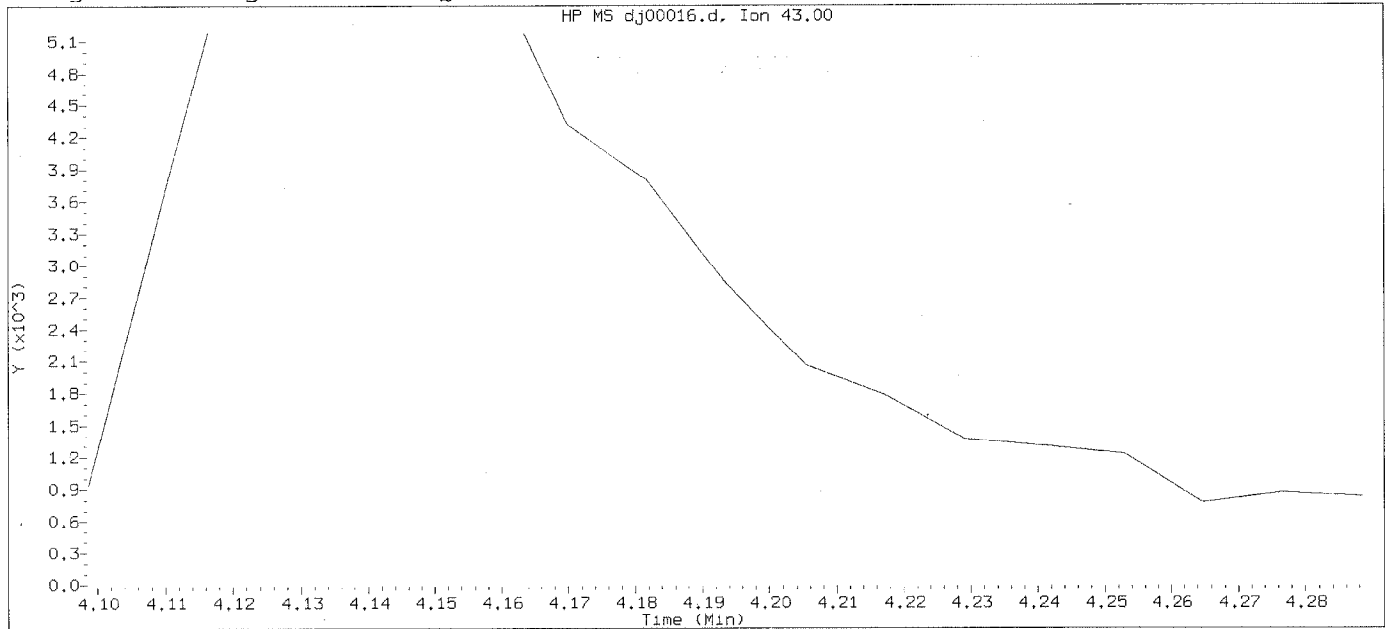
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omrym 10/5/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d

Instrument ID: HP10145.i

Injection date and time: 02-OCT-2015 00:01

Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m

Sublist used: all

Calibration date and time: 01-OCT-2015 18:46

Date, time and analyst ID of latest file update: 02-Oct-2015 00:42 Automation

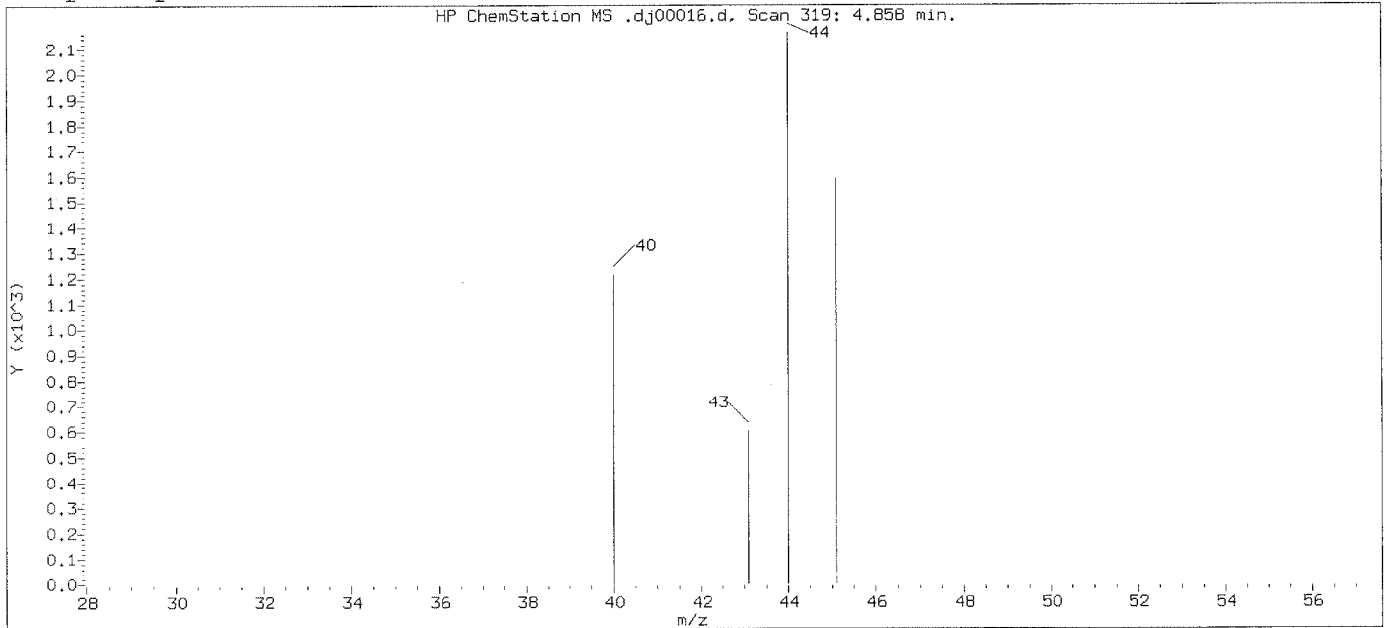
Sample Name: MDL0.5

Lab Sample ID: MDL0.5

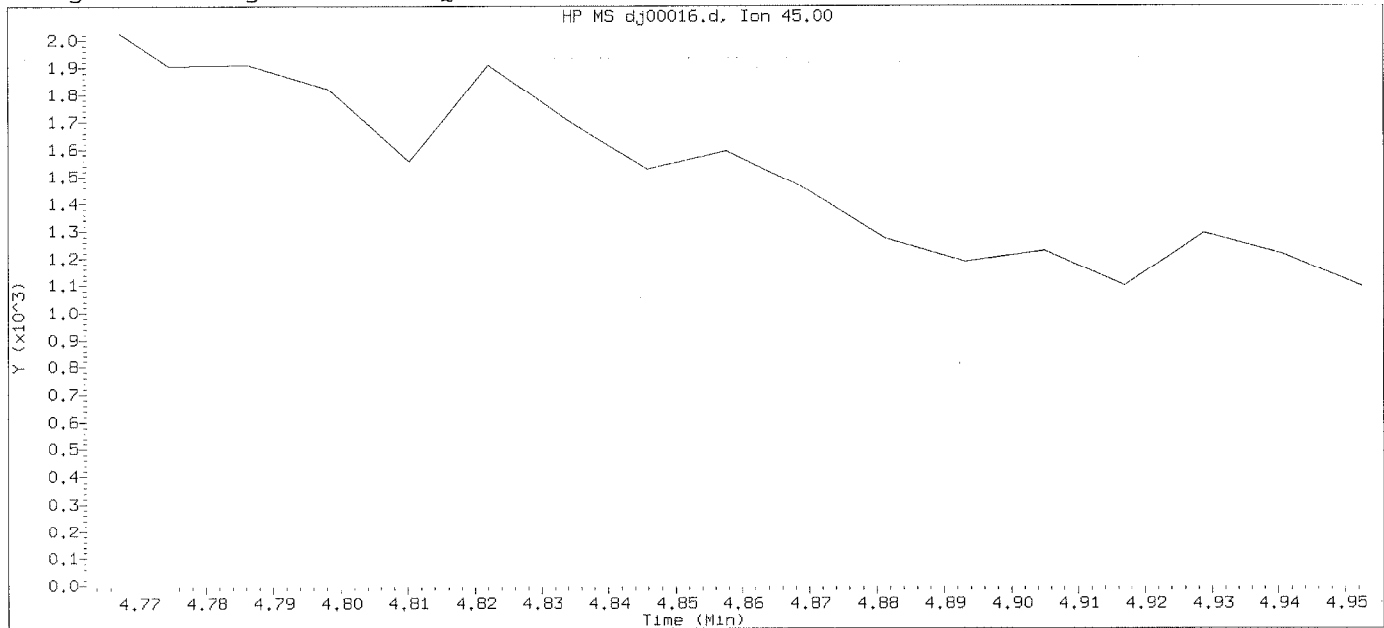
Compound Number : 19
Compound Name : Acetone
Expected RT (minutes) : 4.194
Quant Ion : 43.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum



Original Integration of Quant Ion



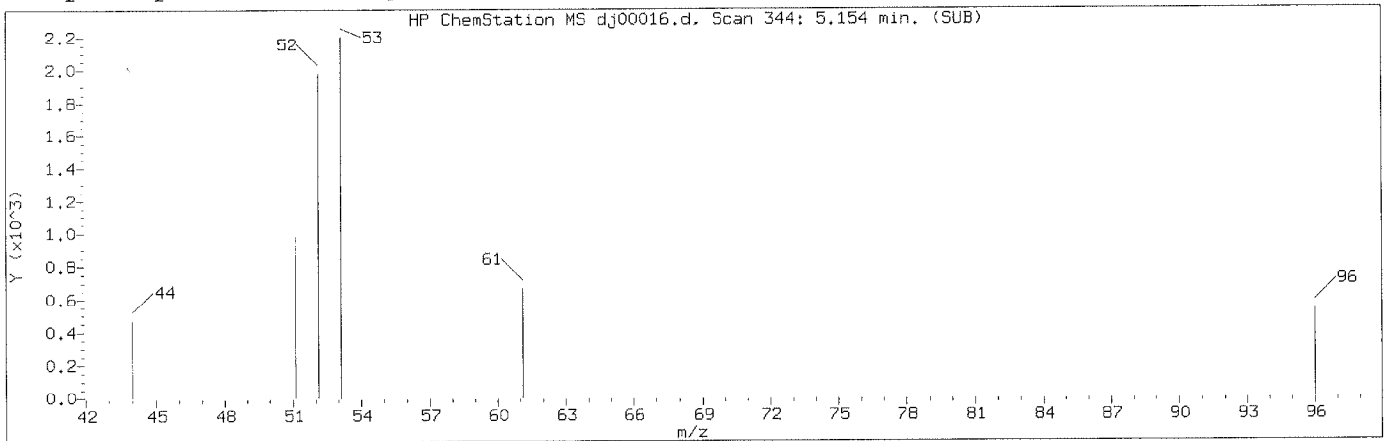
Data File: /chem/HP10145.i/15oct01.b/dj00016.d Instrument ID: HP10145.i
Injection date and time: 02-OCT-2015 00:01 Analyst ID: jeb07445
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 18:46
Date, time and analyst ID of latest file update: 02-Oct-2015 00:42 Automation

Sample Name: MDL0.5 Lab Sample ID: MDL0.5

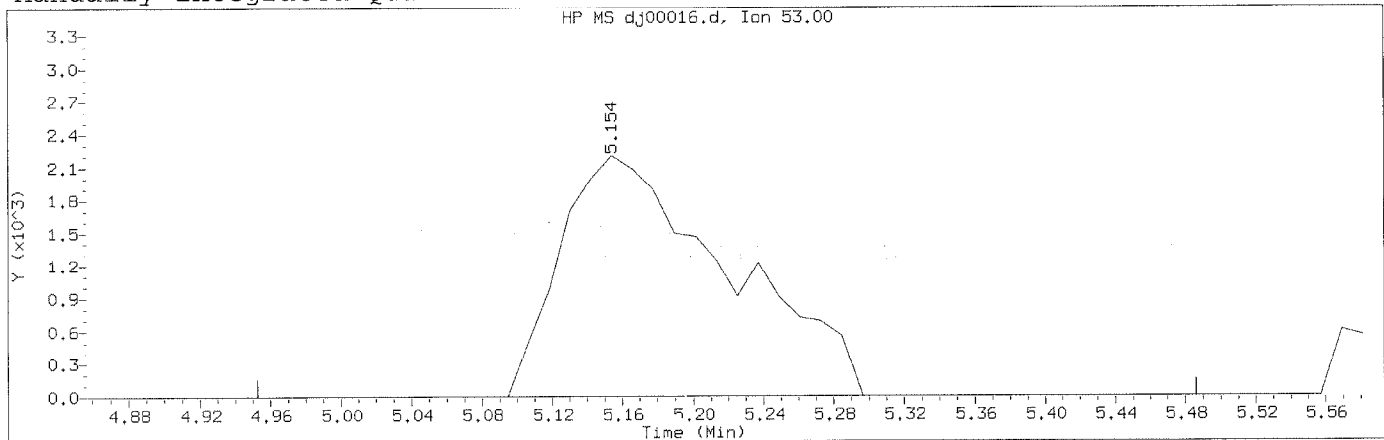
Compound Number : 22
Compound Name : Isopropanol
Expected RT (minutes) : 4.858
Quant Ion : 45.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d Instrument ID: HP10145.i
Injection date and time: 02-OCT-2015 00:01 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 02-OCT-2015 10:51
Date, time and analyst ID of latest file update: 02-Oct-2015 10:53 jbs01304

Sample Name: MDL0.5 Lab Sample ID: MDL0.5

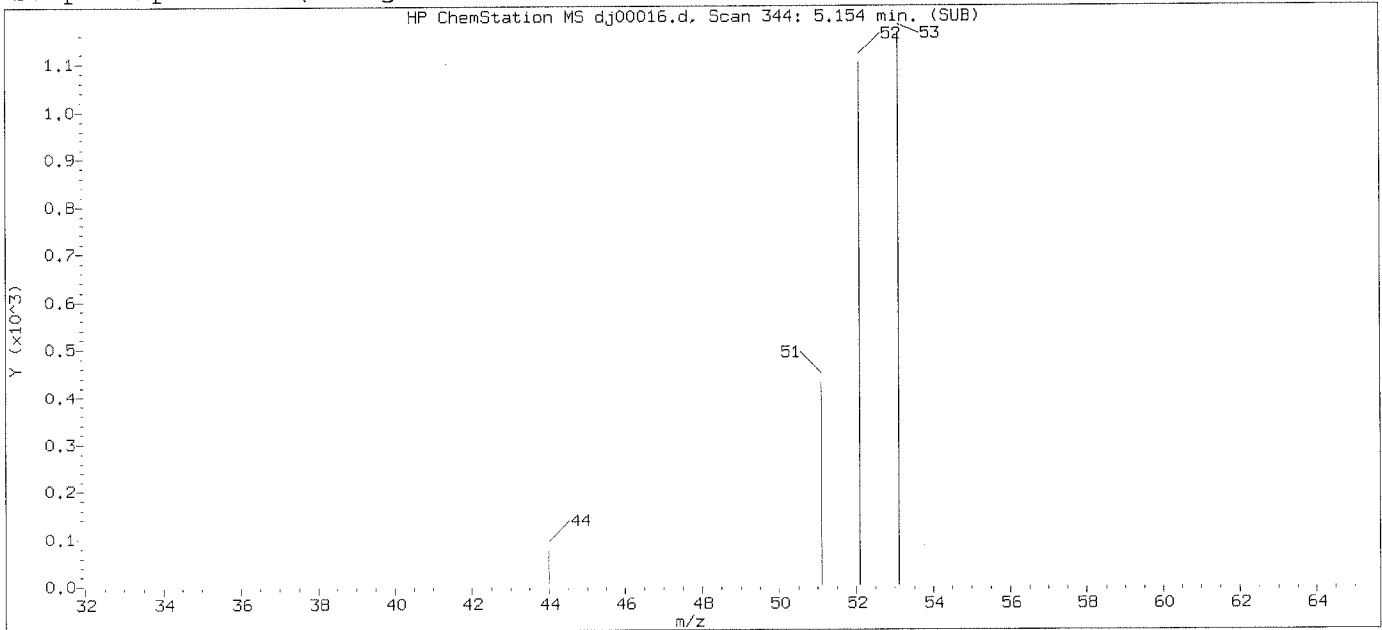
Compound Number : 27
Compound Name : Acrylonitrile
Scan Number : 344
Retention Time (minutes): 5.154
Quant Ion : 53.00
Area (flag) : 14632M
Concentration (ppb(v)) : 0.5775
Integration start scan : 326 Integration stop scan: 371
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

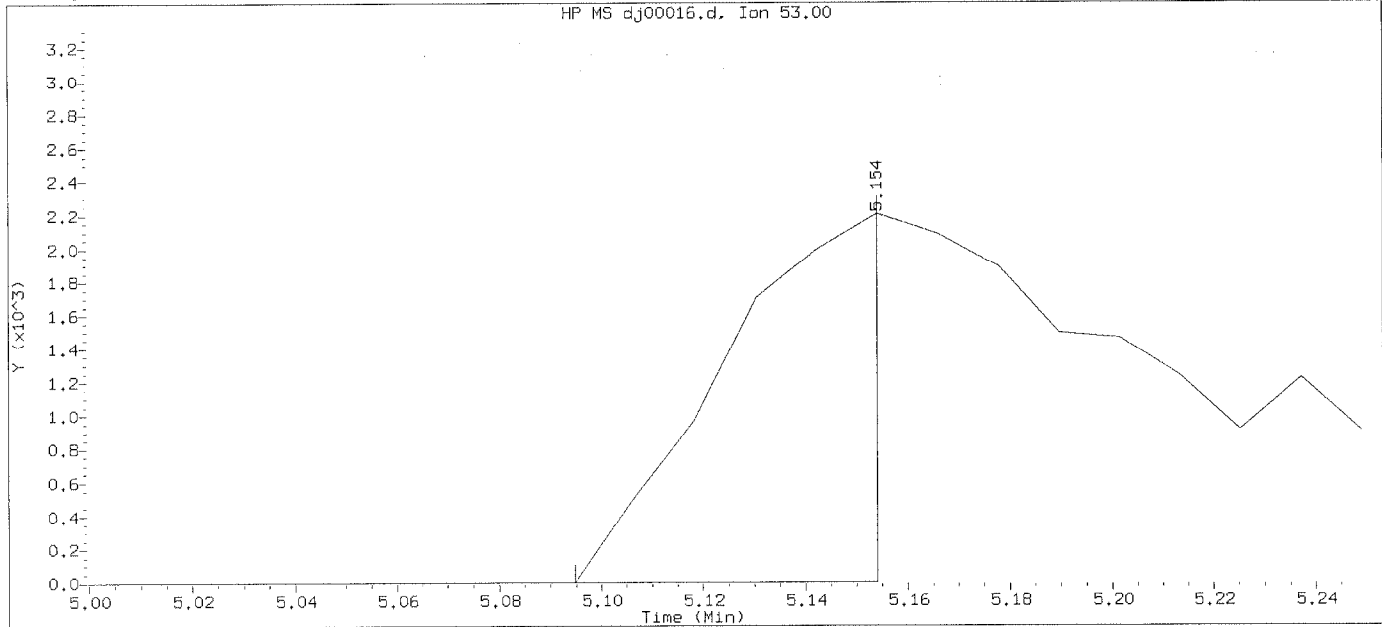
Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

GC/MS audit/management approval: Omrym 10/5/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d
Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 18:46
Date, time and analyst ID of latest file update: 02-Oct-2015 00:42 Automation

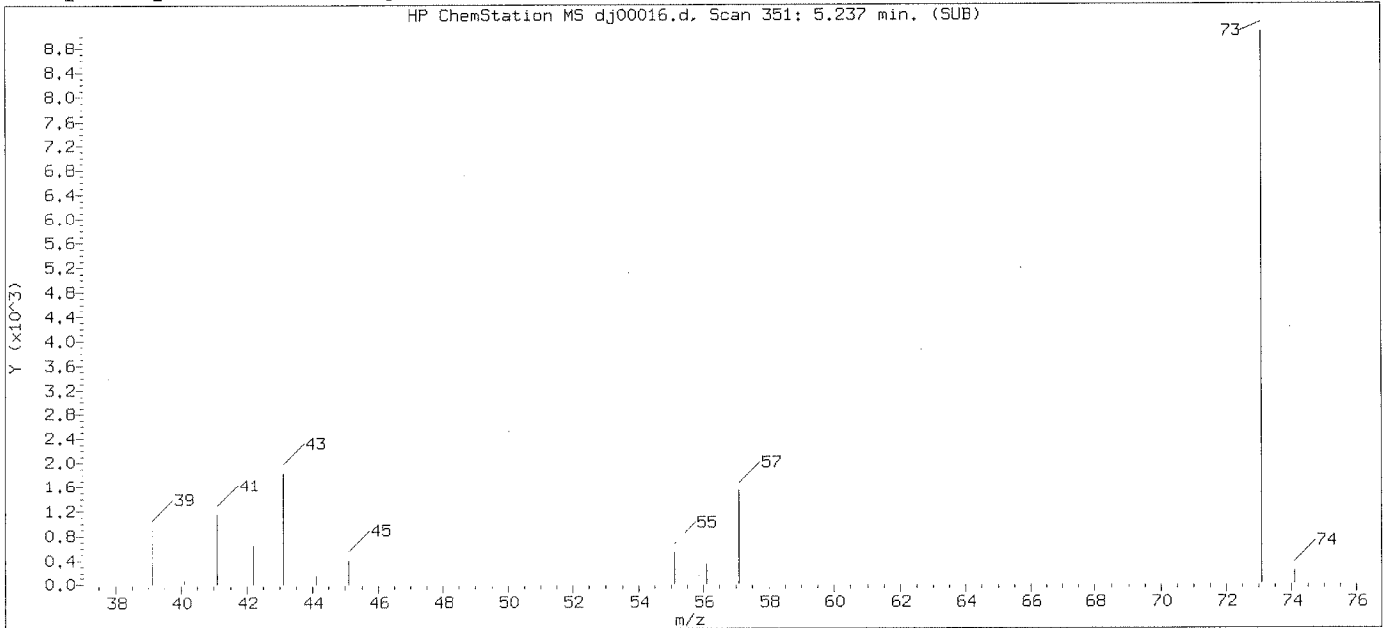
Sample Name: MDL0.5

Lab Sample ID: MDL0.5

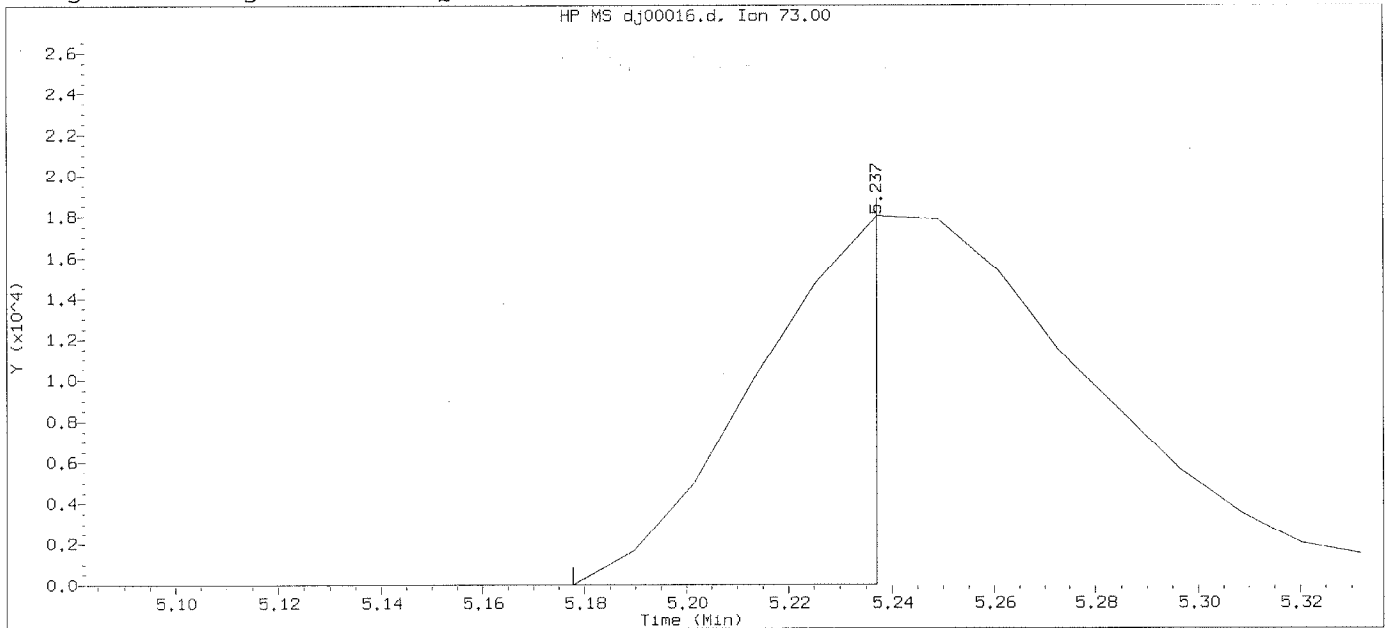
Compound Number : 27
Compound Name : Acrylonitrile
Scan Number : 344
Retention Time (minutes): 5.154
Quant Ion : 53.00
Area : 4475
Concentration (ppb(v)) : 0.1766
Integration start scan : 338 Integration stop scan: 343
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d
Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 18:46
Date, time and analyst ID of latest file update: 02-Oct-2015 00:42 Automation

Sublist used: all

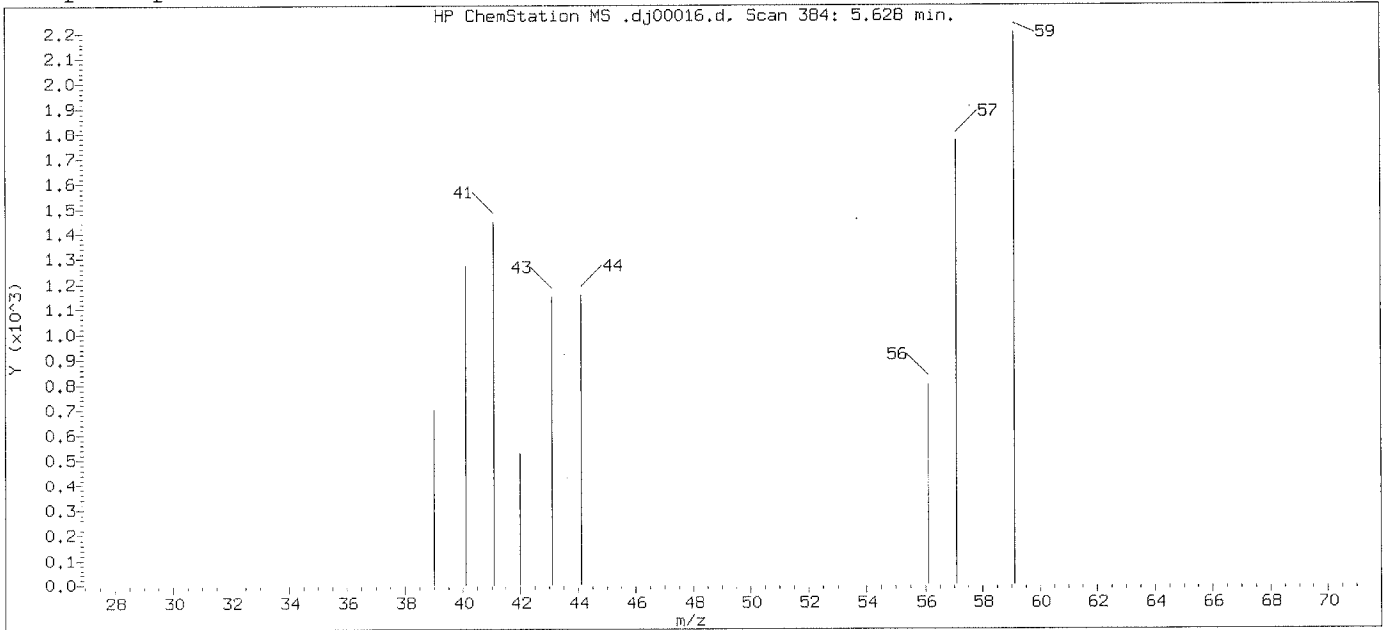
Sample Name: MDL0.5

Lab Sample ID: MDL0.5

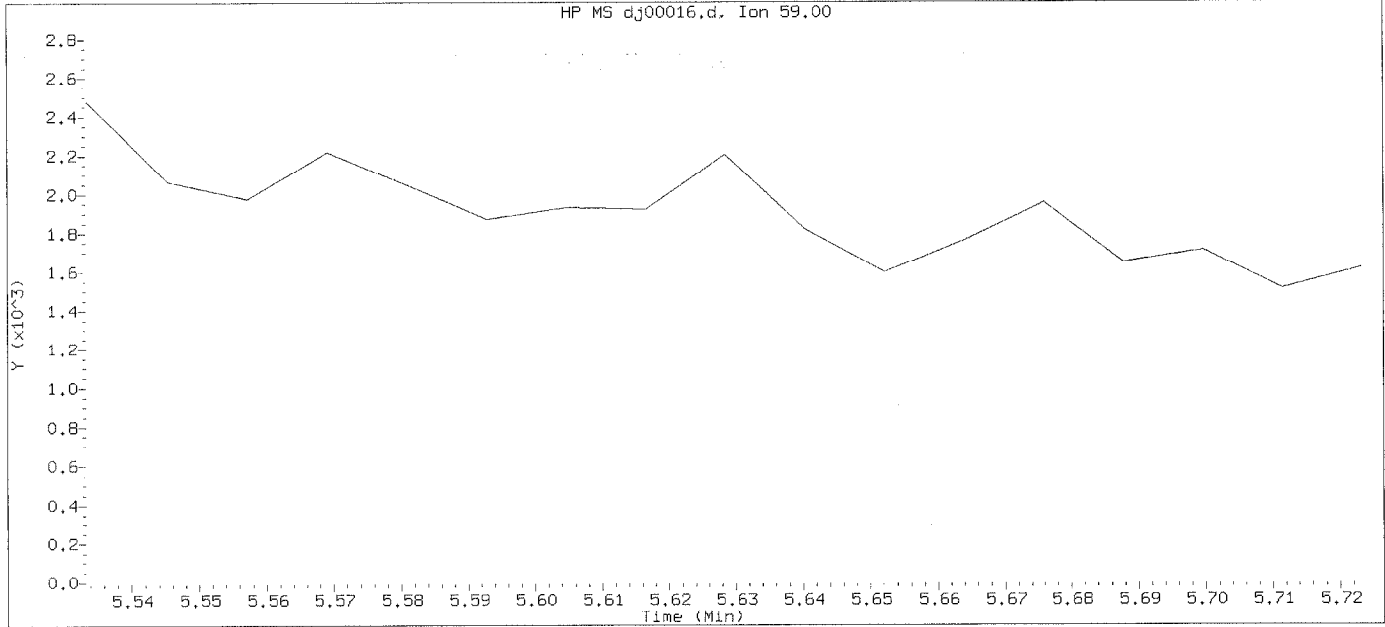
Compound Number : 29
Compound Name : Methyl t-Butyl Ether
Scan Number : 351
Retention Time (minutes): 5.237
Quant Ion : 73.00
Area : 28810
Concentration (ppb(v)) : 0.1553
Integration start scan : 345 Integration stop scan: 350
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d
Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 01-OCT-2015 18:46
Date, time and analyst ID of latest file update: 02-Oct-2015 00:42 Automation

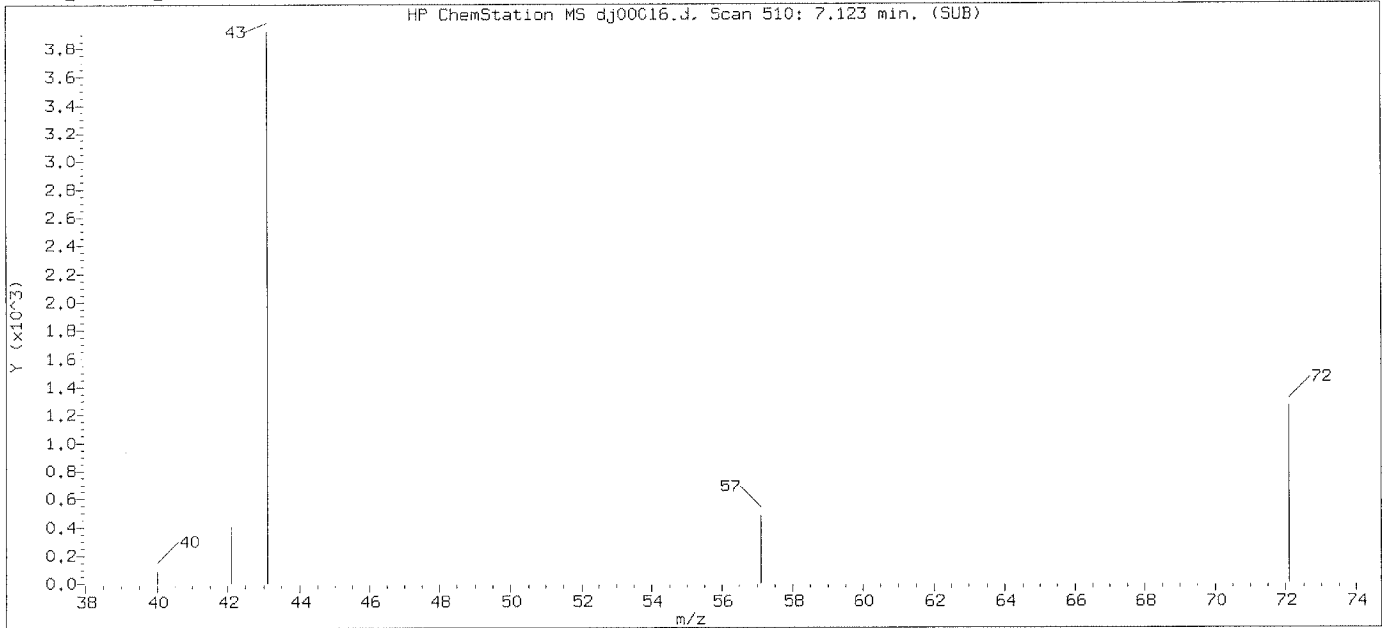
Sample Name: MDL0.5

Lab Sample ID: MDL0.5

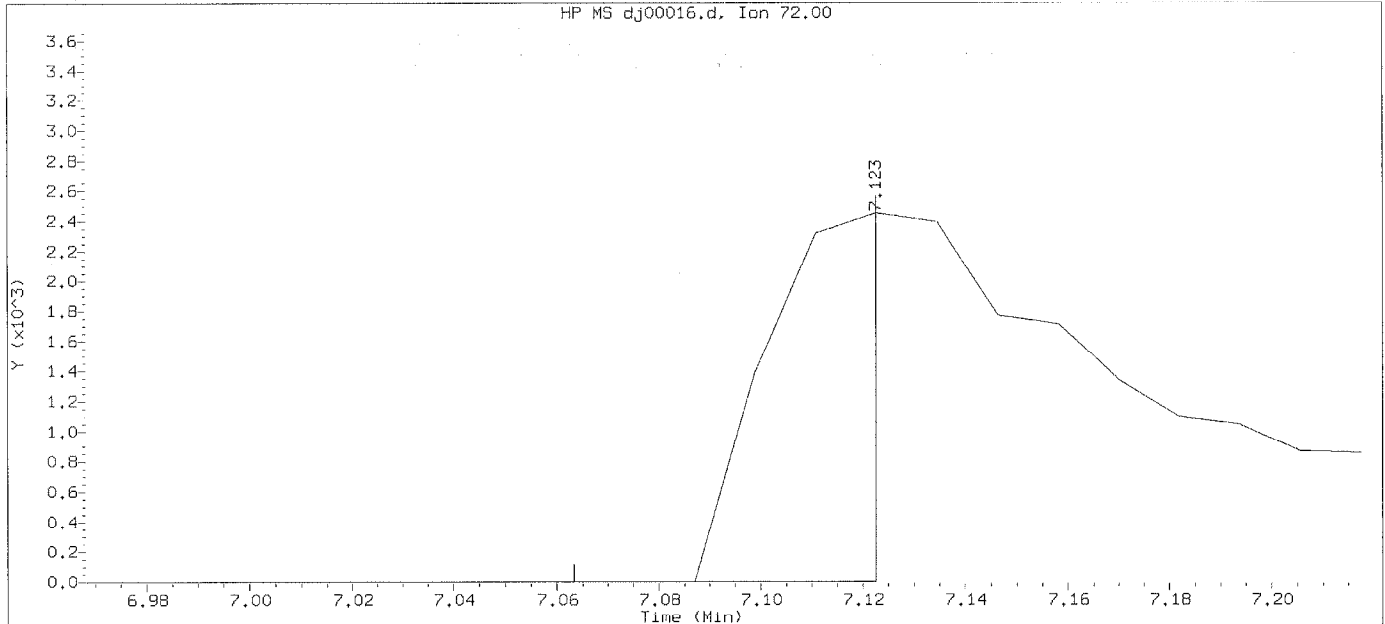
Compound Number : 26
Compound Name : tert-Butyl Alcohol
Expected RT (minutes) : 5.629
Quant Ion : 59.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



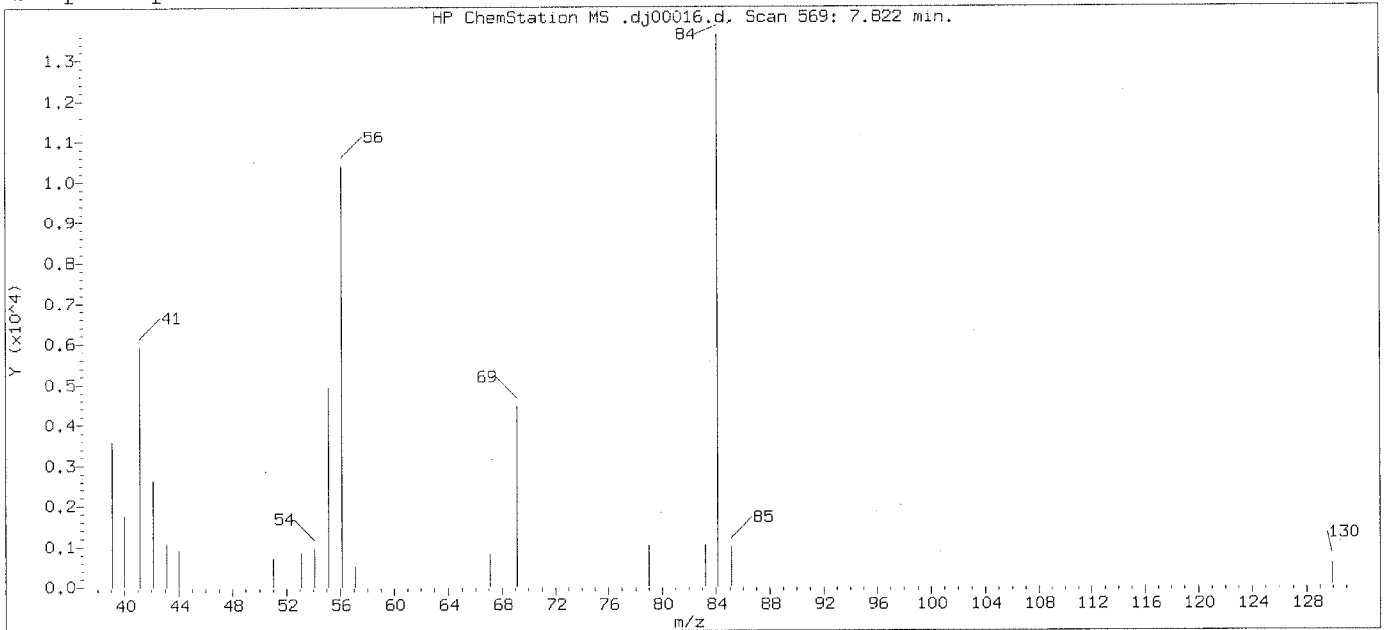
Data File: /chem/HP10145.i/15oct01.b/dj00016.d Instrument ID: HP10145.i
 Injection date and time: 02-OCT-2015 00:01 Analyst ID: jeb07445
 Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
 Calibration date and time: 01-OCT-2015 18:46
 Date, time and analyst ID of latest file update: 02-Oct-2015 00:42 Automation

Sample Name: MDL0.5 Lab Sample ID: MDL0.5

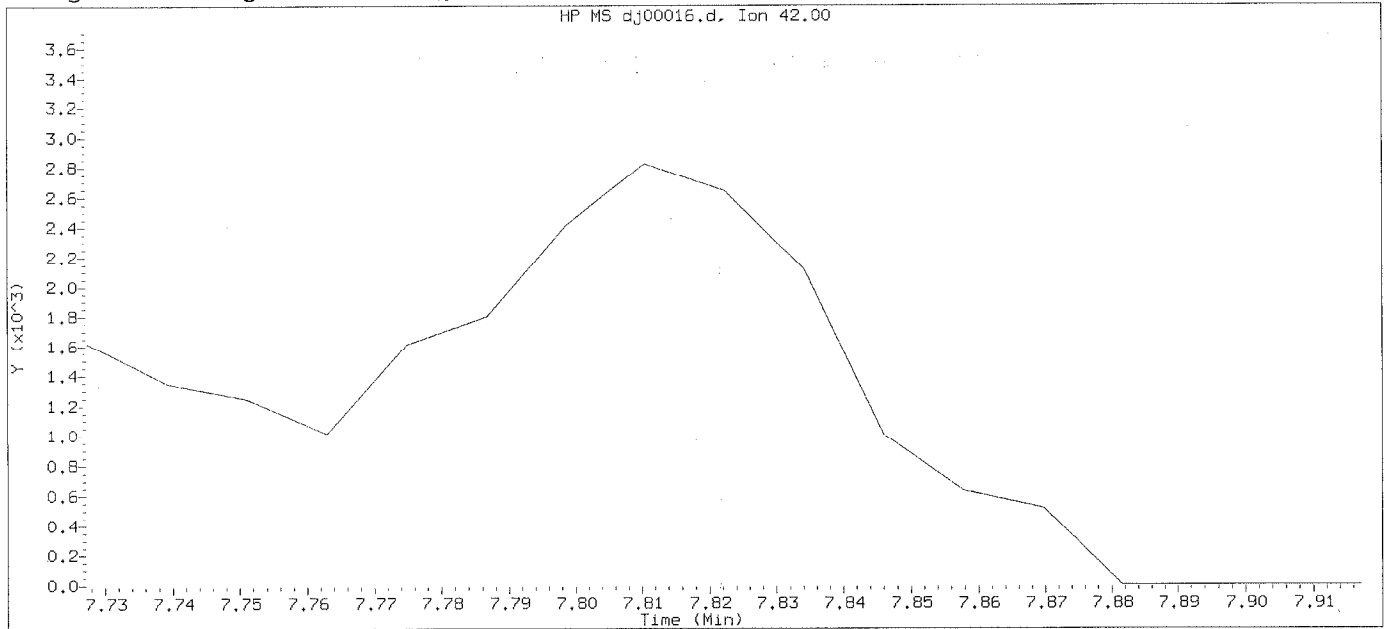
Compound Number : 37
 Compound Name : 2-Butanone
 Scan Number : 510
 Retention Time (minutes): 7.123
 Quant Ion : 72.00
 Area : 3508
 Concentration (ppb(v)) : 0.1232
 Integration start scan : 504 Integration stop scan: 509
 Y at integration start : 0 Y at integration end: 0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:56.
 Target 3.5 esignature user ID: jbs01304

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d Instrument ID: HP10145.i
Injection date and time: 02-OCT-2015 00:01 Analyst ID: jeb07445

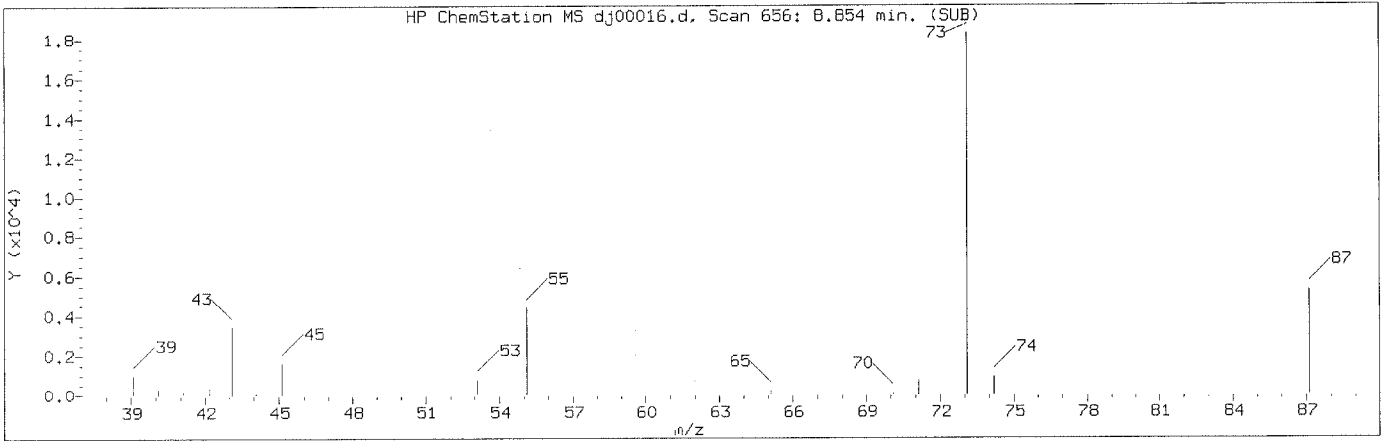
Method used: /chem/HP10145.i/15oct01.b/to-15.m Sublist used: all
Calibration date and time: 01-OCT-2015 18:46
Date, time and analyst ID of latest file update: 02-Oct-2015 00:42 Automation

Sample Name: MDL0.5 Lab Sample ID: MDL0.5

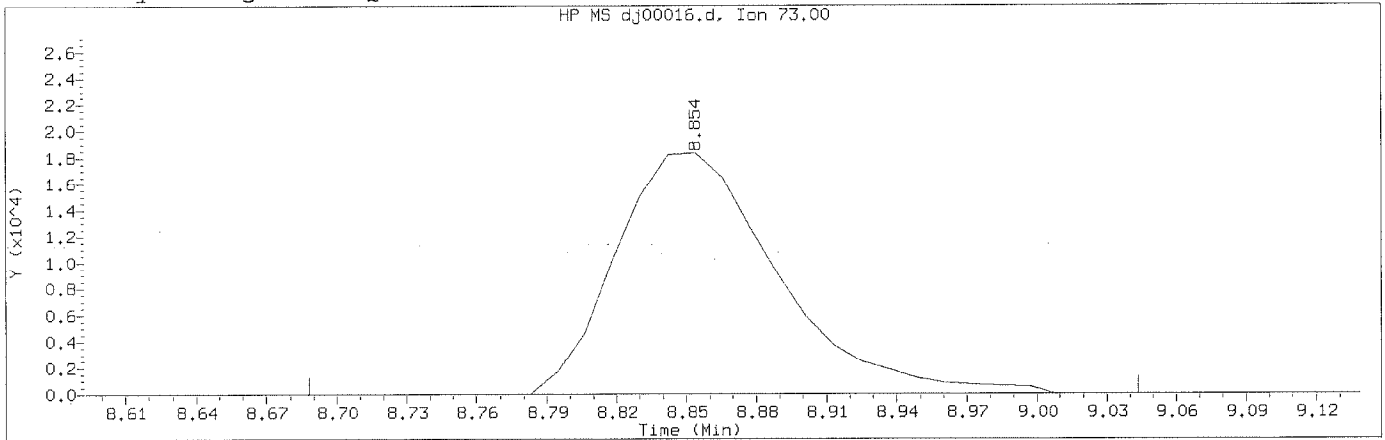
Compound Number : 41
Compound Name : Tetrahydrofuran
Expected RT (minutes) : 7.822
Quant Ion : 42.00

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d
Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
Calibration date and time: 02-OCT-2015 10:51
Date, time and analyst ID of latest file update: 02-Oct-2015 10:53 jbs01304

Sublist used: all

Sample Name: MDL0.5

Lab Sample ID: MDL0.5

Compound Number	: 49	
Compound Name	: Tert-Amyl Methyl Ether	
Scan Number	: 656	
Retention Time (minutes)	: 8.854	
Quant Ion	: 73.00	
Area (flag)	: 88113M	
Concentration (ppb(v))	: 0.4335	
Integration start scan	: 641	Integration stop scan: 671
Y at integration start	: 0	Y at integration end: 0

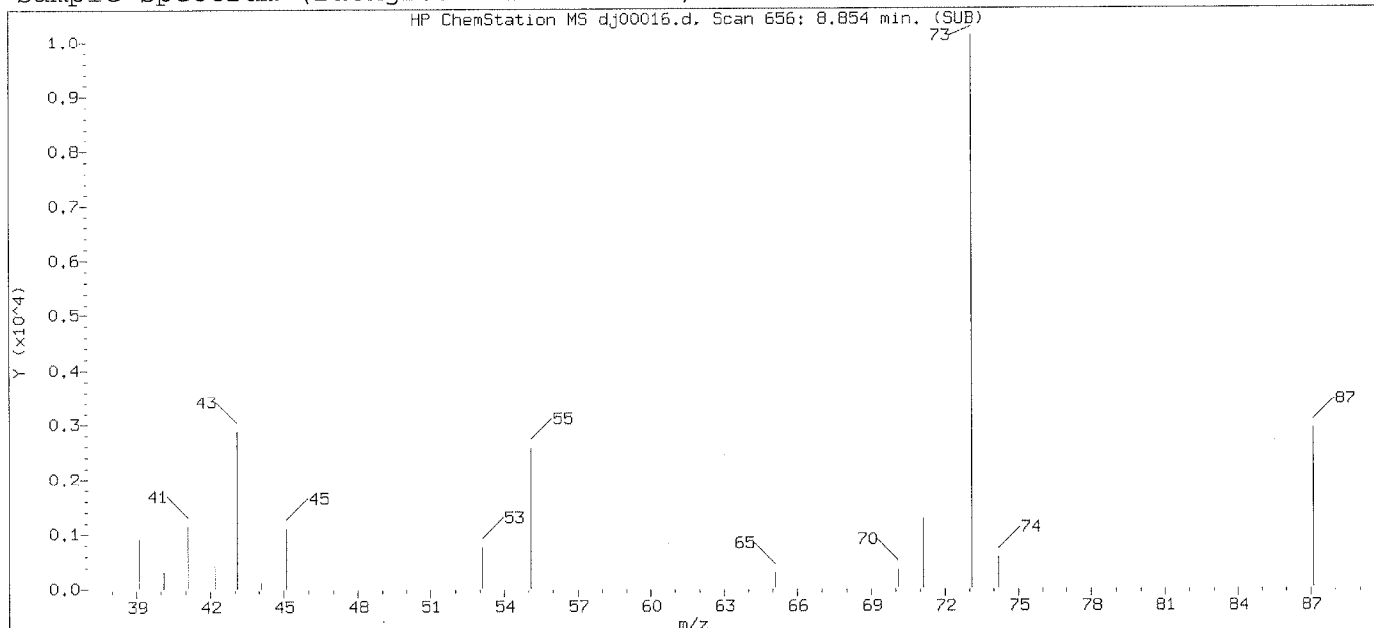
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/02/2015 at 10:56.
Target 3.5 esignature user ID: jbs01304

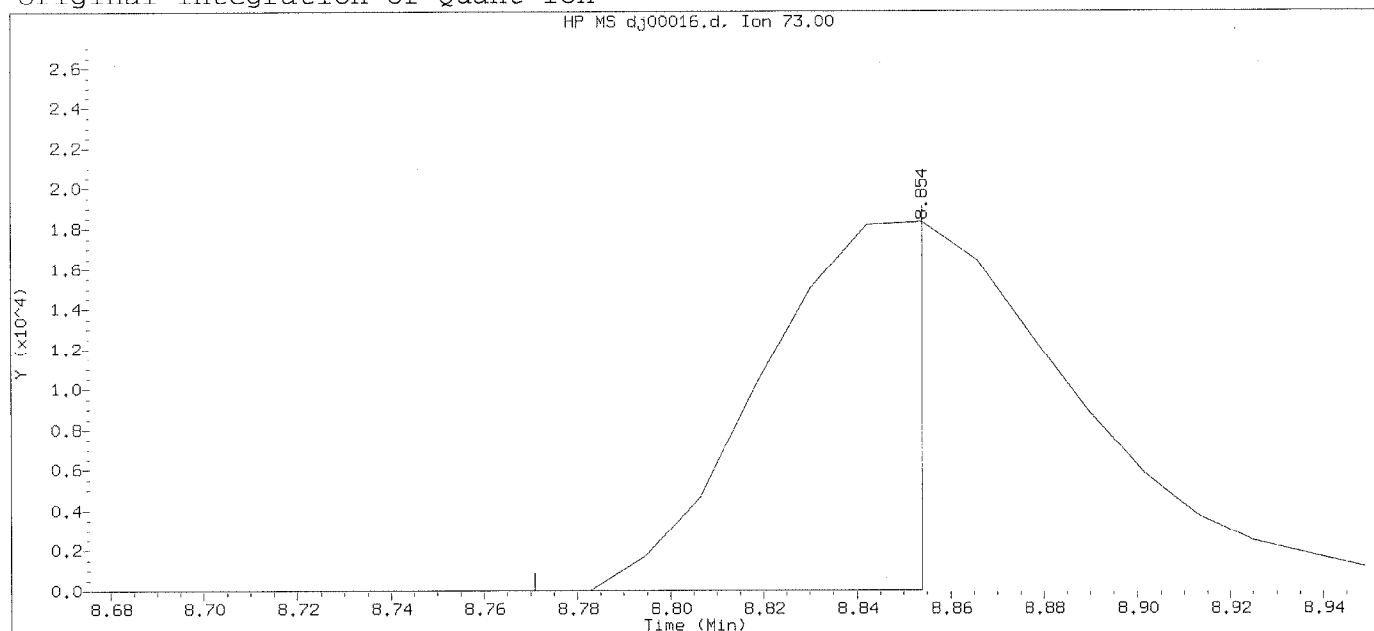
GC/MS audit/management approval: _____

Ommy 10/2/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct01.b/dj00016.d
 Injection date and time: 02-OCT-2015 00:01

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct01.b/to-15.m
 Calibration date and time: 01-OCT-2015 18:46
 Date, time and analyst ID of latest file update: 02-Oct-2015 00:42 Automation

Sample Name: MDL0.5

Lab Sample ID: MDL0.5

Compound Number	: 49		
Compound Name	: Tert-Amyl Methyl Ether		
Scan Number	: 656		
Retention Time (minutes)	: 8.854		
Quant Ion	: 73.00		
Area	: 41993		
Concentration (ppb(v))	: 0.2066		
Integration start scan	: 648	Integration stop scan:	655
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:56.
 Target 3.5 esignature user ID: jbs01304

SDG No.:

Lab File ID: dj00071.d

Calibration Date: 10/05/2015

Instrument ID: 10145

Calibration Time: 12:46

Init. Calib. Date(s): 10/01/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Propene	0.402	0.282	7.163	10.2	-30
Dichlorodifluoromethane	2.870	3.272	11.517	10.1	14
Chlorodifluoromethane	1.002	1.070	11.424	10.7	7
Freon 114	2.313	2.424	10.373	9.9	5
Chloromethane	0.182	0.136	7.704	10.3	-25
Vinyl Chloride	0.706	0.619	8.861	10.1	-12
1,3-Butadiene	0.465	0.366	8.028	10.2	-21
Bromomethane	0.896	0.838	9.164	9.8	-6
Chloroethane	0.395	0.350	8.586	9.7	-11
Bromoethene	0.879	0.784	9.462	10.6	-11
Dichlorofluoromethane	1.684	1.796	11.203	10.5	7
Trichlorofluoromethane	2.982	3.526	11.943	10.1	18
Pentane	0.927	0.684	7.740	10.5	-26
Ethanol	0.260	0.177	3.944	5.8	-32*
Freon123a	1.458	1.420	10.717	11	-3
Acrolein	0.196	0.156	5.976	7.5	-20
1,1-Dichloroethene	1.208	1.242	10.278	10	3
Freon 113	1.321	1.281	9.403	9.7	-3
Acetone	0.885	0.833	10.075	10.7	-6
Methyl Iodide	2.076	1.832	8.915	10.1	-12
Carbon Disulfide	2.218	2.157	9.727	10	-3
Isopropanol	1.037	0.949	8.790	9.6	-8
Acetonitrile	0.248	0.234	9.363	9.9	-5
3-Chloropropene	0.362	0.316	9.582	11	-13
Methylene Chloride	0.645	0.604	10.294	11	-6
tert-Butyl Alcohol	1.662	1.467	9.712	11	-12
Acrylonitrile	0.328	0.324	10.372	10.5	-1
trans-1,2-Dichloroethene	1.011	1.043	10.312	10	3
Methyl t-Butyl Ether	2.403	2.470	10.484	10.2	3
Hexane	1.075	0.814	7.725	10.2	-24
1,1-Dichloroethane	1.388	1.308	9.512	10.1	-6
Vinyl Acetate	0.204	0.177	6.580	7.6	-13
Di-Isopropyl Ether	1.896	1.426	7.821	10.4	-25
Ethyl Tert-Butyl Ether	2.585	2.218	8.664	10.1	-14
cis-1,2-Dichloroethene	1.001	0.963	10.100	10.5	-4
2-Butanone	0.369	0.350	9.873	10.4	-5
Ethyl Acetate	0.241	0.214	9.766	11	-11
Methyl Acrylate	1.045	0.892	8.875	10.4	-15
Tetrahydrofuran	0.575	0.434	7.539	10	-25

* Maximum %DRIFT = 30%.

Average RRF for all compounds must be greater than 0.010.

SDG No.:

Lab File ID: dj00071.d

Calibration Date: 10/05/2015

Instrument ID: 10145

Calibration Time: 12:46

Init. Calib. Date(s): 10/01/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Chloroform	2.028	2.141	10.664	10.1	6
1,1,1-Trichloroethane	2.506	2.780	11.427	10.3	11
Cyclohexane	1.131	0.858	7.817	10.3	-24
Carbon Tetrachloride	2.620	3.038	12.060	10.4	16
Benzene	0.674	0.603	9.480	10.6	-11
1,2-Dichloroethane	0.327	0.370	11.745	10.4	13
Isooctane	0.894	0.707	8.308	10.5	-21
Tert-Amyl Methyl Ether	0.689	0.633	9.839	10.7	-8
Heptane	0.268	0.200	7.821	10.5	-26
Trichloroethene	0.363	0.300	8.530	10.3	-17
Ethyl Acrylate	0.356	0.302	9.168	10.8	-15
1,2-Dichloropropane	0.198	0.173	9.218	10.5	-12
Dibromomethane	0.368	0.338	9.639	10.5	-8
1,4-Dioxane	0.166	0.144	8.924	10.3	-13
Methyl Methacrylate	0.215	0.205	9.637	10.1	-5
Bromodichloromethane	0.560	0.618	11.354	10.3	10
cis-1,3-Dichloropropene	0.346	0.333	9.135	9.5	-4
4-Methyl-2-Pentanone	0.360	0.294	8.326	10.2	-18
Toluene	0.992	0.860	9.189	10.6	-13
Octane	0.396	0.294	7.649	10.3	-26
trans-1,3-Dichloropropene	0.393	0.413	10.618	10.1	5
Ethyl Methacrylate	0.406	0.384	9.561	10.1	-5
1,1,2-Trichloroethane	0.336	0.306	9.647	10.6	-9
Tetrachloroethene	0.699	0.588	8.997	10.7	-16
2-Hexanone	0.353	0.294	9.087	10.9	-17
Dibromochloromethane	0.532	0.539	9.919	9.8	1
1,2-Dibromoethane	0.542	0.495	9.134	10	-9
Chlorobenzene	0.827	0.697	8.935	10.6	-16
1,1,1,2-Tetrachloroethane	0.480	0.463	10.215	10.6	-4
Ethylbenzene	1.315	1.217	9.815	10.6	-7
m/p-Xylene	1.164	1.102	9.276	9.8	-5
o-Xylene	1.103	1.066	10.350	10.7	-3
Styrene	0.836	0.748	9.304	10.4	-11
Bromoform	0.725	0.772	10.648	10	6
Cumene	1.606	1.571	10.175	10.4	-2
Bromobenzene	0.510	0.471	9.787	10.6	-8
1,1,2,2-Tetrachloroethane	0.659	0.676	10.965	10.7	2
1,2,3-Trichloropropane	0.245	0.259	10.767	10.2	6
n-Propylbenzene	0.450	0.414	9.207	10	-8

* Maximum %DRIFT = 30%.

Average RRF for all compounds must be greater than 0.010.

SDG No.:

Lab File ID: dj00071.d

Calibration Date: 10/05/2015

Instrument ID: 10145

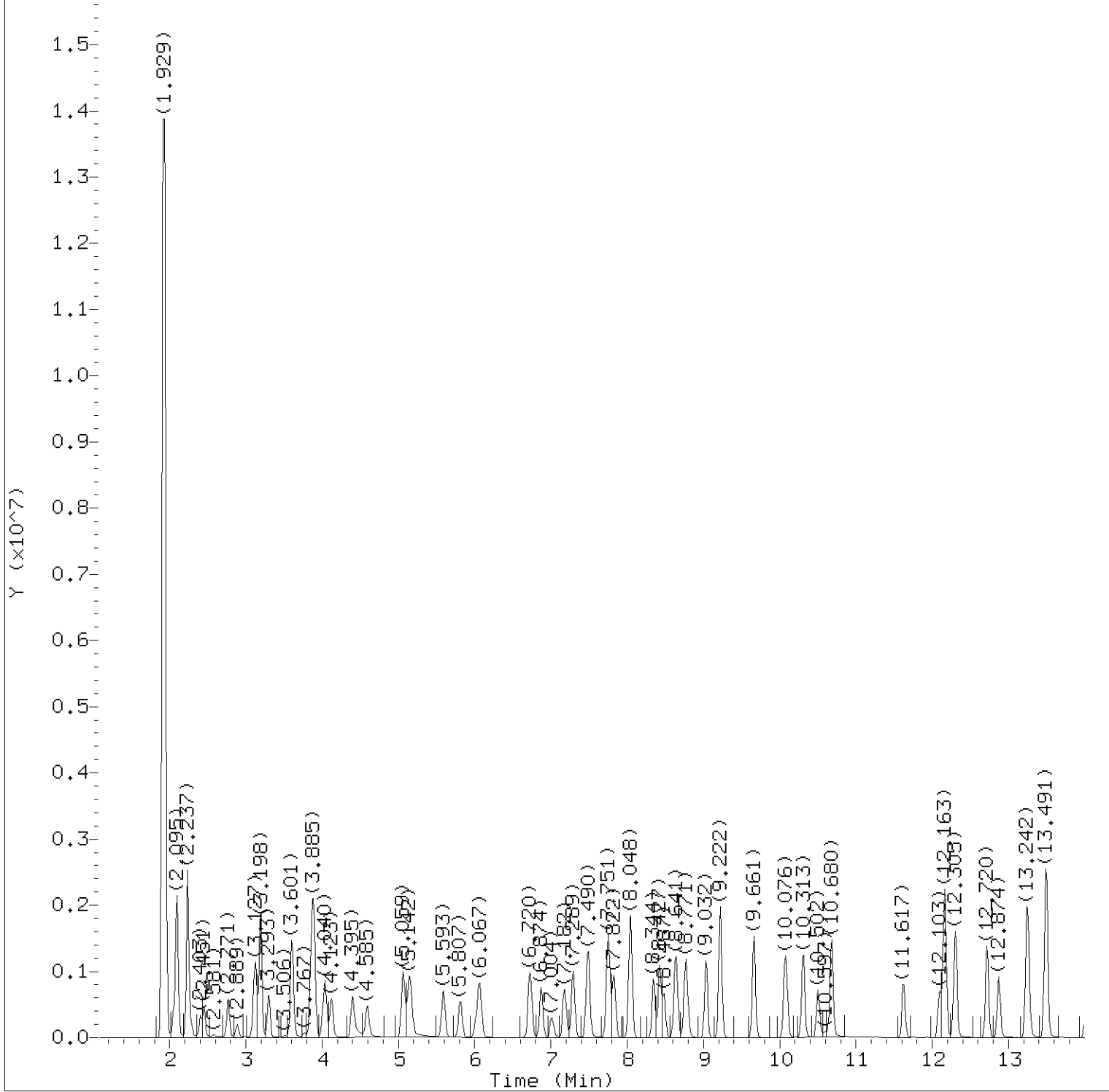
Calibration Time: 12:46

Init. Calib. Date(s): 10/01/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
2-Chlorotoluene	0.369	0.336	9.374	10.3	-9
4-Ethyltoluene	1.579	1.566	10.022	10.1	-1
1,3,5-Trimethylbenzene	1.431	1.448	10.424	10.3	1
Alpha Methyl Styrene	0.607	0.596	9.709	9.9	-2
tert-Butylbenzene	1.412	1.433	10.349	10.2	1
1,2,4-Trimethylbenzene	1.365	1.438	10.743	10.2	5
sec-Butylbenzene	1.857	1.955	10.633	10.1	5
1,3-Dichlorobenzene	0.817	0.826	10.619	10.5	1
1,4-Dichlorobenzene	0.798	0.809	10.349	10.2	1
p-Isopropyltoluene	1.618	1.704	10.743	10.2	5
Benzyl Chloride	0.899	1.060	10.023	8.5	18
1,2-Dichlorobenzene	0.779	0.794	10.290	10.1	2
n-Butylbenzene	1.246	1.384	11.330	10.2	11
Hexachloroethane	0.433	0.517	13.011	10.9	19
1,2-Dibromo-3-chloropropane	0.455	0.455	9.599	9.6	0
1,2,4-Trichlorobenzene	0.577	0.598	9.948	9.6	4
Hexachlorobutadiene	0.919	0.959	10.330	9.9	4
Naphthalene	0.957	1.029	11.183	10.4	8

* Maximum %DRIFT = 30%.

Average RRF for all compounds must be greater than 0.010.



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00071.d
Injection date and time: 05-OCT-2015 12:46

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: all

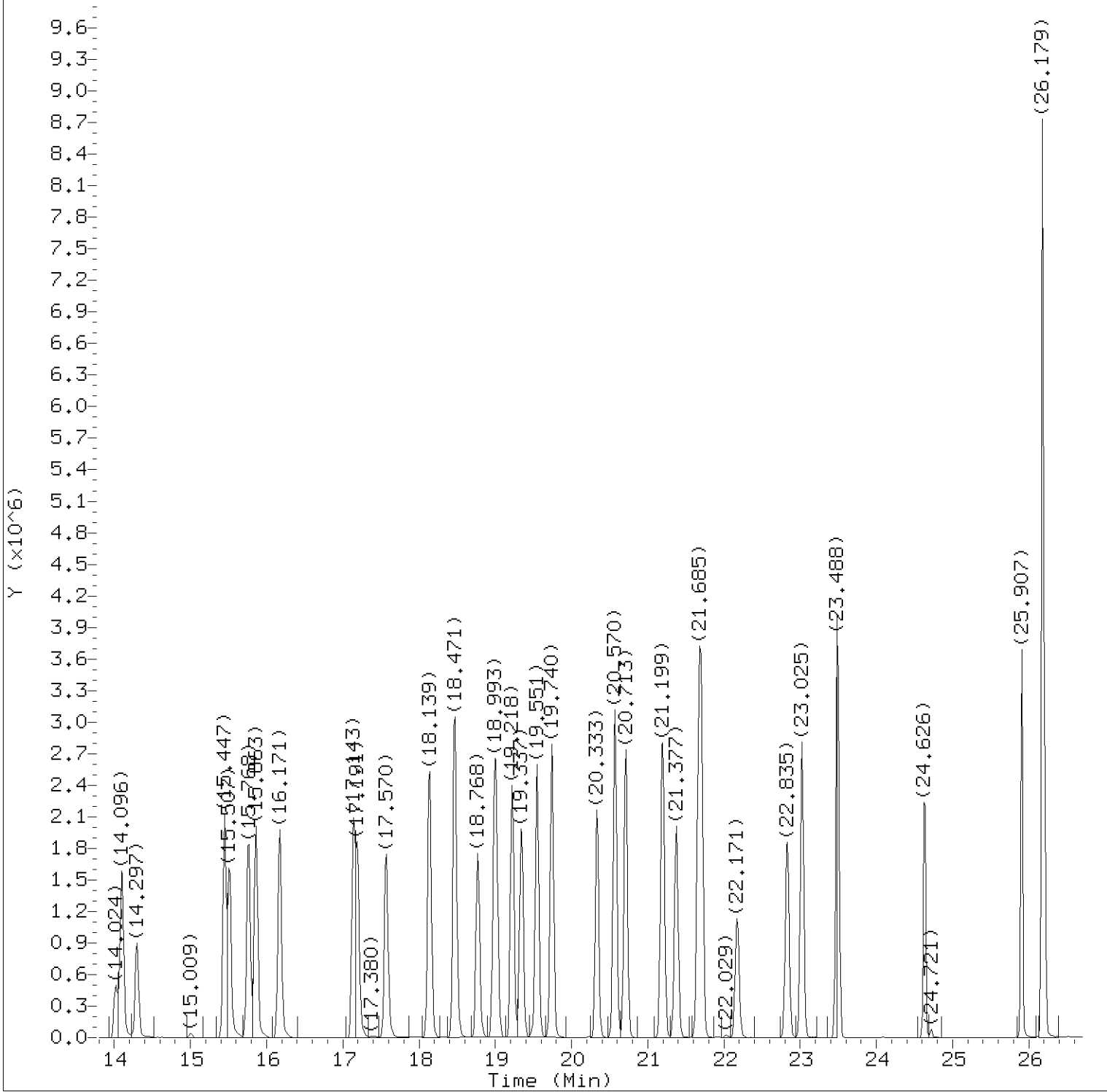
Date, time and analyst ID of latest file update: 05-Oct-2015 13:26 jbs01304

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 10/05/2015 at 15:45.

Target 3.5 esignature user ID: jeb07445
SSX07 Page 319 of 641



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00071.d
Injection date and time: 05-OCT-2015 12:46

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: all

Date, time and analyst ID of latest file update: 05-Oct-2015 13:26 jbs01304

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 10/05/2015 at 15:45.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00071.d
 Injection date and time: 05-OCT-2015 12:46

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
 Calibration date and time: 05-OCT-2015 13:26
 Date, time and analyst ID of latest file update: 05-Oct-2015 13:26 jbs01304

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	188580	7.163
2) Dichlorodifluoromethane	(1)	2.095	85	2163481	11.517
3) Chlorodifluoromethane	(1)	2.107	51	749580	11.424
4) Freon 114	(1)	2.237	85	1570946	10.373
5) Chloromethane	(1)	2.285	52	91578	7.704
6) Vinyl Chloride	(1)	2.403	62	409366	8.861
7) 1,3-Butadiene	(1)	2.451	54	244622	8.028
8) Bromomethane	(1)	2.771	94	537746	9.164
9) Chloroethane	(1)	2.889	64	222147	8.586
10) Bromoethene	(1)	3.103	106	544212	9.462
11) Dichlorofluoromethane	(1)	3.127	67	1234725	11.203
12) Trichlorofluoromethane	(1)	3.198	101	2331265	11.943
13) Pentane	(1)	3.293	43	469817	7.740
15) Freon123a	(1)	3.601	67	1022502	10.717
14) Ethanol	(1)	3.684	45	67055M	3.944
16) Acrolein	(1)	3.767	56	76479	5.976
17) 1,1-Dichloroethene	(1)	3.850	61	813070	10.278
18) Freon 113	(1)	3.885	103	813212	9.403
19) Acetone	(1)	4.004	43	583596	10.075
20) Methyl Iodide	(1)	4.040	142	1211389	8.915
21) Carbon Disulfide	(1)	4.123	76	1412115	9.727
24) 3-Chloropropene	(1)	4.395	76	227360	9.582
22) Isopropanol	(1)	4.407	45	596570M	8.790
23) Acetonitrile	(1)	4.407	40	151928	9.363
25) Methylene Chloride	(1)	4.597	84	434715	10.294
28) trans-1,2-Dichloroethene	(1)	5.059	61	682673	10.312
27) Acrylonitrile	(1)	5.059	53	222907	10.372
26) tert-Butyl Alcohol	(1)	5.107	59	1056644M	9.712
29) Methyl t-Butyl Ether	(1)	5.154	73	1649416	10.484
30) Hexane	(1)	5.593	57	543388	7.725
31) 1,1-Dichloroethane	(1)	5.807	63	864582	9.512
32) Vinyl Acetate	(1)	6.008	86	87886	6.580
33) Di-Isopropyl Ether	(1)	6.067	45	970797	7.821
36) 1,2-Dichloroethene (total)	(1)		61	1344795	20.412
34) Ethyl Tert-Butyl Ether	(1)	6.720	59	1466262	8.664
35) cis-1,2-Dichloroethene	(1)	6.874	61	662122	10.100
37) 2-Butanone	(1)	7.016	72	238504	9.873
38) Ethyl Acetate	(1)	7.170	70	154219	9.766

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
 on 10/05/2015 at 15:45.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00071.d
 Injection date and time: 05-OCT-2015 12:46

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
 Calibration date and time: 05-OCT-2015 13:26
 Date, time and analyst ID of latest file update: 05-Oct-2015 13:26 jbs01304

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.182	55	607360	8.875
40)*Bromochloromethane	(1)	7.289	130	654609	10.000
41) Tetrahydrofuran	(1)	7.467	42	283803	7.539
42) Chloroform	(1)	7.490	83	1415813	10.664
43) 1,1,1-Trichloroethane	(1)	7.751	97	1874212	11.427
44) Cyclohexane	(1)	7.822	56	578776	7.817
45) Carbon Tetrachloride	(1)	8.048	117	2068495	12.060
46) Benzene	(2)	8.427	78	1612880	9.480
47) 1,2-Dichloroethane	(2)	8.487	62	970826	11.745
48) Isooctane	(2)	8.641	57	1874507	8.308
49) Tert-Amyl Methyl Ether	(2)	8.771	73	1710406	9.839
50) Heptane	(2)	9.032	43	528992	7.821
51)*1,4-Difluorobenzene	(2)	9.222	114	2524813	10.000
52) Trichloroethene	(2)	9.661	130	780957	8.530
53) Ethyl Acrylate	(2)	10.064	55	824212	9.168
54) 1,2-Dichloropropane	(2)	10.087	63	459942	9.218
55) Dibromomethane	(2)	10.313	174	895081	9.639
57) Methyl Methacrylate	(2)	10.502	69	523818	9.637
56) 1,4-Dioxane	(2)	10.597	88	374768M	8.924
58) Bromodichloromethane	(2)	10.680	83	1605972	11.354
59) cis-1,3-Dichloropropene	(2)	11.617	75	798671	9.135
60) 4-Methyl-2-Pentanone	(2)	12.092	43	755940	8.326
61) Toluene	(3)	12.305	91	2110346	9.189
62) Octane	(3)	12.720	43	701110	7.649
63) trans-1,3-Dichloropropene	(3)	12.874	75	966497	10.618
64) 1,3-Dichloropropene (total)	(3)		75	1765168	19.752
65) Ethyl Methacrylate	(3)	13.242	69	898220	9.561
66) 1,1,2-Trichloroethane	(3)	13.254	97	751534	9.647
67) Tetrachloroethene	(3)	13.491	166	1456496	8.997
68) 2-Hexanone	(3)	14.024	43	743058	9.087
69) Dibromochloromethane	(3)	14.107	127	1222096	9.919
70) 1,2-Dibromoethane	(3)	14.297	107	1145389	9.134
71)*Chlorobenzene-d5	(3)	15.447	117	2315181	10.000
72) Chlorobenzene	(3)	15.519	112	1710623	8.935
73) 1,1,1,2-Tetrachloroethane	(3)	15.768	131	1135361	10.215
74) Ethylbenzene	(3)	15.863	91	2987645	9.815
75) m/p-Xylene	(3)	16.171	91	2499698	9.276
76) o-Xylene	(3)	17.143	91	2641817	10.350

M = Compound was manually integrated.

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
 on 10/05/2015 at 15:45.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00071.d
 Injection date and time: 05-OCT-2015 12:46

Instrument ID: HP10145.i
 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
 Calibration date and time: 05-OCT-2015 13:26
 Date, time and analyst ID of latest file update: 05-Oct-2015 13:26 jbs01304

Sublist used: all

Sample Name: VSTD010

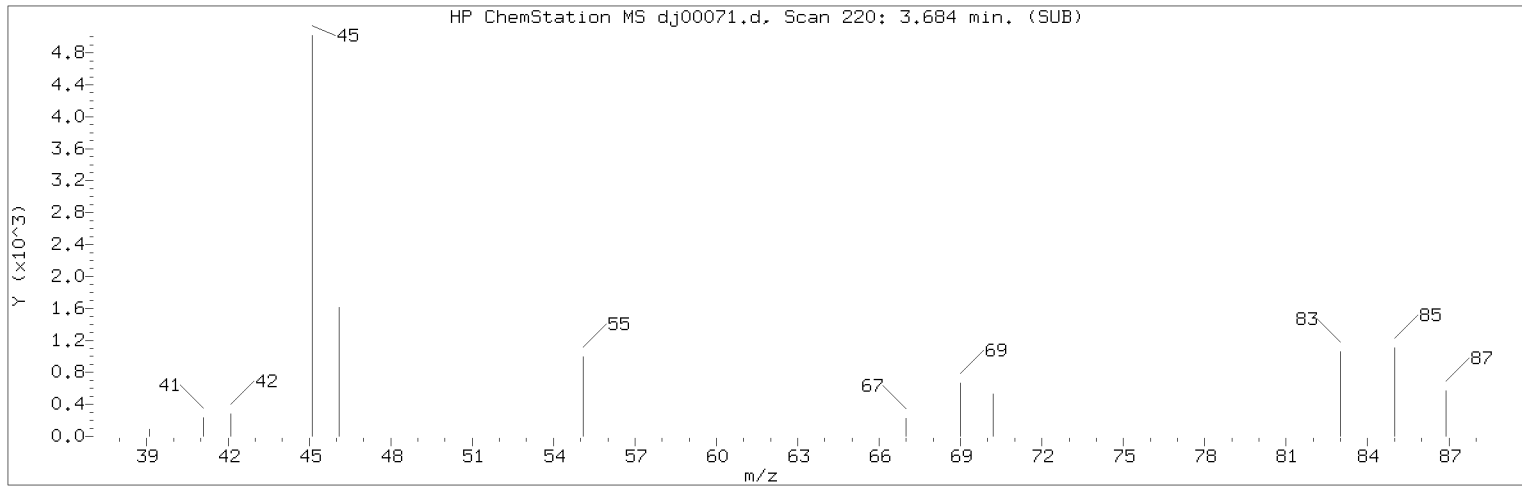
Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.191	104	1801450	9.304
77) Xylene (total)	(3)		91	5141515	19.626
79) Bromoform	(3)	17.570	173	1787544	10.648
80) Cumene	(3)	18.139	105	3782914	10.175
81) Bromobenzene	(3)	18.768	156	1155797	9.787
82) 1,1,2,2-Tetrachloroethane	(3)	18.993	83	1673435	10.965
83) 1,2,3-Trichloropropane	(3)	19.017	110	610655	10.767
84) n-Propylbenzene	(3)	19.218	120	958779	9.207
85) 2-Chlorotoluene	(3)	19.349	126	801491	9.374
86) 4-Ethyltoluene	(3)	19.551	105	3662843	10.022
87) 1,3,5-Trimethylbenzene	(3)	19.740	105	3452878	10.424
88) Alpha Methyl Styrene	(3)	20.333	118	1365201	9.709
89) tert-Butylbenzene	(3)	20.570	119	3383904	10.349
90) 1,2,4-Trimethylbenzene	(3)	20.713	105	3394704	10.743
91) sec-Butylbenzene	(3)	21.199	105	4572597	10.633
92) 1,3-Dichlorobenzene	(3)	21.377	146	2007623	10.619
93) 1,4-Dichlorobenzene	(3)	21.661	146	1911574	10.349
94) p-Isopropyltoluene	(3)	21.697	119	4022908	10.743
95) Benzyl Chloride	(3)	22.171	91	2085831	10.023
96) 1,2-Dichlorobenzene	(3)	22.835	146	1856054	10.290
97) n-Butylbenzene	(3)	23.025	91	3268555	11.330
98) Hexachloroethane	(3)	23.488	117	1305443	13.011
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	1012018	9.599
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	1328214	9.948
101) Hexachlorobutadiene	(3)	26.179	225	2197088	10.330
102) Naphthalene	(3)	26.215	128	2478228	11.183

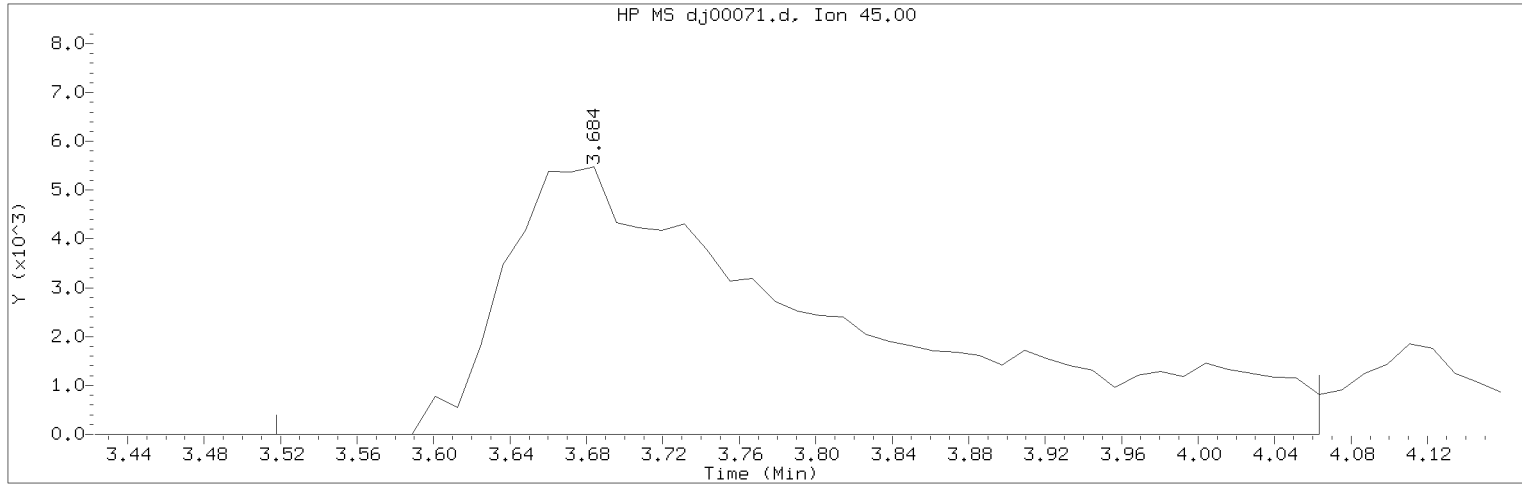
Digitally signed by Jacob E. Bailey
 on 10/05/2015 at 15:45.

Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00071.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 12:46 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 13:26 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

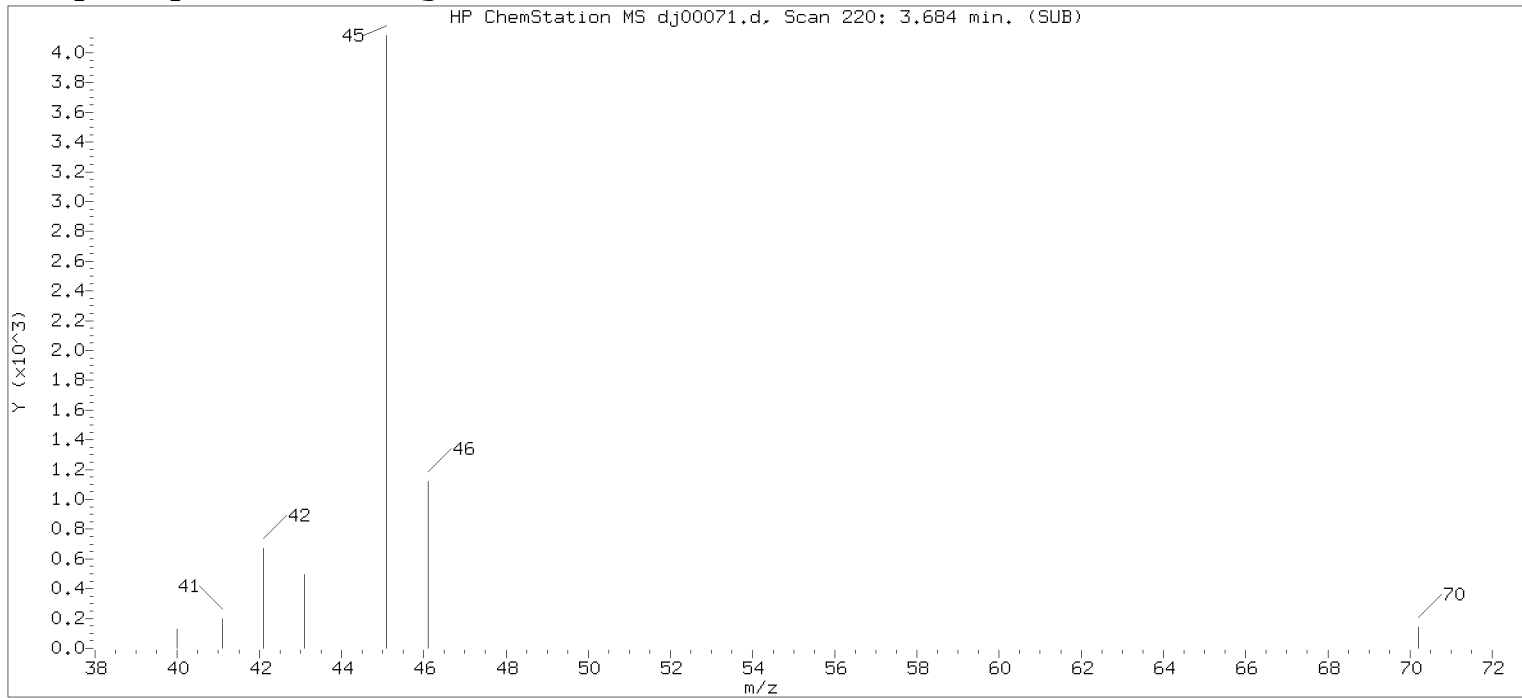
Compound Number : 14
Compound Name : Ethanol
Scan Number : 220
Retention Time (minutes): 3.684
Quant Ion : 45.00
Area (flag) : 67055M
Concentration (ppb(v)) : 3.9437
Integration start scan : 205 Integration stop scan: 251
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

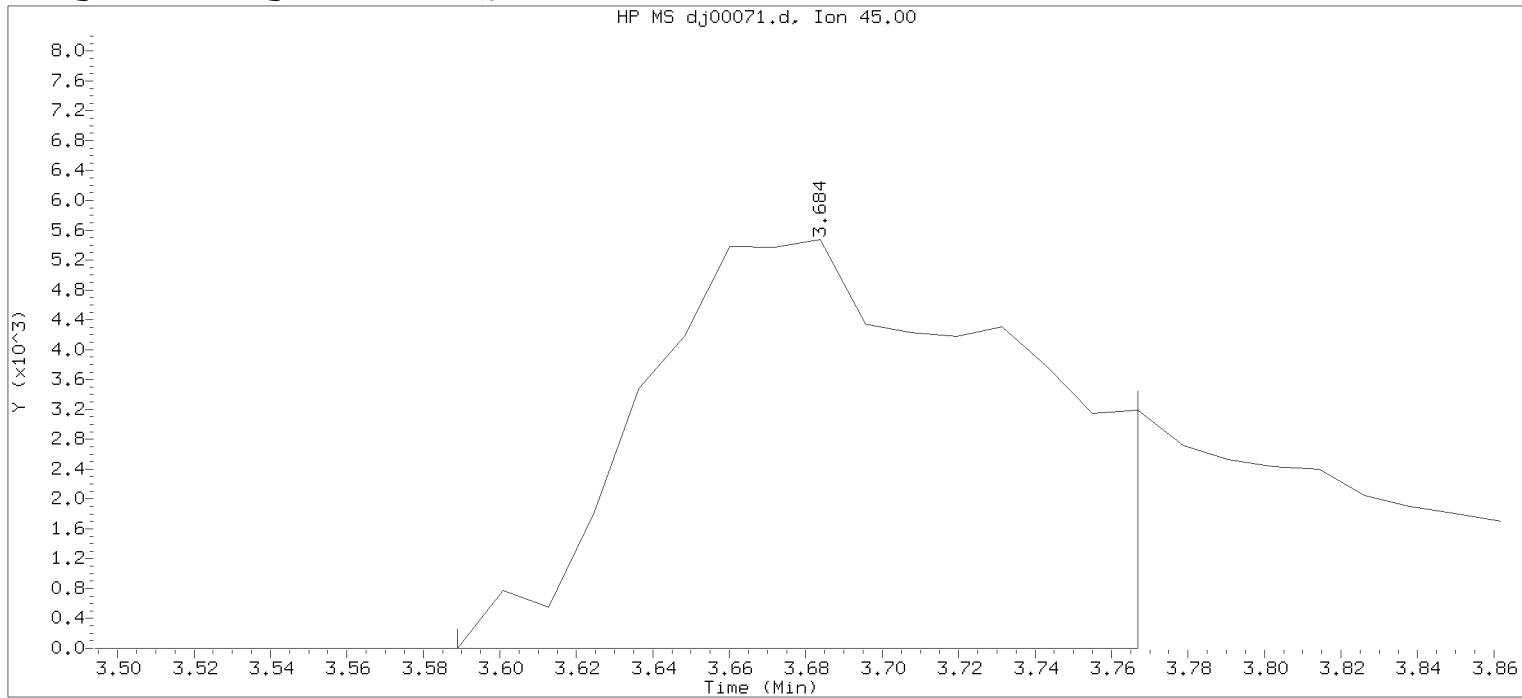
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/05/2015 at 15:45.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:55.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



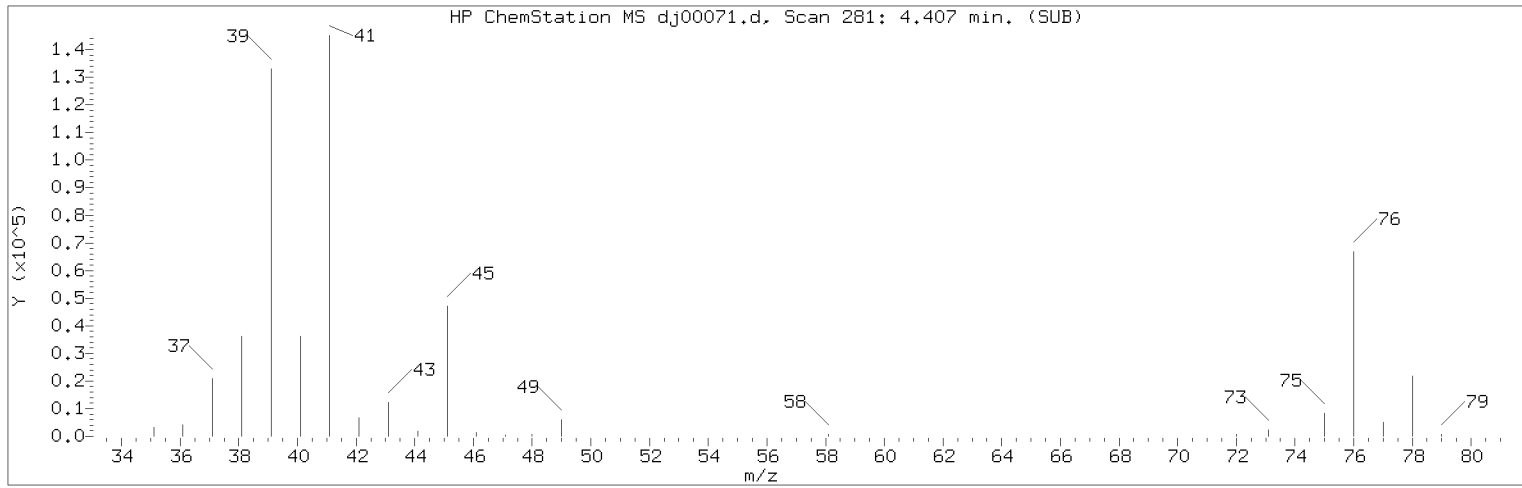
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Injection date and time: 05-OCT-2015 12:46 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 10:06
Date, time and analyst ID of latest file update: 05-Oct-2015 13:22 Automation

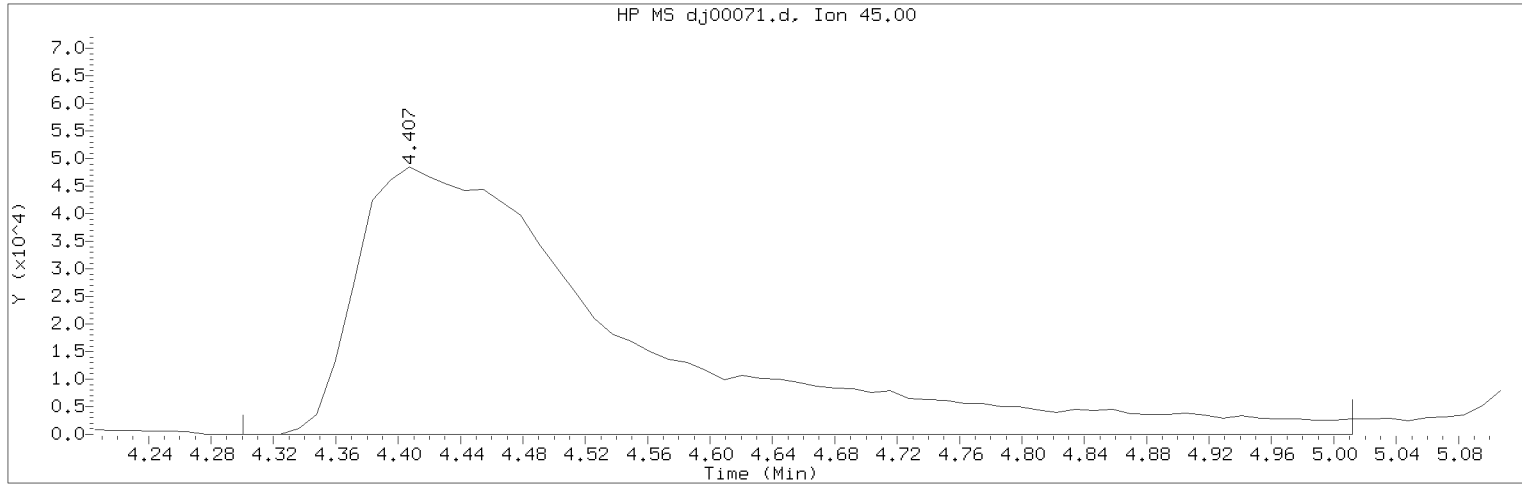
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 14
Compound Name : Ethanol
Scan Number : 220
Retention Time (minutes): 3.684
Quant Ion : 45.00
Area : 37425
Concentration (ppb(v)) : 2.2011
Integration start scan : 211 Integration stop scan: 226
Y at integration start : 0 Y at integration end: 0

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00071.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 12:46 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 13:26 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

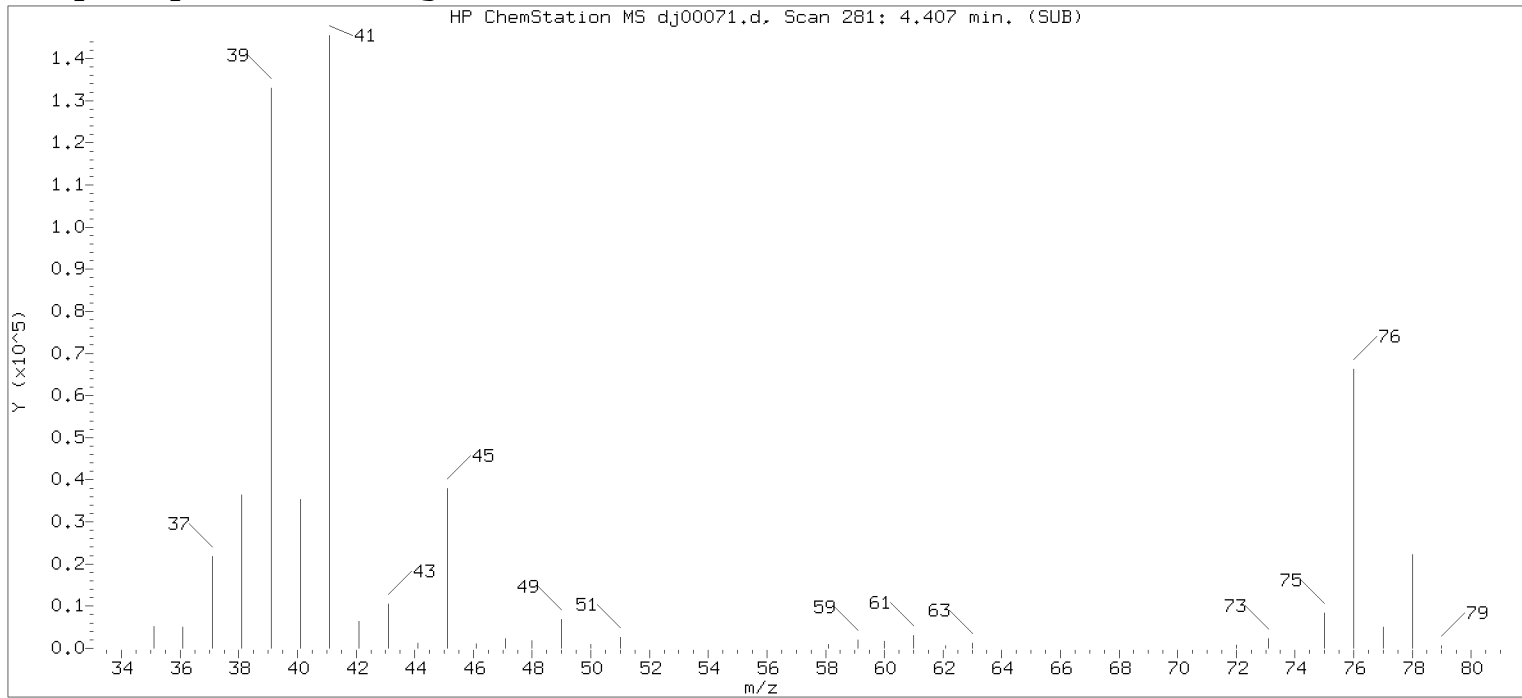
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 281
Retention Time (minutes): 4.407
Quant Ion : 45.00
Area (flag) : 596570M
Concentration (ppb(v)) : 8.7901
Integration start scan : 271 Integration stop scan: 331
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

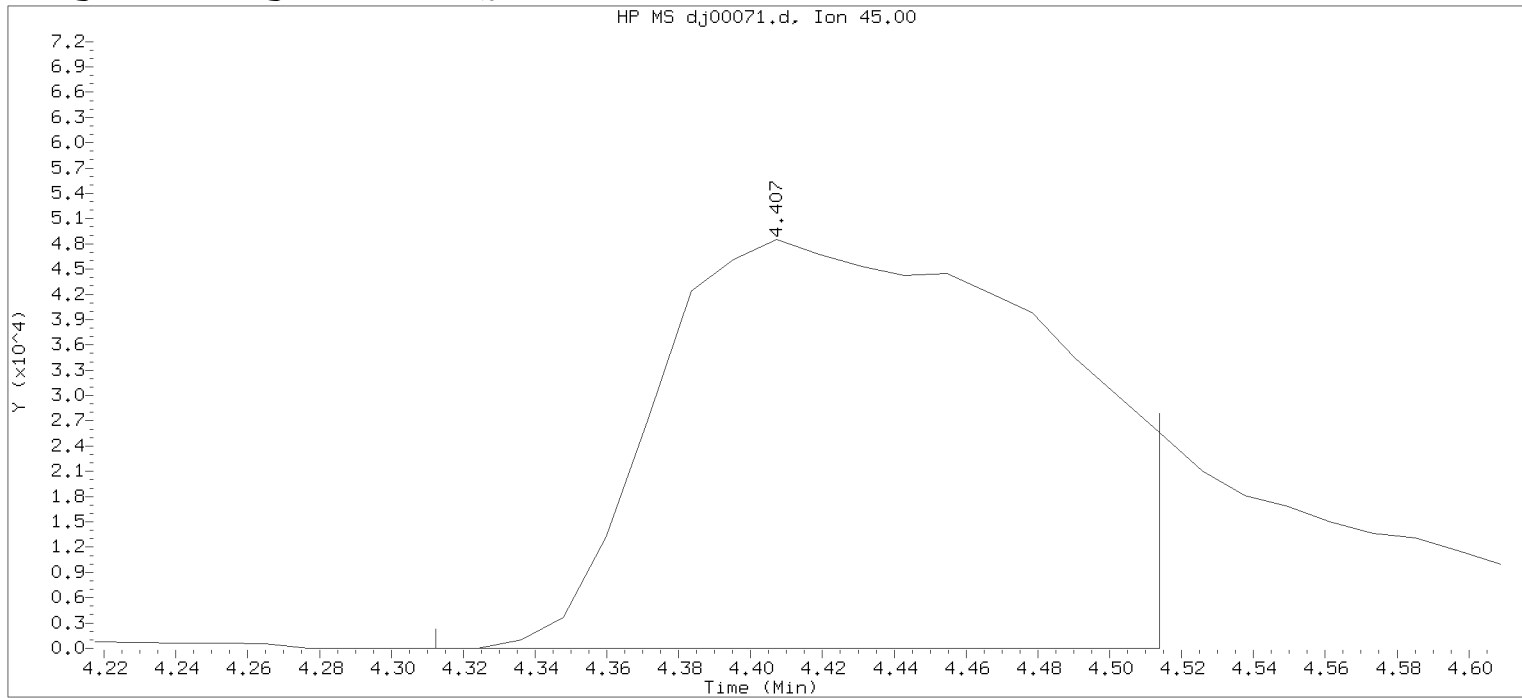
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/05/2015 at 15:45.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:55.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



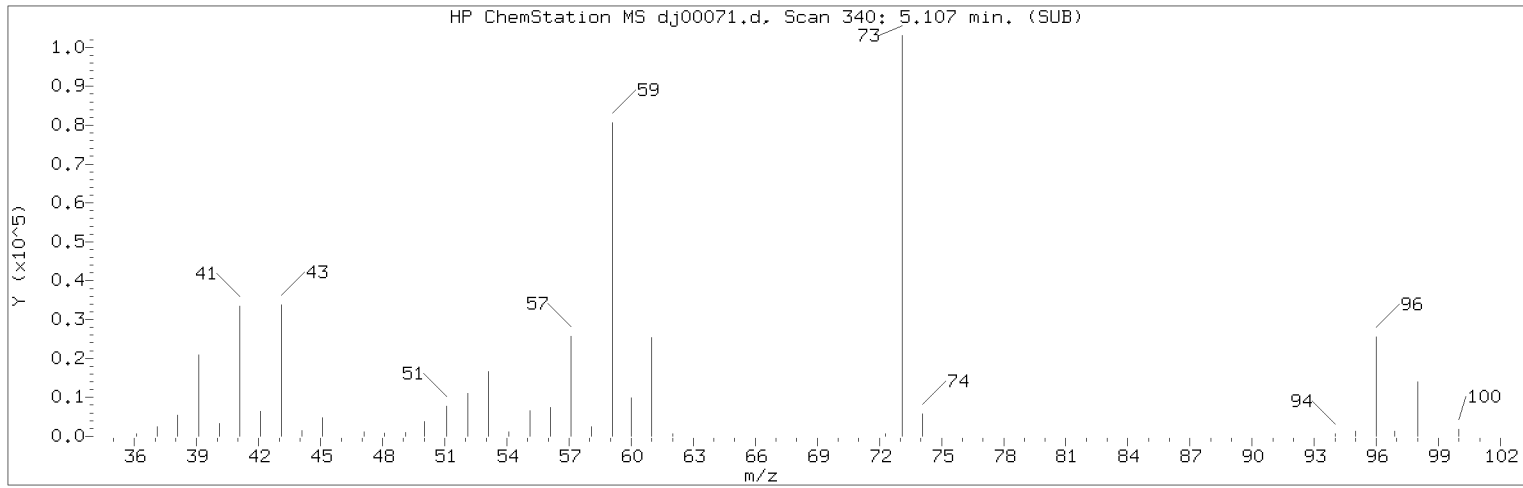
Data File: /chem/HP10145.i/15oct05.b/dj00071.d Instrument ID: HP10145.i
 Injection date and time: 05-OCT-2015 12:46 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
 Calibration date and time: 05-OCT-2015 10:06
 Date, time and analyst ID of latest file update: 05-Oct-2015 13:22 Automation

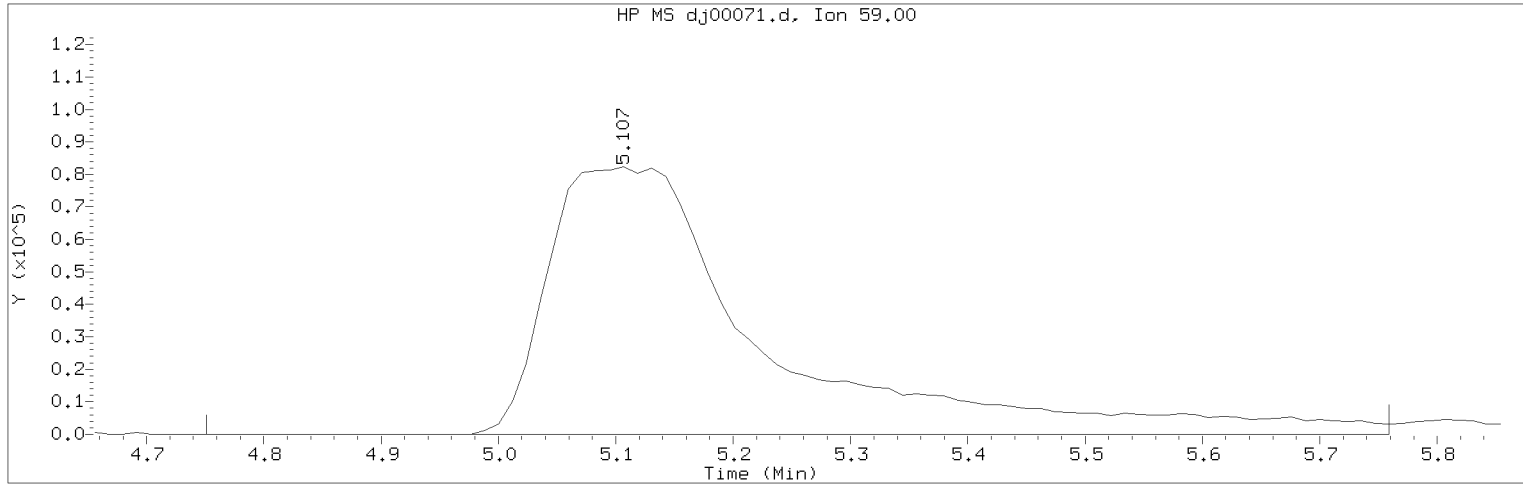
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 22
 Compound Name : Isopropanol
 Scan Number : 281
 Retention Time (minutes): 4.407
 Quant Ion : 45.00
 Area : 371686
 Concentration (ppb(v)) : 5.4766
 Integration start scan : 272 Integration stop scan: 289
 Y at integration start : 0 Y at integration end: 0

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00071.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 12:46 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 13:26 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

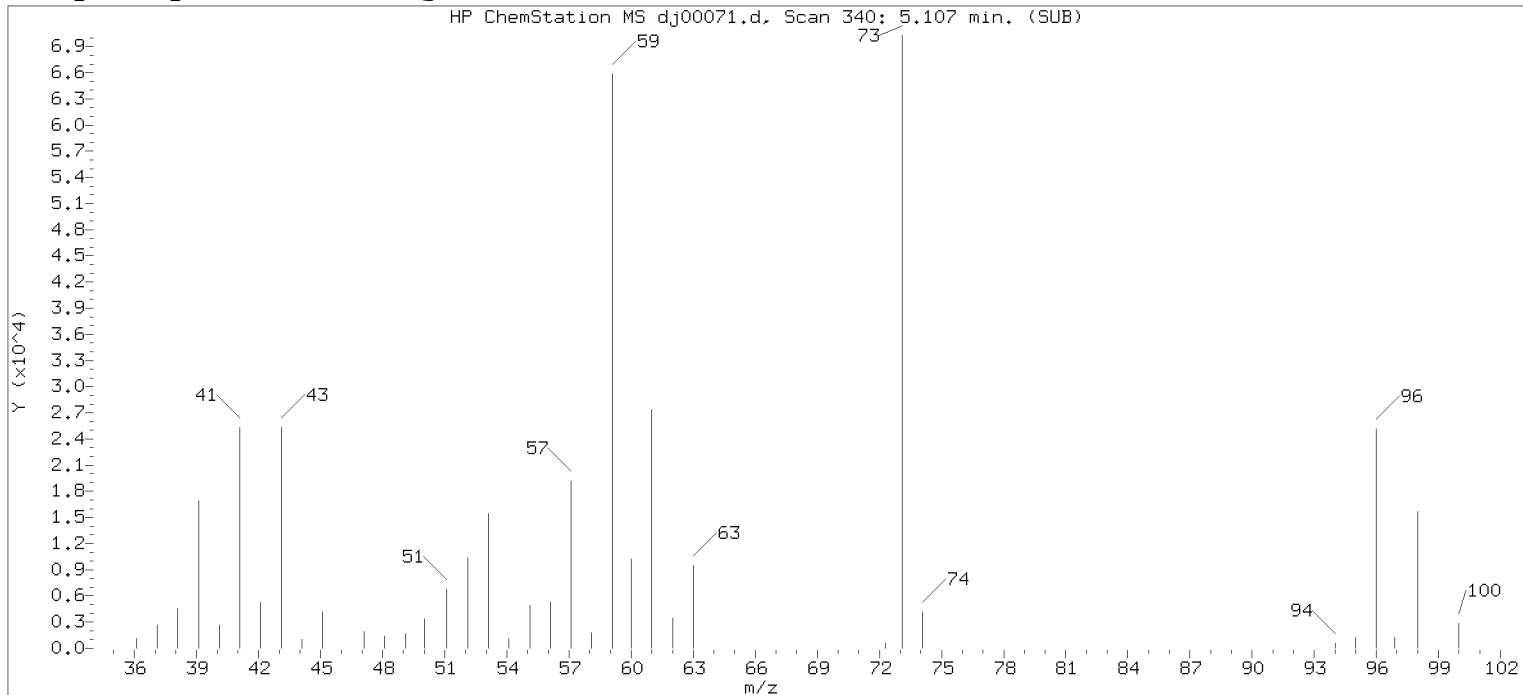
Compound Number : 26
Compound Name : tert-Butyl Alcohol
Scan Number : 340
Retention Time (minutes): 5.107
Quant Ion : 59.00
Area (flag) : 1056644M
Concentration (ppb(v)) : 9.7116
Integration start scan : 309 Integration stop scan: 394
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

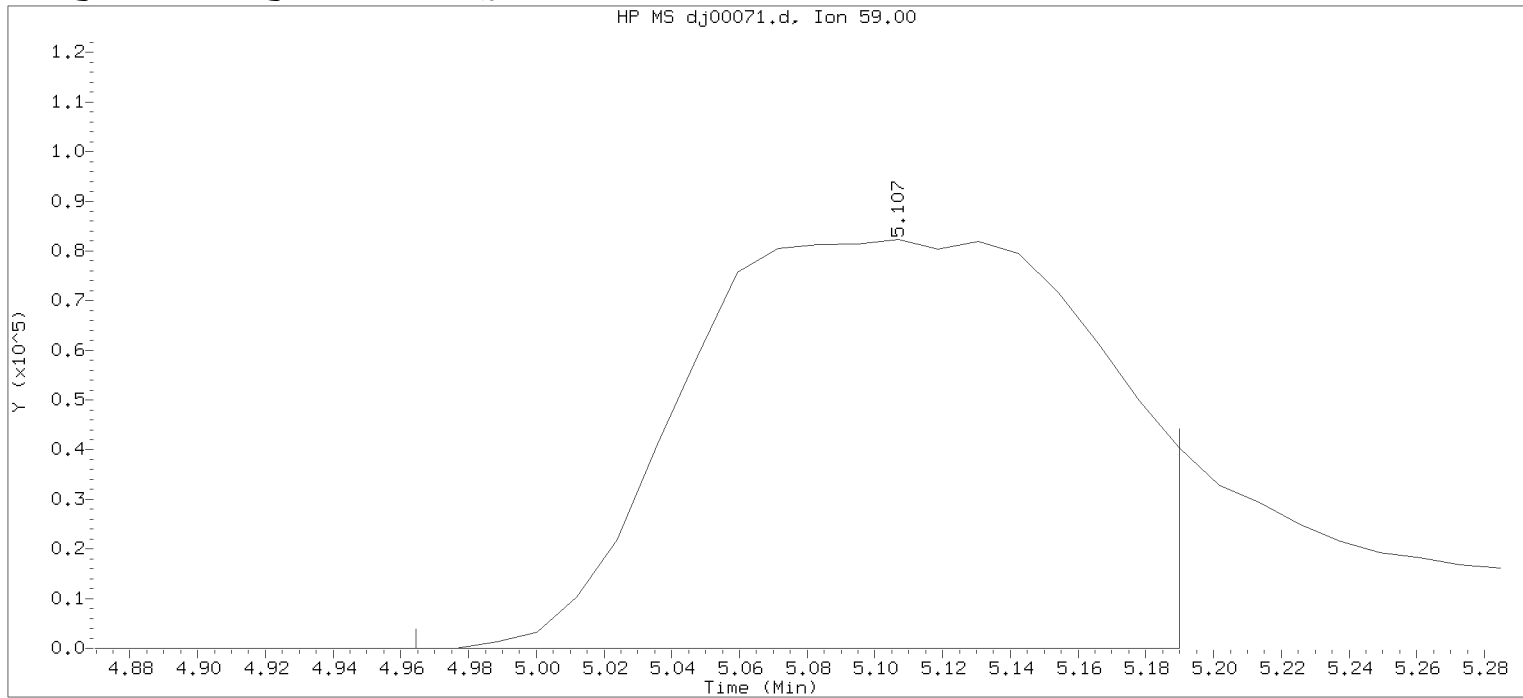
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/05/2015 at 15:45.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:55.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



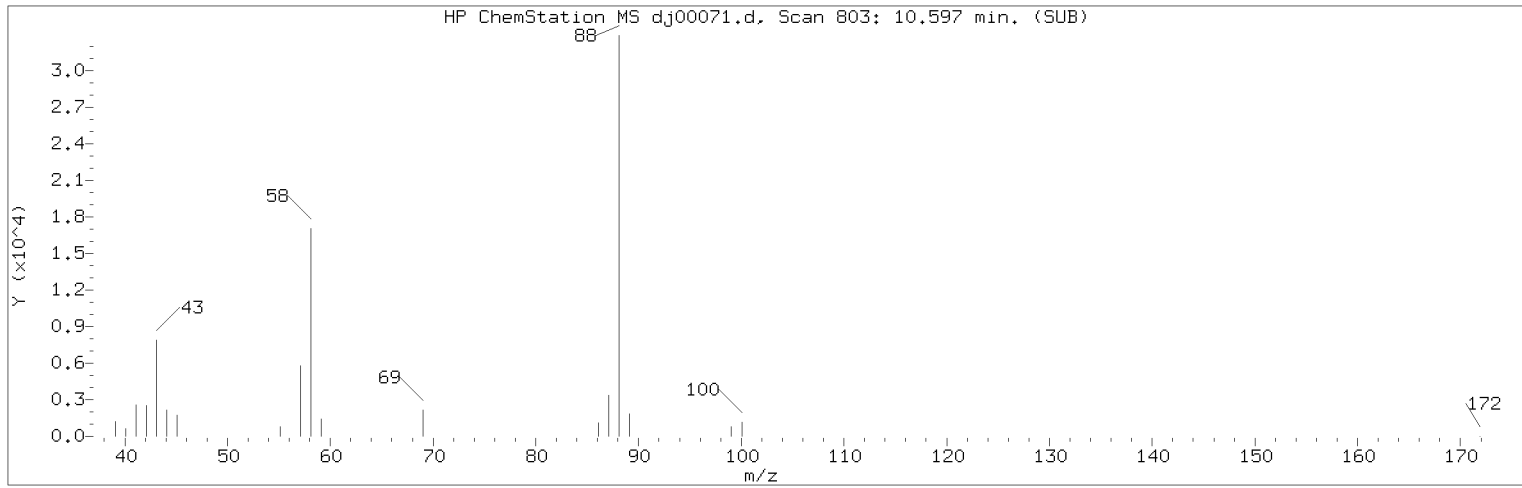
Data File: /chem/HP10145.i/15oct05.b/dj00071.d Instrument ID: HP10145.i
 Injection date and time: 05-OCT-2015 12:46 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
 Calibration date and time: 05-OCT-2015 10:06
 Date, time and analyst ID of latest file update: 05-Oct-2015 13:22 Automation

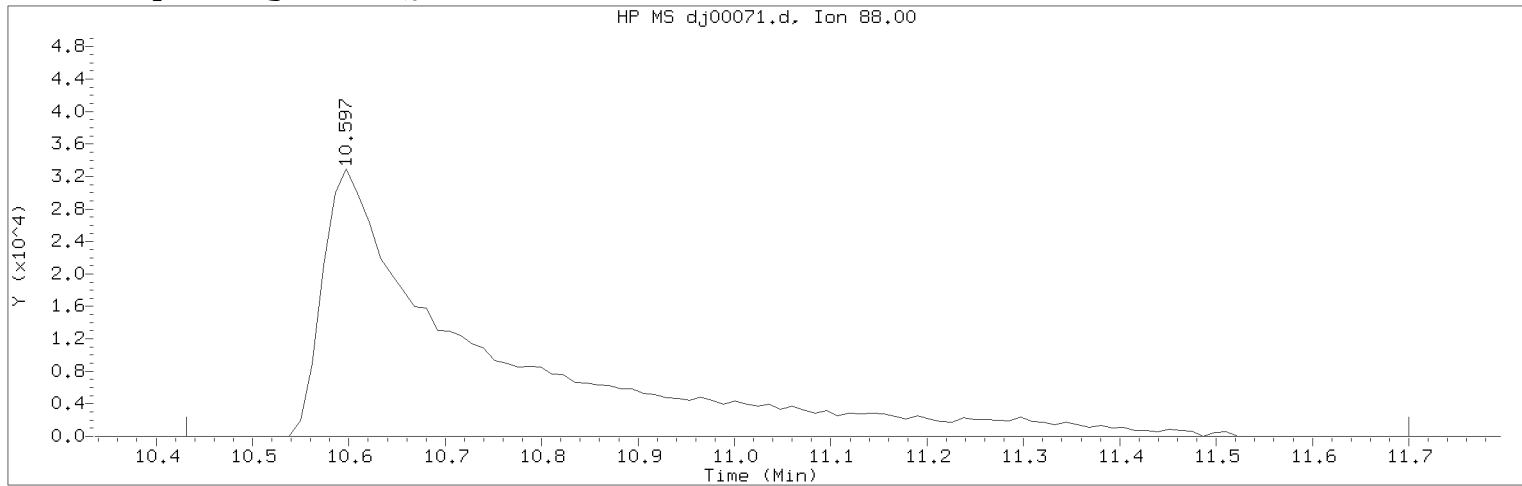
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 26
 Compound Name : tert-Butyl Alcohol
 Scan Number : 340
 Retention Time (minutes): 5.107
 Quant Ion : 59.00
 Area : 698753
 Concentration (ppb(v)) : 6.4223
 Integration start scan : 327 Integration stop scan: 346
 Y at integration start : 0 Y at integration end: 0

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00071.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 12:46 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 13:26
Date, time and analyst ID of latest file update: 05-Oct-2015 13:26 jbs01304

Sample Name: VSTD010 Lab Sample ID: VSTD010

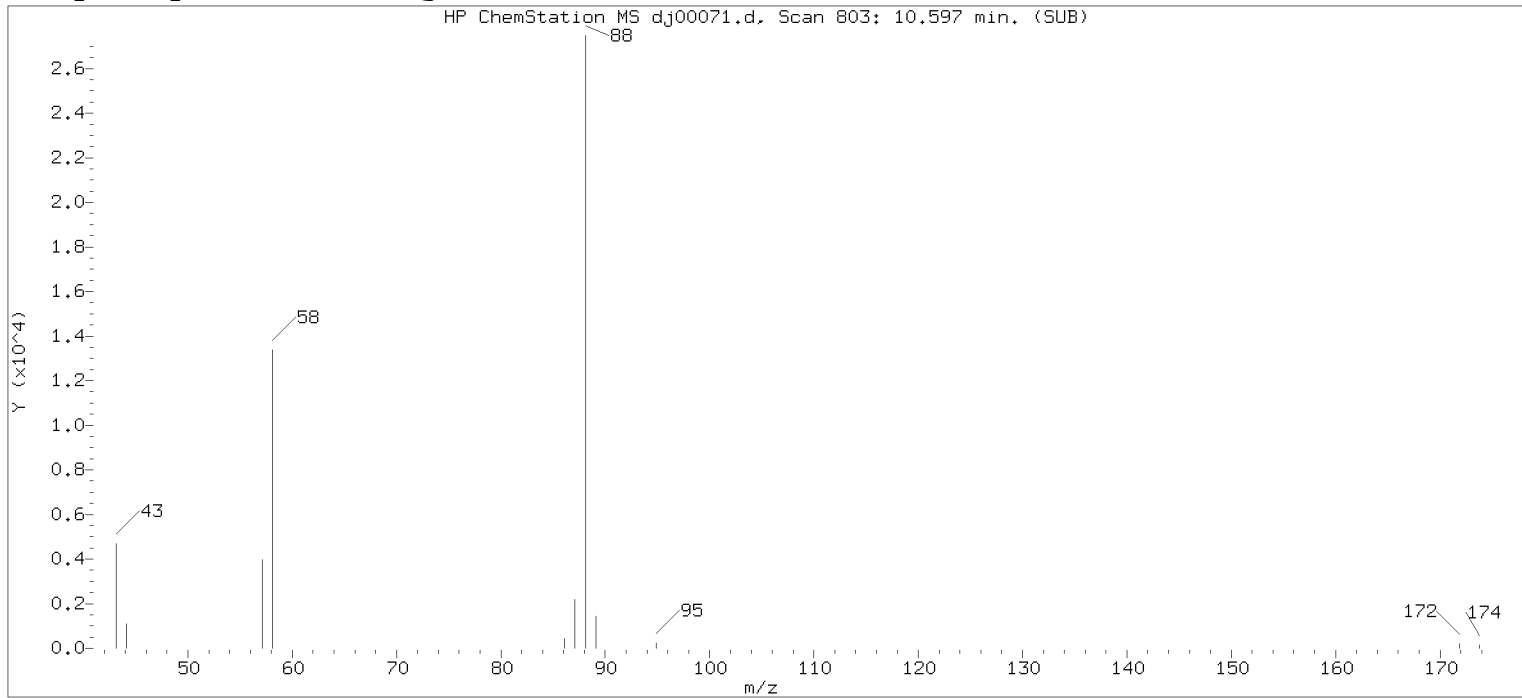
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 803
Retention Time (minutes): 10.597
Quant Ion : 88.00
Area (flag) : 374768M
Concentration (ppb(v)) : 8.9237
Integration start scan : 788 Integration stop scan: 895
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

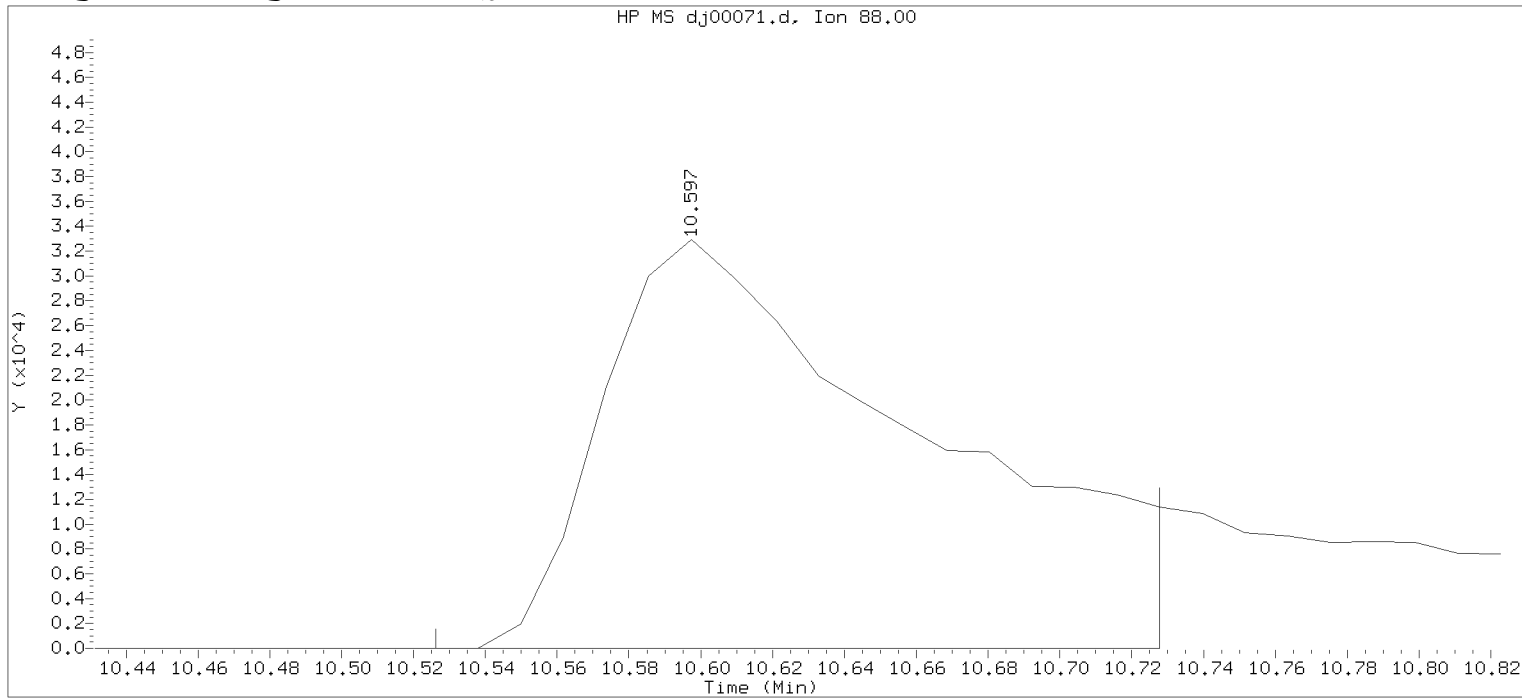
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/05/2015 at 15:45.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/08/2015 at 10:55.
Parallax ID: mar00486

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct05.b/dj00071.d Instrument ID: HP10145.i
Injection date and time: 05-OCT-2015 12:46 Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time: 05-OCT-2015 10:06
Date, time and analyst ID of latest file update: 05-Oct-2015 13:22 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 803
Retention Time (minutes): 10.597
Quant Ion : 88.00
Area : 203922
Concentration (ppb(v)) : 4.8556
Integration start scan : 796 Integration stop scan: 813
Y at integration start : 0 Y at integration end: 0

SDG No.:

Lab File ID: dj00105.d

Calibration Date: 10/06/2015

Instrument ID: 10145

Calibration Time: 16:38

Init. Calib. Date(s): 10/01/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Propene	0.402	0.289	7.332	10.2	-28
Dichlorodifluoromethane	2.870	3.250	11.439	10.1	13
Chlorodifluoromethane	1.002	0.990	10.566	10.7	-1
Freon 114	2.313	2.421	10.360	9.9	5
Chloromethane	0.182	0.138	7.825	10.3	-24
Vinyl Chloride	0.706	0.621	8.893	10.1	-12
1,3-Butadiene	0.465	0.377	8.255	10.2	-19
Bromomethane	0.896	0.873	9.546	9.8	-3
Chloroethane	0.395	0.365	8.962	9.7	-8
Bromoethene	0.879	0.839	10.127	10.6	-4
Dichlorofluoromethane	1.684	1.814	11.311	10.5	8
Trichlorofluoromethane	2.982	3.596	12.179	10.1	21
Pentane	0.927	0.729	8.252	10.5	-21
Ethanol	0.260	0.226	5.056	5.8	-13
Freon123a	1.458	1.400	10.569	11	-4
Acrolein	0.196	0.164	6.305	7.5	-16
1,1-Dichloroethene	1.208	1.283	10.615	10	6
Freon 113	1.321	1.312	9.632	9.7	-1
Acetone	0.885	0.832	10.058	10.7	-6
Methyl Iodide	2.076	2.007	9.765	10.1	-3
Carbon Disulfide	2.218	2.252	10.155	10	2
Isopropanol	1.037	0.909	8.417	9.6	-12
Acetonitrile	0.248	0.237	9.478	9.9	-4
3-Chloropropene	0.362	0.321	9.737	11	-11
Methylene Chloride	0.645	0.630	10.739	11	-2
tert-Butyl Alcohol	1.662	1.459	9.655	11	-12
Acrylonitrile	0.328	0.339	10.838	10.5	3
trans-1,2-Dichloroethene	1.011	1.072	10.596	10	6
Methyl t-Butyl Ether	2.403	2.421	10.273	10.2	1
Hexane	1.075	0.840	7.971	10.2	-22
1,1-Dichloroethane	1.388	1.302	9.470	10.1	-6
Vinyl Acetate	0.204	0.174	6.486	7.6	-15
Di-Isopropyl Ether	1.896	1.462	8.021	10.4	-23
Ethyl Tert-Butyl Ether	2.585	2.175	8.497	10.1	-16
cis-1,2-Dichloroethene	1.001	0.960	10.070	10.5	-4
2-Butanone	0.369	0.347	9.771	10.4	-6
Ethyl Acetate	0.241	0.212	9.670	11	-12
Methyl Acrylate	1.045	0.900	8.950	10.4	-14
Tetrahydrofuran	0.575	0.447	7.779	10	-22

* Maximum %DRIFT = 30%.

Average RRF for all compounds must be greater than 0.010.

SDG No.:

Lab File ID: dj00105.d

Calibration Date: 10/06/2015

Instrument ID: 10145

Calibration Time: 16:38

Init. Calib. Date(s): 10/01/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Chloroform	2.028	2.094	10.427	10.1	3
1,1,1-Trichloroethane	2.506	2.715	11.160	10.3	8
Cyclohexane	1.131	0.905	8.238	10.3	-20
Carbon Tetrachloride	2.620	2.972	11.799	10.4	13
Benzene	0.674	0.606	9.534	10.6	-10
1,2-Dichloroethane	0.327	0.358	11.381	10.4	9
Isooctane	0.894	0.724	8.509	10.5	-19
Tert-Amyl Methyl Ether	0.689	0.633	9.837	10.7	-8
Heptane	0.268	0.206	8.057	10.5	-23
Trichloroethene	0.363	0.326	9.273	10.3	-10
Ethyl Acrylate	0.356	0.308	9.339	10.8	-14
1,2-Dichloropropane	0.198	0.177	9.424	10.5	-10
Dibromomethane	0.368	0.350	9.997	10.5	-5
1,4-Dioxane	0.166	0.146	9.026	10.3	-12
Methyl Methacrylate	0.215	0.205	9.620	10.1	-5
Bromodichloromethane	0.560	0.609	11.200	10.3	9
cis-1,3-Dichloropropene	0.346	0.334	9.153	9.5	-4
4-Methyl-2-Pentanone	0.360	0.302	8.567	10.2	-16
Toluene	0.992	0.875	9.347	10.6	-12
Octane	0.396	0.301	7.831	10.3	-24
trans-1,3-Dichloropropene	0.393	0.405	10.402	10.1	3
Ethyl Methacrylate	0.406	0.380	9.468	10.1	-6
1,1,2-Trichloroethane	0.336	0.309	9.739	10.6	-8
Tetrachloroethene	0.699	0.607	9.290	10.7	-13
2-Hexanone	0.353	0.303	9.348	10.9	-14
Dibromochloromethane	0.532	0.538	9.905	9.8	1
1,2-Dibromoethane	0.542	0.496	9.158	10	-8
Chlorobenzene	0.827	0.708	9.080	10.6	-14
1,1,1,2-Tetrachloroethane	0.480	0.460	10.161	10.6	-4
Ethylbenzene	1.315	1.201	9.683	10.6	-9
m/p-Xylene	1.164	1.078	9.079	9.8	-7
o-Xylene	1.103	1.043	10.126	10.7	-5
Styrene	0.836	0.742	9.224	10.4	-11
Bromoform	0.725	0.765	10.546	10	5
Cumene	1.606	1.530	9.909	10.4	-5
Bromobenzene	0.510	0.465	9.669	10.6	-9
1,1,2,2-Tetrachloroethane	0.659	0.654	10.612	10.7	-1
1,2,3-Trichloropropane	0.245	0.251	10.443	10.2	2
n-Propylbenzene	0.450	0.407	9.049	10	-10

* Maximum %DRIFT = 30%.

Average RRF for all compounds must be greater than 0.010.

SDG No.:

Lab File ID: dj00105.d

Calibration Date: 10/06/2015

Instrument ID: 10145

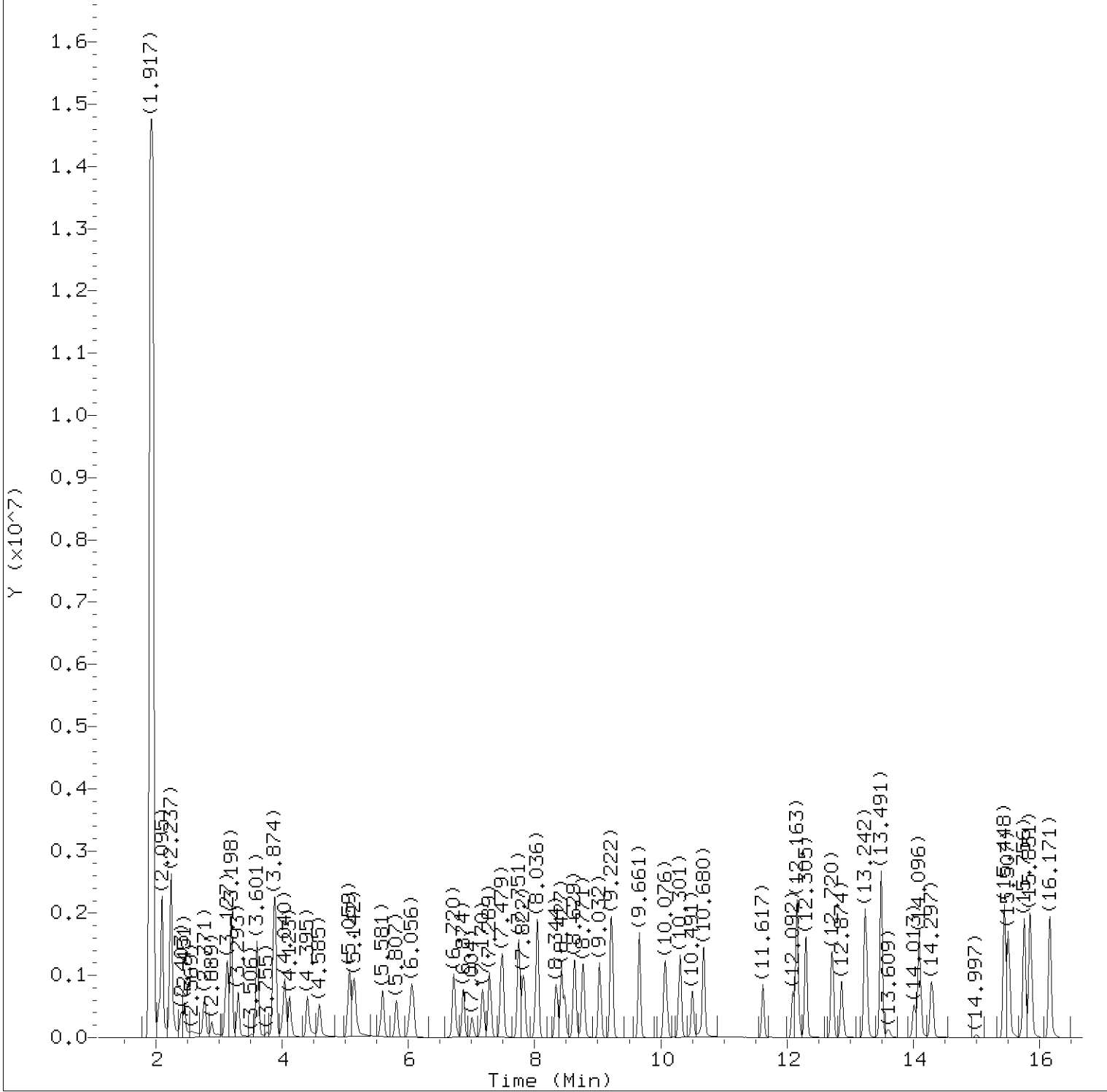
Calibration Time: 16:38

Init. Calib. Date(s): 10/01/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
2-Chlorotoluene	0.369	0.331	9.242	10.3	-10
4-Ethyltoluene	1.579	1.515	9.692	10.1	-4
1,3,5-Trimethylbenzene	1.431	1.414	10.176	10.3	-1
Alpha Methyl Styrene	0.607	0.579	9.431	9.9	-5
tert-Butylbenzene	1.412	1.381	9.975	10.2	-2
1,2,4-Trimethylbenzene	1.365	1.383	10.337	10.2	1
sec-Butylbenzene	1.857	1.876	10.203	10.1	1
1,3-Dichlorobenzene	0.817	0.811	10.433	10.5	-1
1,4-Dichlorobenzene	0.798	0.800	10.223	10.2	0
p-Isopropyltoluene	1.618	1.646	10.378	10.2	2
Benzyl Chloride	0.899	1.012	9.574	8.5	13
1,2-Dichlorobenzene	0.779	0.775	10.050	10.1	0
n-Butylbenzene	1.246	1.318	10.785	10.2	6
Hexachloroethane	0.433	0.483	12.148	10.9	11
1,2-Dibromo-3-chloropropane	0.455	0.448	9.439	9.6	-2
1,2,4-Trichlorobenzene	0.577	0.597	9.943	9.6	4
Hexachlorobutadiene	0.919	0.948	10.217	9.9	3
Naphthalene	0.957	1.015	11.024	10.4	6

* Maximum %DRIFT = 30%.

Average RRF for all compounds must be greater than 0.010.



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00105.d
Injection date and time: 06-OCT-2015 16:38

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
Calibration date and time: 06-OCT-2015 17:22

Sublist used: all

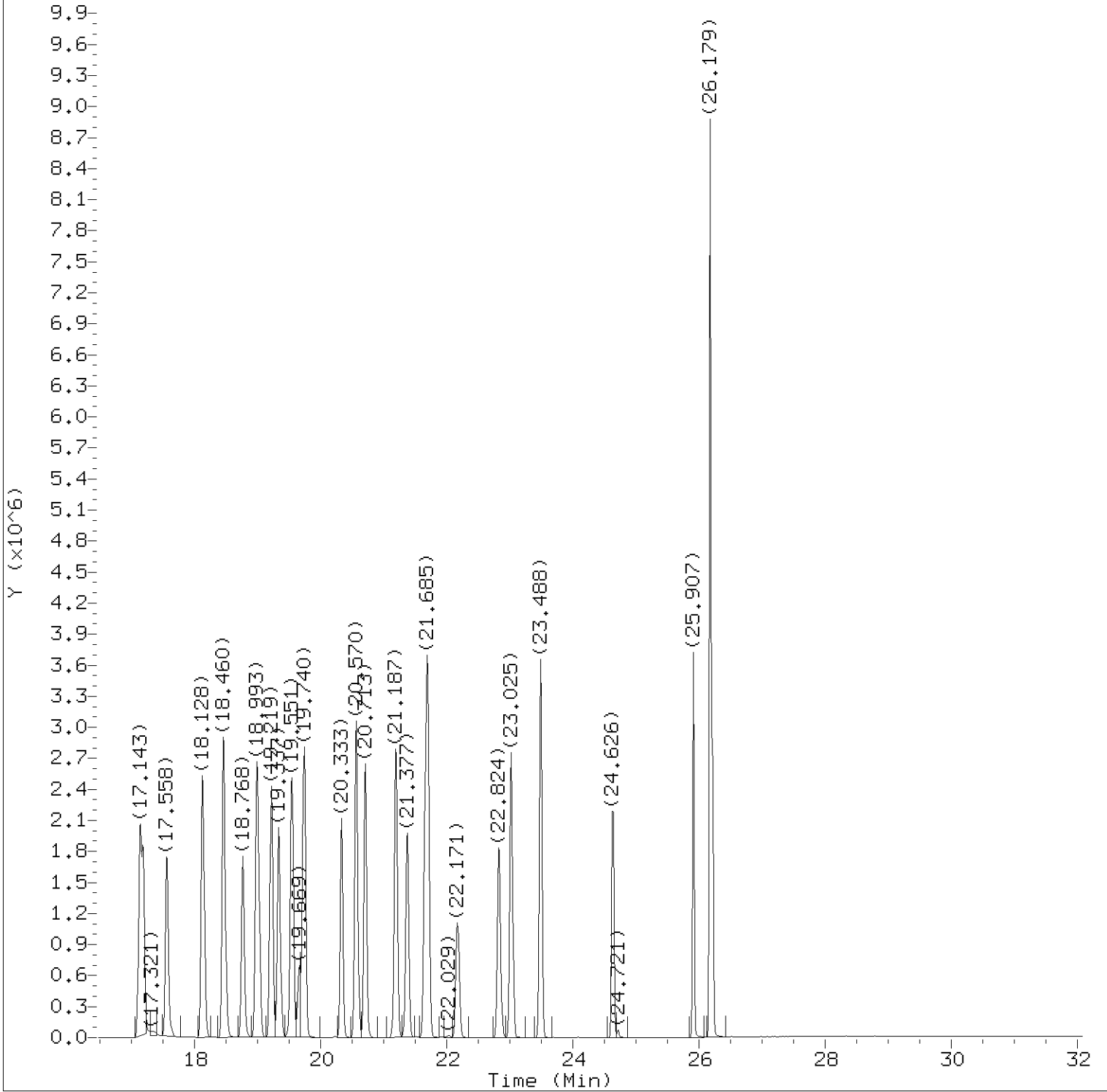
Date, time and analyst ID of latest file update: 06-Oct-2015 17:22 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 10/06/2015 at 17:27.

Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00105.d
Injection date and time: 06-OCT-2015 16:38

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
Calibration date and time: 06-OCT-2015 17:22

Sublist used: all

Date, time and analyst ID of latest file update: 06-Oct-2015 17:22 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 10/06/2015 at 17:27.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00105.d
 Injection date and time: 06-OCT-2015 16:38

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
 Calibration date and time: 06-OCT-2015 17:22
 Date, time and analyst ID of latest file update: 06-Oct-2015 17:22 jeb07445

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.047	41	200406	7.332
2) Dichlorodifluoromethane	(1)	2.083	85	2230984	11.439
3) Chlorodifluoromethane	(1)	2.095	51	719801	10.566
4) Freon 114	(1)	2.237	85	1628954	10.360
5) Chloromethane	(1)	2.273	52	96570	7.825
6) Vinyl Chloride	(1)	2.403	62	426528	8.893
7) 1,3-Butadiene	(1)	2.451	54	261164	8.255
8) Bromomethane	(1)	2.771	94	581600	9.546
9) Chloroethane	(1)	2.889	64	240753	8.962
10) Bromoethene	(1)	3.103	106	604779	10.127
11) Dichlorofluoromethane	(1)	3.127	67	1294365	11.311
12) Trichlorofluoromethane	(1)	3.198	101	2468217	12.179
13) Pentane	(1)	3.293	43	520021	8.252
15) Freon123a	(1)	3.601	67	1046991	10.569
14) Ethanol	(1)	3.696	45	89262M	5.056
16) Acrolein	(1)	3.755	56	83780	6.305
17) 1,1-Dichloroethene	(1)	3.850	61	871844	10.615
18) Freon 113	(1)	3.885	103	864949	9.632
19) Acetone	(1)	4.004	43	604931	10.058
20) Methyl Iodide	(1)	4.040	142	1377654	9.765
21) Carbon Disulfide	(1)	4.123	76	1530601	10.155
24) 3-Chloropropene	(1)	4.395	76	239863	9.737
23) Acetonitrile	(1)	4.395	40	159678	9.478
22) Isopropanol	(1)	4.431	45	593071M	8.417
25) Methylene Chloride	(1)	4.585	84	470847	10.739
28) trans-1,2-Dichloroethene	(1)	5.059	61	728297	10.596
27) Acrylonitrile	(1)	5.059	53	241830	10.838
26) tert-Butyl Alcohol	(1)	5.107	59	1090715M	9.655
29) Methyl t-Butyl Ether	(1)	5.142	73	1677999	10.273
30) Hexane	(1)	5.581	57	582103	7.971
31) 1,1-Dichloroethane	(1)	5.807	63	893643	9.470
32) Vinyl Acetate	(1)	6.020	86	89946	6.486
33) Di-Isopropyl Ether	(1)	6.056	45	1033713M	8.021
36) 1,2-Dichloroethene (total)	(1)		61	1413732	20.666
34) Ethyl Tert-Butyl Ether	(1)	6.720	59	1493000	8.497
35) cis-1,2-Dichloroethene	(1)	6.862	61	685435	10.070
37) 2-Butanone	(1)	7.004	72	245065	9.771
38) Ethyl Acetate	(1)	7.158	70	158544	9.670

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
 on 10/06/2015 at 17:27.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00105.d
 Injection date and time: 06-OCT-2015 16:38

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
 Calibration date and time: 06-OCT-2015 17:22
 Date, time and analyst ID of latest file update: 06-Oct-2015 17:22 jeb07445

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.182	55	635912	8.950
40)*Bromochloromethane	(1)	7.289	130	679647	10.000
41) Tetrahydrofuran	(1)	7.467	42	304055	7.779
42) Chloroform	(1)	7.490	83	1437401	10.427
43) 1,1,1-Trichloroethane	(1)	7.751	97	1900408	11.160
44) Cyclohexane	(1)	7.822	56	633331	8.238
45) Carbon Tetrachloride	(1)	8.036	117	2100996	11.799
46) Benzene	(2)	8.427	78	1649929	9.534
47) 1,2-Dichloroethane	(2)	8.487	62	956941	11.381
48) Isooctane	(2)	8.629	57	1952712	8.509
49) Tert-Amyl Methyl Ether	(2)	8.771	73	1739385	9.837
50) Heptane	(2)	9.032	43	554259	8.057
51)*1,4-Difluorobenzene	(2)	9.222	114	2568110	10.000
52) Trichloroethene	(2)	9.661	130	863534	9.273
53) Ethyl Acrylate	(2)	10.052	55	853971	9.339
54) 1,2-Dichloropropane	(2)	10.076	63	478249	9.424
55) Dibromomethane	(2)	10.301	174	944163	9.997
57) Methyl Methacrylate	(2)	10.503	69	531901	9.620
56) 1,4-Dioxane	(2)	10.609	88	385551M	9.026
58) Bromodichloromethane	(2)	10.680	83	1611254	11.200
59) cis-1,3-Dichloropropene	(2)	11.617	75	814003	9.153
60) 4-Methyl-2-Pentanone	(2)	12.092	43	791116	8.567
61) Toluene	(3)	12.305	91	2191223	9.347
62) Octane	(3)	12.708	43	732767	7.831
63) trans-1,3-Dichloropropene	(3)	12.874	75	966604	10.402
64) 1,3-Dichloropropene (total)	(3)		75	1780607	19.555
65) Ethyl Methacrylate	(3)	13.230	69	908024	9.468
66) 1,1,2-Trichloroethane	(3)	13.254	97	774518	9.739
67) Tetrachloroethene	(3)	13.491	166	1535304	9.290
68) 2-Hexanone	(3)	14.013	43	780277	9.348
69) Dibromochloromethane	(3)	14.096	127	1245801	9.905
70) 1,2-Dibromoethane	(3)	14.297	107	1172418	9.158
71)*Chlorobenzene-d5	(3)	15.448	117	2363463	10.000
72) Chlorobenzene	(3)	15.507	112	1774574	9.080
73) 1,1,1,2-Tetrachloroethane	(3)	15.756	131	1152860	10.161
74) Ethylbenzene	(3)	15.851	91	3008882	9.683
75) m/p-Xylene	(3)	16.171	91	2497551	9.079
76) o-Xylene	(3)	17.131	91	2638639	10.126

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00105.d
 Injection date and time: 06-OCT-2015 16:38

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
 Calibration date and time: 06-OCT-2015 17:22
 Date, time and analyst ID of latest file update: 06-Oct-2015 17:22 jeb07445

Sublist used: all

Sample Name: VSTD010

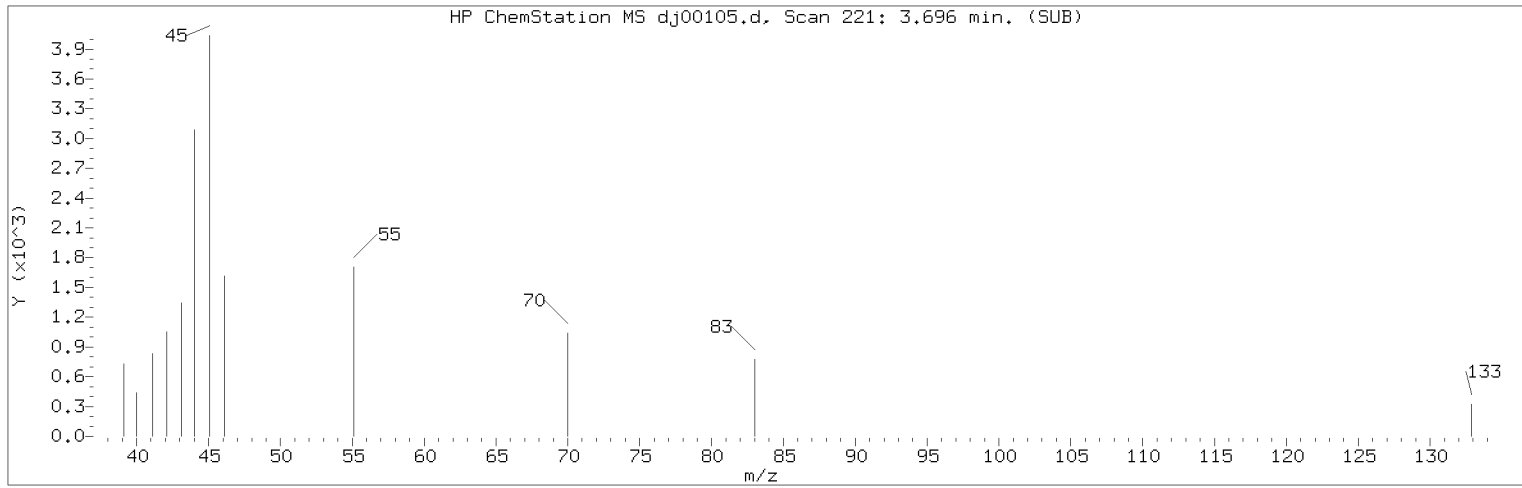
Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.191	104	1823268	9.224
77) Xylene (total)	(3)		91	5136190	19.205
79) Bromoform	(3)	17.570	173	1807329	10.546
80) Cumene	(3)	18.128	105	3760738	9.909
81) Bromobenzene	(3)	18.768	156	1165647	9.669
82) 1,1,2,2-Tetrachloroethane	(3)	18.981	83	1653362	10.612
83) 1,2,3-Trichloropropane	(3)	19.017	110	604610	10.443
84) n-Propylbenzene	(3)	19.219	120	962044	9.049
85) 2-Chlorotoluene	(3)	19.337	126	806688	9.242
86) 4-Ethyltoluene	(3)	19.551	105	3616083	9.692
87) 1,3,5-Trimethylbenzene	(3)	19.740	105	3441294	10.176
88) Alpha Methyl Styrene	(3)	20.333	118	1353784	9.431
89) tert-Butylbenzene	(3)	20.570	119	3329705	9.975
90) 1,2,4-Trimethylbenzene	(3)	20.713	105	3334737	10.337
91) sec-Butylbenzene	(3)	21.187	105	4479102	10.203
92) 1,3-Dichlorobenzene	(3)	21.377	146	2013643	10.433
93) 1,4-Dichlorobenzene	(3)	21.661	146	1927628	10.223
94) p-Isopropyltoluene	(3)	21.697	119	3967571	10.378
95) Benzyl Chloride	(3)	22.171	91	2034028	9.574
96) 1,2-Dichlorobenzene	(3)	22.835	146	1850593	10.050
97) n-Butylbenzene	(3)	23.025	91	3176440	10.785
98) Hexachloroethane	(3)	23.488	117	1244281	12.148
99) 1,2-Dibromo-3-chloropropane	(3)	24.638	157	1015993	9.439
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	1355185	9.943
101) Hexachlorobutadiene	(3)	26.179	225	2218414	10.217
102) Naphthalene	(3)	26.215	128	2493870	11.024

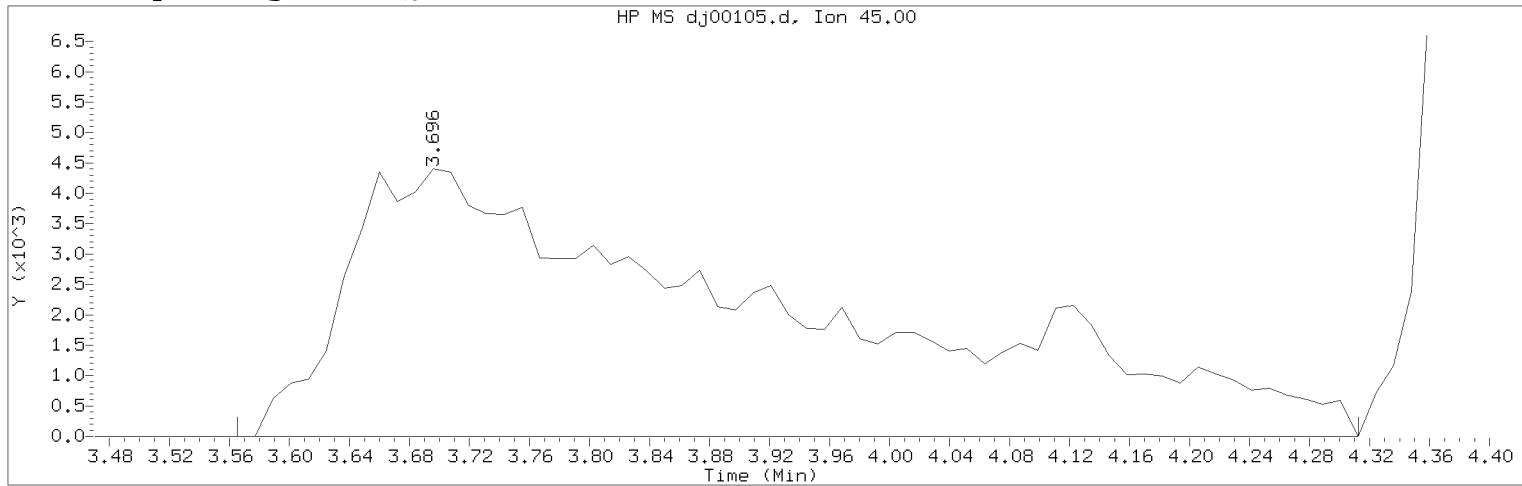
Digitally signed by Jacob E. Bailey
 on 10/06/2015 at 17:27.

Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct06.b/dj00105.d Instrument ID: HP10145.i
Injection date and time: 06-OCT-2015 16:38 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
Calibration date and time: 06-OCT-2015 17:22
Date, time and analyst ID of latest file update: 06-Oct-2015 17:22 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

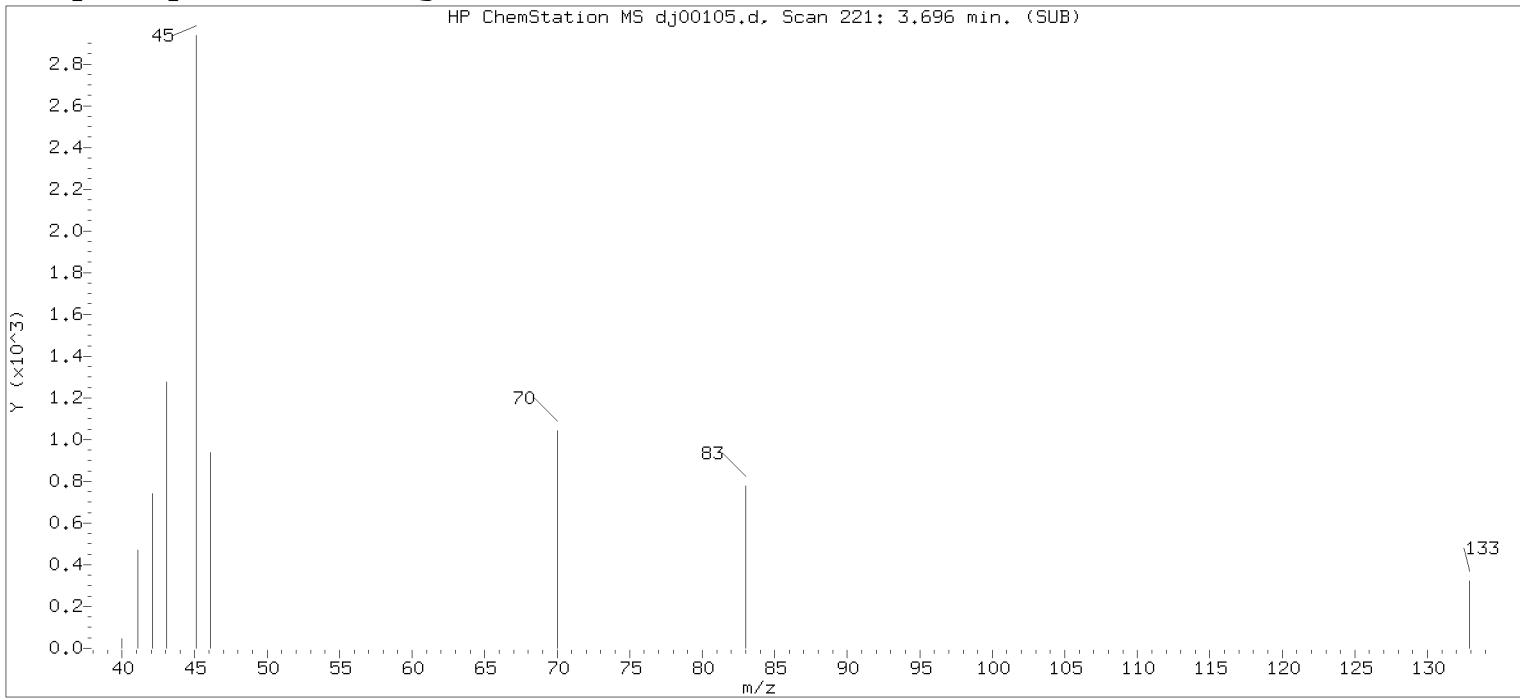
Compound Number : 14
Compound Name : Ethanol
Scan Number : 221
Retention Time (minutes): 3.696
Quant Ion : 45.00
Area (flag) : 89262M
Concentration (ppb(v)) : 5.0564
Integration start scan : 209 Integration stop scan: 272
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

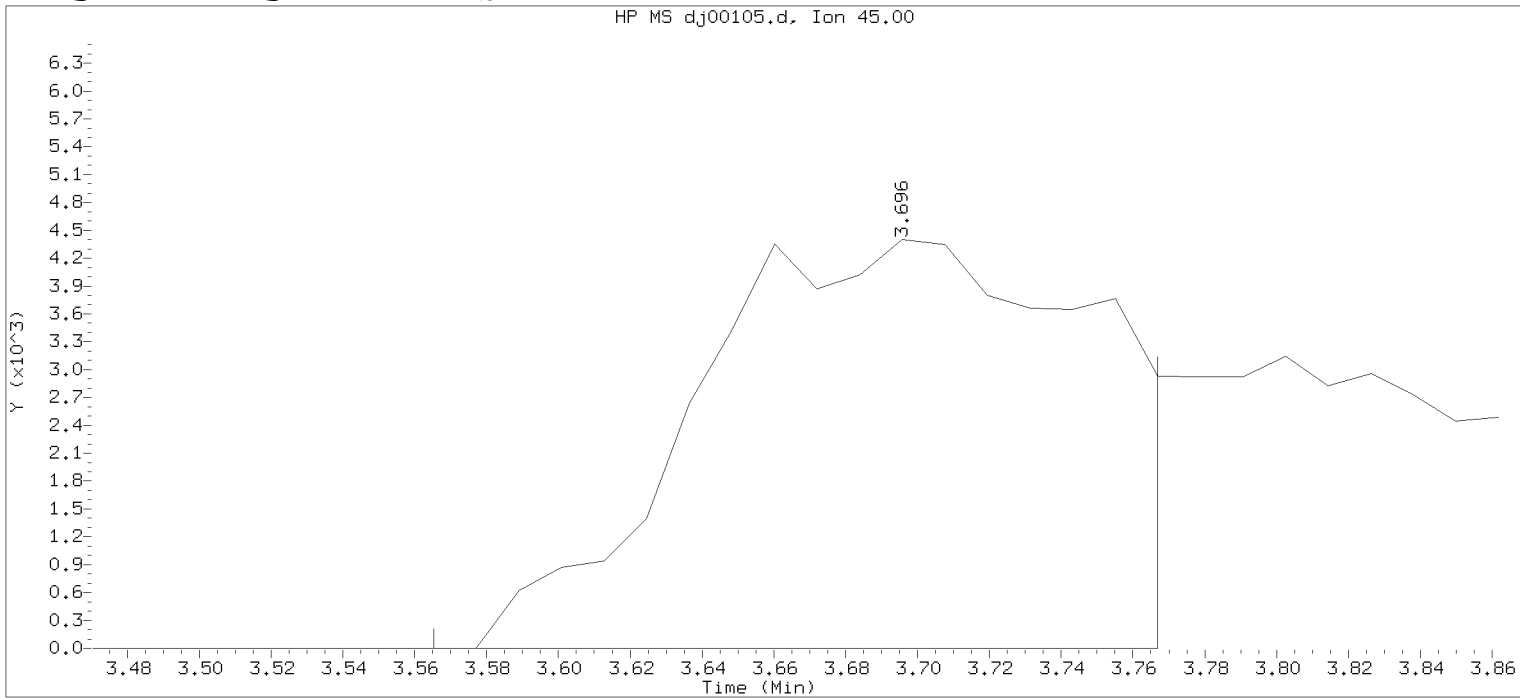
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/06/2015 at 17:27.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/08/2015 at 11:22.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



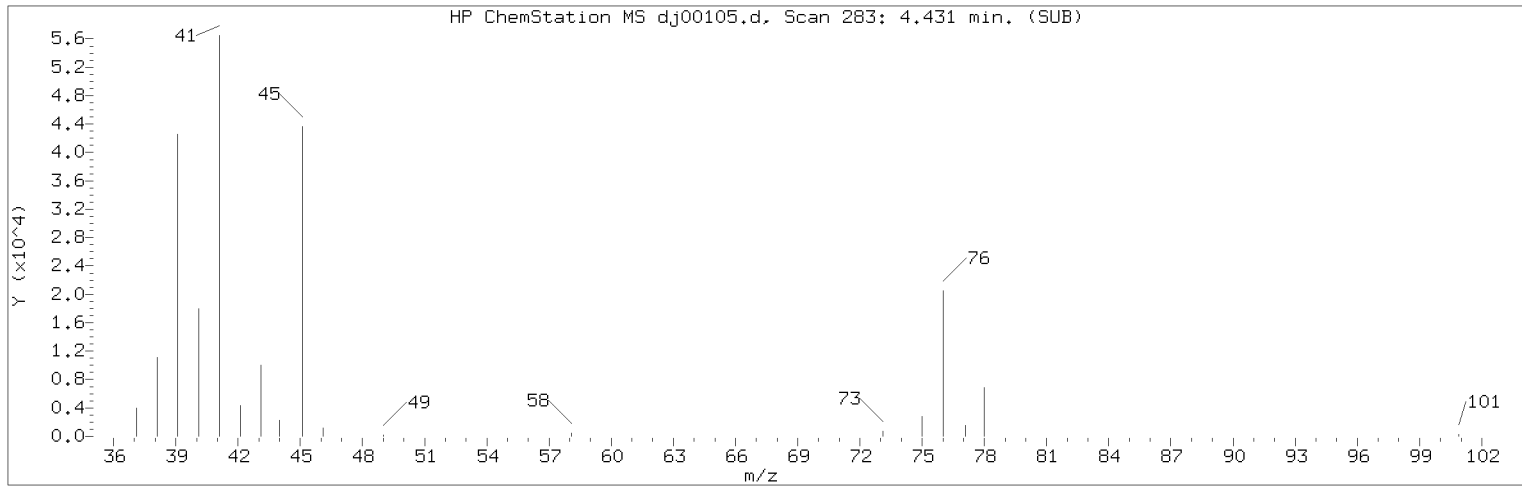
Data File: /chem/HP10145.i/15oct06.b/dj00105.d Instrument ID: HP10145.i
Injection date and time: 06-OCT-2015 16:38 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
Calibration date and time: 06-OCT-2015 13:47
Date, time and analyst ID of latest file update: 06-Oct-2015 17:19 Automation

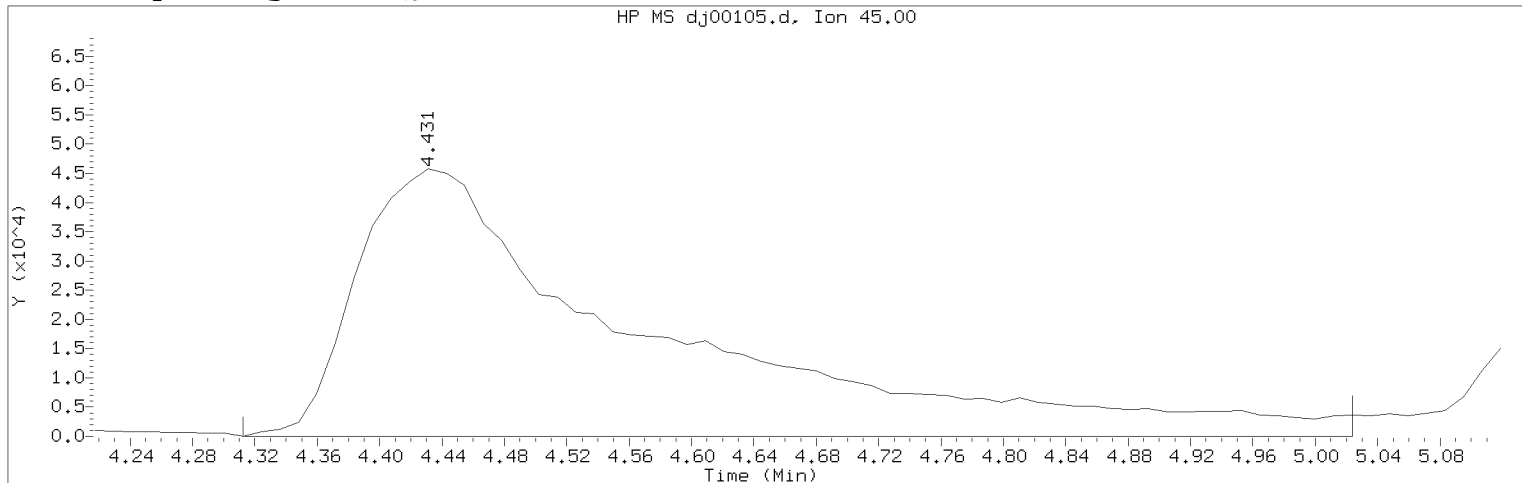
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 14
Compound Name : Ethanol
Scan Number : 221
Retention Time (minutes): 3.696
Quant Ion : 45.00
Area : 33606
Concentration (ppb(v)) : 1.9037
Integration start scan : 209 Integration stop scan: 226
Y at integration start : 0 Y at integration end: 0

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct06.b/dj00105.d Instrument ID: HP10145.i
Injection date and time: 06-OCT-2015 16:38 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
Calibration date and time: 06-OCT-2015 17:22
Date, time and analyst ID of latest file update: 06-Oct-2015 17:22 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

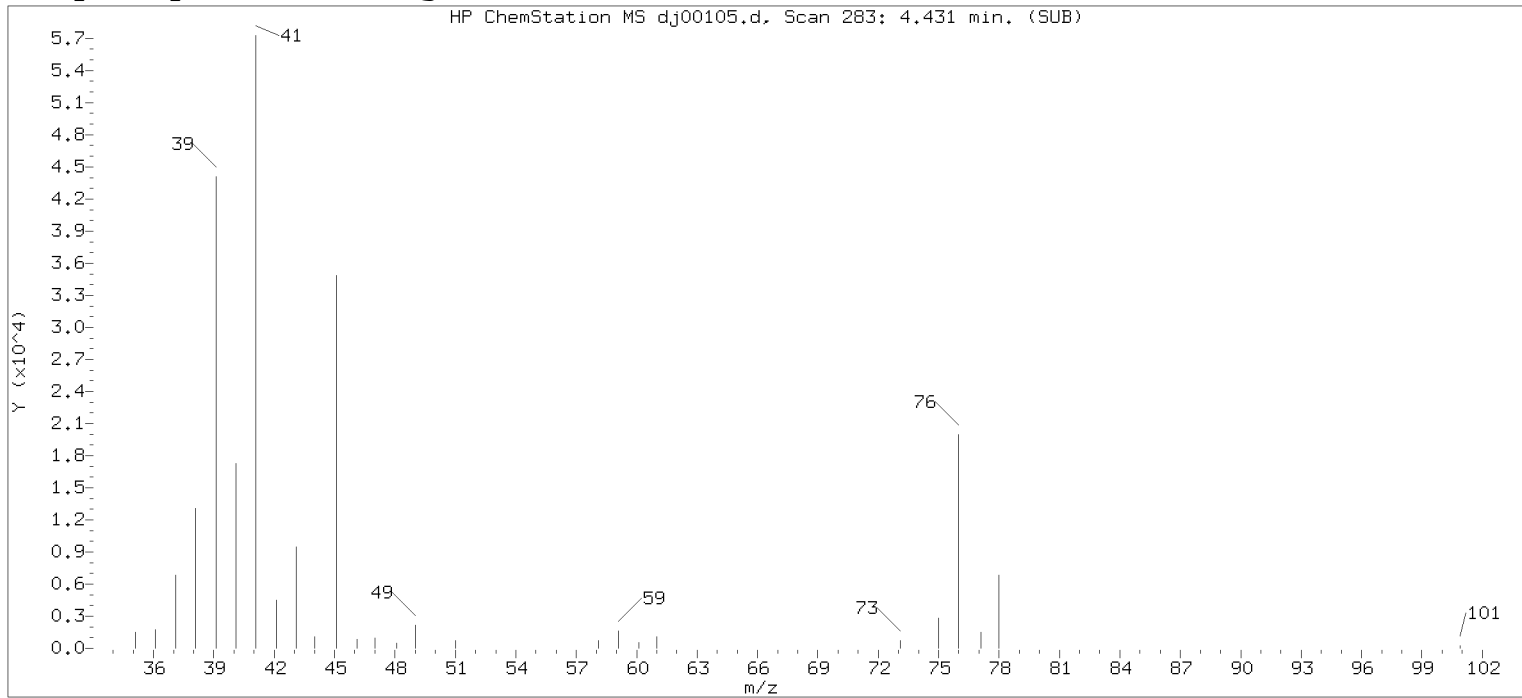
Compound Number : 22
Compound Name : Isopropanol
Scan Number : 283
Retention Time (minutes): 4.431
Quant Ion : 45.00
Area (flag) : 593071M
Concentration (ppb(v)) : 8.4166
Integration start scan : 272 Integration stop scan: 332
Y at integration start : 9 Y at integration end: 9

Reason for manual integration: improper integration

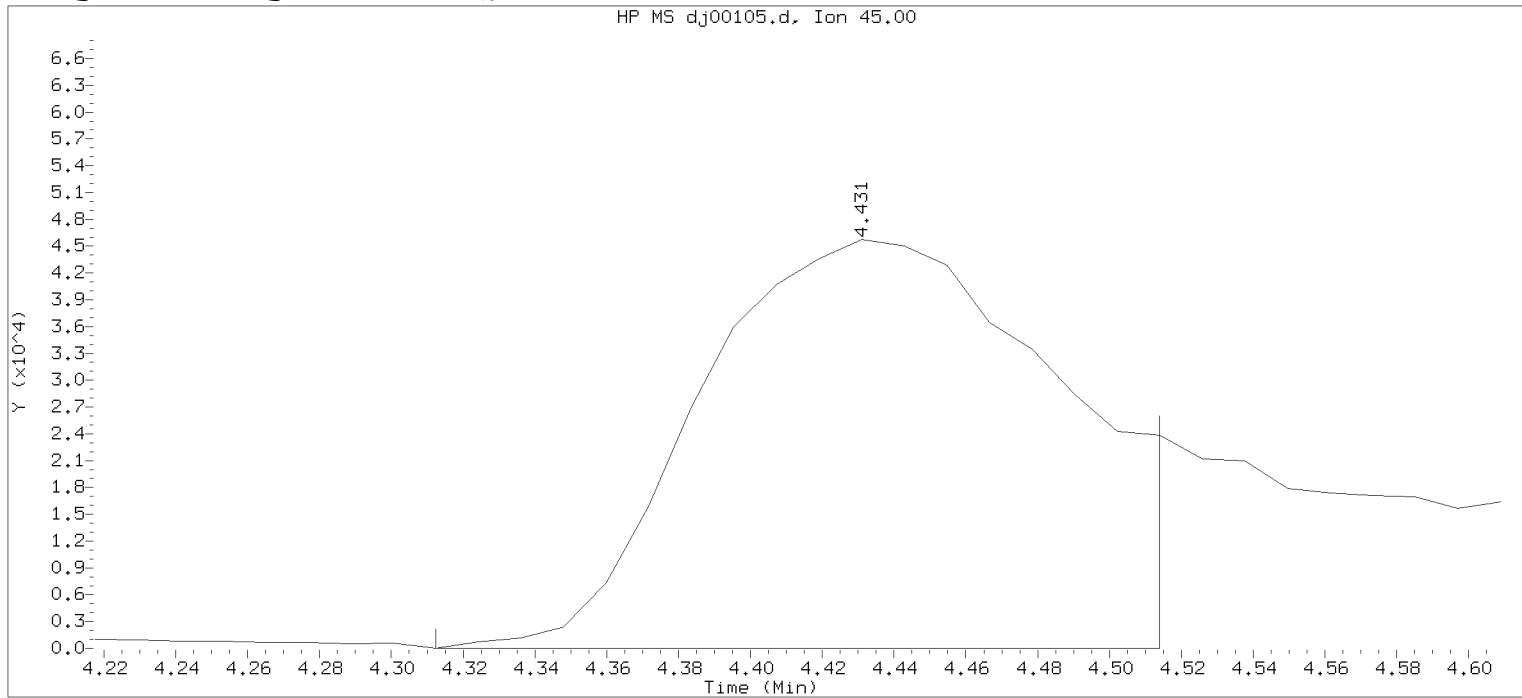
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/06/2015 at 17:27.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/08/2015 at 11:22.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



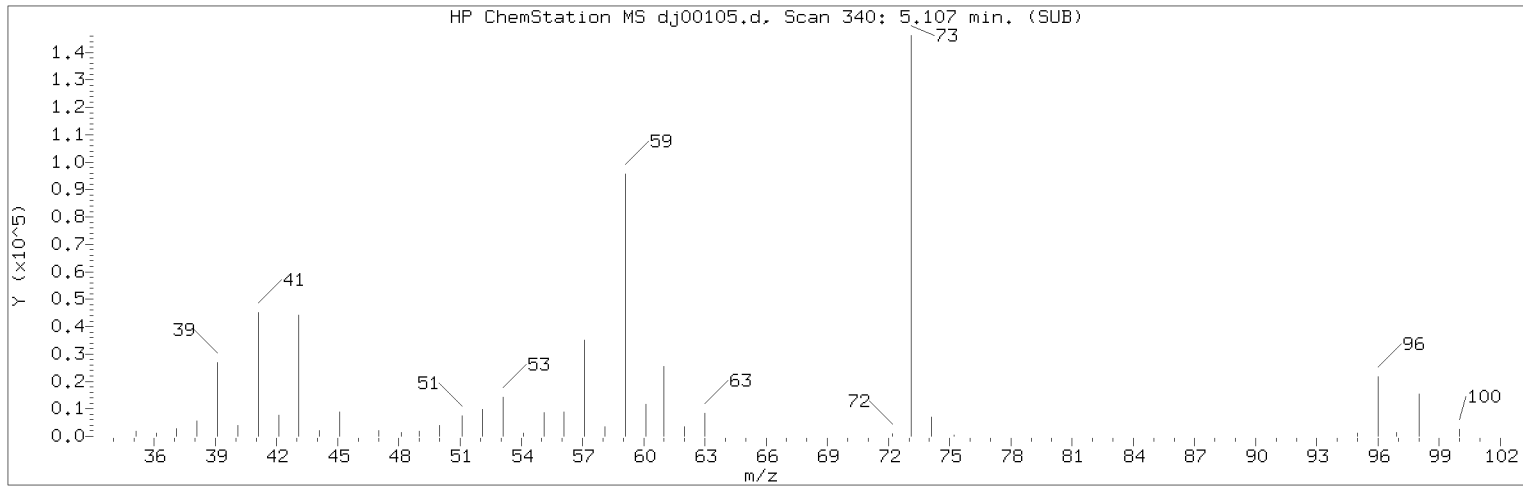
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 Injection date and time: 06-OCT-2015 16:38 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
 Calibration date and time: 06-OCT-2015 13:47
 Date, time and analyst ID of latest file update: 06-Oct-2015 17:19 Automation

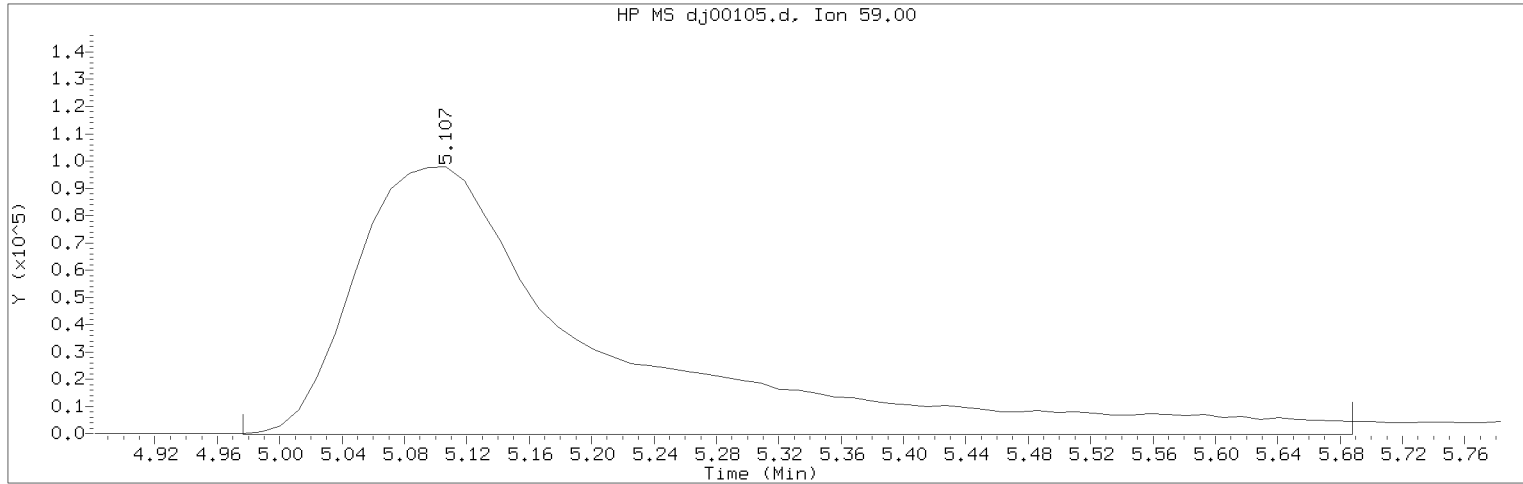
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 22
 Compound Name : Isopropanol
 Scan Number : 283
 Retention Time (minutes): 4.431
 Quant Ion : 45.00
 Area : 315138
 Concentration (ppb(v)) : 4.4723
 Integration start scan : 272 Integration stop scan: 289
 Y at integration start : 0 Y at integration end: 0

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct06.b/dj00105.d Instrument ID: HP10145.i
Injection date and time: 06-OCT-2015 16:38 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
Calibration date and time: 06-OCT-2015 17:22
Date, time and analyst ID of latest file update: 06-Oct-2015 17:22 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

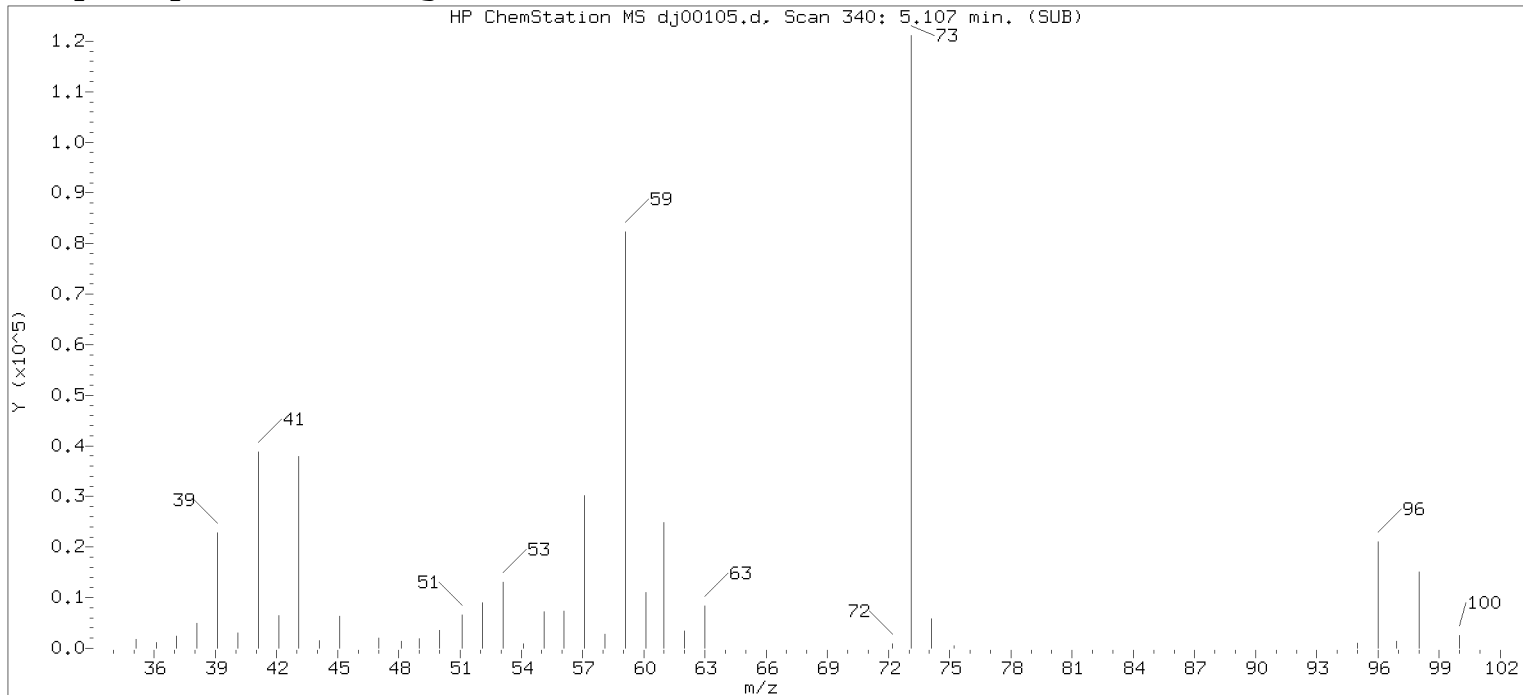
Compound Number : 26
Compound Name : tert-Butyl Alcohol
Scan Number : 340
Retention Time (minutes): 5.107
Quant Ion : 59.00
Area (flag) : 1090715M
Concentration (ppb(v)) : 9.6555
Integration start scan : 328 Integration stop scan: 388
Y at integration start : -123 Y at integration end: -123

Reason for manual integration: improper integration

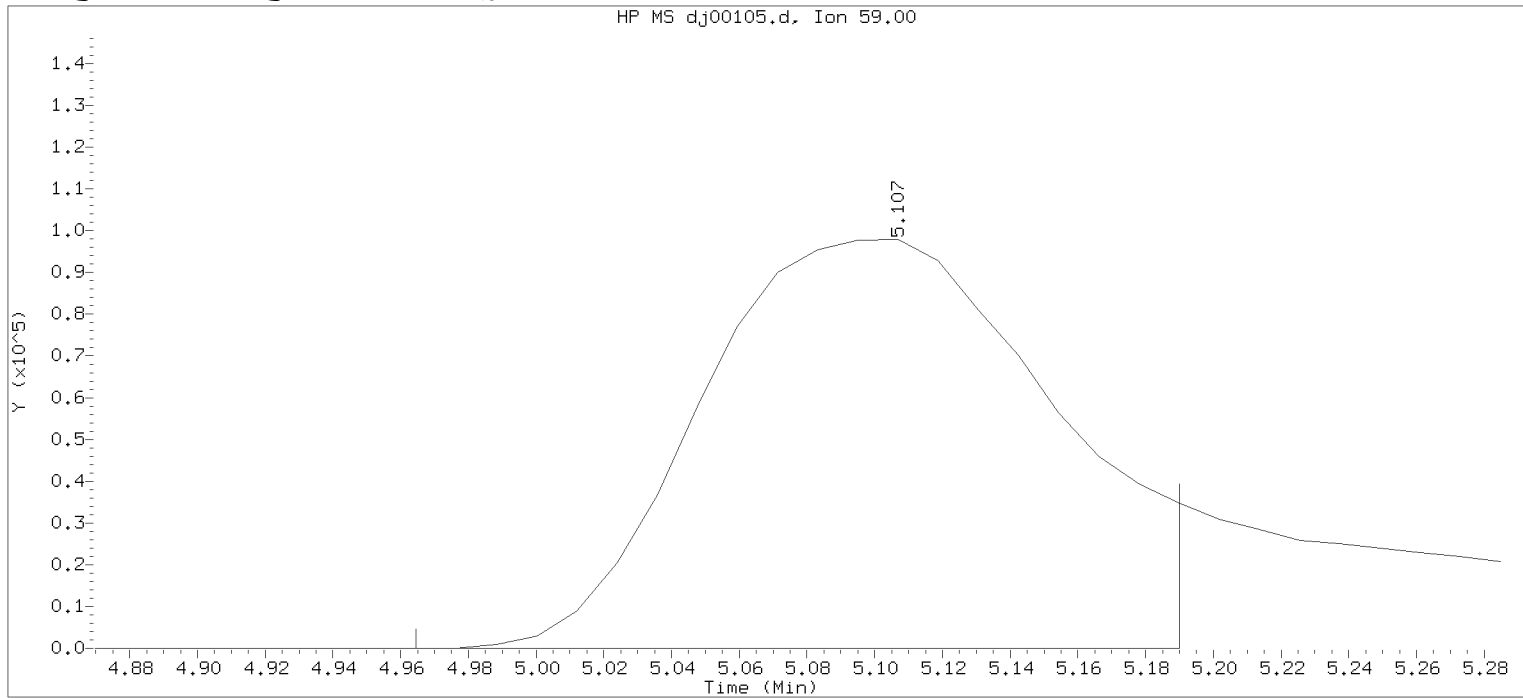
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/06/2015 at 17:27.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/08/2015 at 11:22.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



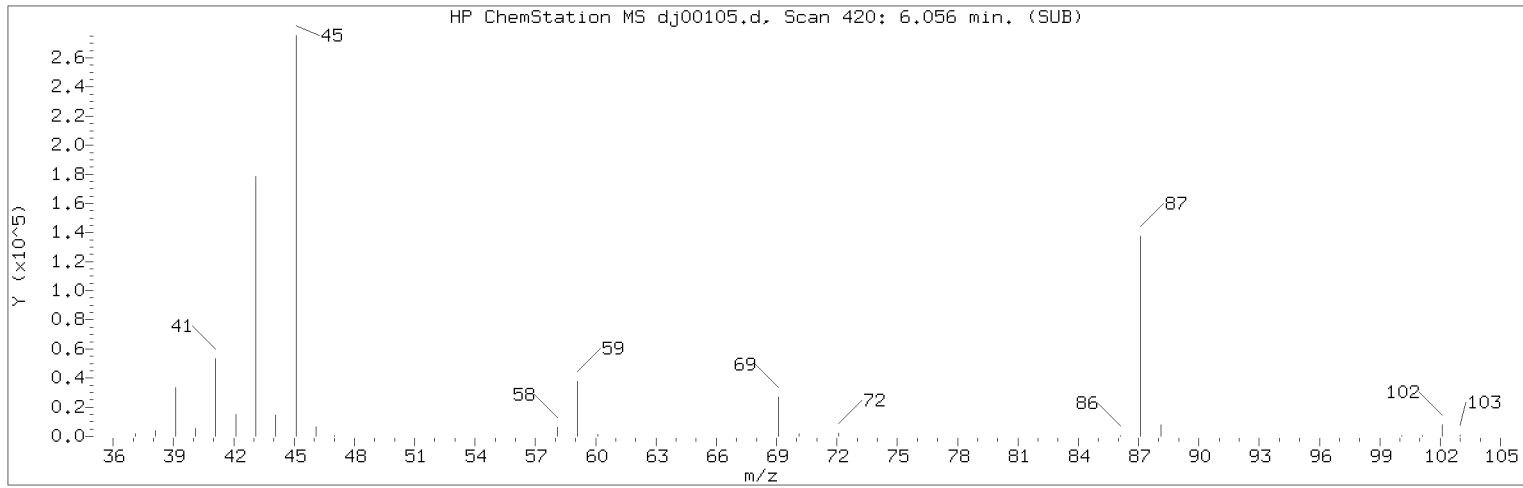
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 Injection date and time: 06-OCT-2015 16:38 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
 Calibration date and time: 06-OCT-2015 13:47
 Date, time and analyst ID of latest file update: 06-Oct-2015 17:19 Automation

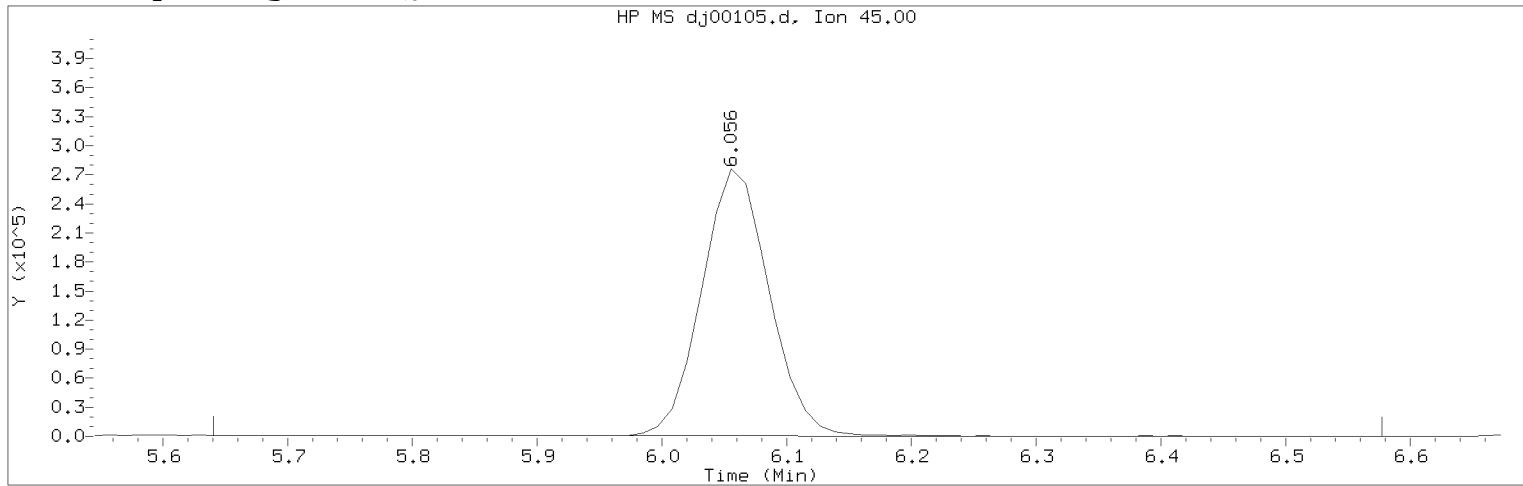
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 26
 Compound Name : tert-Butyl Alcohol
 Scan Number : 340
 Retention Time (minutes): 5.107
 Quant Ion : 59.00
 Area : 703438
 Concentration (ppb(v)) : 6.2271
 Integration start scan : 327 Integration stop scan: 346
 Y at integration start : 0 Y at integration end: 0

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct06.b/dj00105.d Instrument ID: HP10145.i
Injection date and time: 06-OCT-2015 16:38 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
Calibration date and time: 06-OCT-2015 17:22
Date, time and analyst ID of latest file update: 06-Oct-2015 17:22 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

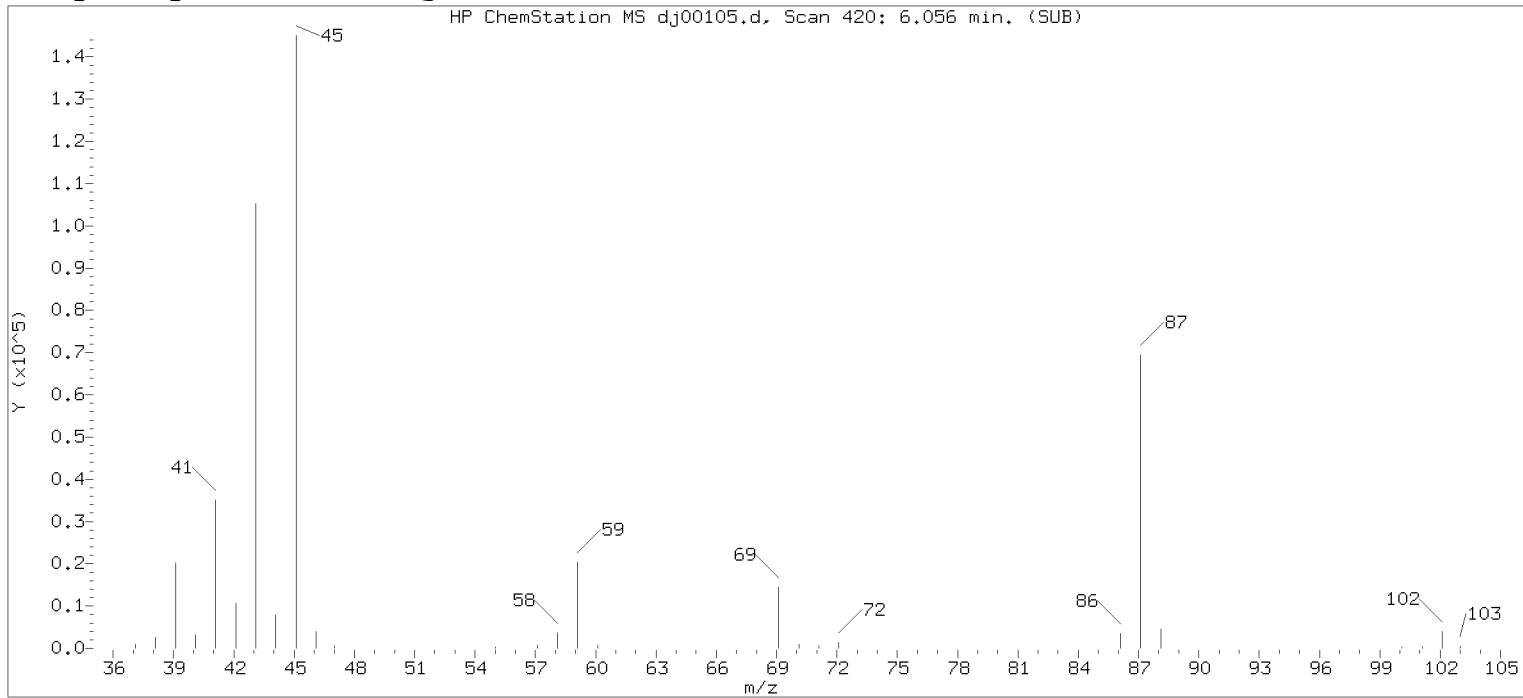
Compound Number : 33
Compound Name : Di-Isopropyl Ether
Scan Number : 420
Retention Time (minutes): 6.056
Quant Ion : 45.00
Area (flag) : 1033713M
Concentration (ppb(v)) : 8.0214
Integration start scan : 384 Integration stop scan: 463
Y at integration start : 899 Y at integration end: 0

Reason for manual integration: improper integration

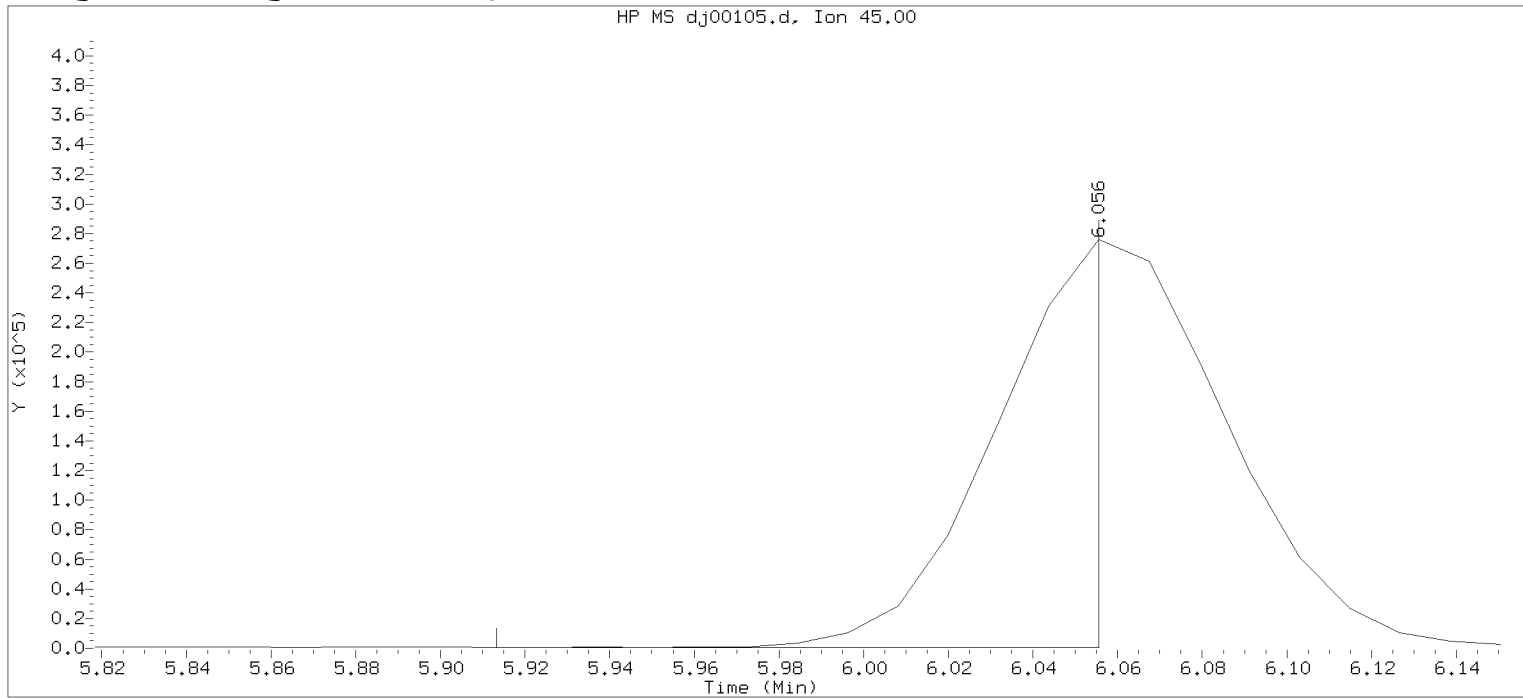
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/06/2015 at 17:27.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/08/2015 at 11:22.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



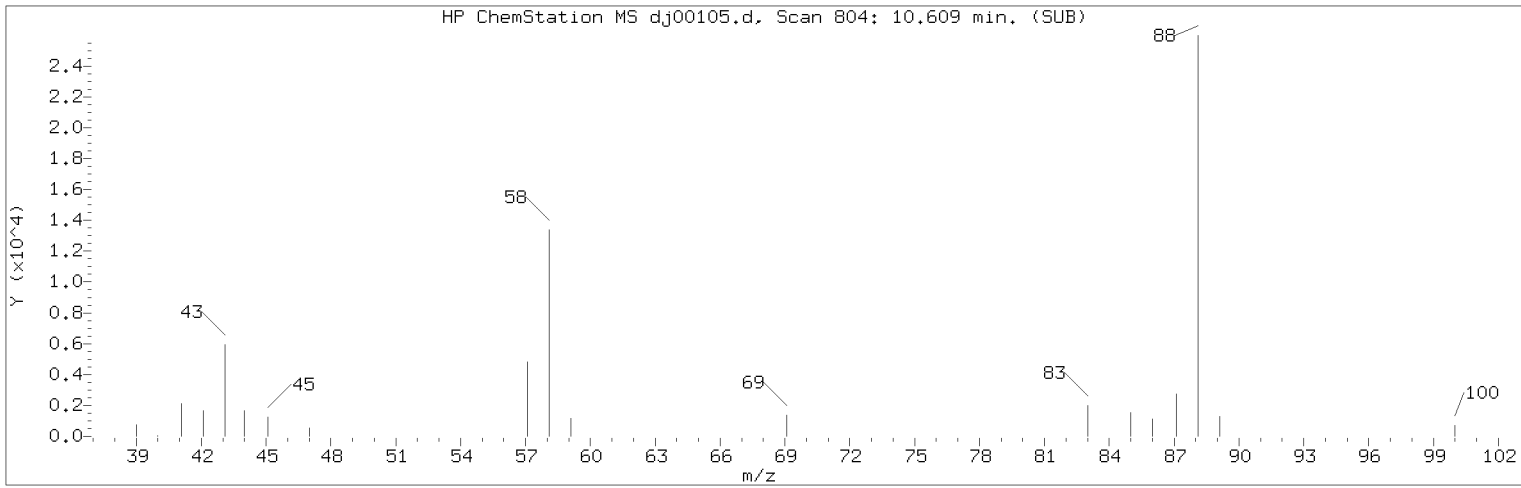
Data File: /chem/HP10145.i/15oct06.b/dj00105.d Instrument ID: HP10145.i
 Injection date and time: 06-OCT-2015 16:38 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
 Calibration date and time: 06-OCT-2015 13:47
 Date, time and analyst ID of latest file update: 06-Oct-2015 17:19 Automation

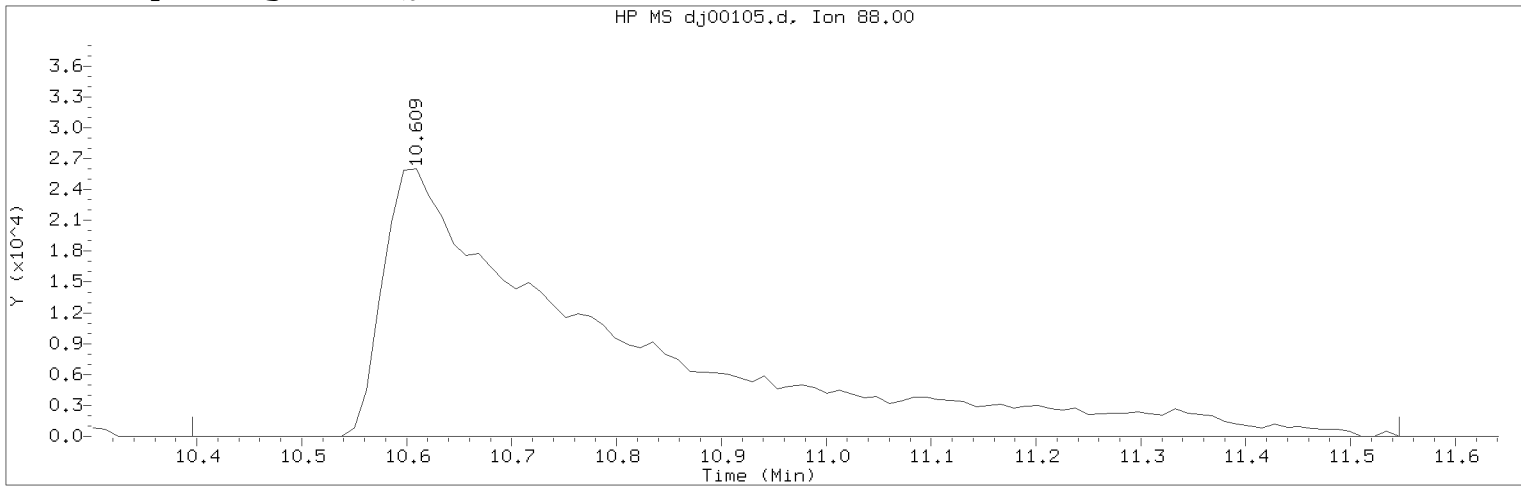
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 33
 Compound Name : Di-Isopropyl Ether
 Scan Number : 420
 Retention Time (minutes): 6.056
 Quant Ion : 45.00
 Area : 453213
 Concentration (ppb(v)) : 3.5169
 Integration start scan : 407 Integration stop scan: 419
 Y at integration start : 587 Y at integration end: 587

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct06.b/dj00105.d Instrument ID: HP10145.i
Injection date and time: 06-OCT-2015 16:38 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
Calibration date and time: 06-OCT-2015 17:22
Date, time and analyst ID of latest file update: 06-Oct-2015 17:22 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

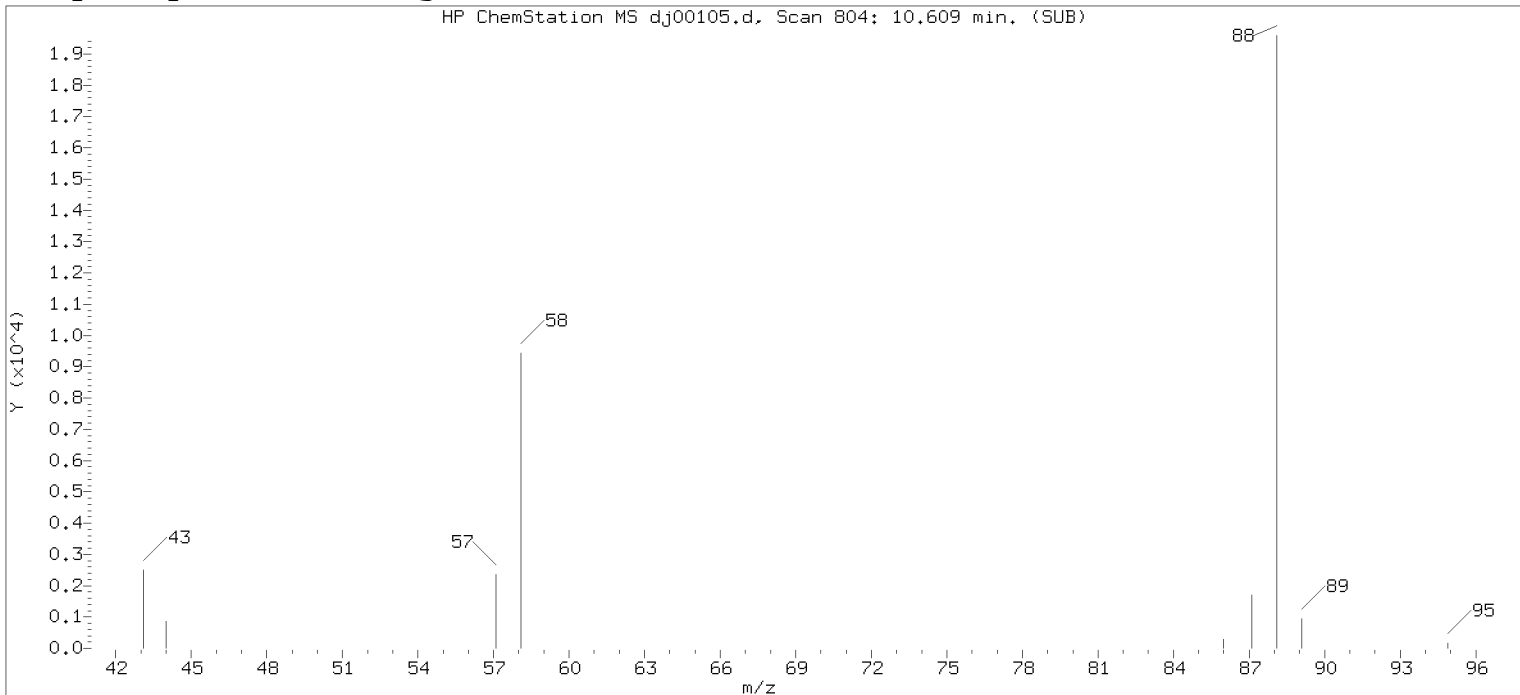
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 804
Retention Time (minutes): 10.609
Quant Ion : 88.00
Area (flag) : 385551M
Concentration (ppb(v)) : 9.0257
Integration start scan : 785 Integration stop scan: 882
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

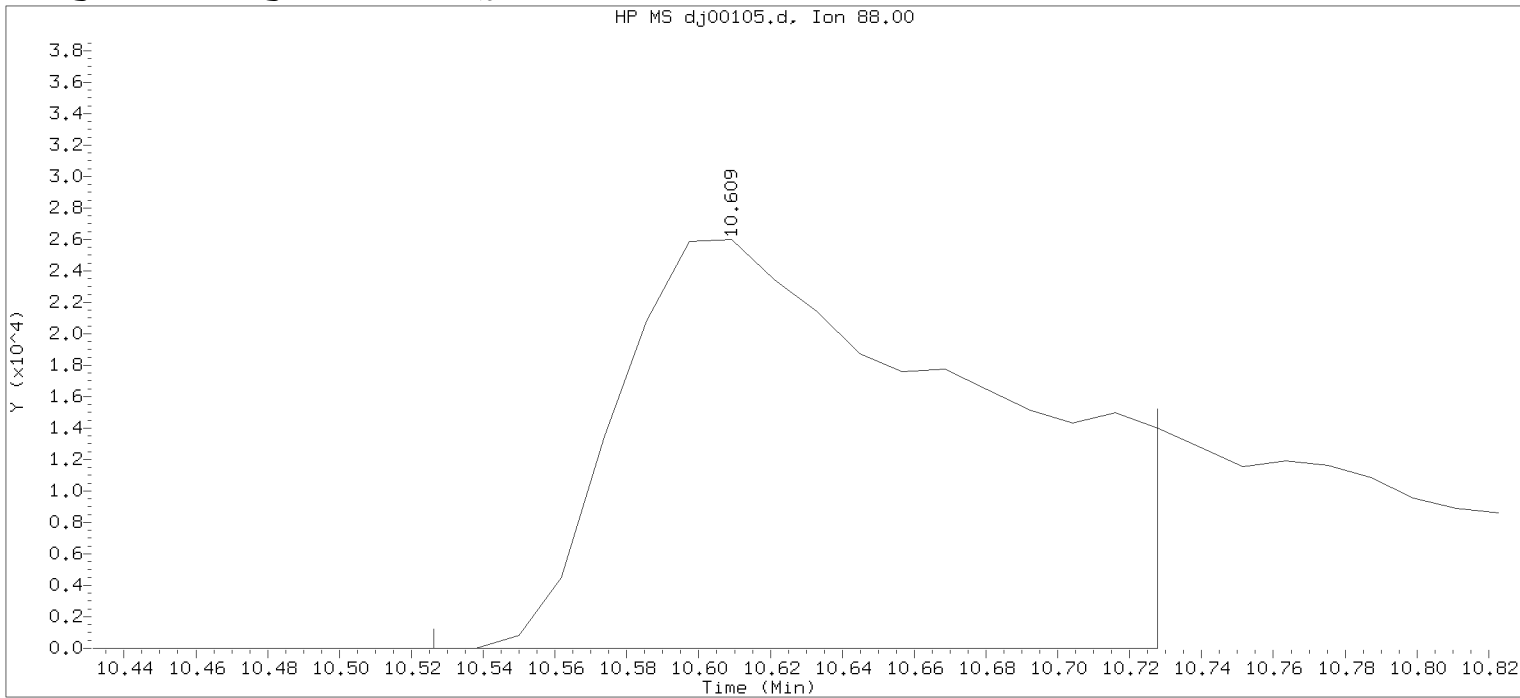
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/06/2015 at 17:27.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/08/2015 at 11:22.
Parallax ID: cmr00412

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct06.b/dj00105.d Instrument ID: HP10145.i
 Injection date and time: 06-OCT-2015 16:38 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
 Calibration date and time: 06-OCT-2015 13:47
 Date, time and analyst ID of latest file update: 06-Oct-2015 17:19 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 56
 Compound Name : 1,4-Dioxane
 Scan Number : 804
 Retention Time (minutes): 10.609
 Quant Ion : 88.00
 Area : 183706
 Concentration (ppb(v)) : 4.3005
 Integration start scan : 796 Integration stop scan: 813
 Y at integration start : 0 Y at integration end: 0

SDG No.:

Lab File ID: dj00136.d

Calibration Date: 10/07/2015

Instrument ID: 10145

Calibration Time: 18:23

Init. Calib. Date(s): 10/01/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Propene	0.402	0.327	8.303	10.2	-19
Dichlorodifluoromethane	2.870	3.358	11.817	10.1	17
Chlorodifluoromethane	1.002	1.046	11.164	10.7	4
Freon 114	2.313	2.525	10.805	9.9	9
Chloromethane	0.182	0.159	9.042	10.3	-12
Vinyl Chloride	0.706	0.684	9.783	10.1	-3
1,3-Butadiene	0.465	0.423	9.264	10.2	-9
Bromomethane	0.896	0.914	9.990	9.8	2
Chloroethane	0.395	0.379	9.310	9.7	-4
Bromoethene	0.879	0.880	10.622	10.6	0
Dichlorofluoromethane	1.684	1.854	11.563	10.5	10
Trichlorofluoromethane	2.982	3.597	12.184	10.1	21
Pentane	0.927	0.786	8.904	10.5	-15
Ethanol	0.260	0.198	4.430	5.8	-24
Freon123a	1.458	1.453	10.969	11	0
Acrolein	0.196	0.175	6.726	7.5	-10
1,1-Dichloroethene	1.208	1.304	10.790	10	8
Freon 113	1.321	1.354	9.937	9.7	2
Acetone	0.885	0.841	10.171	10.7	-5
Methyl Iodide	2.076	2.120	10.315	10.1	2
Carbon Disulfide	2.218	2.205	9.943	10	-1
Isopropanol	1.037	0.889	8.235	9.6	-14
Acetonitrile	0.248	0.253	10.088	9.9	2
3-Chloropropene	0.362	0.336	10.206	11	-7
Methylene Chloride	0.645	0.636	10.849	11	-1
tert-Butyl Alcohol	1.662	1.575	10.421	11	-5
Acrylonitrile	0.328	0.355	11.349	10.5	8
trans-1,2-Dichloroethene	1.011	1.083	10.712	10	7
Methyl t-Butyl Ether	2.403	2.311	9.807	10.2	-4
Hexane	1.075	0.899	8.530	10.2	-16
1,1-Dichloroethane	1.388	1.363	9.913	10.1	-2
Vinyl Acetate	0.204	0.177	6.605	7.6	-13
Di-Isopropyl Ether	1.896	1.464	8.028	10.4	-23
Ethyl Tert-Butyl Ether	2.585	2.206	8.618	10.1	-15
cis-1,2-Dichloroethene	1.001	1.013	10.617	10.5	1
2-Butanone	0.369	0.345	9.726	10.4	-6
Ethyl Acetate	0.241	0.212	9.659	11	-12
Methyl Acrylate	1.045	0.908	9.031	10.4	-13
Tetrahydrofuran	0.575	0.458	7.961	10	-20

* Maximum %DRIFT = 30%.

Average RRF for all compounds must be greater than 0.010.

SDG No.:

Lab File ID: dj00136.d

Calibration Date: 10/07/2015

Instrument ID: 10145

Calibration Time: 18:23

Init. Calib. Date(s): 10/01/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
Chloroform	2.028	2.174	10.827	10.1	7
1,1,1-Trichloroethane	2.506	2.839	11.673	10.3	13
Cyclohexane	1.131	0.936	8.519	10.3	-17
Carbon Tetrachloride	2.620	3.114	12.359	10.4	19
Benzene	0.674	0.651	10.244	10.6	-3
1,2-Dichloroethane	0.327	0.387	12.284	10.4	18
Isooctane	0.894	0.771	9.056	10.5	-14
Tert-Amyl Methyl Ether	0.689	0.653	10.155	10.7	-5
Heptane	0.268	0.218	8.534	10.5	-19
Trichloroethene	0.363	0.336	9.554	10.3	-7
Ethyl Acrylate	0.356	0.316	9.591	10.8	-11
1,2-Dichloropropane	0.198	0.182	9.690	10.5	-8
Dibromomethane	0.368	0.375	10.719	10.5	2
1,4-Dioxane	0.166	0.157	9.737	10.3	-5
Methyl Methacrylate	0.215	0.206	9.662	10.1	-4
Bromodichloromethane	0.560	0.634	11.655	10.3	13
cis-1,3-Dichloropropene	0.346	0.344	9.450	9.5	-1
4-Methyl-2-Pentanone	0.360	0.306	8.693	10.2	-15
Toluene	0.992	0.867	9.260	10.6	-13
Octane	0.396	0.298	7.758	10.3	-25
trans-1,3-Dichloropropene	0.393	0.405	10.407	10.1	3
Ethyl Methacrylate	0.406	0.376	9.363	10.1	-7
1,1,2-Trichloroethane	0.336	0.308	9.703	10.6	-8
Tetrachloroethene	0.699	0.629	9.623	10.7	-10
2-Hexanone	0.353	0.311	9.585	10.9	-12
Dibromochloromethane	0.532	0.531	9.788	9.8	0
1,2-Dibromoethane	0.542	0.498	9.187	10	-8
Chlorobenzene	0.827	0.696	8.919	10.6	-16
1,1,1,2-Tetrachloroethane	0.480	0.450	9.941	10.6	-6
Ethylbenzene	1.315	1.172	9.451	10.6	-11
m/p-Xylene	1.164	1.050	8.841	9.8	-10
o-Xylene	1.103	1.017	9.872	10.7	-8
Styrene	0.836	0.724	9.004	10.4	-13
Bromoform	0.725	0.741	10.219	10	2
Cumene	1.606	1.459	9.447	10.4	-9
Bromobenzene	0.510	0.459	9.548	10.6	-10
1,1,2,2-Tetrachloroethane	0.659	0.626	10.161	10.7	-5
1,2,3-Trichloropropane	0.245	0.245	10.186	10.2	0
n-Propylbenzene	0.450	0.389	8.647	10	-14

* Maximum %DRIFT = 30%.

Average RRF for all compounds must be greater than 0.010.

SDG No.:

Lab File ID: dj00136.d

Calibration Date: 10/07/2015

Instrument ID: 10145

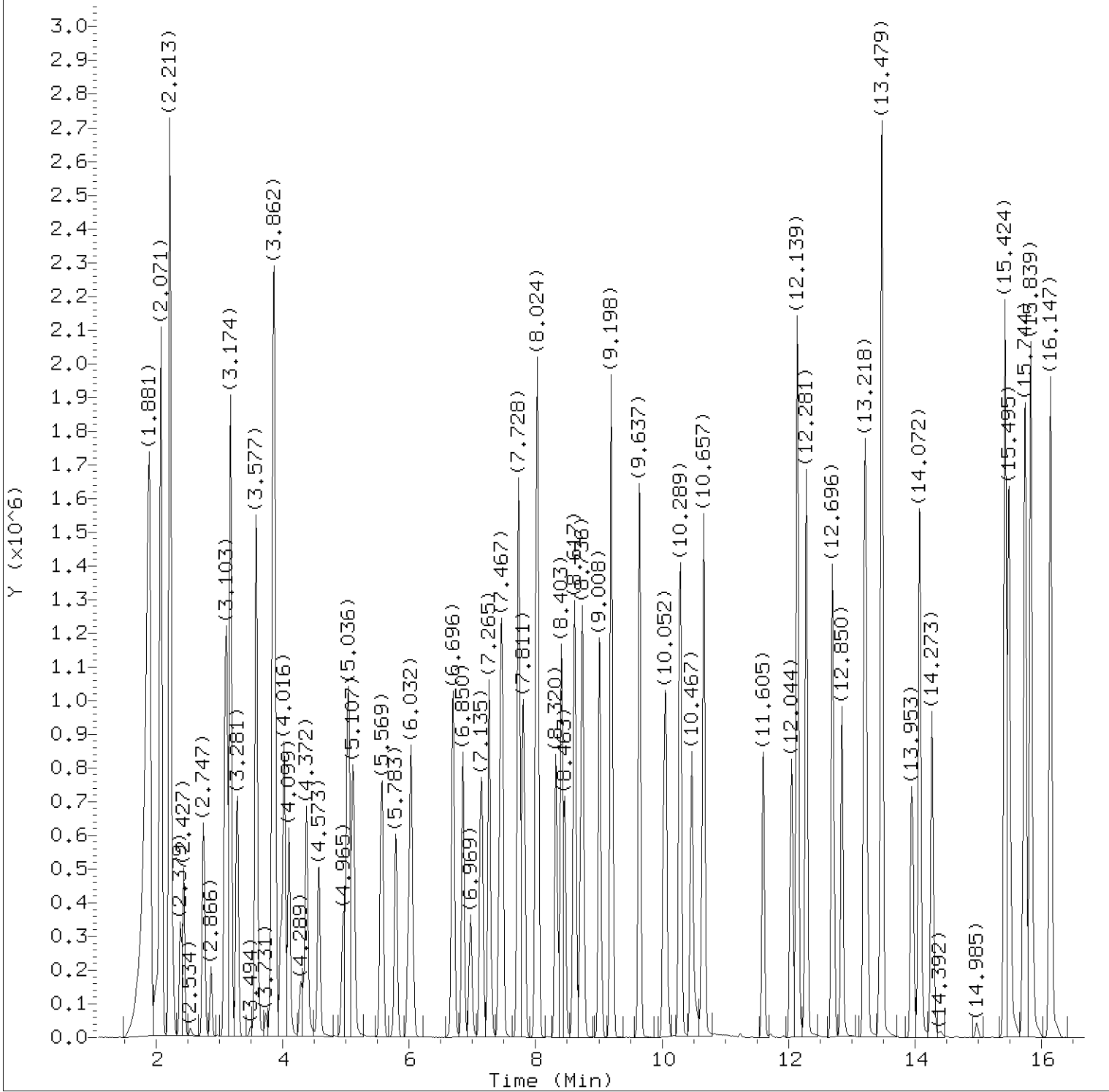
Calibration Time: 18:23

Init. Calib. Date(s): 10/01/2015

COMPOUND	RRF	RRF 10	ACTUAL CONC.	TRUE CONC.	%DRIFT
2-Chlorotoluene	0.369	0.323	8.995	10.3	-13
4-Ethyltoluene	1.579	1.467	9.384	10.1	-7
1,3,5-Trimethylbenzene	1.431	1.353	9.743	10.3	-5
Alpha Methyl Styrene	0.607	0.564	9.194	9.9	-7
tert-Butylbenzene	1.412	1.339	9.667	10.2	-5
1,2,4-Trimethylbenzene	1.365	1.351	10.094	10.2	-1
sec-Butylbenzene	1.857	1.824	9.916	10.1	-2
1,3-Dichlorobenzene	0.817	0.802	10.308	10.5	-2
1,4-Dichlorobenzene	0.798	0.793	10.144	10.2	-1
p-Isopropyltoluene	1.618	1.600	10.089	10.2	-1
Benzyl Chloride	0.899	1.048	9.912	8.5	17
1,2-Dichlorobenzene	0.779	0.769	9.966	10.1	-1
n-Butylbenzene	1.246	1.303	10.665	10.2	5
Hexachloroethane	0.433	0.453	11.385	10.9	4
1,2-Dibromo-3-chloropropane	0.455	0.450	9.485	9.6	-1
1,2,4-Trichlorobenzene	0.577	0.684	11.393	9.6	19
Hexachlorobutadiene	0.919	1.095	11.797	9.9	19
Naphthalene	0.957	1.164	12.643	10.4	22

* Maximum %DRIFT = 30%.

Average RRF for all compounds must be greater than 0.010.



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00136.d
Injection date and time: 07-OCT-2015 18:23

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: all

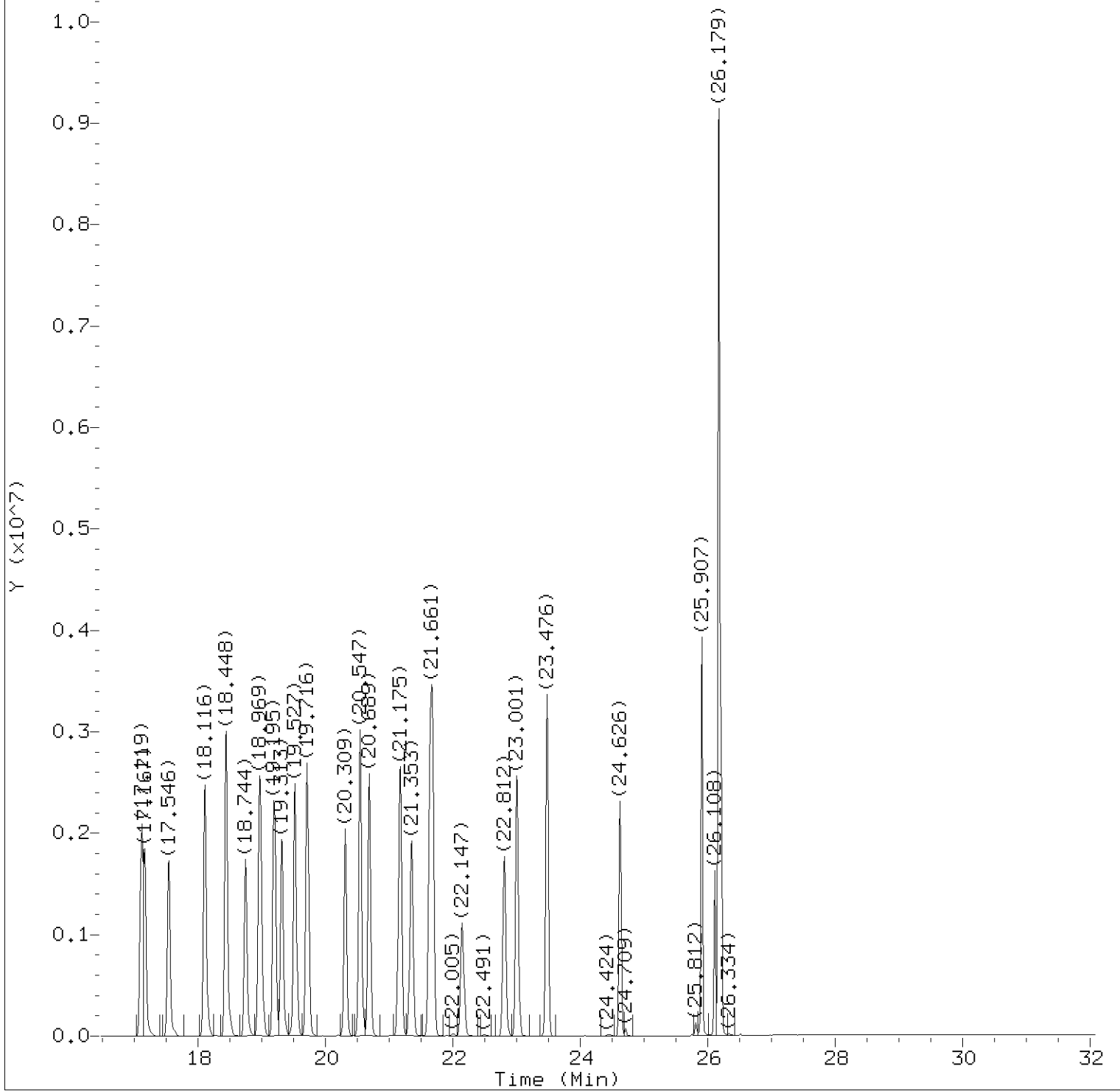
Date, time and analyst ID of latest file update: 07-Oct-2015 19:05 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 10/07/2015 at 21:37.

Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00136.d
Injection date and time: 07-OCT-2015 18:23

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: all

Date, time and analyst ID of latest file update: 07-Oct-2015 19:05 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Jacob E. Bailey
on 10/07/2015 at 21:37.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00136.d
 Injection date and time: 07-OCT-2015 18:23

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05

Sublist used: all

Date, time and analyst ID of latest file update: 07-Oct-2015 19:05 jeb07445

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
1) Propene	(1)	2.012	41	223878	8.303
2) Dichlorodifluoromethane	(1)	2.071	85	2273502	11.817
3) Chlorodifluoromethane	(1)	2.083	51	750225	11.164
4) Freon 114	(1)	2.213	85	1675861	10.805
5) Chloromethane	(1)	2.261	52	110080	9.042
6) Vinyl Chloride	(1)	2.379	62	462845	9.783
7) 1,3-Butadiene	(1)	2.427	54	289110	9.264
8) Bromomethane	(1)	2.747	94	600398	9.990
9) Chloroethane	(1)	2.866	64	246689	9.310
10) Bromoethene	(1)	3.079	106	625698	10.622
11) Dichlorofluoromethane	(1)	3.115	67	1305205	11.563
12) Trichlorofluoromethane	(1)	3.174	101	2435713	12.184
13) Pentane	(1)	3.281	43	553531	8.904
14) Ethanol	(1)	3.542	45	77135M	4.430
15) Freon123a	(1)	3.577	67	1071868	10.969
16) Acrolein	(1)	3.731	56	88156	6.726
17) 1,1-Dichloroethene	(1)	3.826	61	874218	10.790
18) Freon 113	(1)	3.862	103	880204	9.937
19) Acetone	(1)	3.968	43	603426	10.171
20) Methyl Iodide	(1)	4.016	142	1435579	10.315
21) Carbon Disulfide	(1)	4.099	76	1478290	9.943
22) Isopropanol	(1)	4.289	45	572387	8.235
23) Acetonitrile	(1)	4.372	40	167647	10.088
24) 3-Chloropropene	(1)	4.372	76	248004	10.206
25) Methylene Chloride	(1)	4.573	84	469217	10.849
26) tert-Butyl Alcohol	(1)	4.965	59	1161258	10.421
27) Acrylonitrile	(1)	5.024	53	249792	11.349
28) trans-1,2-Dichloroethene	(1)	5.036	61	726313	10.712
29) Methyl t-Butyl Ether	(1)	5.107	73	1580083	9.807
30) Hexane	(1)	5.569	57	614506	8.530
31) 1,1-Dichloroethane	(1)	5.783	63	922744	9.913
32) Vinyl Acetate	(1)	5.984	86	90341	6.605
33) Di-Isopropyl Ether	(1)	6.032	45	1020561	8.028
36) 1,2-Dichloroethene (total)	(1)		61	1439141	21.329
34) Ethyl Tert-Butyl Ether	(1)	6.696	59	1493712	8.618
35) cis-1,2-Dichloroethene	(1)	6.850	61	712828	10.617
37) 2-Butanone	(1)	6.969	72	240619	9.726
38) Ethyl Acetate	(1)	7.135	70	156213	9.659

M = Compound was manually integrated.

Digitally signed by Jacob E. Bailey
 on 10/07/2015 at 21:37.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00136.d
 Injection date and time: 07-OCT-2015 18:23

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05
 Date, time and analyst ID of latest file update: 07-Oct-2015 19:05 jeb07445

Sublist used: all

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
39) Methyl Acrylate	(1)	7.146	55	632924	9.031
40)*Bromochloromethane	(1)	7.265	130	670419	10.000
41) Tetrahydrofuran	(1)	7.419	42	306922	7.961
42) Chloroform	(1)	7.467	83	1472213	10.827
43) 1,1,1-Trichloroethane	(1)	7.728	97	1960747	11.673
44) Cyclohexane	(1)	7.811	56	646039	8.519
45) Carbon Tetrachloride	(1)	8.024	117	2170860	12.359
46) Benzene	(2)	8.403	78	1695835	10.244
47) 1,2-Dichloroethane	(2)	8.463	62	988076	12.284
48) Isooctane	(2)	8.617	57	1988066	9.056
49) Tert-Amyl Methyl Ether	(2)	8.736	73	1717901	10.155
50) Heptane	(2)	9.008	43	561648	8.534
51)*1,4-Difluorobenzene	(2)	9.198	114	2456843	10.000
52) Trichloroethene	(2)	9.637	130	851166	9.554
53) Ethyl Acrylate	(2)	10.016	55	838969	9.591
54) 1,2-Dichloropropane	(2)	10.064	63	470437	9.690
55) Dibromomethane	(2)	10.289	174	968529	10.719
57) Methyl Methacrylate	(2)	10.467	69	511046	9.662
56) 1,4-Dioxane	(2)	10.514	88	397912M	9.737
58) Bromodichloromethane	(2)	10.657	83	1604061	11.655
59) cis-1,3-Dichloropropene	(2)	11.605	75	803998	9.450
60) 4-Methyl-2-Pentanone	(2)	12.044	43	767952	8.693
61) Toluene	(3)	12.281	91	2117219	9.260
62) Octane	(3)	12.696	43	708005	7.758
63) trans-1,3-Dichloropropene	(3)	12.850	75	943226	10.407
64) 1,3-Dichloropropene (total)	(3)		75	1747224	19.858
65) Ethyl Methacrylate	(3)	13.194	69	875785	9.363
66) 1,1,2-Trichloroethane	(3)	13.230	97	752527	9.703
67) Tetrachloroethene	(3)	13.479	166	1551040	9.623
68) 2-Hexanone	(3)	13.953	43	780310	9.585
69) Dibromochloromethane	(3)	14.084	127	1200614	9.788
70) 1,2-Dibromoethane	(3)	14.273	107	1147029	9.187
71)*Chlorobenzene-d5	(3)	15.424	117	2305059	10.000
72) Chlorobenzene	(3)	15.495	112	1700101	8.919
73) 1,1,1,2-Tetrachloroethane	(3)	15.744	131	1100076	9.941
74) Ethylbenzene	(3)	15.839	91	2864224	9.451
75) m/p-Xylene	(3)	16.147	91	2372163	8.841
76) o-Xylene	(3)	17.119	91	2508861	9.872

M = Compound was manually integrated.

* = Compound is an internal standard.

Digitally signed by Jacob E. Bailey
 on 10/07/2015 at 21:37.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00136.d
 Injection date and time: 07-OCT-2015 18:23

Instrument ID: HP10145.i
 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
 Calibration date and time: 07-OCT-2015 19:05

Sublist used: all

Date, time and analyst ID of latest file update: 07-Oct-2015 19:05 jeb07445

Sample Name: VSTD010

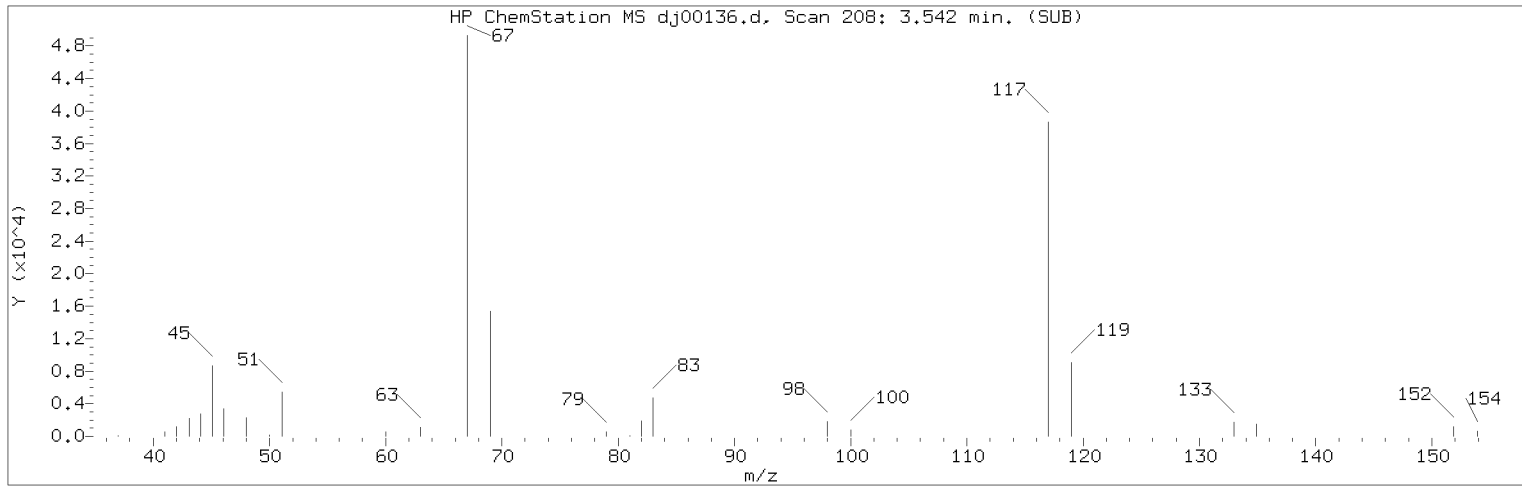
Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
78) Styrene	(3)	17.167	104	1735730	9.004
77) Xylene (total)	(3)		91	4881024	18.713
79) Bromoform	(3)	17.546	173	1708008	10.219
80) Cumene	(3)	18.116	105	3496951	9.447
81) Bromobenzene	(3)	18.744	156	1122623	9.548
82) 1,1,2,2-Tetrachloroethane	(3)	18.958	83	1544059	10.161
83) 1,2,3-Trichloropropane	(3)	18.993	110	575182	10.186
84) n-Propylbenzene	(3)	19.195	120	896591	8.647
85) 2-Chlorotoluene	(3)	19.325	126	765760	8.995
86) 4-Ethyltoluene	(3)	19.527	105	3414337	9.384
87) 1,3,5-Trimethylbenzene	(3)	19.716	105	3213380	9.743
88) Alpha Methyl Styrene	(3)	20.309	118	1287055	9.194
89) tert-Butylbenzene	(3)	20.547	119	3147224	9.667
90) 1,2,4-Trimethylbenzene	(3)	20.689	105	3175791	10.094
91) sec-Butylbenzene	(3)	21.175	105	4245465	9.916
92) 1,3-Dichlorobenzene	(3)	21.353	146	1940436	10.308
93) 1,4-Dichlorobenzene	(3)	21.638	146	1865612	10.144
94) p-Isopropyltoluene	(3)	21.673	119	3761580	10.089
95) Benzyl Chloride	(3)	22.147	91	2053812	9.912
96) 1,2-Dichlorobenzene	(3)	22.812	146	1789628	9.966
97) n-Butylbenzene	(3)	23.001	91	3063292	10.665
98) Hexachloroethane	(3)	23.476	117	1137350	11.385
99) 1,2-Dibromo-3-chloropropane	(3)	24.626	157	995645	9.485
100) 1,2,4-Trichlorobenzene	(3)	25.907	180	1514453	11.393
101) Hexachlorobutadiene	(3)	26.179	225	2497964	11.797
102) Naphthalene	(3)	26.203	128	2789634	12.643

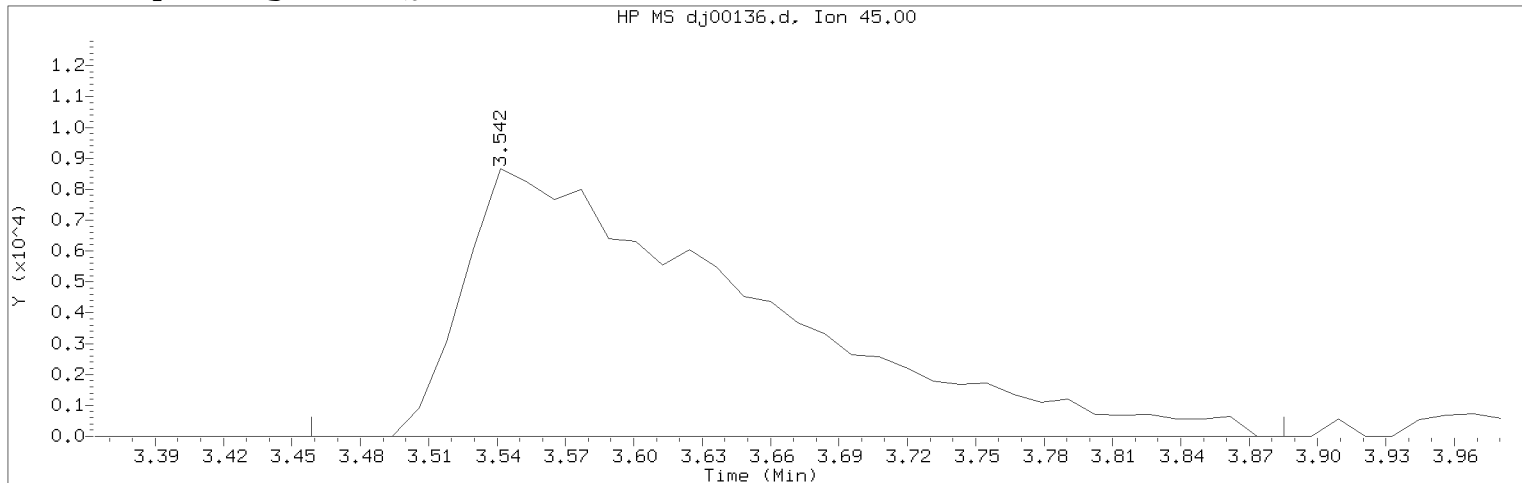
Digitally signed by Jacob E. Bailey
 on 10/07/2015 at 21:37.

Target 3.5 esignature user ID: jeb07445

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00136.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 18:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 19:05 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

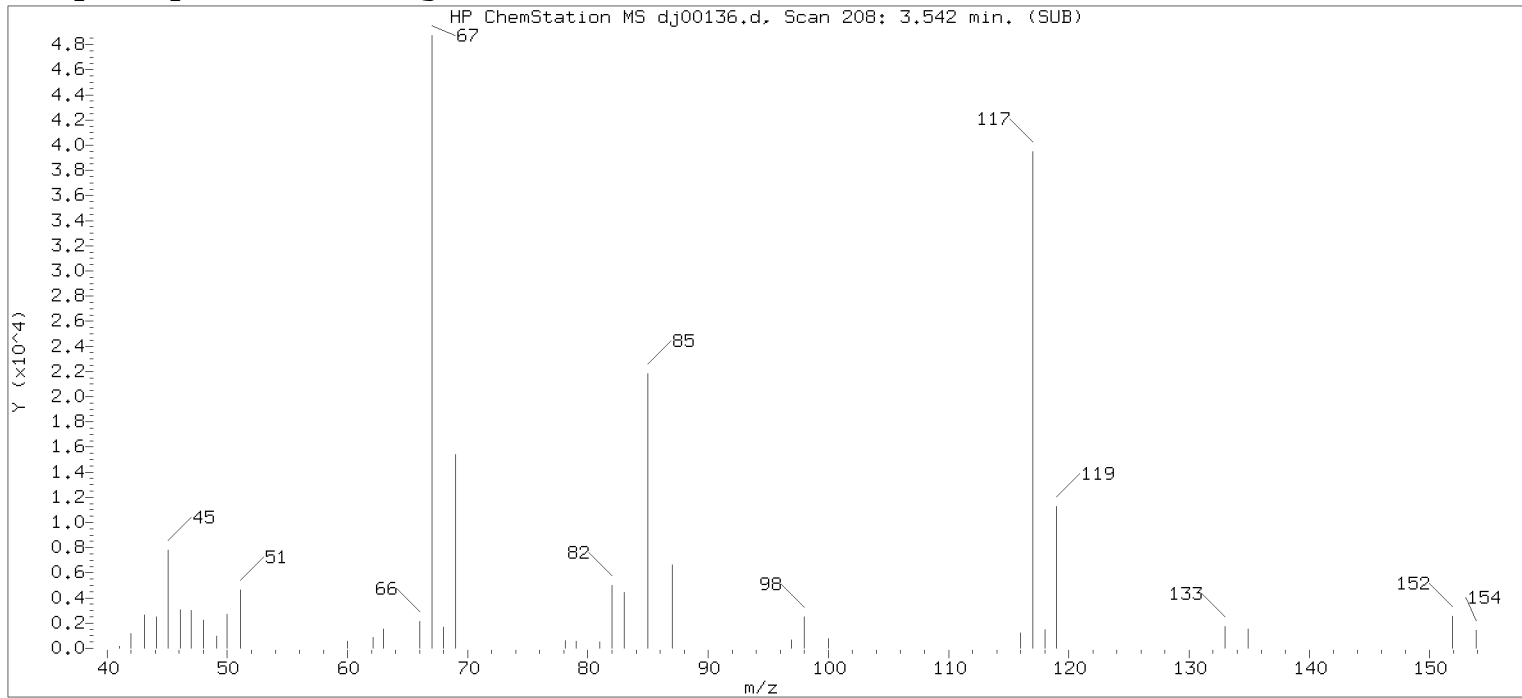
Compound Number : 14
Compound Name : Ethanol
Scan Number : 208
Retention Time (minutes): 3.542
Quant Ion : 45.00
Area (flag) : 77135M
Concentration (ppb(v)) : 4.4295
Integration start scan : 200 Integration stop scan: 236
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

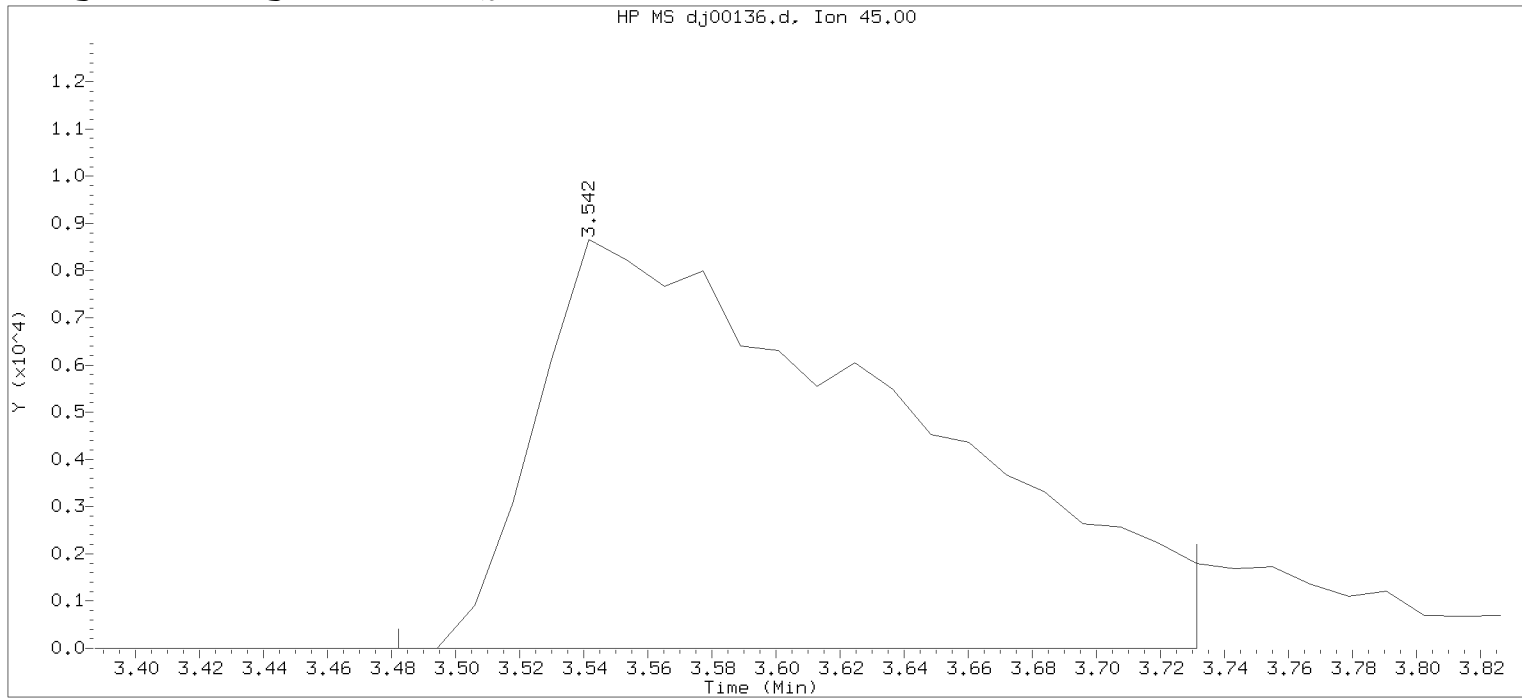
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/07/2015 at 21:37.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



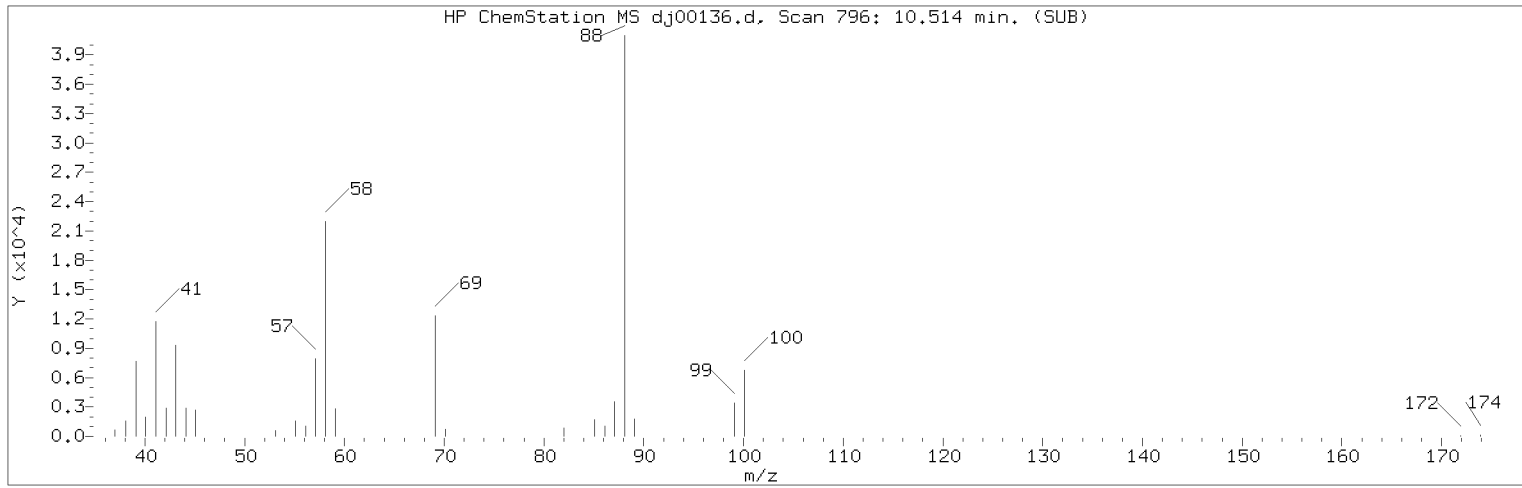
Data File: /chem/HP10145.i/15oct07.b/dj00136.d Instrument ID: HP10145.i
 Injection date and time: 07-OCT-2015 18:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
 Calibration date and time: 07-OCT-2015 18:11
 Date, time and analyst ID of latest file update: 07-Oct-2015 19:04 Automation

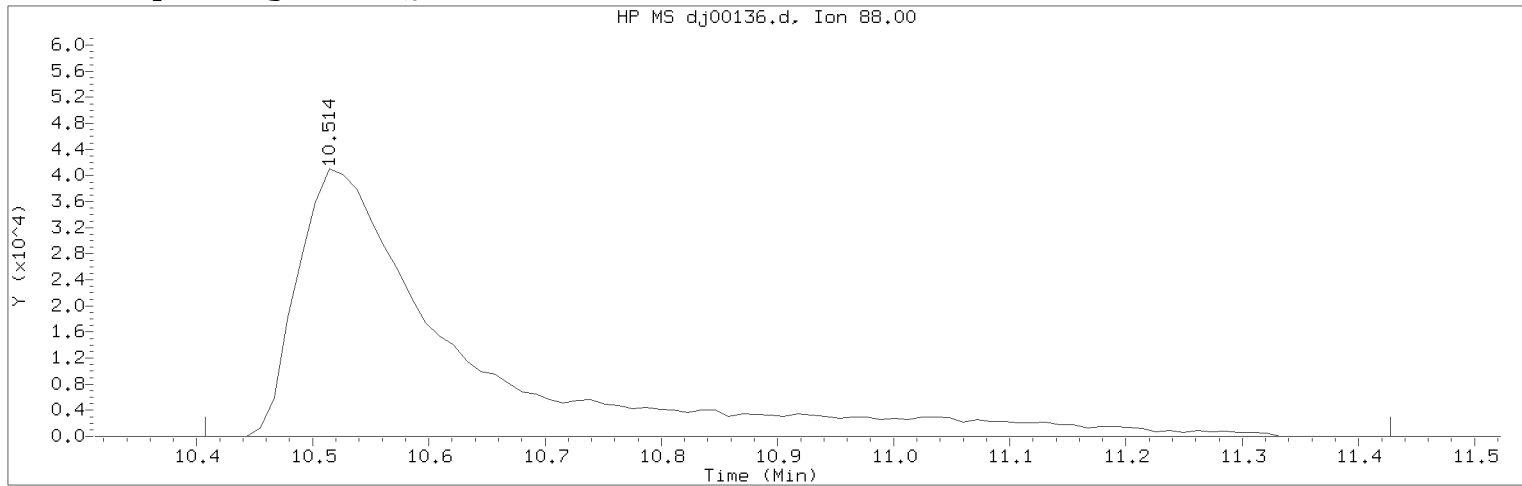
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 14
 Compound Name : Ethanol
 Scan Number : 208
 Retention Time (minutes): 3.542
 Quant Ion : 45.00
 Area : 68733
 Concentration (ppb(v)) : 3.9471
 Integration start scan : 202 Integration stop scan: 223
 Y at integration start : 0 Y at integration end: 0

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00136.d Instrument ID: HP10145.i
Injection date and time: 07-OCT-2015 18:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time: 07-OCT-2015 19:05
Date, time and analyst ID of latest file update: 07-Oct-2015 19:05 jeb07445

Sample Name: VSTD010 Lab Sample ID: VSTD010

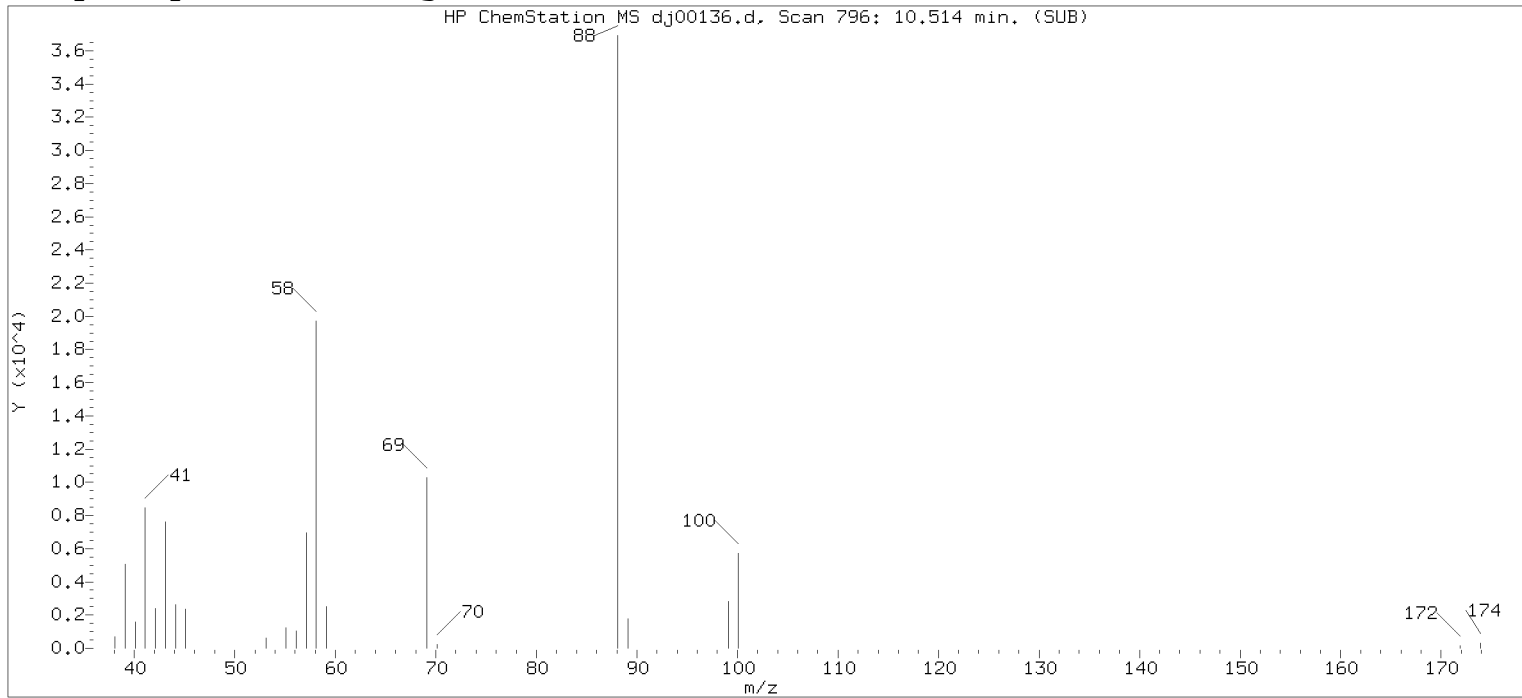
Compound Number : 56
Compound Name : 1,4-Dioxane
Scan Number : 796
Retention Time (minutes): 10.514
Quant Ion : 88.00
Area (flag) : 397912M
Concentration (ppb(v)) : 9.7369
Integration start scan : 786 Integration stop scan: 872
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

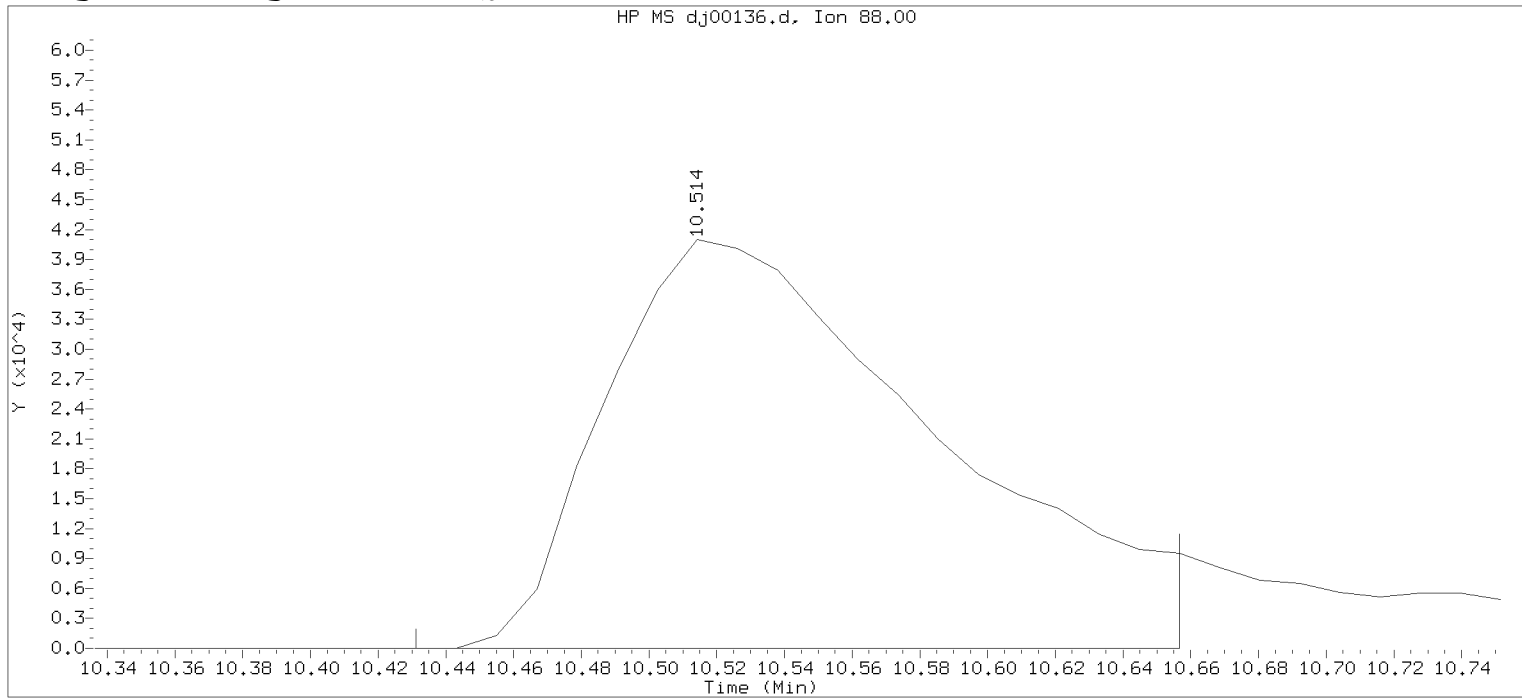
Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/07/2015 at 21:37.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 10/13/2015 at 07:40.
Parallax ID: mjs00758

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10145.i/15oct07.b/dj00136.d Instrument ID: HP10145.i
 Injection date and time: 07-OCT-2015 18:23 Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
 Calibration date and time: 07-OCT-2015 18:11
 Date, time and analyst ID of latest file update: 07-Oct-2015 19:04 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 56
 Compound Name : 1,4-Dioxane
 Scan Number : 796
 Retention Time (minutes): 10.514
 Quant Ion : 88.00
 Area : 277374
 Concentration (ppb(v)) : 6.7873
 Integration start scan : 788 Integration stop scan: 807
 Y at integration start : 0 Y at integration end: 0

Raw QC Data

Volatile Organics in Air by GC/MS

Date : 01-OCT-2015 11:17

Client ID: BFB50NG

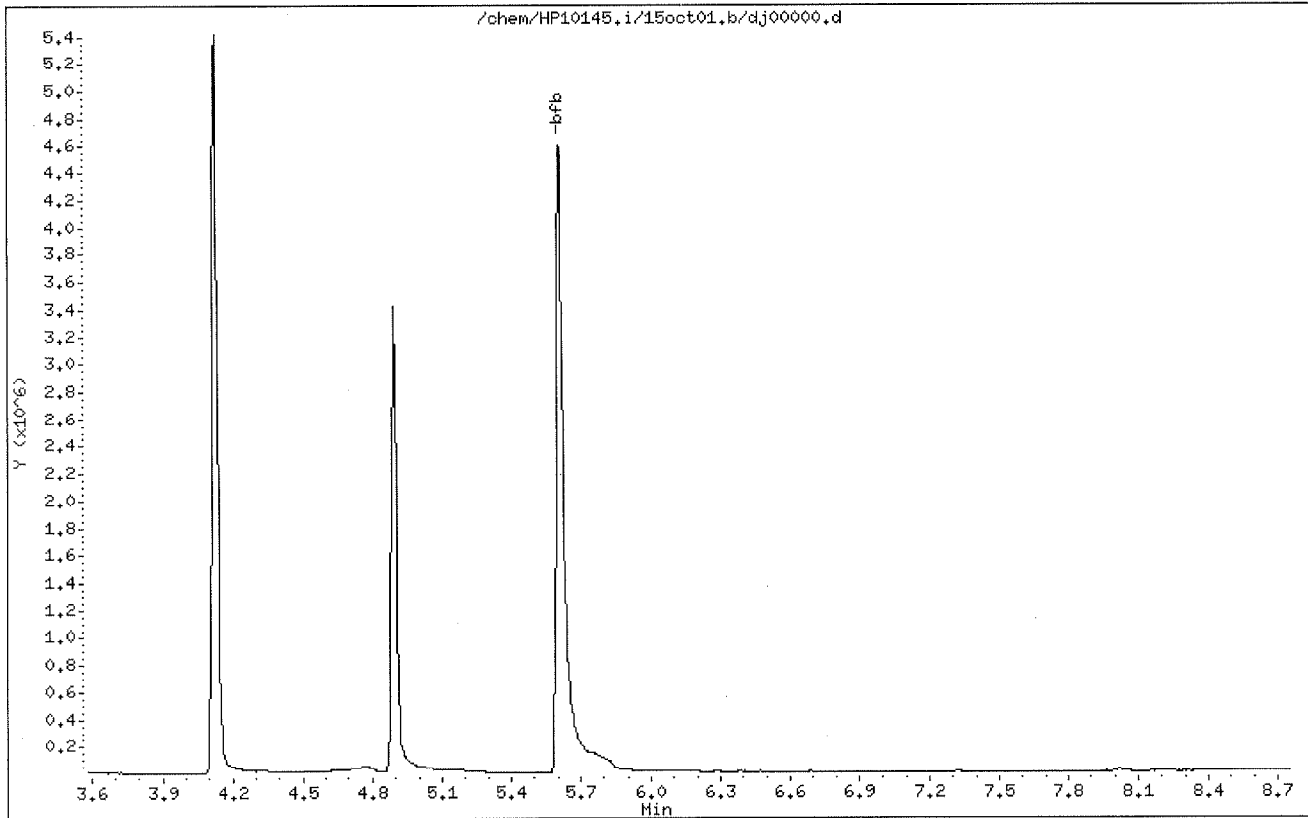
Instrument: HP10145.i

Sample Info: BFB50NG;;D1527330AA;BFB50NG;0;3;BLANK;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Date : 01-OCT-2015 11:17

Client ID: BFB50NG

Instrument: HP10145,i

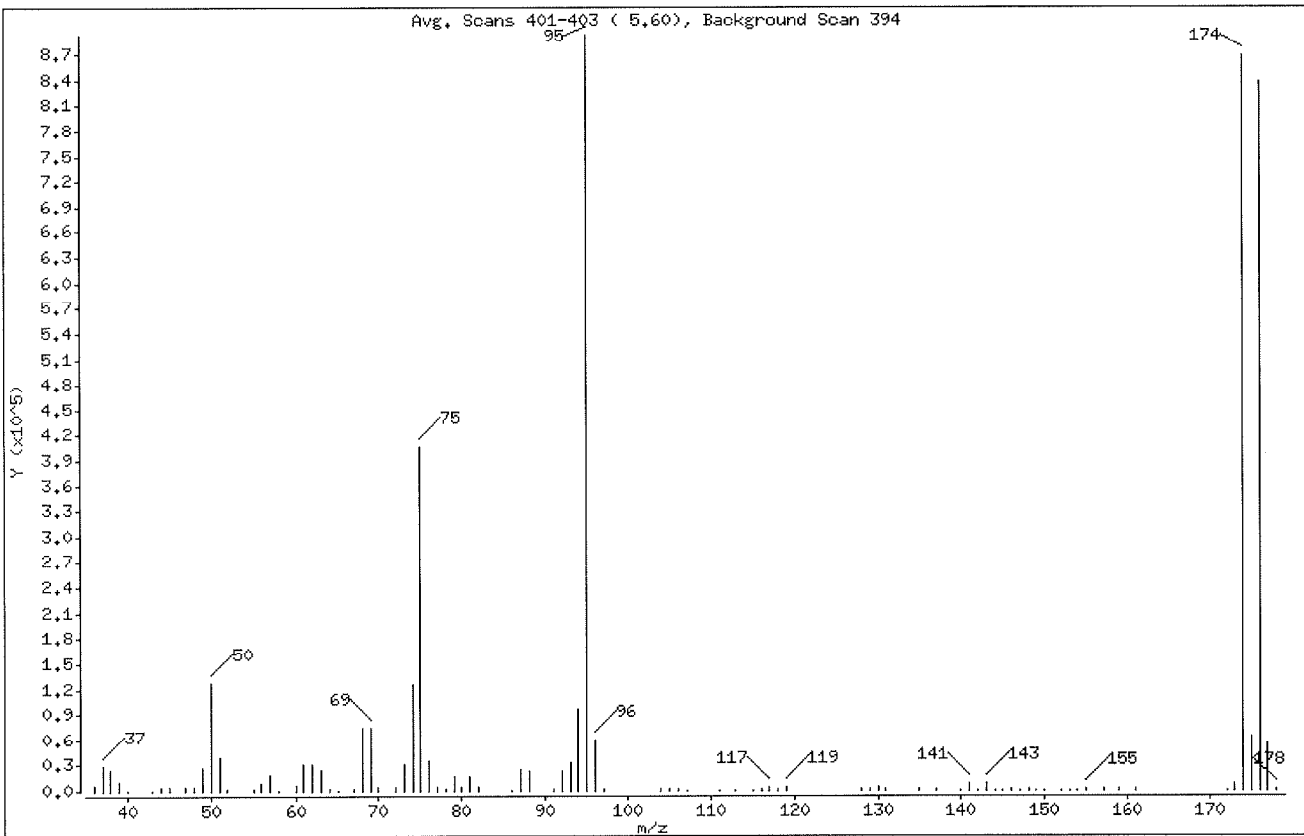
Sample Info: BFB50NG;;D1527330AA;BFB50NG;0;3;BLANK;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	14.14
75	30.00 - 66.00% of mass 95	45.44
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.81 (0.83)
174	50.00 - 120.00% of mass 95	97.23
175	4.00 - 9.00% of mass 174	7.10 (7.30)
176	93.00 - 101.00% of mass 174	93.78 (96.45)
177	5.00 - 9.00% of mass 176	6.31 (6.73)

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Date : 01-OCT-2015 11:17

Client ID: BFB50NG

Instrument: HP10145.i

Sample Info: BFB50NG;;D1527330AA;BFB50NG;0;3;BLANK;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0,25

Data File: dj00000.d
 Spectrum: Avg. Scans 401-403 (5.60), Background Scan 394
 Location of Maximum: 95.00
 Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36,00	5284	65,00	222	95,00	892800	143,00	8169
37,00	28080	67,00	1777	96,00	58840	144,00	410
38,00	24328	68,00	73560	97,00	1727	145,00	740
39,00	9808	69,00	74440	104,00	2875	146,00	1374
40,00	480	70,00	5122	105,00	1110	147,00	452
43,00	202	72,00	3850	106,00	3014	148,00	1965
44,00	3256	73,00	30872	107,00	677	149,00	213
45,00	5025	74,00	125824	111,00	207	150,00	759
47,00	4864	75,00	405696	113,00	205	152,00	202
48,00	3751	76,00	35120	115,00	943	153,00	456
49,00	26584	77,00	3603	116,00	2852	154,00	287
50,00	126256	78,00	2330	117,00	4151	155,00	2397
51,00	38112	79,00	15440	118,00	2753	157,00	1720
52,00	1800	80,00	4291	119,00	3644	159,00	1302
55,00	1718	81,00	15723	128,00	2996	161,00	1127
56,00	9049	82,00	3300	129,00	1482	172,00	897
57,00	17696	86,00	482	130,00	3091	173,00	7220
58,00	832	87,00	24096	131,00	1131	174,00	868032
60,00	6074	88,00	22560	135,00	1219	175,00	63400
61,00	31408	91,00	2498	137,00	1423	176,00	837248
62,00	31552	92,00	21816	140,00	263	177,00	56336
63,00	24424	93,00	33848	141,00	7545	178,00	1639
64,00	2011	94,00	96552	142,00	1010		

Digitally signed by Jeffrey B. Smith on 10/02/2015 at 10:40.
Target 3.5 esignature user ID: jbs01304

Date : 05-OCT-2015 12:00

Client ID: 50NGBFB

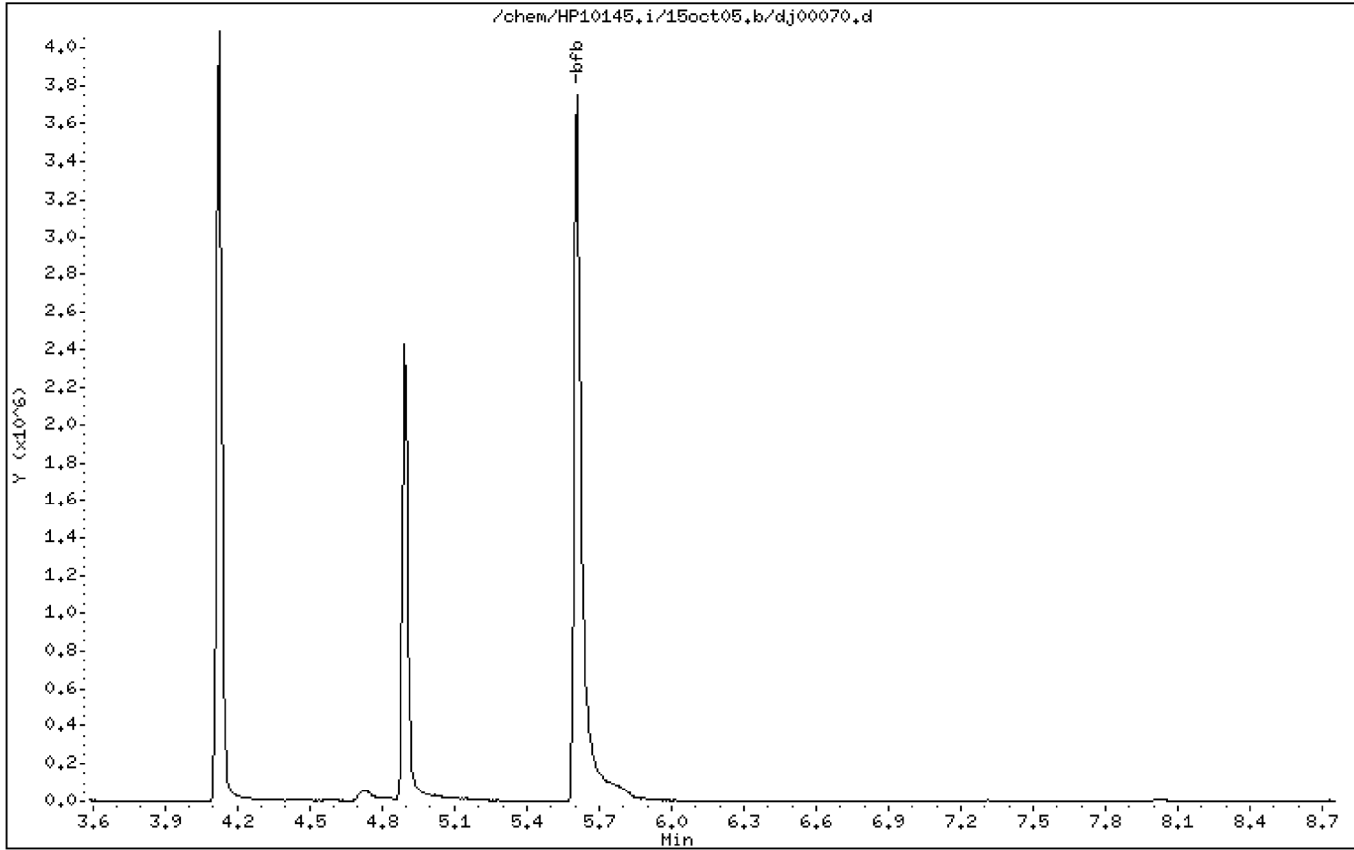
Instrument: HP10145,i

Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jacob E. Bailey on 10/05/2015 at 15:45.
Target 3.5 esignature user ID: jeb07445

Date : 05-OCT-2015 12:00

Client ID: 50NGBFB

Instrument: HP10145.i

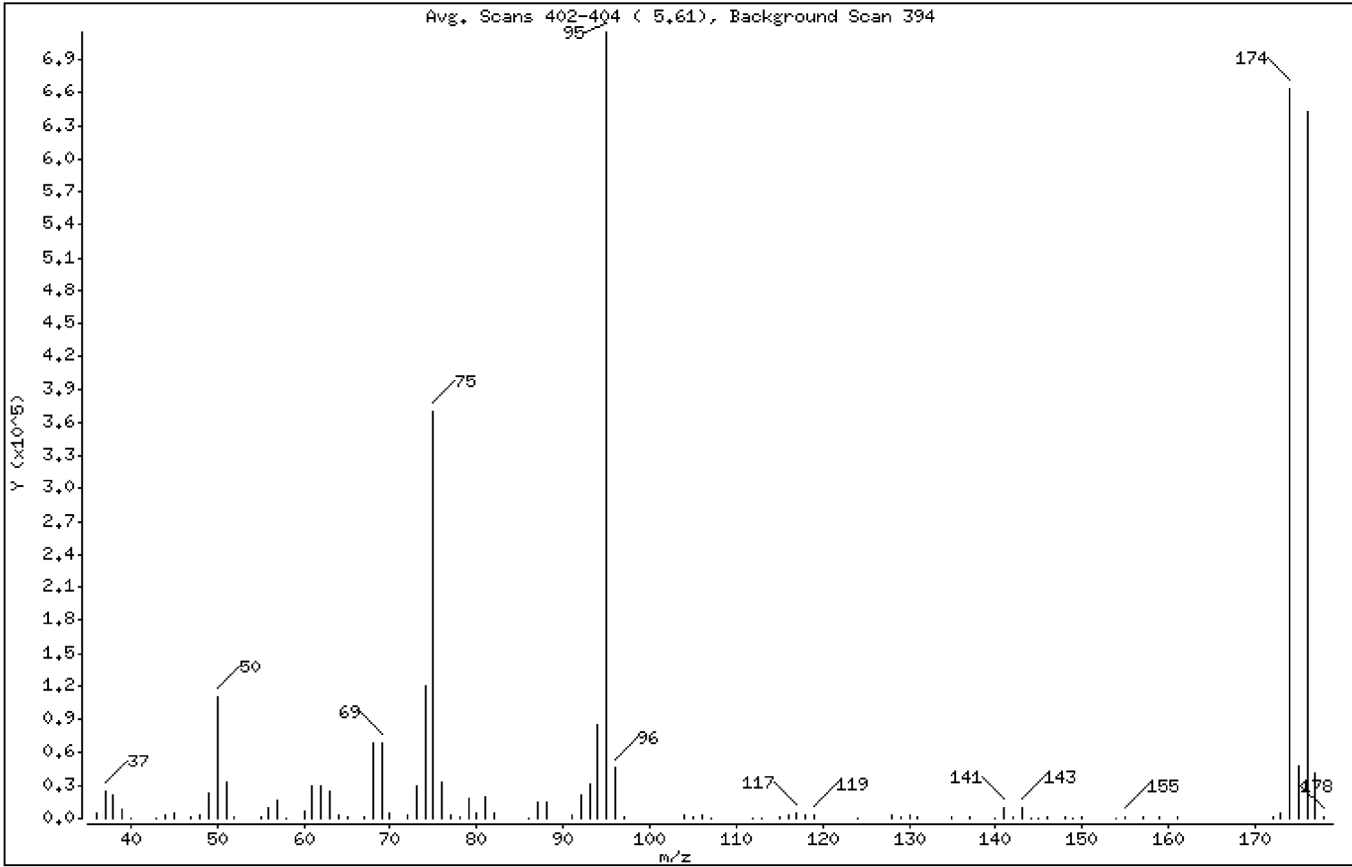
Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	15.33
75	30.00 - 66.00% of mass 95	51.79
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.77 (0.83)
174	50.00 - 120.00% of mass 95	92.78
175	4.00 - 9.00% of mass 174	6.73 (7.25)
176	93.00 - 101.00% of mass 174	89.97 (96.98)
177	5.00 - 9.00% of mass 176	5.82 (6.47)

Digitally signed by Jacob E. Bailey on 10/05/2015 at 15:45.
 Target 3.5 esignature user ID: jeb07445

Date : 05-OCT-2015 12:00

Client ID: 50NGBFB

Instrument: HP10145.i

Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25

Data File: dj00070.d

Spectrum: Avg. Scans 402-404 (5.61), Background Scan 394

Location of Maximum: 95.00

Number of points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4727	65.00	1336	95.00	714880	142.00	1146
37.00	25000	67.00	1708	96.00	46424	143.00	9350
38.00	21352	68.00	68472	97.00	1233	144.00	652
39.00	8312	69.00	68488	104.00	2982	145.00	797
40.00	630	70.00	5025	105.00	1188	146.00	1169
43.00	716	72.00	3730	106.00	3178	148.00	1897
44.00	2745	73.00	29104	107.00	574	149.00	258
45.00	4382	74.00	120720	112.00	670	150.00	951
47.00	2444	75.00	370240	113.00	231	154.00	207
48.00	3056	76.00	32160	115.00	862	155.00	2094
49.00	23296	77.00	2832	116.00	2969	157.00	1549
50.00	109560	78.00	1631	117.00	5013	159.00	1193
51.00	32680	79.00	17472	118.00	2500	161.00	1057
52.00	1300	80.00	5168	119.00	3795	172.00	2026
55.00	1488	81.00	19120	124.00	212	173.00	5529
56.00	9174	82.00	4202	128.00	2516	174.00	663232
57.00	16584	86.00	228	129.00	1302	175.00	48096
58.00	603	87.00	14964	130.00	3208	176.00	643200
60.00	5752	88.00	14894	131.00	1158	177.00	41616
61.00	29384	91.00	2502	135.00	1339	178.00	1252
62.00	30160	92.00	21168	137.00	1463		
63.00	24176	93.00	31616	140.00	664		
64.00	2549	94.00	86264	141.00	9241		

Digitally signed by Jacob E. Bailey on 10/05/2015 at 15:45.
Target 3.5 esignature user ID: jeb07445

Date : 06-OCT-2015 12:28

Client ID: 50NGBFB

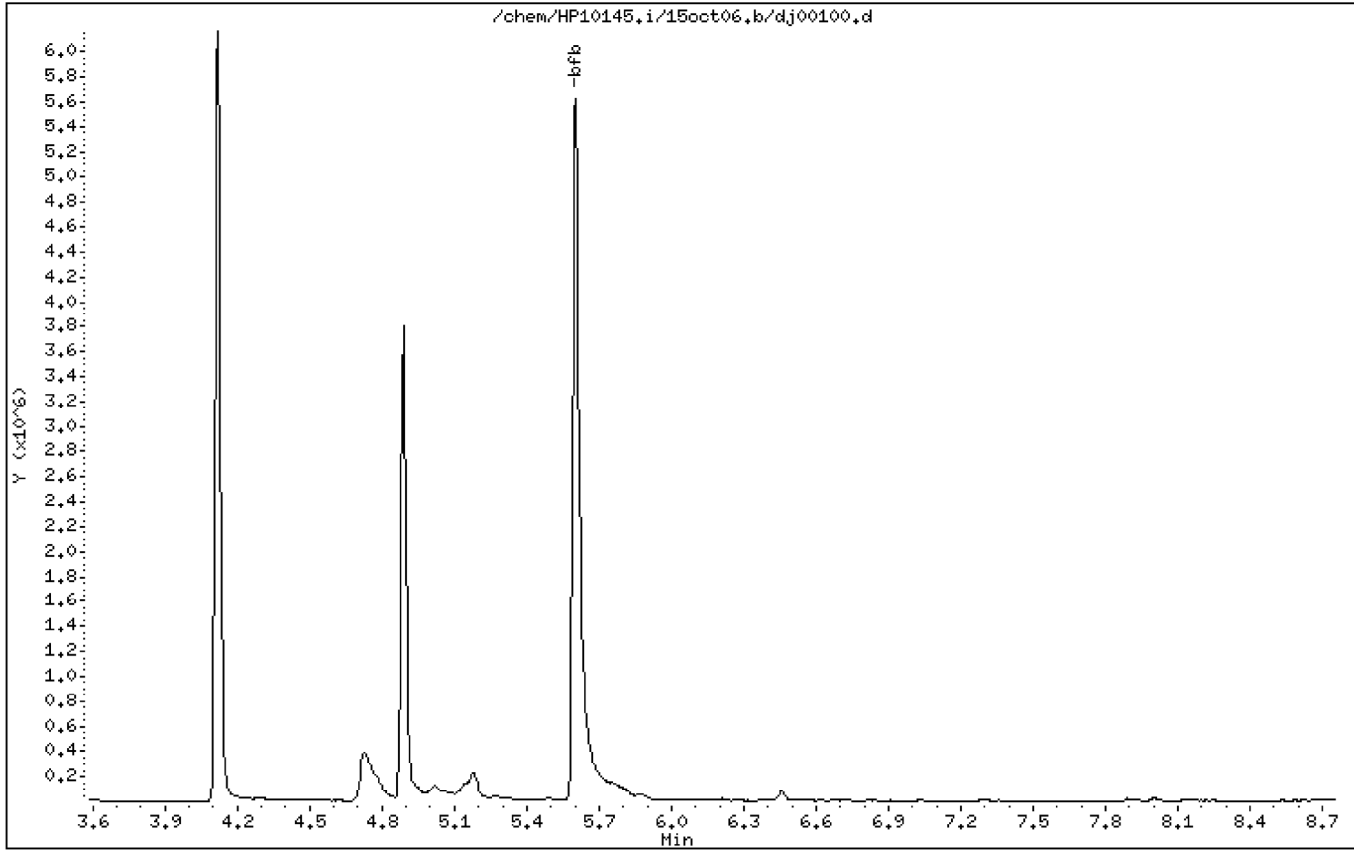
Instrument: HP10145.i

Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jacob E. Bailey on 10/06/2015 at 17:26.
Target 3.5 esignature user ID: jeb07445

Date : 06-OCT-2015 12:28

Client ID: 50NGBFB

Instrument: HP10145,i

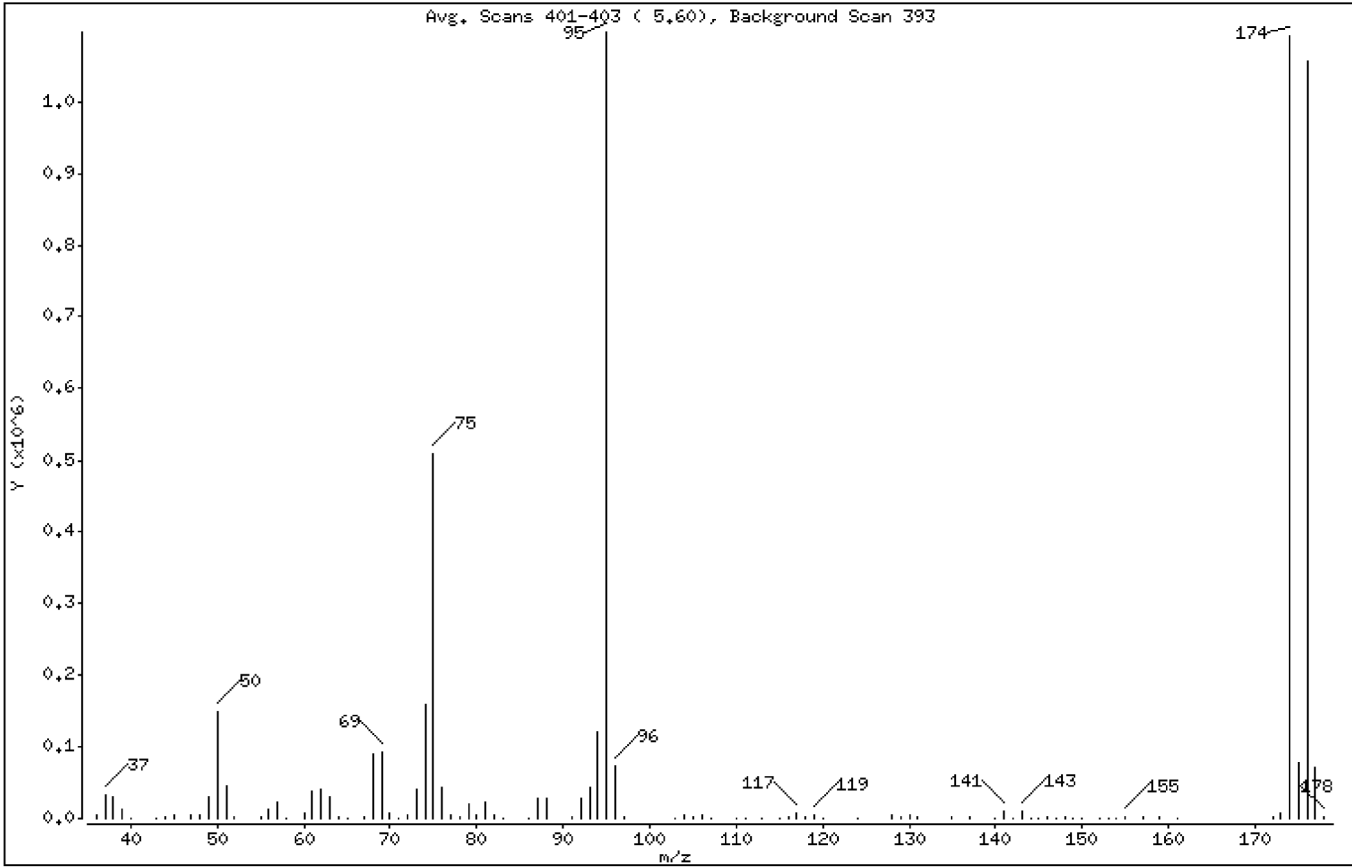
Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	13.51
75	30.00 - 66.00% of mass 95	46.42
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.68 (0.68)
174	50.00 - 120.00% of mass 95	99.63
175	4.00 - 9.00% of mass 174	7.04 (7.07)
176	93.00 - 101.00% of mass 174	96.36 (96.72)
177	5.00 - 9.00% of mass 176	6.34 (6.58)

Digitally signed by Jacob E. Bailey on 10/06/2015 at 17:26.
 Target 3.5 esignature user ID: jeb07445

Date : 06-OCT-2015 12:28

Client ID: 50NGBFB

Instrument: HP10145.i

Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25

Data File: dj00100.d
Spectrum: Avg. Scans 401-403 (5.60), Background Scan 393
Location of Maximum: 95.00
Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6088	68.00	91784	97.00	1814	143.00	10081
37.00	32672	69.00	93128	103.00	299	144.00	204
38.00	29184	70.00	6851	104.00	4009	145.00	1014
39.00	11534	71.00	937	105.00	2148	146.00	1503
40.00	227	72.00	4253	106.00	4161	147.00	498
43.00	628	73.00	39896	107.00	948	148.00	2814
44.00	3237	74.00	159680	110.00	208	149.00	745
45.00	5720	75.00	509376	111.00	695	150.00	1123
47.00	4801	76.00	42440	113.00	535	152.00	485
48.00	4283	77.00	4678	115.00	942	153.00	892
49.00	30680	78.00	2464	116.00	3492	154.00	750
50.00	148288	79.00	20336	117.00	6976	155.00	2686
51.00	44712	80.00	5826	118.00	3705	157.00	2101
52.00	2054	81.00	21632	119.00	4374	159.00	1447
55.00	2392	82.00	4431	120.00	302	161.00	1245
56.00	12111	83.00	433	124.00	448	172.00	1482
57.00	21832	86.00	842	128.00	3832	173.00	7407
58.00	1082	87.00	28136	129.00	1627	174.00	1093120
60.00	7937	88.00	27848	130.00	3973	175.00	77240
61.00	38400	91.00	3138	131.00	1518	176.00	1057280
62.00	39160	92.00	28288	135.00	1747	177.00	69536
63.00	30048	93.00	41704	137.00	1821	178.00	1820
64.00	2942	94.00	121960	140.00	505		
65.00	838	95.00	1097216	141.00	10115		
67.00	2479	96.00	72416	142.00	1171		

Digitally signed by Jacob E. Bailey on 10/06/2015 at 17:26.
Target 3.5 esignature user ID: jeb07445

Date : 07-OCT-2015 12:57

Client ID: 50NGBFB

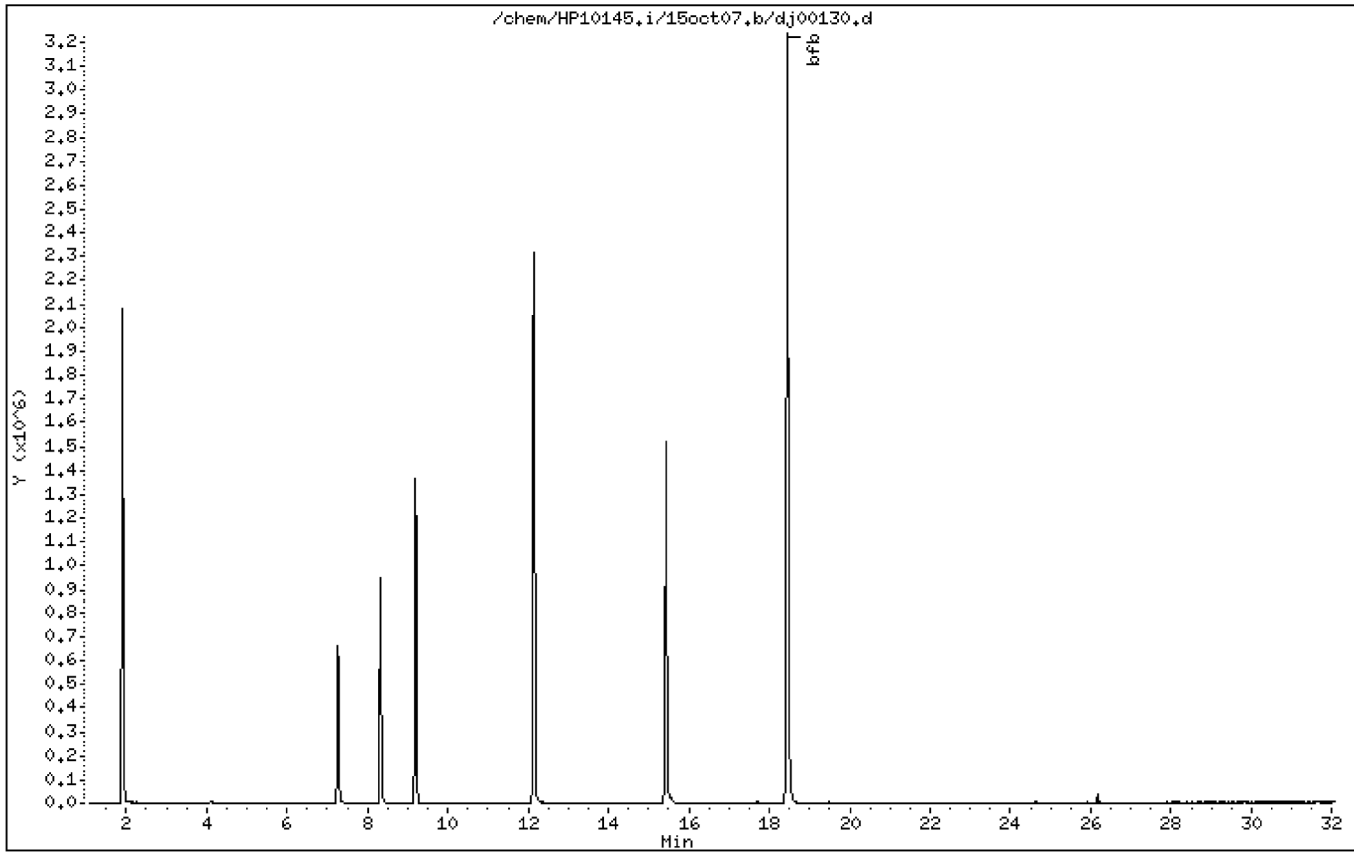
Instrument: HP10145,i

Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jacob E. Bailey on 10/07/2015 at 21:37.
Target 3.5 esignature user ID: jeb07445

Date : 07-OCT-2015 12:57

Client ID: 50NGBFB

Instrument: HP10145,i

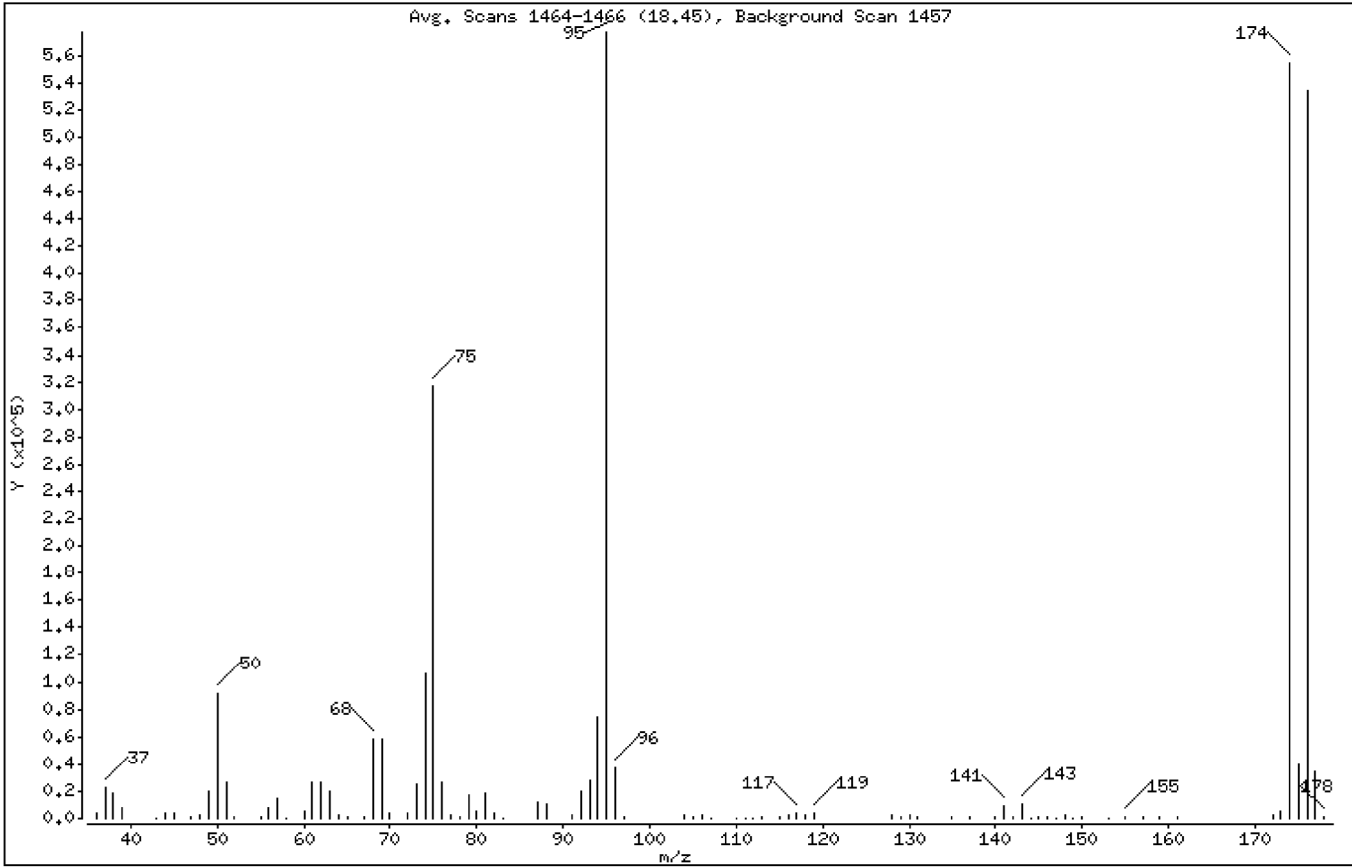
Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	15.87
75	30.00 - 66.00% of mass 95	54.87
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.82 (0.85)
174	50.00 - 120.00% of mass 95	96.20
175	4.00 - 9.00% of mass 174	6.94 (7.22)
176	93.00 - 101.00% of mass 174	92.72 (96.38)
177	5.00 - 9.00% of mass 176	6.00 (6.48)

Digitally signed by Jacob E. Bailey on 10/07/2015 at 21:37.
 Target 3.5 esignature user ID: jeb07445

Date : 07-OCT-2015 12:57

Client ID: 50NGBFB

Instrument: HP10145.i

Sample Info: 50NGBFB;;;BFB;0;;;

Operator: jbs01304

Column phase: DB-624

Column diameter: 0.25

Data File: dj00130.d

Spectrum: Avg. Scans 1464-1466 (18.45), Background Scan 1457

Location of Maximum: 95.00

Number of points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4059	67.00	1433	96.00	37104	142.00	957
37.00	22000	68.00	58664	97.00	1077	143.00	9966
38.00	18520	69.00	58496	104.00	2746	144.00	470
39.00	7408	70.00	4144	105.00	1041	145.00	984
43.00	358	72.00	3350	106.00	2923	146.00	966
44.00	3556	73.00	25448	107.00	652	147.00	176
45.00	3810	74.00	105408	110.00	355	148.00	2085
47.00	1623	75.00	316416	111.00	450	149.00	449
48.00	2825	76.00	26376	112.00	376	150.00	891
49.00	19888	77.00	2209	113.00	718	153.00	355
50.00	91528	78.00	1187	115.00	686	155.00	1872
51.00	26696	79.00	17480	116.00	2724	157.00	1425
52.00	1204	80.00	5152	117.00	4368	159.00	1126
55.00	1684	81.00	17920	118.00	2619	161.00	1125
56.00	8098	82.00	3707	119.00	3828	172.00	2289
57.00	14639	83.00	495	128.00	2417	173.00	4705
58.00	455	87.00	11443	129.00	1339	174.00	554816
60.00	4761	88.00	10553	130.00	2579	175.00	40032
61.00	26032	91.00	2561	131.00	1259	176.00	534720
62.00	26512	92.00	19424	135.00	1538	177.00	34624
63.00	20256	93.00	28328	137.00	1267	178.00	896
64.00	2111	94.00	74072	140.00	665		
65.00	1554	95.00	576704	141.00	9059		

Digitally signed by Jacob E. Bailey on 10/07/2015 at 21:37.
Target 3.5 esignature user ID: jeb07445

VBLKD88

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKD88

Data file: /chem/HP10145.i/15oct05.b/dj00073.d Injection date and time: 05-OCT-2015 14:24
Data file Sample Info. Line: VBLKD88;D1527830AA;VBLKD88;0;3;BLANK; Instrument ID: HP10145.i Batch: D1527830AA
Date, time and analyst ID of latest file update: 16-Oct-2015 09:07 jbs01304

Blank Data file reference: /chem/HP10145.i/15oct05.b/dj00073.d

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct05.b/dj00071.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Table with 8 columns: Internal Standards, RT (+/-RT), Scan, QIon, Area(+/- %Change), Conc. (on column), QC Flag, QC Limits. Rows include Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5.

Table with 12 columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 44 target compounds and their detection status.

VBLKD88

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKD88

Data file: /chem/HP10145.i/15oct05.b/dj00073.d Injection date and time: 05-OCT-2015 14:24
Data file Sample Info. Line: VBLKD88;;D1527830AA;VBLKD88;0;3;BLANK; Instrument ID: HP10145.i Batch: D1527830AA
Date, time and analyst ID of latest file update: 16-Oct-2015 09:07 jbs01304

Blank Data file reference: /chem/HP10145.i/15oct05.b/dj00073.d

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct05.b/dj00071.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Table with columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 100 compounds such as Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, etc., all marked as 'Not Detected'.

VBLKD88

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKD88

Data file: /chem/HP10145.i/15oct05.b/dj00073.d Injection date and time: 05-OCT-2015 14:24
Data file Sample Info. Line: VBLKD88;;D1527830AA;VBLKD88;0;3;BLANK; Instrument ID: HP10145.i Batch: D1527830AA
Date, time and analyst ID of latest file update: 16-Oct-2015 09:07 jbs01304

Blank Data file reference: /chem/HP10145.i/15oct05.b/dj00073.d

Method used: /chem/HP10145.i/15oct05.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 05-OCT-2015 13:26
Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct05.b/dj00071.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

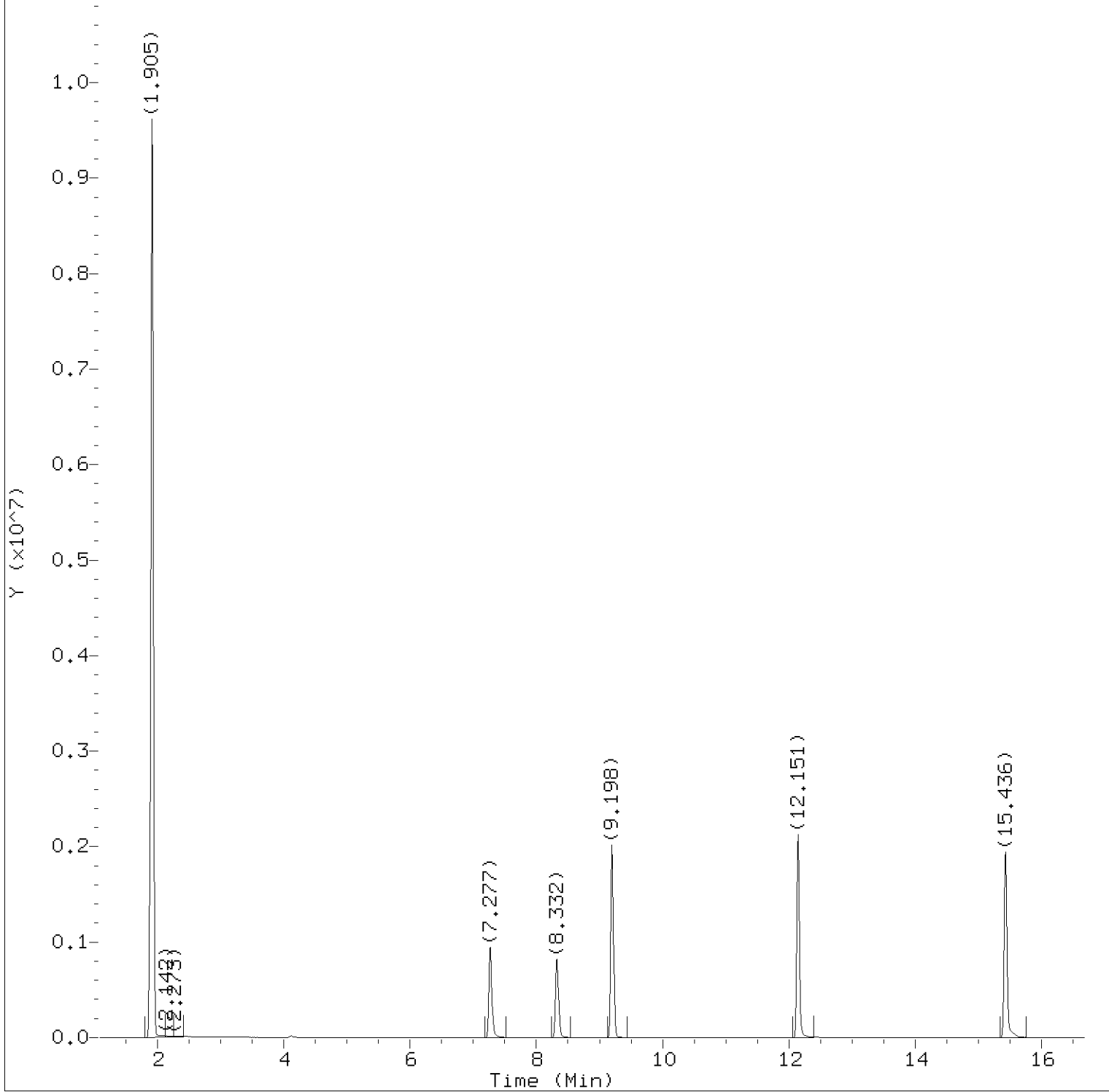
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
101) Hexachlorobutadiene	(3)			Not Detected					0.4	2
102) Naphthalene	(3)			Not Detected					0.5	1

Total number of targets = 99

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:11. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/16/2015 at 13:08. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00073.d
Injection date and time: 05-OCT-2015 14:24

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: all

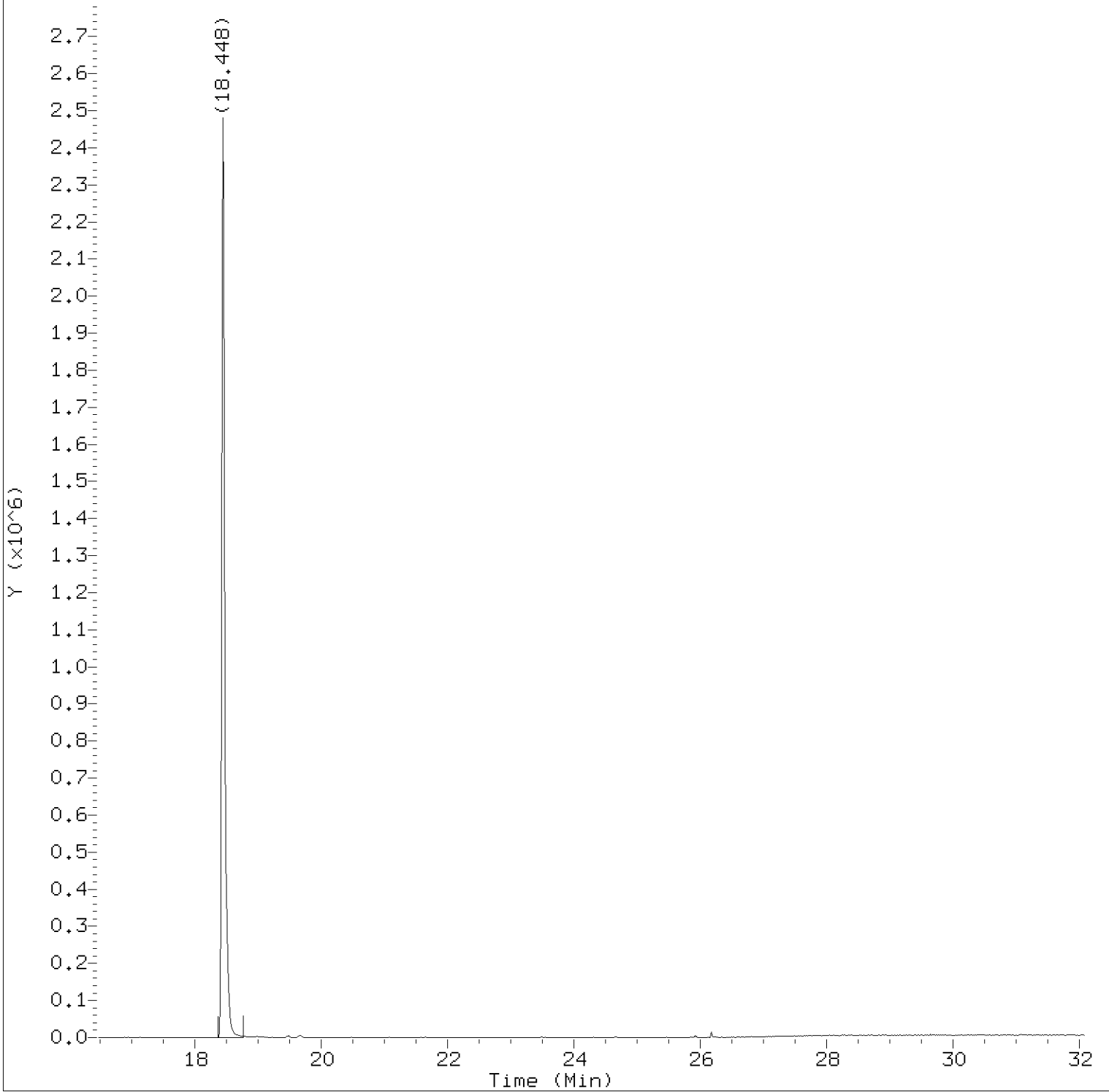
Date, time and analyst ID of latest file update: 16-Oct-2015 09:07 jbs01304

Sample Name: VBLKD88

Lab Sample ID: VBLKD88

Digitally signed by Jeffrey B. Smith
on 10/16/2015 at 09:11.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00073.d
Injection date and time: 05-OCT-2015 14:24

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: all

Date, time and analyst ID of latest file update: 16-Oct-2015 09:07 jbs01304

Sample Name: VBLKD88

Lab Sample ID: VBLKD88

Digitally signed by Jeffrey B. Smith
on 10/16/2015 at 09:11.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00073.d
Injection date and time: 05-OCT-2015 14:24

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: all

Date, time and analyst ID of latest file update: 16-Oct-2015 09:07 jbs01304

Sample Name: VBLKD88

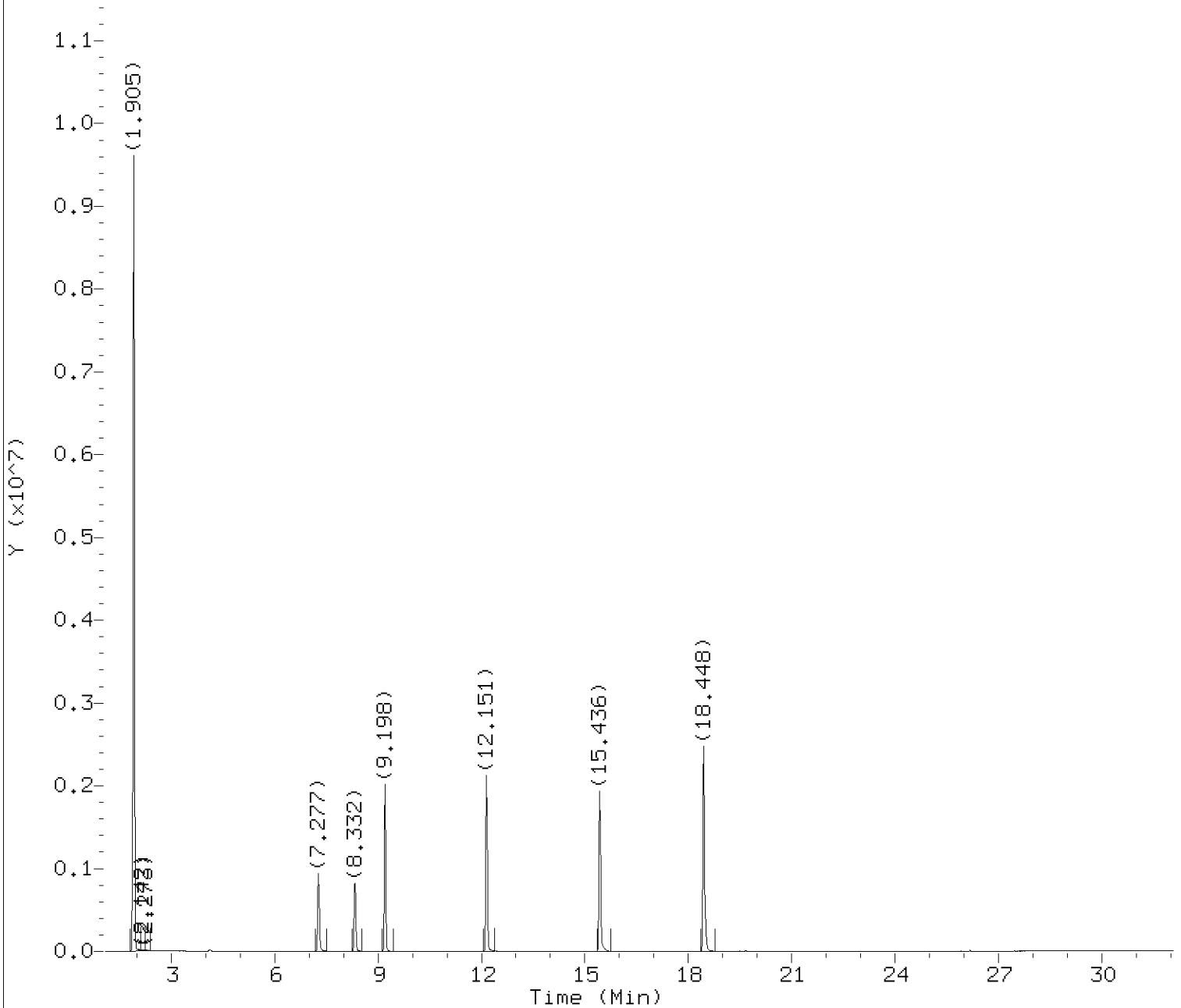
Lab Sample ID: VBLKD88

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
===== 40)*Bromochloromethane	(1)	7.277	130	656118	10.000
51)*1,4-Difluorobenzene	(2)	9.198	114	2551666	10.000
71)*Chlorobenzene-d5	(3)	15.436	117	2203052	10.000

* = Compound is an internal standard.

page 1 of 1

Digitally signed by Jeffrey B. Smith
on 10/16/2015 at 09:11.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00073.d
Injection date and time: 05-OCT-2015 14:24

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: all

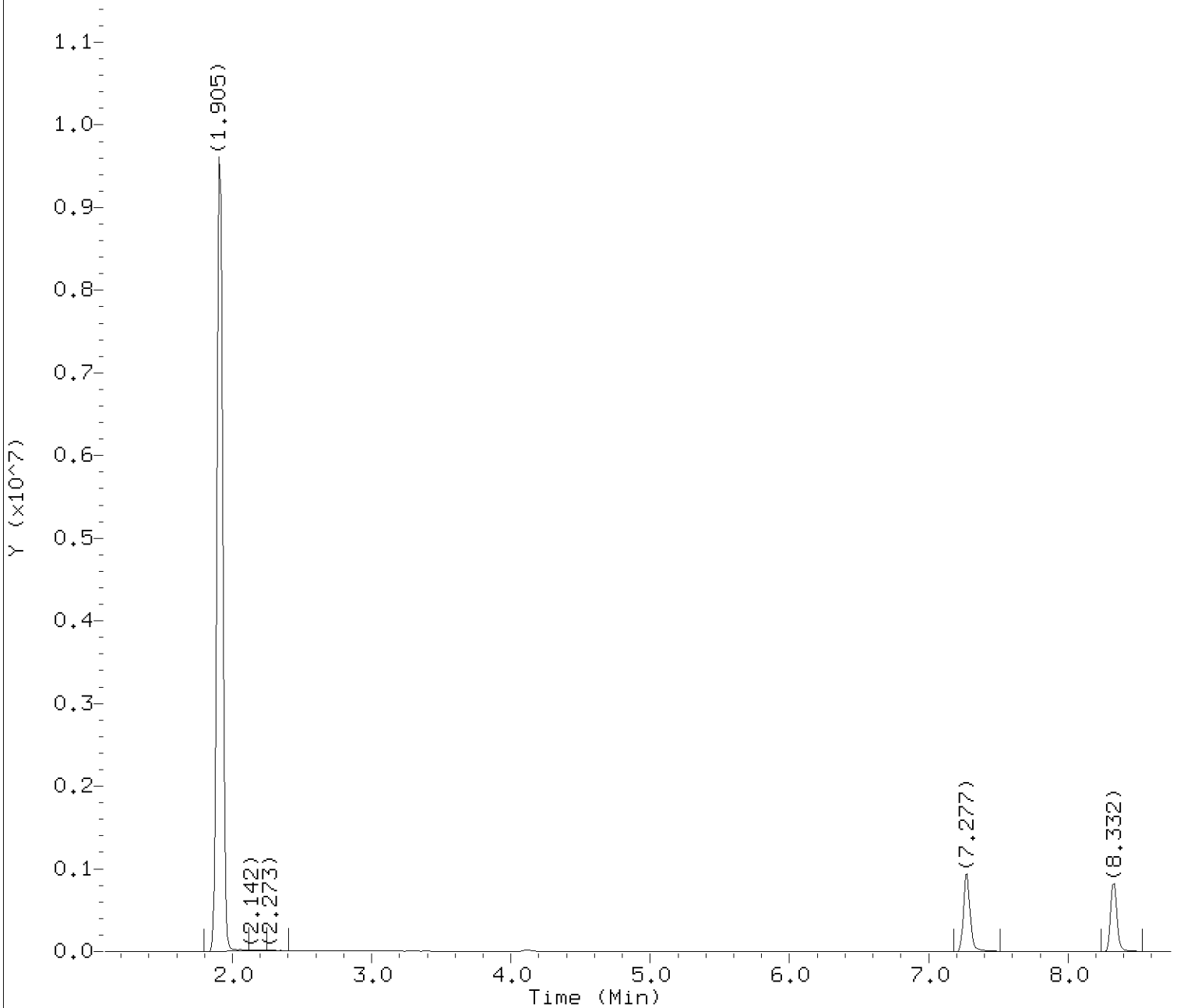
Date, time and analyst ID of latest file update: 16-Oct-2015 09:07 jbs01304

Sample Name: VBLKD88

Lab Sample ID: VBLKD88

Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 32.073

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:10.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00073.d
Injection date and time: 05-OCT-2015 14:24

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: all

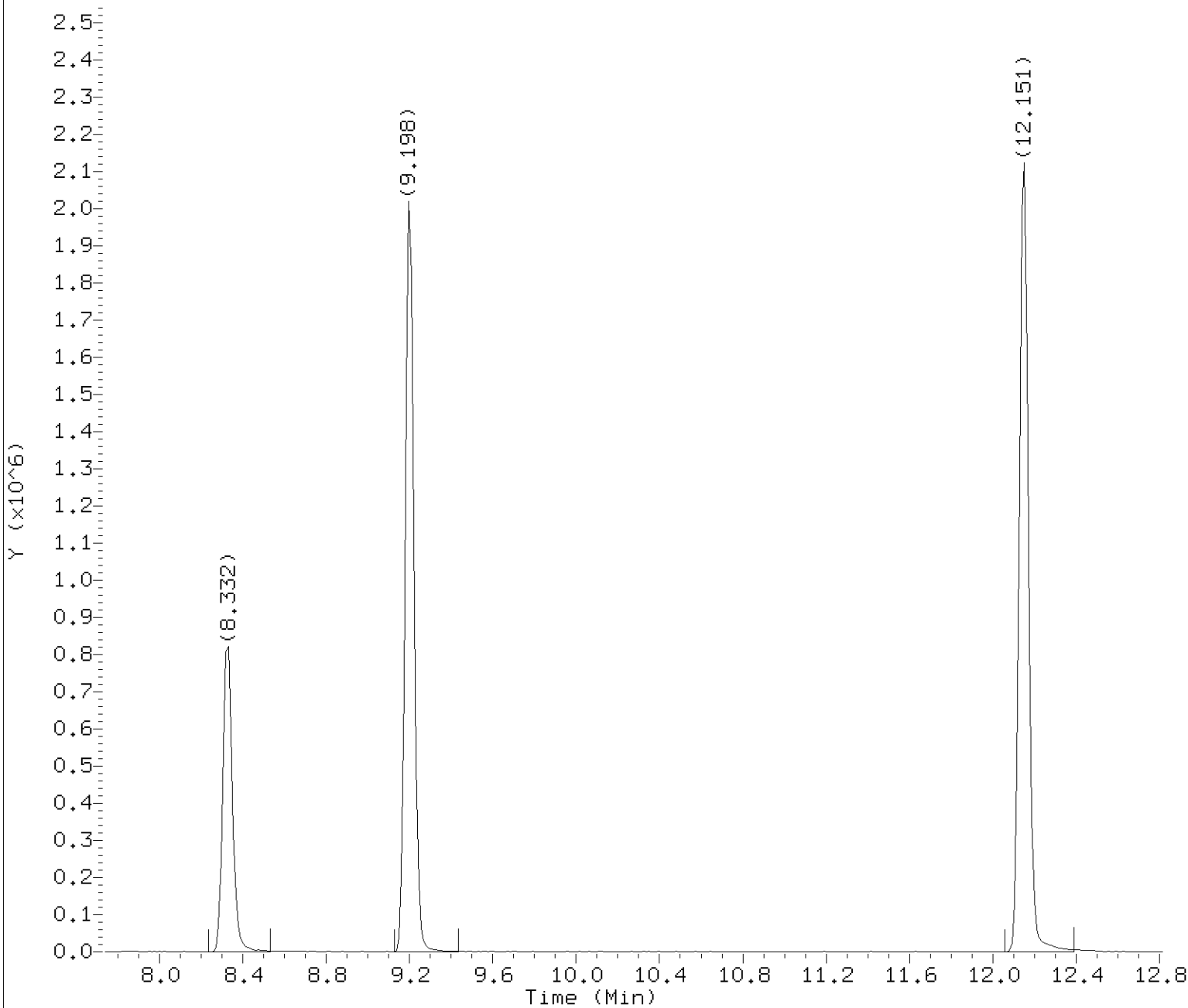
Date, time and analyst ID of latest file update: 16-Oct-2015 09:07 jbs01304

Sample Name: VBLKD88

Lab Sample ID: VBLKD88

Internal Standard referenced: Bromochloromethane at 7.277 minutes
Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 8.237

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:10.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00073.d
Injection date and time: 05-OCT-2015 14:24

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: all

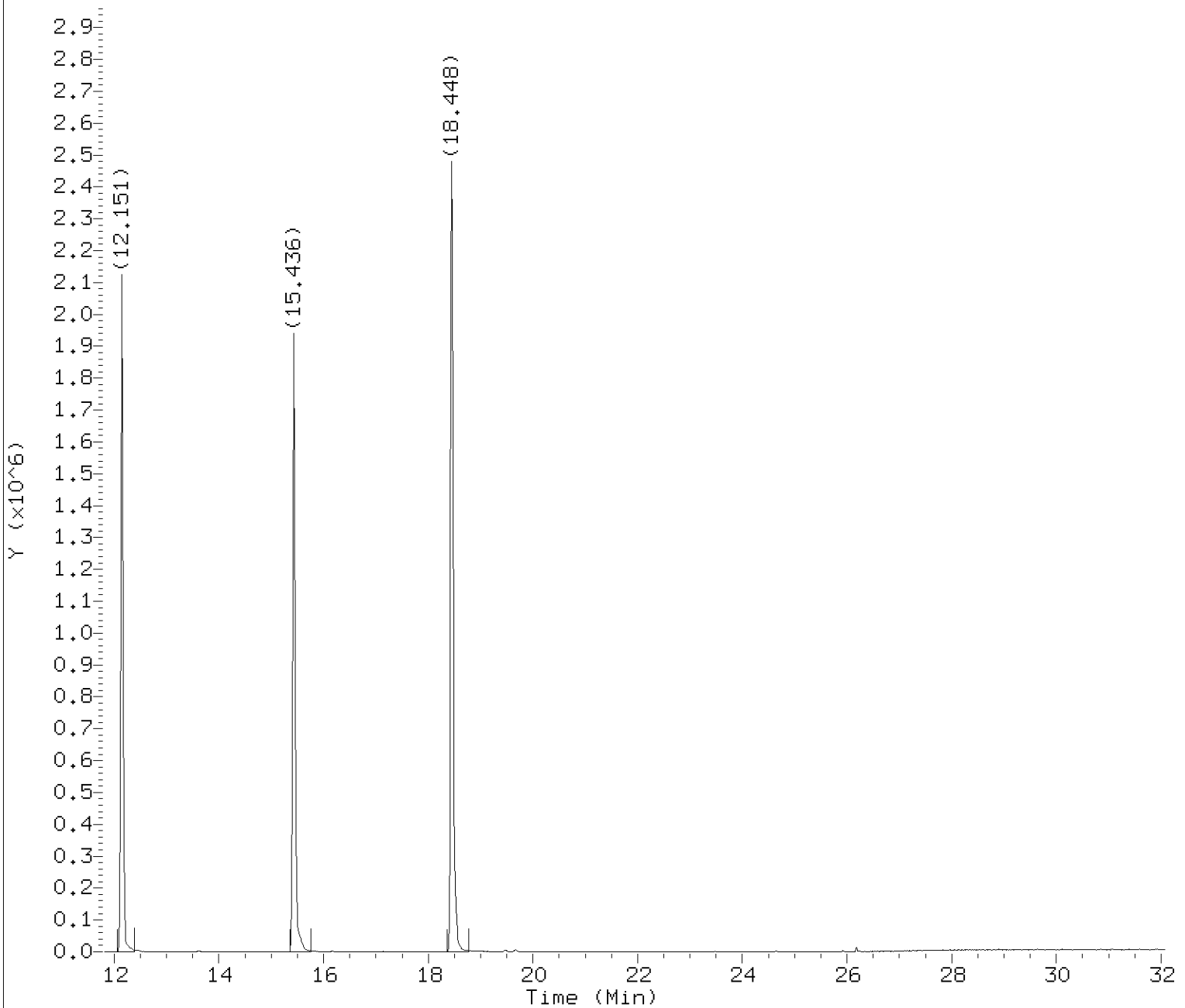
Date, time and analyst ID of latest file update: 16-Oct-2015 09:07 jbs01304

Sample Name: VBLKD88

Lab Sample ID: VBLKD88

Internal Standard referenced: 1,4-Difluorobenzene at 9.198 minutes
Chromatogram Start Time (min.): 8.237
Chromatogram End Time (min.): 12.317

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:10.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct05.b/dj00073.d
Injection date and time: 05-OCT-2015 14:24

Instrument ID: HP10145.i
Analyst ID: jbs01304

Method used: /chem/HP10145.i/15oct05.b/to-15.m
Calibration date and time: 05-OCT-2015 13:26

Sublist used: all

Date, time and analyst ID of latest file update: 16-Oct-2015 09:07 jbs01304

Sample Name: VBLKD88

Lab Sample ID: VBLKD88

Internal Standard referenced: Chlorobenzene-d5 at 15.436 minutes

Chromatogram Start Time (min.): 12.317

Chromatogram End Time (min.): 32.073

Digitally signed by Jeffrey B. Smith on 10/16/2015 at 09:10.
Target 3.5 esignature user ID: jbs01304

Lancaster Laboratories, Inc.

Data file : /chem/HP10145.i/15oct05.b/dj00073.d
Lab Smp Id: VBLKD88 Client Smp ID: VBLKD88
Inj Date : 05-OCT-2015 14:24
Operator : jbs01304 Inst ID: HP10145.i
Smp Info : VBLKD88;;D1527830AA;VBLKD88;0;3;BLANK;
Misc Info : ;;250;;;;
Comment :
Method : /chem/HP10145.i/15oct05.b/to-15.m
Meth Date : 16-Oct-2015 09:06 jbs01304 Quant Type: ISTD
Cal Date : 01-OCT-2015 17:08 Cal File: dj00008.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: d30cs01

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

VBLKD89

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKD89

Data file: /chem/HP10145.i/15oct06.b/dj00107.d Injection date and time: 06-OCT-2015 18:21
Data file Sample Info. Line: VBLKD89;D1527830AB;VBLKD89;0;3;BLANK; Instrument ID: HP10145.i Batch: D1527830AB
Date, time and analyst ID of latest file update: 06-Oct-2015 19:02 Automation

Blank Data file reference: /chem/HP10145.i/15oct06.b/dj00107.d

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 06-OCT-2015 17:22
Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct06.b/dj00105.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Table with 8 columns: Internal Standards, RT (+/-RT), Scan, QIon, Area(+/- %Change), Conc. (on column), QC Flag, QC Limits. Contains data for Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5.

Table with 12 columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 44 target compounds and their detection status.

VBLKD89

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKD89

Data file: /chem/HP10145.i/15oct06.b/dj00107.d Injection date and time: 06-OCT-2015 18:21
Data file Sample Info. Line: VBLKD89;;D1527830AB;VBLKD89;0;3;BLANK; Instrument ID: HP10145.i Batch: D1527830AB
Date, time and analyst ID of latest file update: 06-Oct-2015 19:02 Automation

Blank Data file reference: /chem/HP10145.i/15oct06.b/dj00107.d

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 06-OCT-2015 17:22
Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct06.b/dj00105.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Table with columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 100 compounds such as Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, etc., all marked as 'Not Detected'.

VBLKD89

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKD89

Data file: /chem/HP10145.i/15oct06.b/dj00107.d Injection date and time: 06-OCT-2015 18:21
Data file Sample Info. Line: VBLKD89;;D1527830AB;VBLKD89;0;3;BLANK; Instrument ID: HP10145.i Batch: D1527830AB
Date, time and analyst ID of latest file update: 06-Oct-2015 19:02 Automation

Blank Data file reference: /chem/HP10145.i/15oct06.b/dj00107.d

Method used: /chem/HP10145.i/15oct06.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 06-OCT-2015 17:22
Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct06.b/dj00105.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

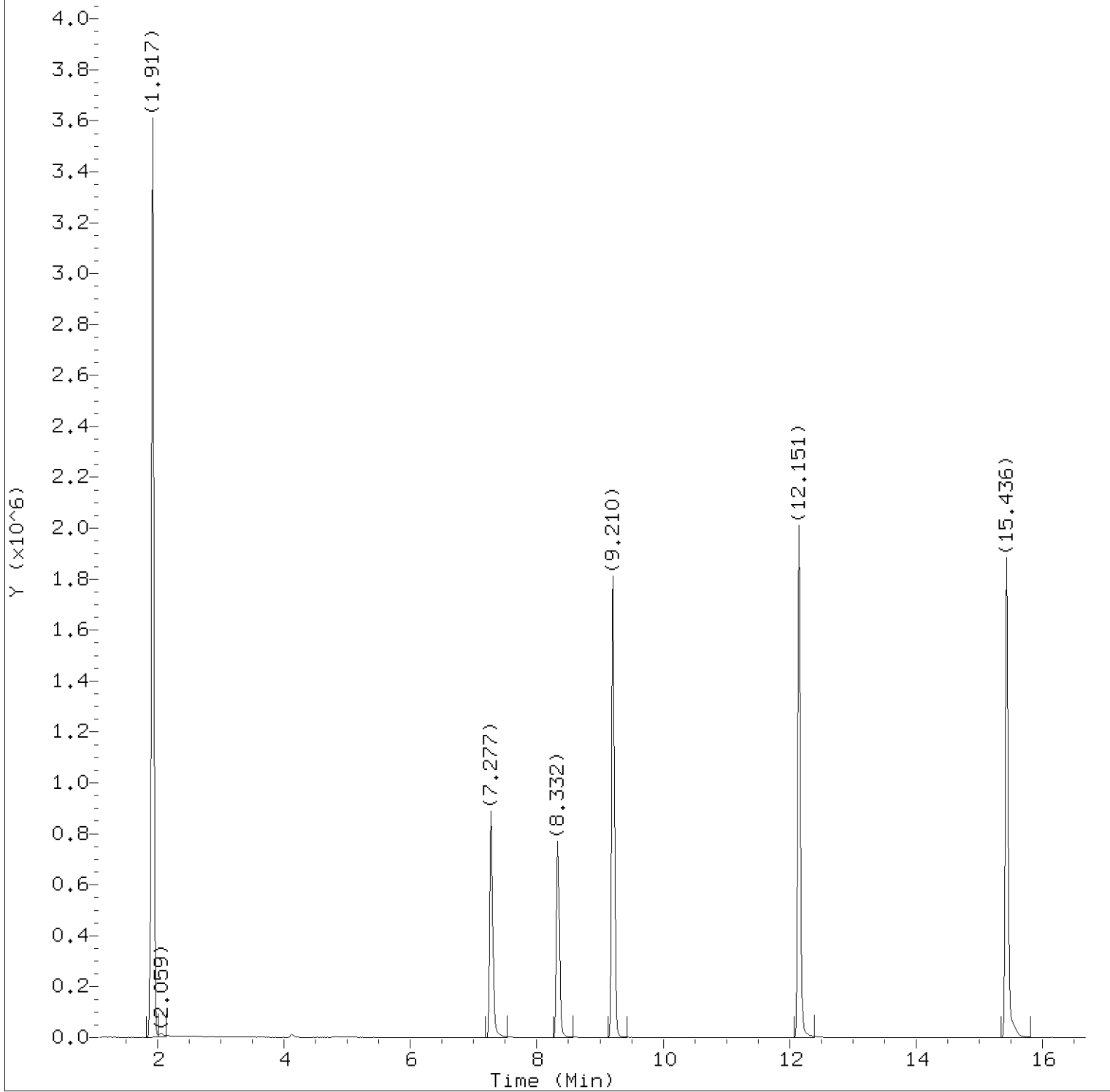
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
101) Hexachlorobutadiene	(3)			Not Detected					0.4	2
102) Naphthalene	(3)			Not Detected					0.5	1

Total number of targets = 99

Digitally signed by Jacob E. Bailey on 10/06/2015 at 19:19. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Christine M. Ratcliff on 10/08/2015 at 11:22. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00107.d
Injection date and time: 06-OCT-2015 18:21

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
Calibration date and time: 06-OCT-2015 17:22

Sublist used: all

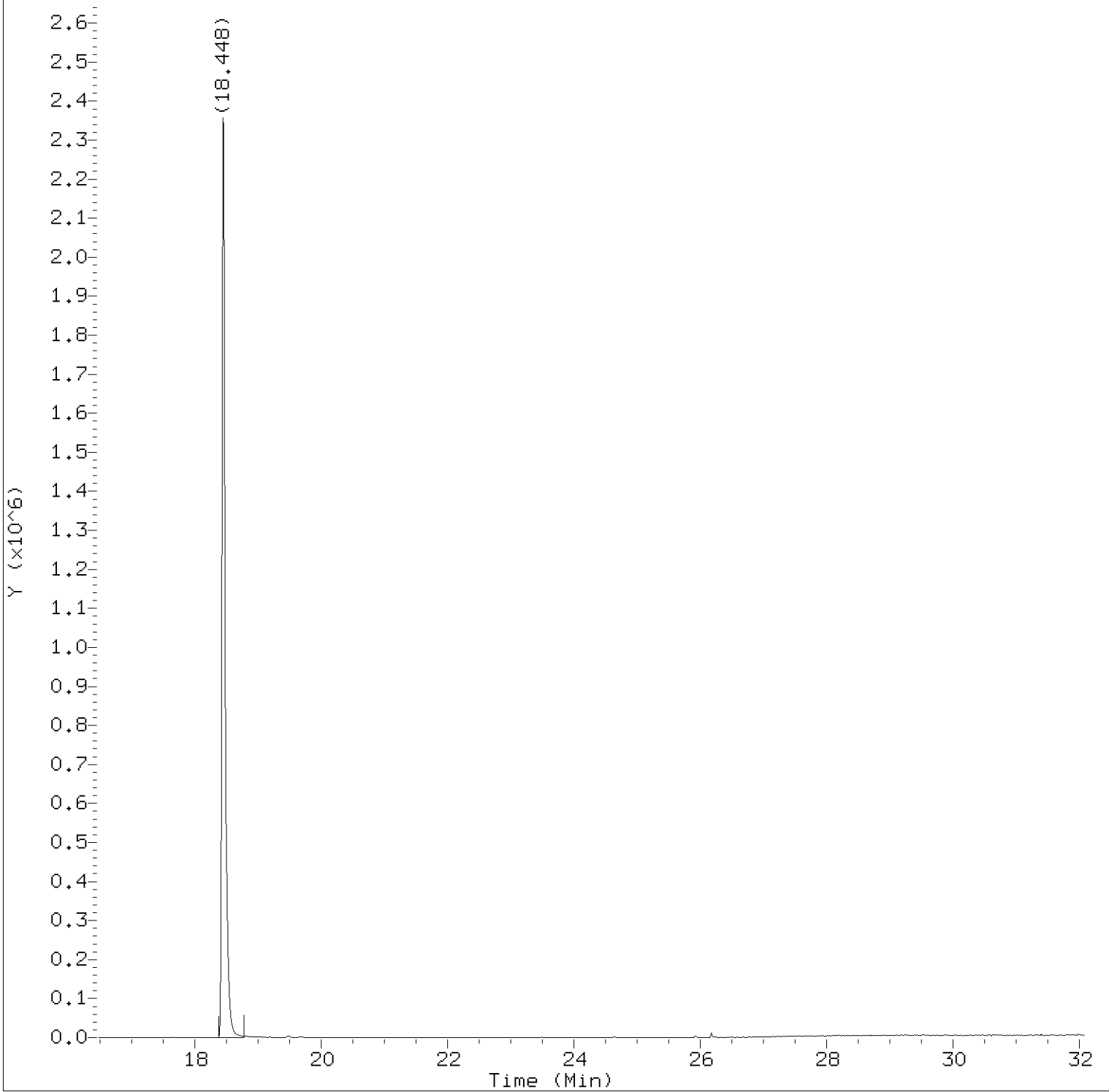
Date, time and analyst ID of latest file update: 06-Oct-2015 19:02 Automation

Sample Name: VBLKD89

Lab Sample ID: VBLKD89

Digitally signed by Jacob E. Bailey
on 10/06/2015 at 19:19.

Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00107.d
Injection date and time: 06-OCT-2015 18:21

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
Calibration date and time: 06-OCT-2015 17:22

Sublist used: all

Date, time and analyst ID of latest file update: 06-Oct-2015 19:02 Automation

Sample Name: VBLKD89

Lab Sample ID: VBLKD89

Digitally signed by Jacob E. Bailey
on 10/06/2015 at 19:19.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct06.b/dj00107.d
Injection date and time: 06-OCT-2015 18:21

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct06.b/to-15.m
Calibration date and time: 06-OCT-2015 17:22

Sublist used: all

Date, time and analyst ID of latest file update: 06-Oct-2015 19:02 Automation

Sample Name: VBLKD89

Lab Sample ID: VBLKD89

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
===== 40)*Bromochloromethane	(1)	7.277	130	600933	10.000
51)*1,4-Difluorobenzene	(2)	9.210	114	2331829	10.000
71)*Chlorobenzene-d5	(3)	15.436	117	2109402	10.000

* = Compound is an internal standard.

VBLKD90

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKD90

Data file: /chem/HP10145.i/15oct07.b/dj00138.d Injection date and time: 07-OCT-2015 20:06
Data file Sample Info. Line: VBLKD90;250;D1528030AA;VBLKD90;0;3;BLANK; Instrument ID: HP10145.i Batch: D1528030AA
Date, time and analyst ID of latest file update: 16-Oct-2015 08:43 jbs01304

Blank Data file reference: /chem/HP10145.i/15oct07.b/dj00138.d

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct07.b/dj00136.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Analysis Comments:

Table with 8 columns: Internal Standards, RT (+/-RT), Scan, QIon, Area(+/- %Change), Conc. (on column), QC Flag, QC Limits. Rows include Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5.

Table with 11 columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 44 target compounds and their detection status.

VBLKD90

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKD90

Data file: /chem/HP10145.i/15oct07.b/dj00138.d Injection date and time: 07-OCT-2015 20:06
Data file Sample Info. Line: VBLKD90;250;D1528030AA;VBLKD90;0;3;BLANK; Instrument ID: HP10145.i Batch: D1528030AA
Date, time and analyst ID of latest file update: 16-Oct-2015 08:43 jbs01304

Blank Data file reference: /chem/HP10145.i/15oct07.b/dj00138.d

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct07.b/dj00136.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Table with columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists 100 compounds such as Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, etc., all marked as 'Not Detected'.

VBLKD90

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air VBLKD90

Data file: /chem/HP10145.i/15oct07.b/dj00138.d Injection date and time: 07-OCT-2015 20:06
Data file Sample Info. Line: VBLKD90;250;D1528030AA;VBLKD90;0;3;BLANK; Instrument ID: HP10145.i Batch: D1528030AA
Date, time and analyst ID of latest file update: 16-Oct-2015 08:43 jbs01304

Blank Data file reference: /chem/HP10145.i/15oct07.b/dj00138.d

Method used: /chem/HP10145.i/15oct07.b/to-15.m Sublist used: all
Calibration date and time (Last Method Edit): 07-OCT-2015 19:05
Mid Level Daily Calibration Standard Reference: /chem/HP10145.i/15oct07.b/dj00136.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

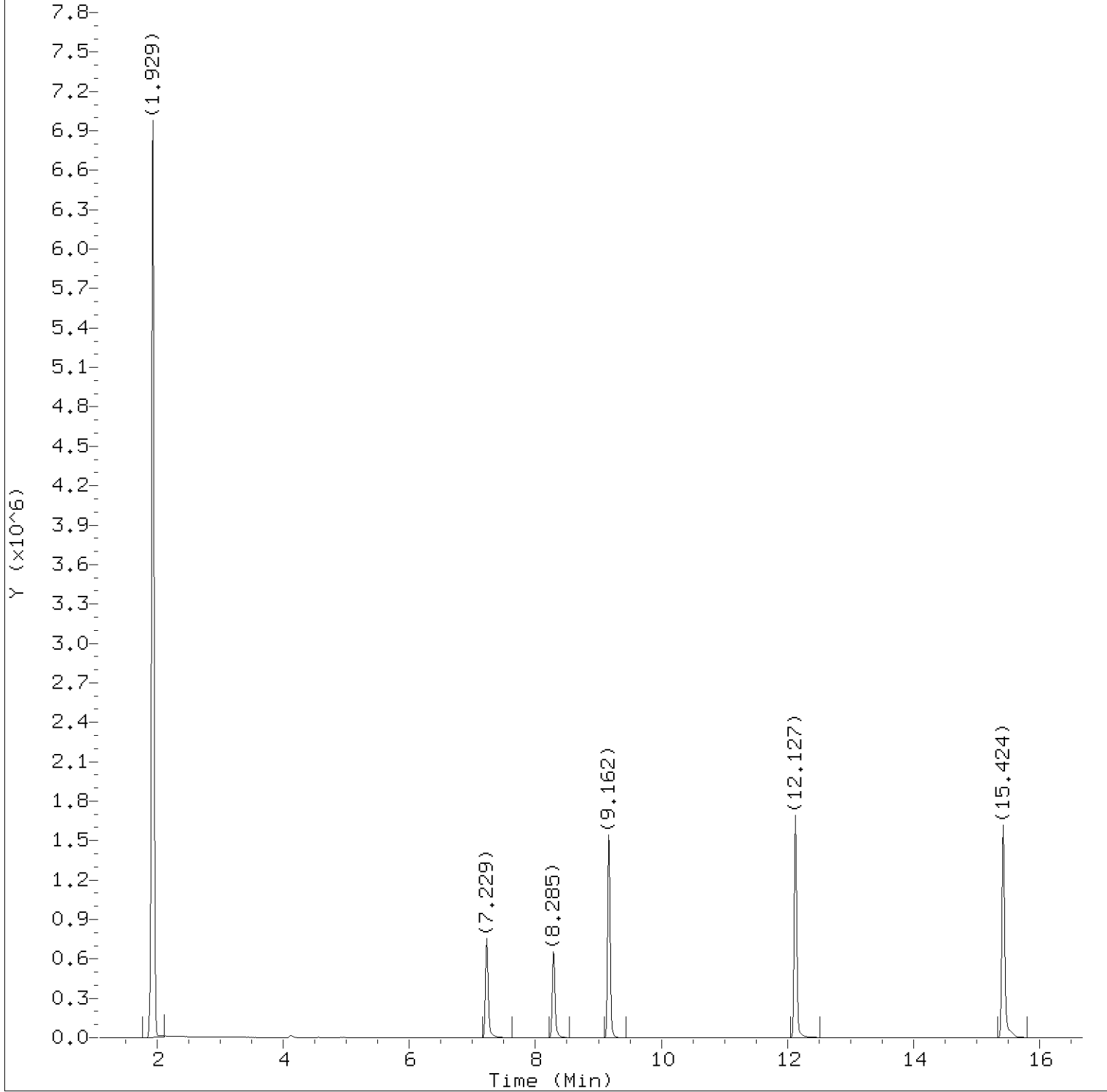
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 14.7 psia Canister Pressure before dilution (Ya): 14.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 250 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
101) Hexachlorobutadiene	(3)			Not Detected					0.4	2
102) Naphthalene	(3)			Not Detected					0.5	1

Total number of targets = 99

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Secondary review performed and digitally signed by Christine M. Ratcliff on 10/16/2015 at 13:04. Parallax ID: cmr00412



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00138.d
Injection date and time: 07-OCT-2015 20:06

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: all

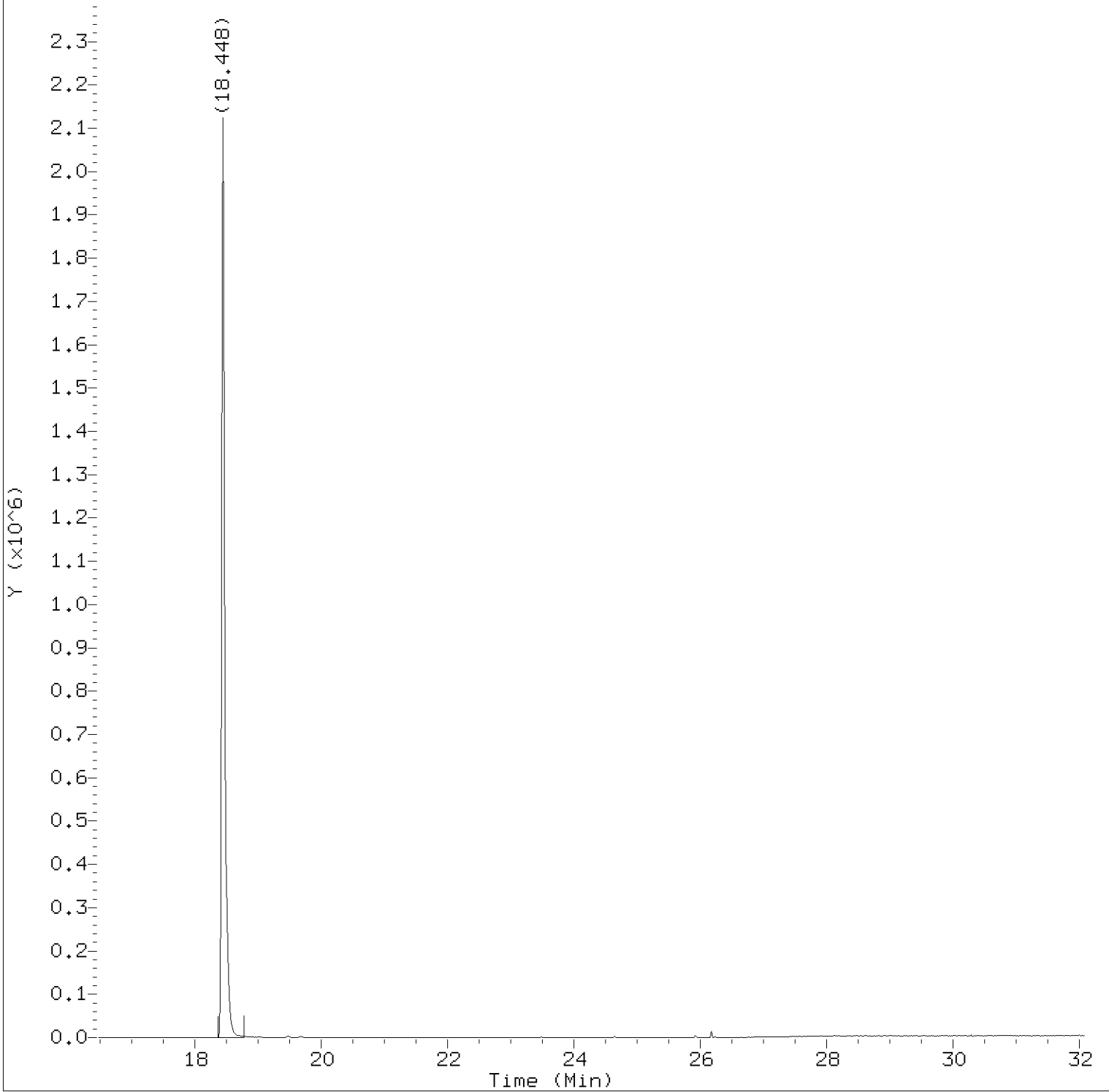
Date, time and analyst ID of latest file update: 16-Oct-2015 08:43 jbs01304

Sample Name: VBLKD90

Lab Sample ID: VBLKD90

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on 10/16/2015 at 08:55.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00138.d
Injection date and time: 07-OCT-2015 20:06

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: all

Date, time and analyst ID of latest file update: 16-Oct-2015 08:43 jbs01304

Sample Name: VBLKD90

Lab Sample ID: VBLKD90

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Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00138.d
Injection date and time: 07-OCT-2015 20:06

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: all

Date, time and analyst ID of latest file update: 16-Oct-2015 08:43 jbs01304

Sample Name: VBLKD90

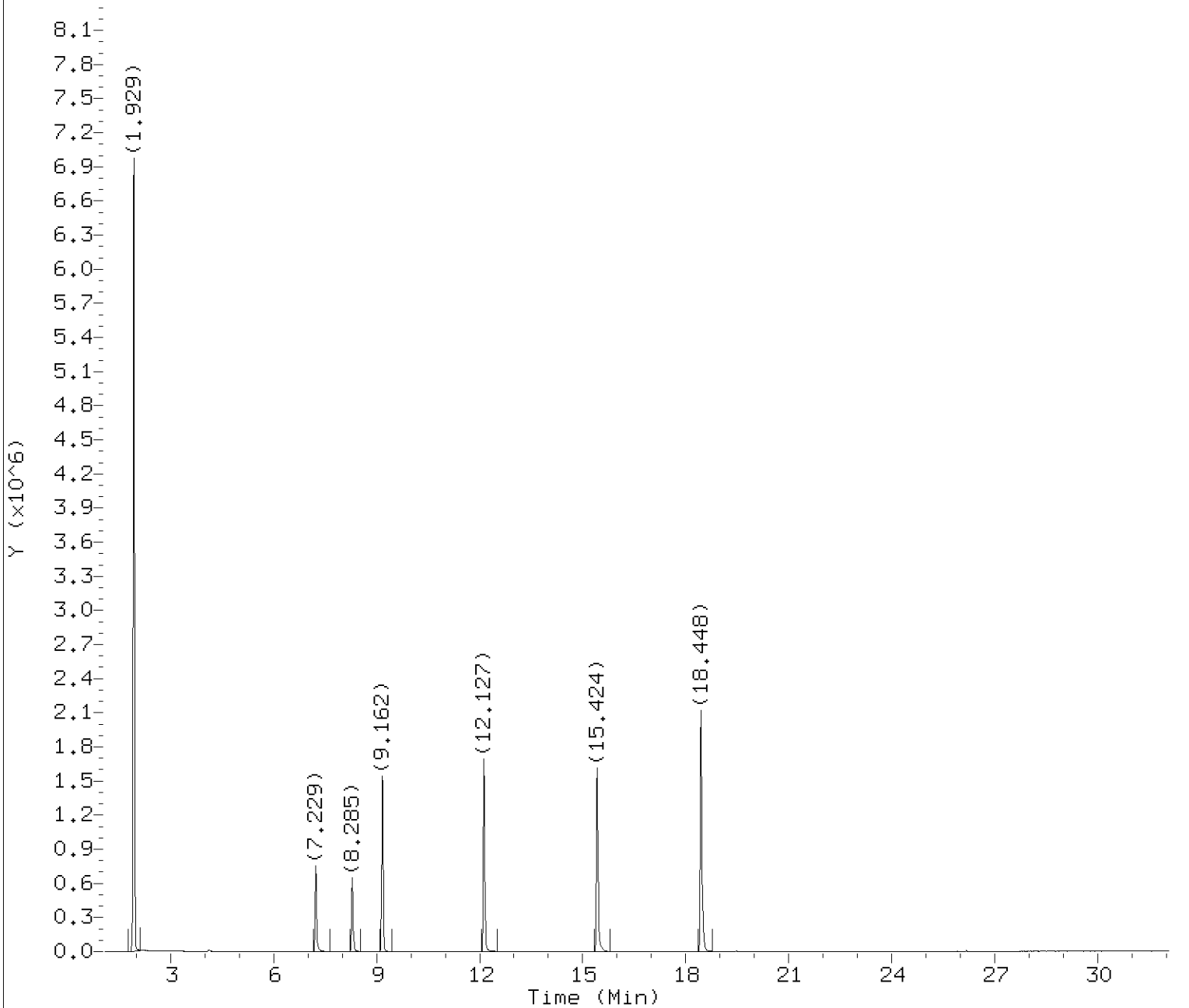
Lab Sample ID: VBLKD90

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
===== 40)*Bromochloromethane	(1)	7.229	130	511526	10.000
51)*1,4-Difluorobenzene	(2)	9.162	114	1942455	10.000
71)*Chlorobenzene-d5	(3)	15.424	117	1787987	10.000

* = Compound is an internal standard.

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Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00138.d
Injection date and time: 07-OCT-2015 20:06

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: all

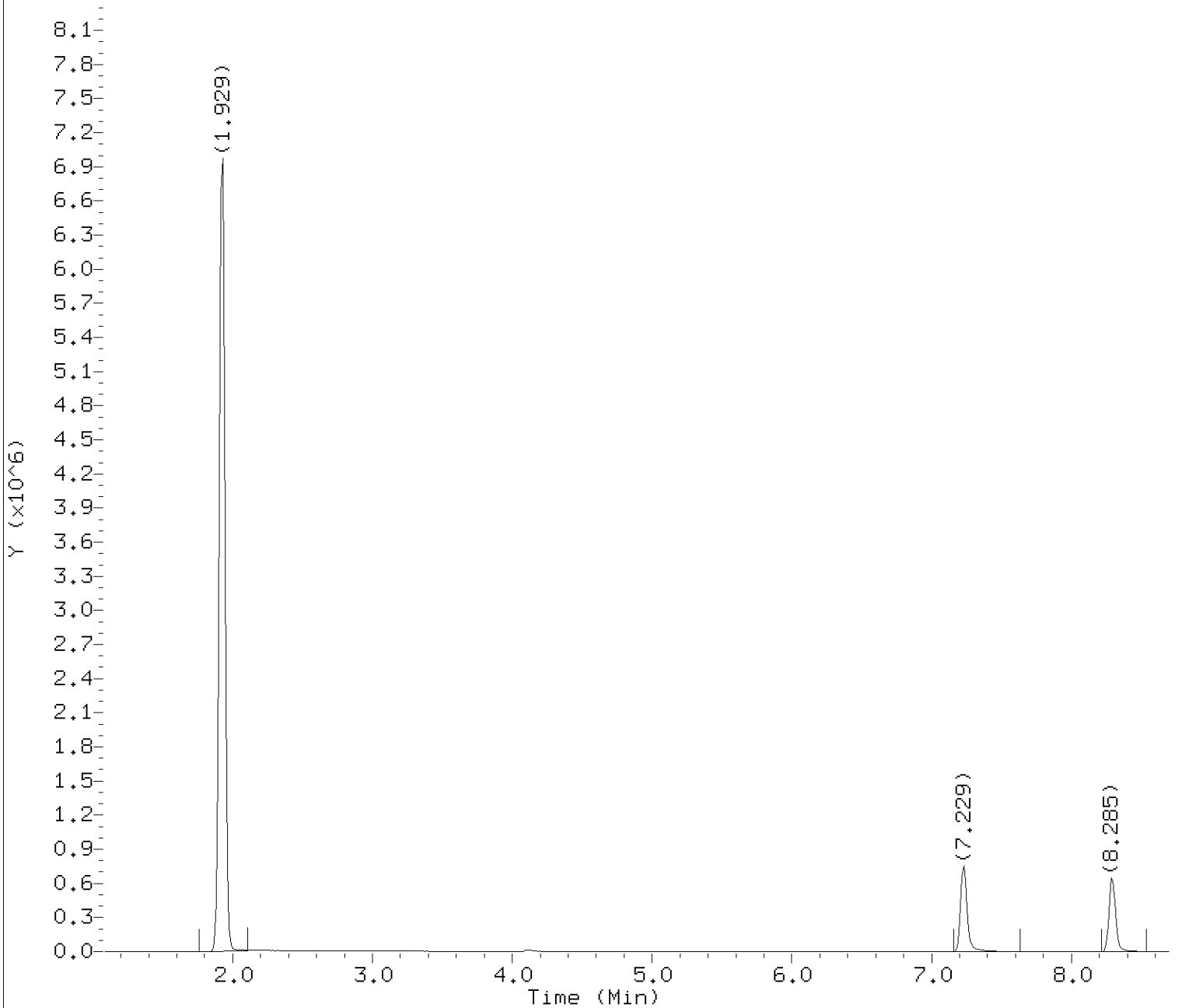
Date, time and analyst ID of latest file update: 16-Oct-2015 08:43 jbs01304

Sample Name: VBLKD90

Lab Sample ID: VBLKD90

Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 32.073

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Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00138.d
Injection date and time: 07-OCT-2015 20:06

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: all

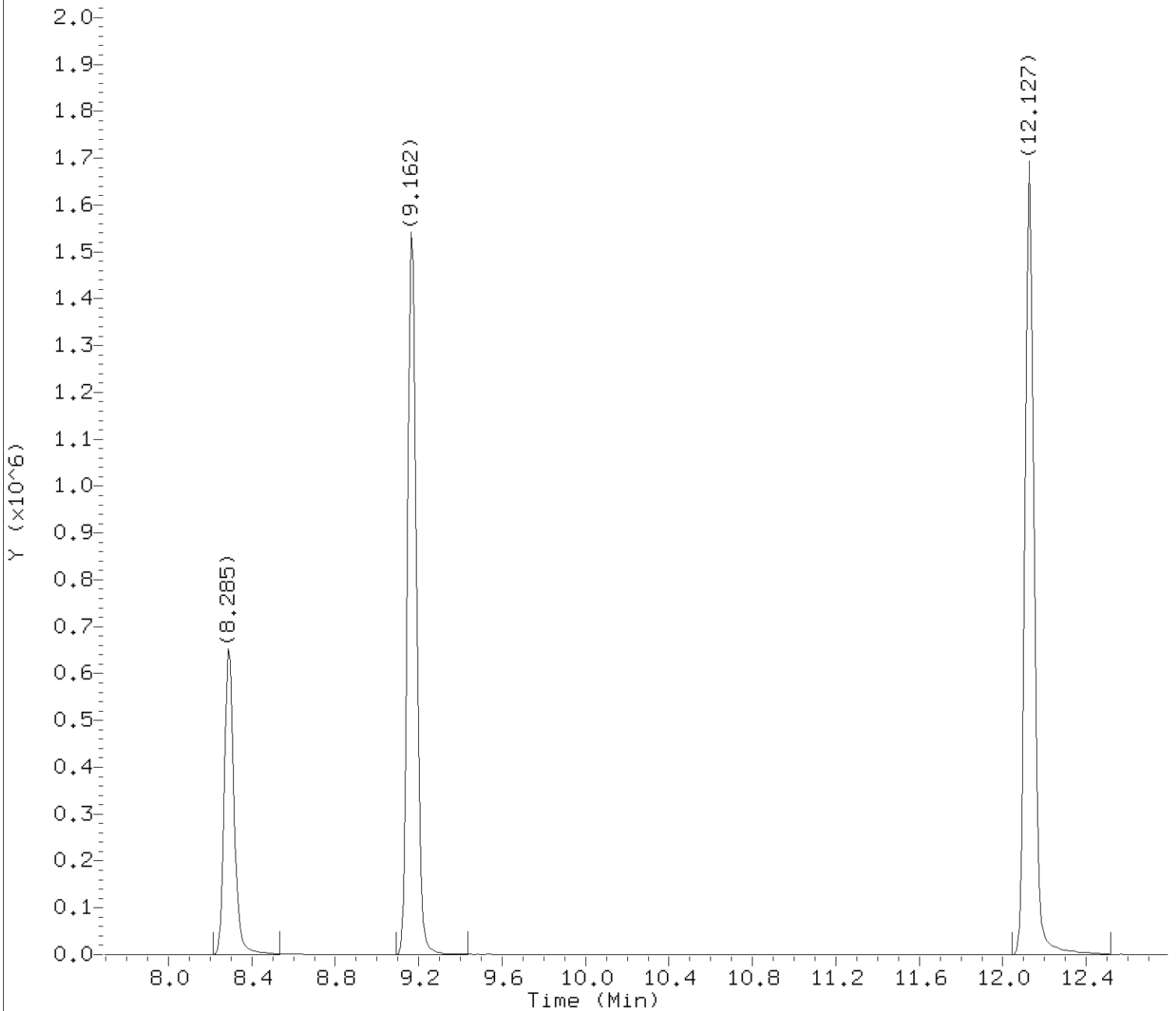
Date, time and analyst ID of latest file update: 16-Oct-2015 08:43 jbs01304

Sample Name: VBLKD90

Lab Sample ID: VBLKD90

Internal Standard referenced: Bromochloromethane at 7.229 minutes
Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 8.196

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Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP10145.i/15oct07.b/dj00138.d
Injection date and time: 07-OCT-2015 20:06

Instrument ID: HP10145.i
Analyst ID: jeb07445

Method used: /chem/HP10145.i/15oct07.b/to-15.m
Calibration date and time: 07-OCT-2015 19:05

Sublist used: all

Date, time and analyst ID of latest file update: 16-Oct-2015 08:43 jbs01304

Sample Name: VBLKD90

Lab Sample ID: VBLKD90

Internal Standard referenced: 1,4-Difluorobenzene at 9.162 minutes
Chromatogram Start Time (min.): 8.196
Chromatogram End Time (min.): 12.293

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Target 3.5 esignature user ID: jbs01304