Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL073019\
Data File : VL034060.D
Acq On : 30 Jul 2019 11:25
Operator : SY/AP
Sample : K4033-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
JSG1

Manual Integrations APPROVED
MMdadoda
8/2/2019 9:37:43 AM

Quant Time: Jul 31 02:32:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL073019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul 3
QLast Update : Tue Jul 30 06:55:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.72	49	1038998	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.25	114	3853614	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.19	117	3229920	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.52	95	2619240	10.26	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.05	85	20560	0.103	ppbv		96
3) Chlorodifluoromethane	2.99	51	166183	1.386	ppbv		98
4) Chloromethane	3.15	50	32126	0.457	ppbv		98
9) Propene	3.01	41	765376	17.776	ppbv		92
10) Heptane	8.20	43	510672	4.349	ppbv		97
11) Trichlorofluoromethane	3.98	101	50664m	0.228	ppbv		
13) Ethanol	3.64	45	627703	36.628	ppbv		95
15) Acetone	3.87	43	1968080	12.459	ppbv		94
19) Isopropyl Alcohol	4.02	45	119868m	1.111	ppbv		
20) Methylene Chloride	4.38	84	260717	4.315	ppbv		98
26) Hexane	5.74	57	878400	8.270	ppbv	#	39
27) Carbon Disulfide	4.58	76	888433	5.371	ppbv		95
29) Chloroform	5.81	83	177670	0.916	ppbv		93
30) Cyclohexane	7.20	84	1633851	15.139	ppbv		98
32) 1,1,1-Trichloroethane	6.58	97	170785	0.839	ppbv		98
34) 2-Butanone	5.29	43	509599	3.213	ppbv		97
36) Benzene	6.96	78	1461373	5.697	ppbv		98
38) Trichloroethene	7.91	130	14978m	0.139	ppbv		
44) 2,2,4-Trimethylpentane	7.94	57	580048	1.362	ppbv	#	62
52) Tetrachloroethene	11.32	164	198358m	1.972	ppbv		
53) Toluene	9.90	91	19550277	73.041	ppbv		92
58) Ethyl Benzene	12.82	91	4829774	12.635	ppbv		99
59) m/p-Xylene	13.07	91	14619462	42.073	ppbv		96
60) o-Xylene	13.80	91	5820372	16.853	ppbv		99
61) Styrene	13.64	104	1041247	4.566	ppbv		100
62) Isopropylbenzene	14.78	105	1203140	2.600	ppbv		99
64) n-propylbenzene	15.68	120	593691	4.955	ppbv		97
70) n-Butylbenzene	18.67	91	602050	1.151	ppbv	#	47
72) 4-Ethyltoluene	15.95	105	3503079	8.970	ppbv		99
73) 1,3,5-Trimethylbenzene	16.11	105	2311624	5.816	ppbv		100
74) 1,2,4-Trimethylbenzene	16.88	105	9640535	22.080	ppbv	#	84
79) Naphthalene	22.34	128	520510m	1.368	ppbv		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data File : VL034060.D
Acq On : 30 Jul 2019 11:25
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Misc : 400ml/MSVOA_L
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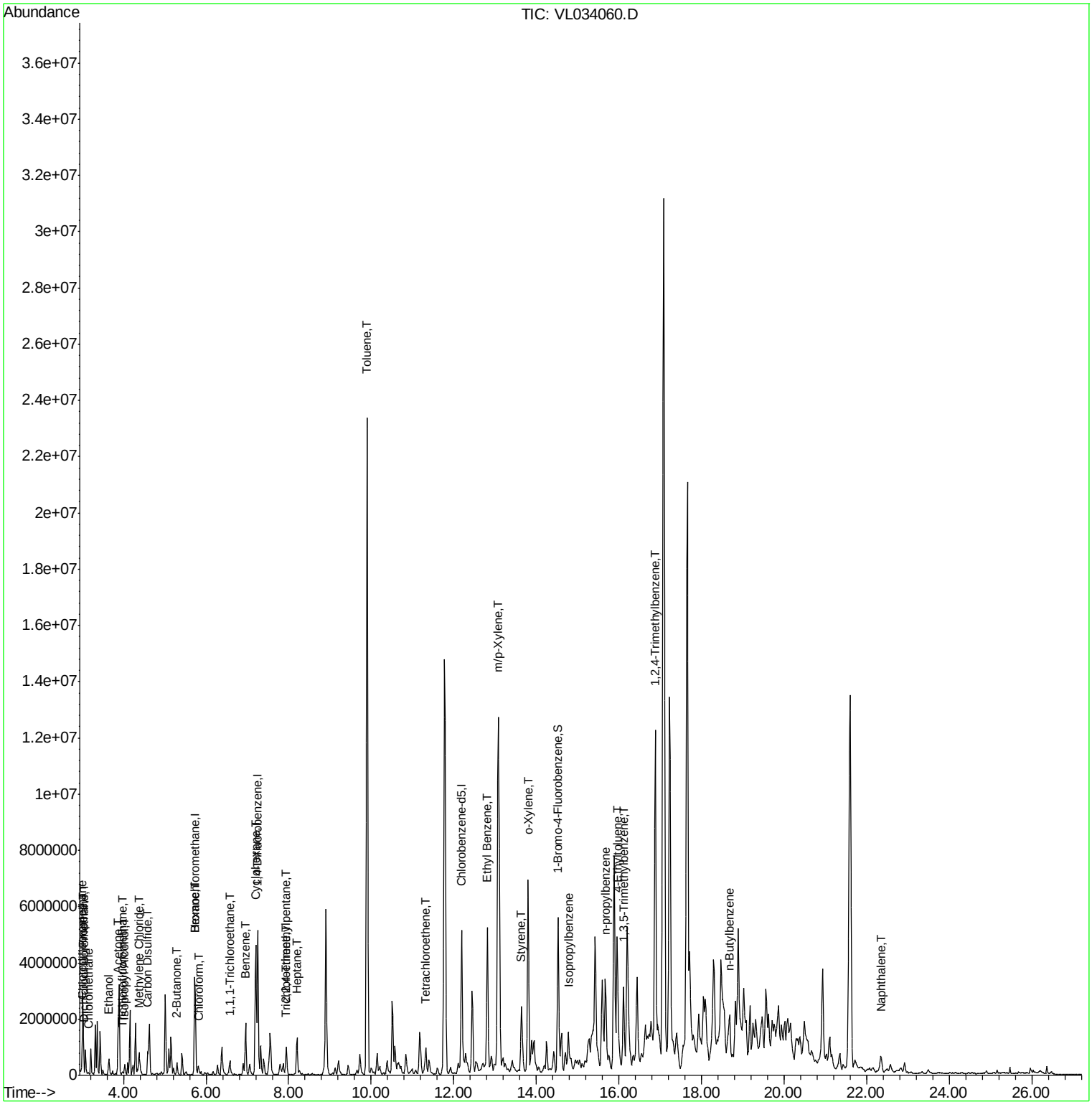
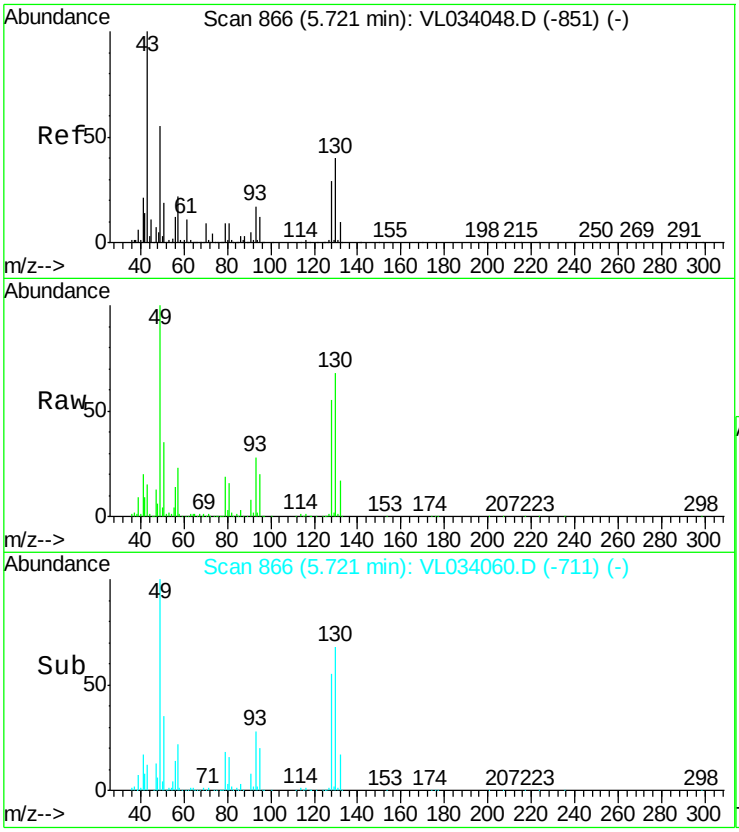
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul
QLast Update : Tue Jul 30 06:55:18 2019
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
JSG1

Manual Integrations APPROVED
MMdadoda
8/2/2019 9:37:43 AM

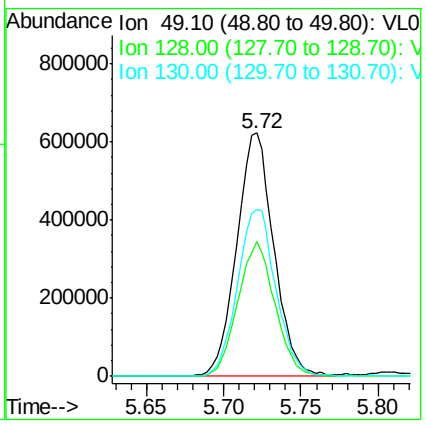




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.72 min Scan# 866
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

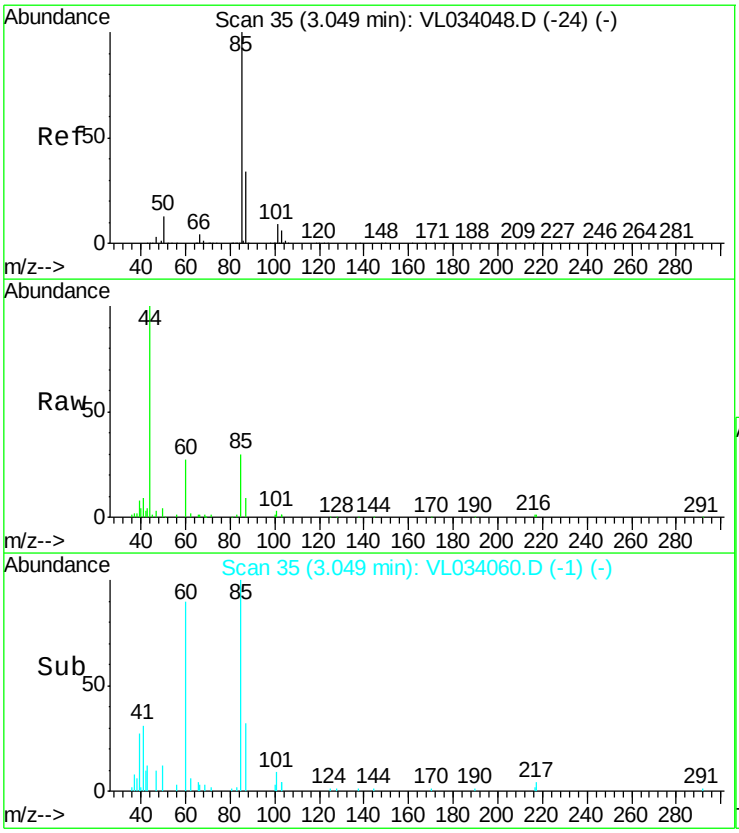
Tgt Ion: 49 Resp: 1038998

Ion	Ratio	Lower	Upper
49	100		
128	55.3	27.0	81.0
130	71.3	35.0	105.0



Instrument :
MSVOA_L
ClientSampleId :
JSG1

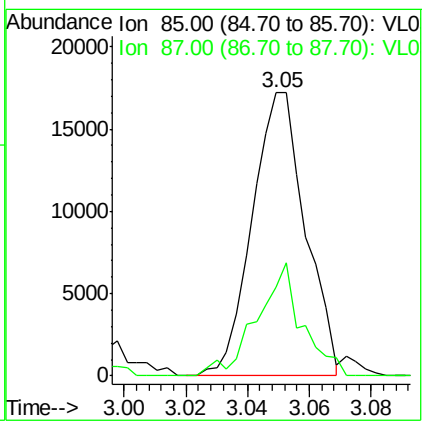
Manual Integrations APPROVED
MMdadoda
8/2/2019 9:37:43 AM

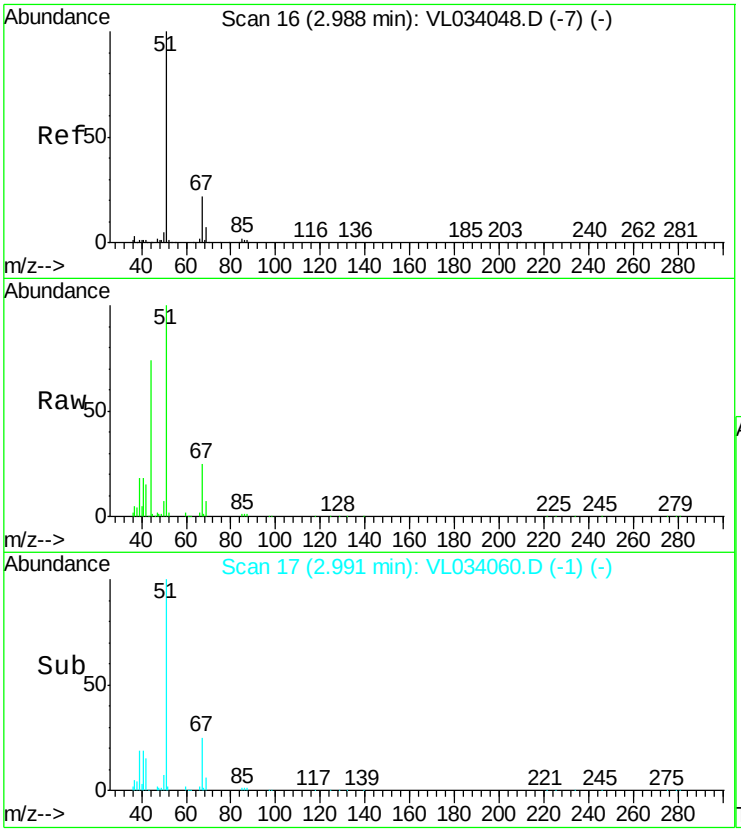


#2
Dichlorodifluoromethane
Concen: 0.103 ppbv
RT: 3.05 min Scan# 35
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 85 Resp: 20560

Ion	Ratio	Lower	Upper
85	100		
87	31.6	27.0	40.4

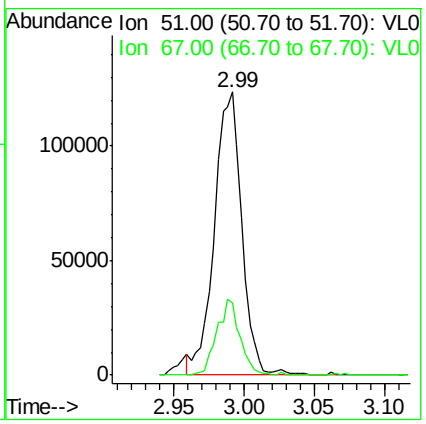




#3
Chlorodifluoromethane
Concen: 1.386 ppbv
RT: 2.99 min Scan# 17
Delta R.T. 0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 51 Resp: 166183

Ion	Ratio	Lower	Upper
51	100		
67	22.7	17.4	26.0



Instrument :
MSVOA_L
ClientSampleId :
JSG1

Manual Integrations APPROVED
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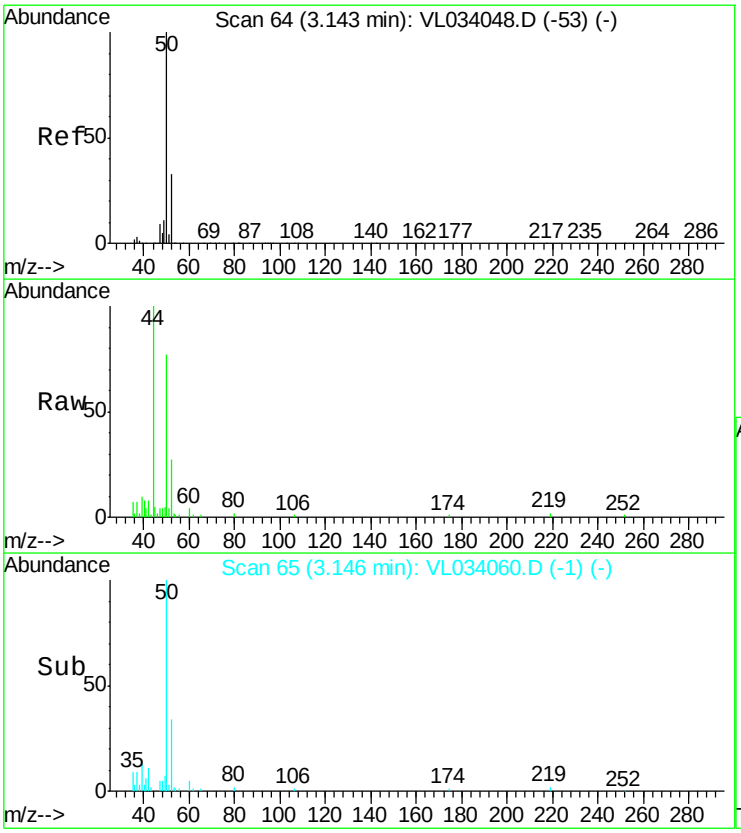
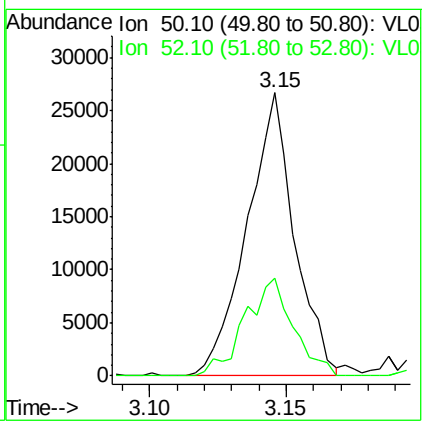
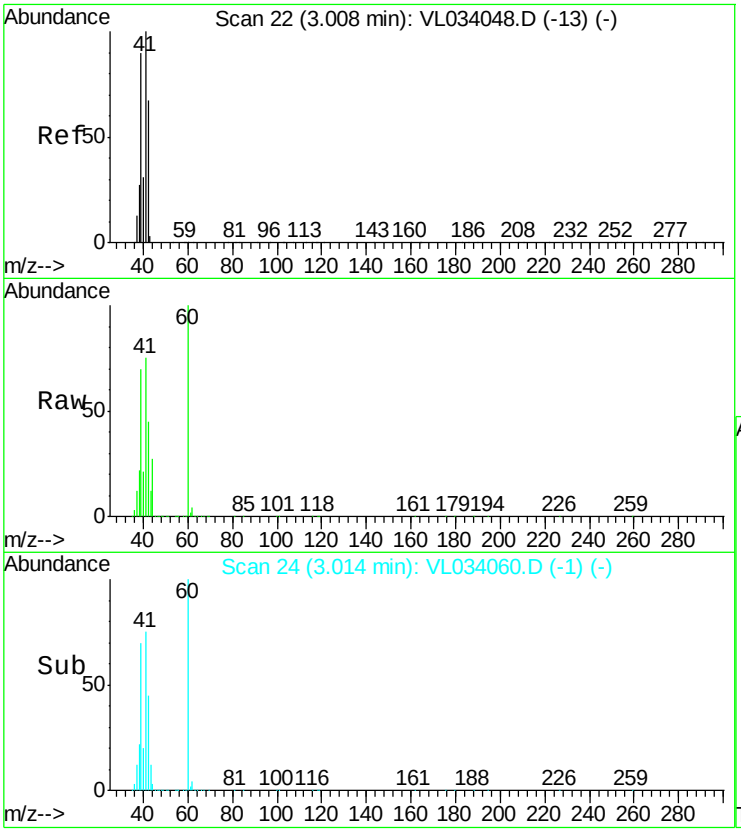


#4
Chloromethane
Concen: 0.457 ppbv
RT: 3.15 min Scan# 65
Delta R.T. 0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 50 Resp: 32126

Ion	Ratio	Lower	Upper
50	100		
52	34.4	26.7	40.1

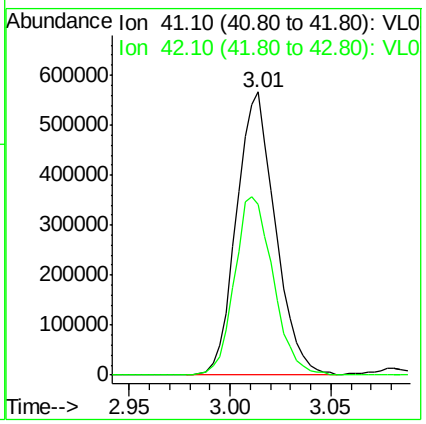




#9
Propene
Concen: 17.776 ppbv
RT: 3.01 min Scan# 24
Delta R.T. 0.01 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

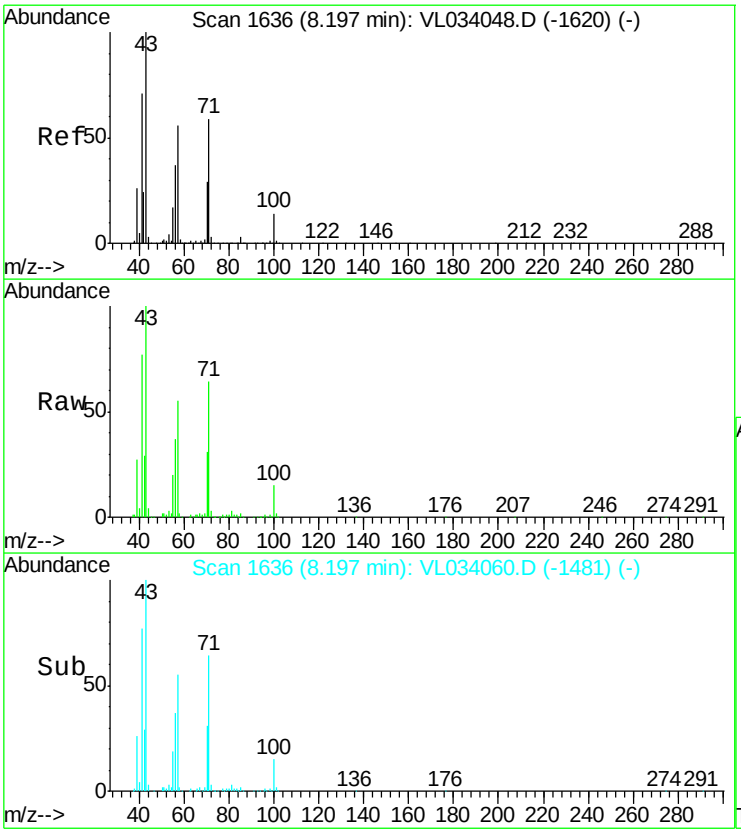
Tgt Ion: 41 Resp: 765376

Ion	Ratio	Lower	Upper
41	100		
42	63.0	55.4	83.2



Instrument :
MSVOA_L
ClientSampleId :
JSG1

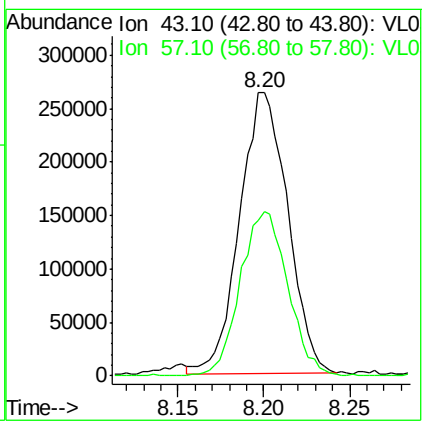
Manual Integrations APPROVED
MMdadoda
8/2/2019 9:37:43 AM

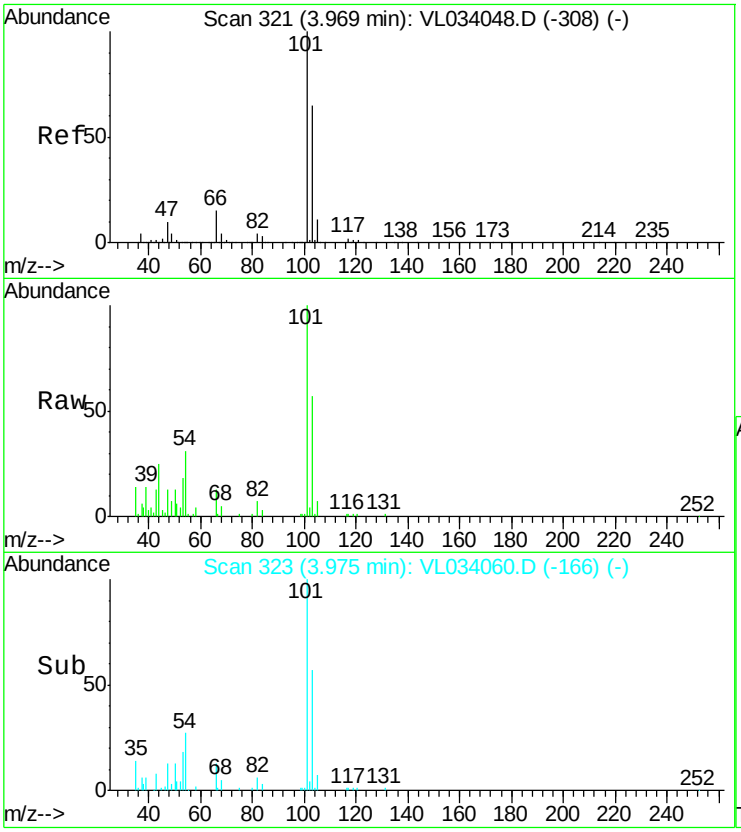


#10
Heptane
Concen: 4.349 ppbv
RT: 8.20 min Scan# 1636
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 43 Resp: 510672

Ion	Ratio	Lower	Upper
43	100		
57	58.2	44.8	67.2

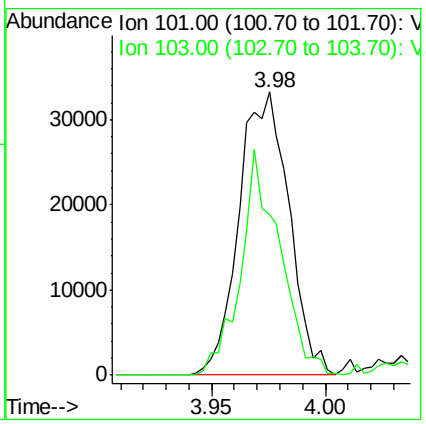




#11
Trichlorofluoromethane
Concen: 0.228 ppbv m
RT: 3.98 min Scan# 323
Delta R.T. 0.01 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:101 Resp: 50664

Ion	Ratio	Lower	Upper
101	100		
103	56.7	52.3	78.5



Instrument :
MSVOA_L
ClientSampleId :
JSG1

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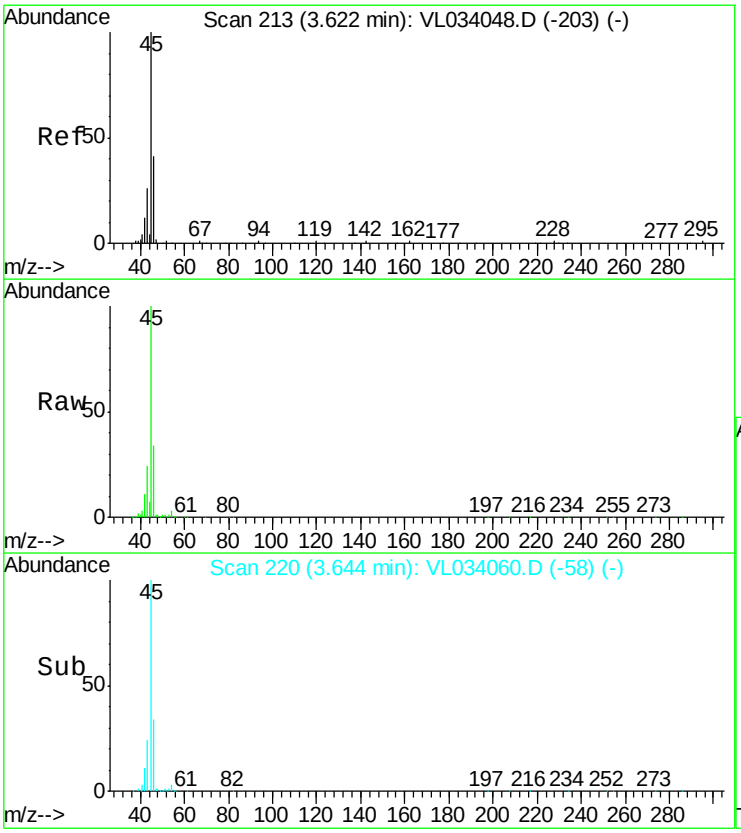
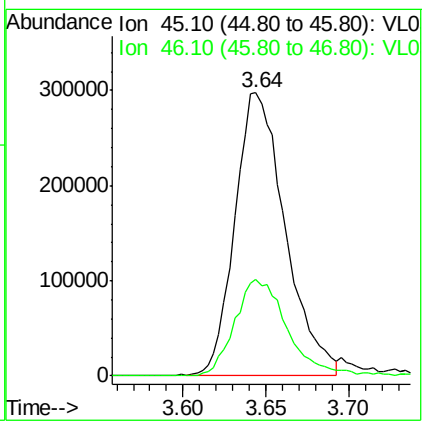
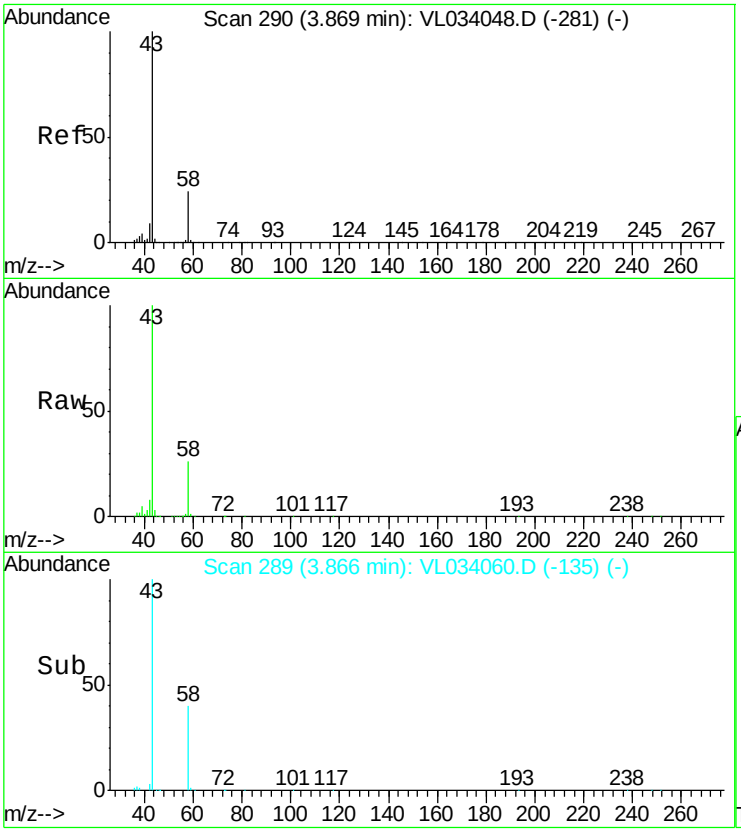


#13
Ethanol
Concen: 36.628 ppbv
RT: 3.64 min Scan# 220
Delta R.T. 0.02 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 45 Resp: 627703

Ion	Ratio	Lower	Upper
45	100		
46	36.0	15.6	62.2

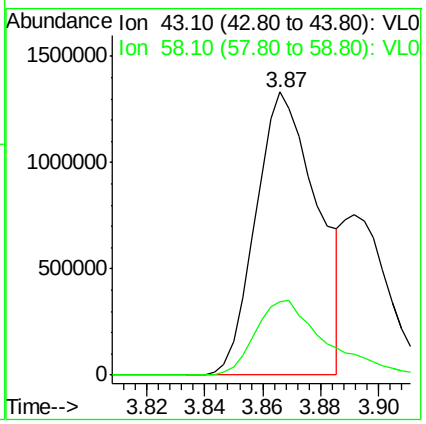




#15
Acetone
Concen: 12.459 ppbv
RT: 3.87 min Scan# 289
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 43 Resp: 1968080

Ion	Ratio	Lower	Upper
43	100		
58	30.3	21.6	32.4



Instrument :
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ClientSampleId :
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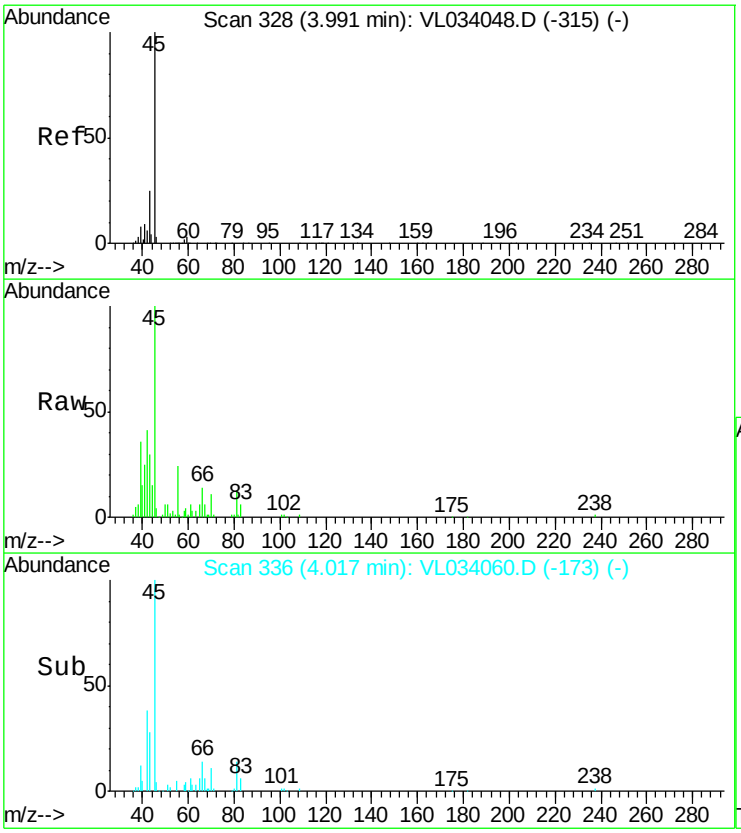
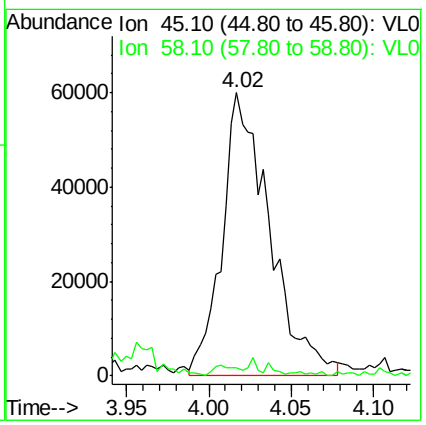
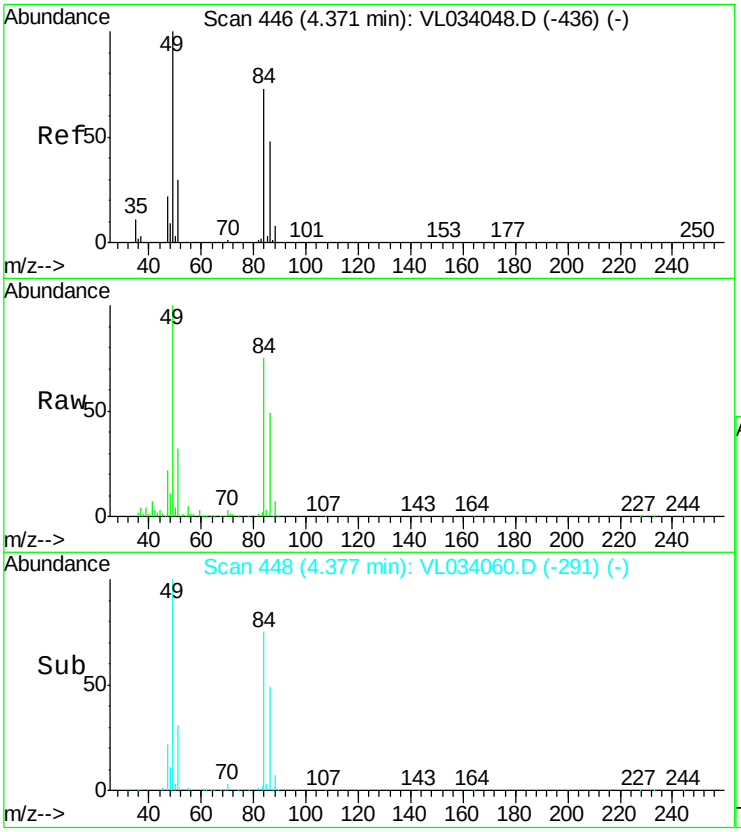


#19
Isopropyl Alcohol
Concen: 1.111 ppbv m
RT: 4.02 min Scan# 336
Delta R.T. 0.03 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 45 Resp: 119868

Ion	Ratio	Lower	Upper
45	100		
58	496.7	1.8	2.6#

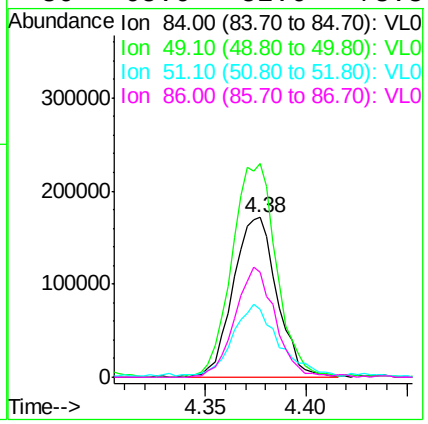




#20
Methylene Chloride
Concen: 4.315 ppbv
RT: 4.38 min Scan# 448
Delta R.T. 0.01 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 84 Resp: 260717

Ion	Ratio	Lower	Upper
84	100		
49	133.1	109.6	164.4
51	41.4	33.4	50.2
86	65.6	52.6	78.8



Instrument :
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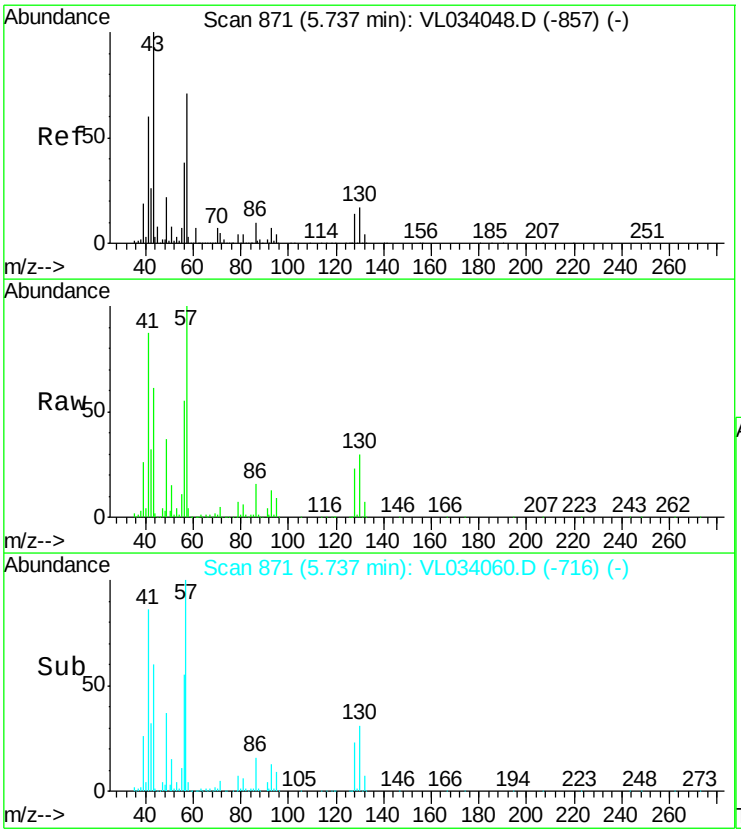
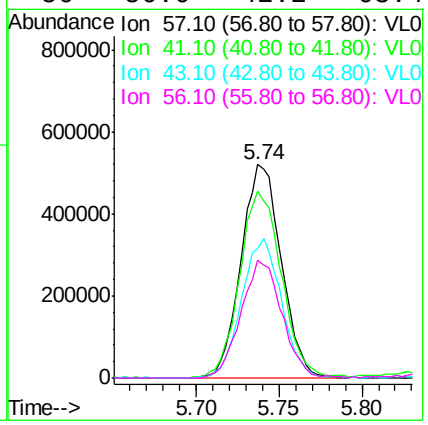
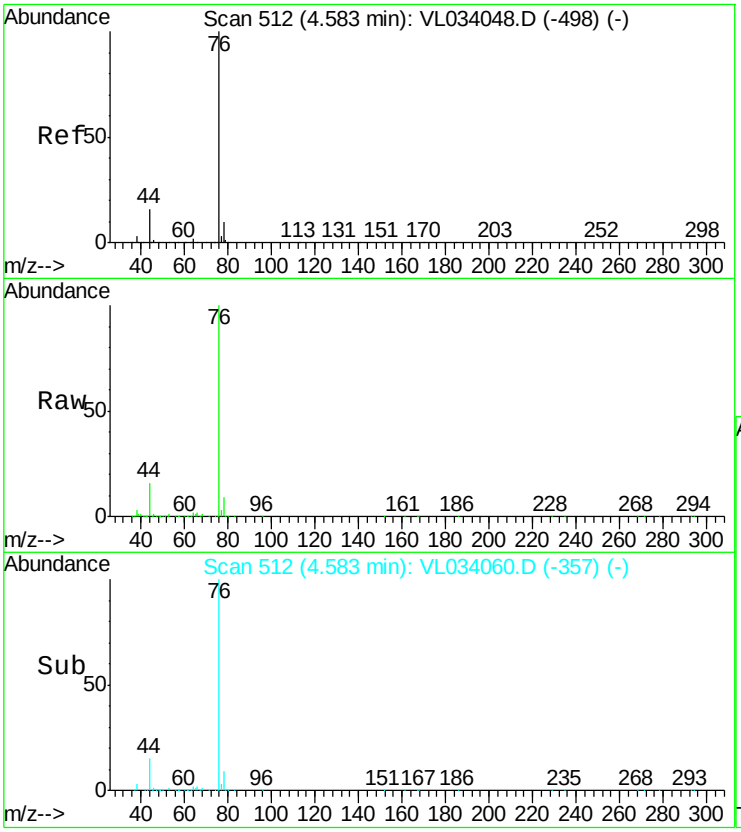


#26
Hexane
Concen: 8.270 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 57 Resp: 878400

Ion	Ratio	Lower	Upper
57	100		
41	90.7	69.0	103.6
43	64.9	176.6	264.8#
56	56.0	42.2	63.4

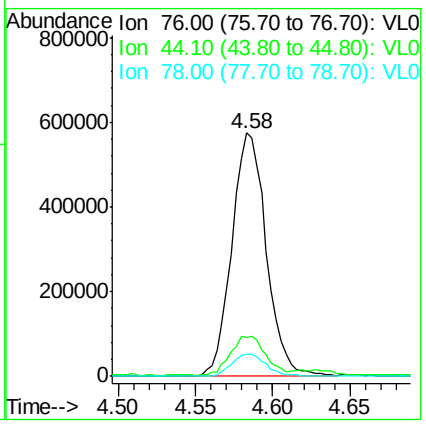




#27
Carbon Disulfide
Concen: 5.371 ppbv
RT: 4.58 min Scan# 512
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 76 Resp: 888433

Ion	Ratio	Lower	Upper
76	100		
44	19.1	13.0	19.4
78	9.3	7.7	11.5



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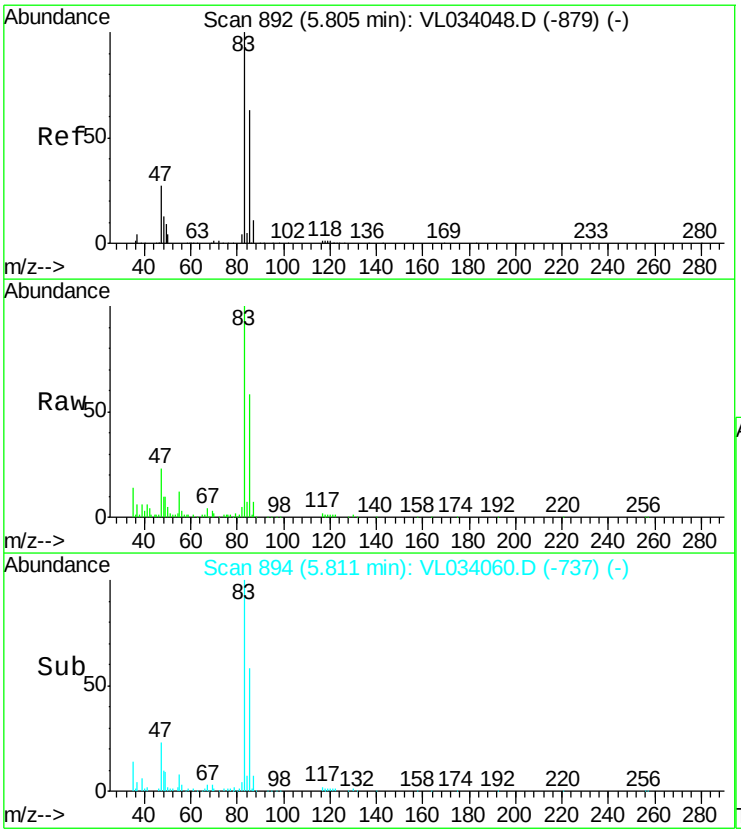
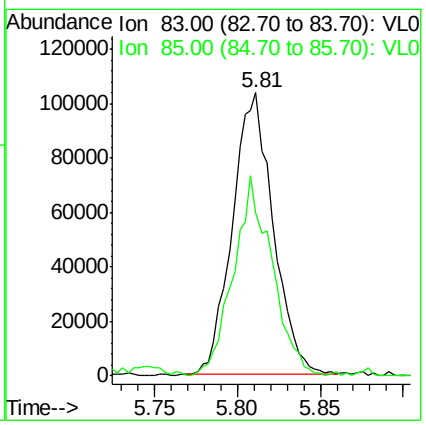
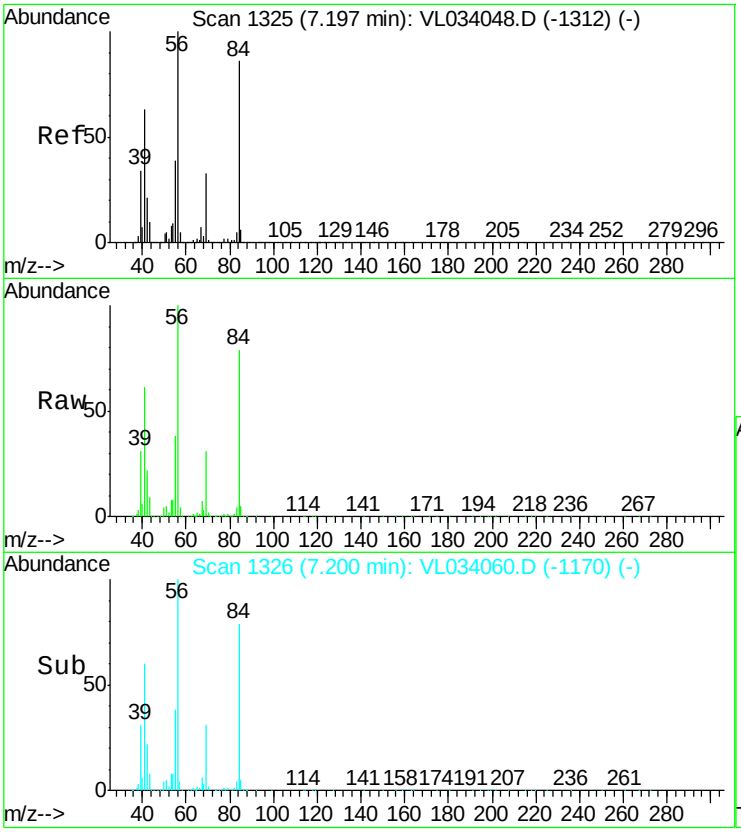


#29
Chloroform
Concen: 0.916 ppbv
RT: 5.81 min Scan# 894
Delta R.T. 0.01 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 83 Resp: 177670

Ion	Ratio	Lower	Upper
83	100		
85	57.6	50.2	75.4

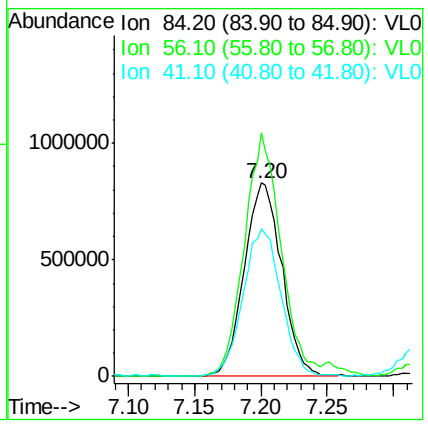




#30
Cyclohexane
Concen: 15.139 ppbv
RT: 7.20 min Scan# 1326
Delta R.T. 0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 84 Resp: 1633851

Ion	Ratio	Lower	Upper
84	100		
56	126.6	101.7	152.5
41	77.4	59.4	89.0



Instrument :
MSVOA_L
ClientSampleId :
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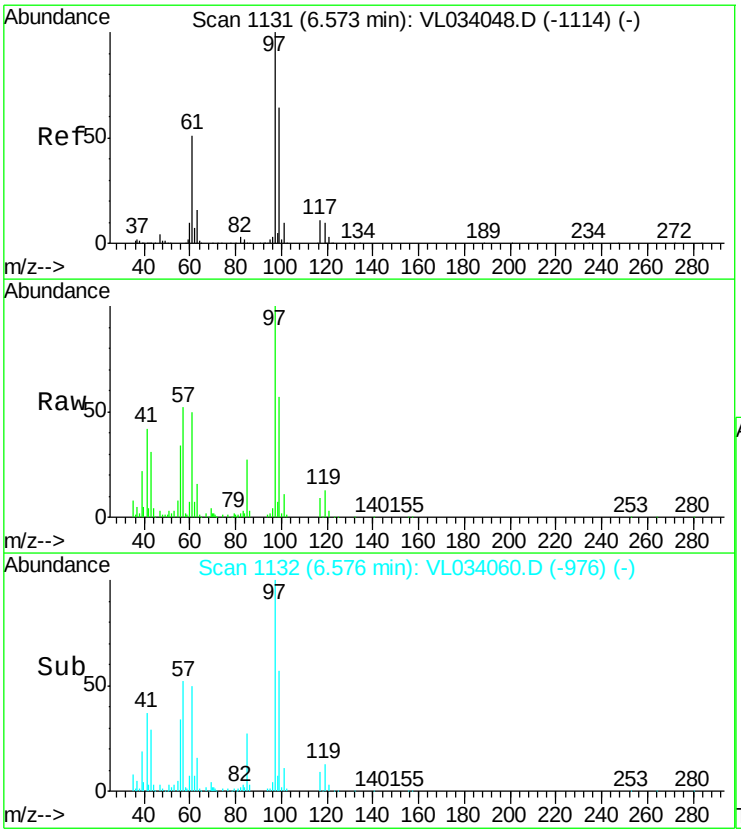
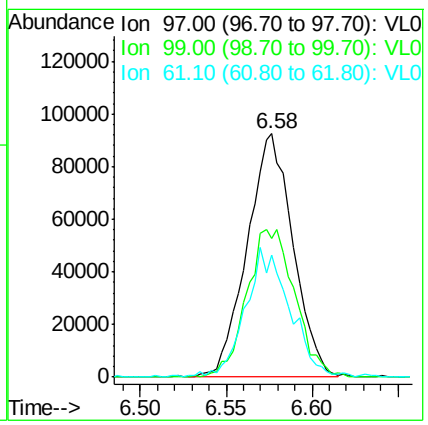
MMdadoda
8/2/2019 9:37:43 AM

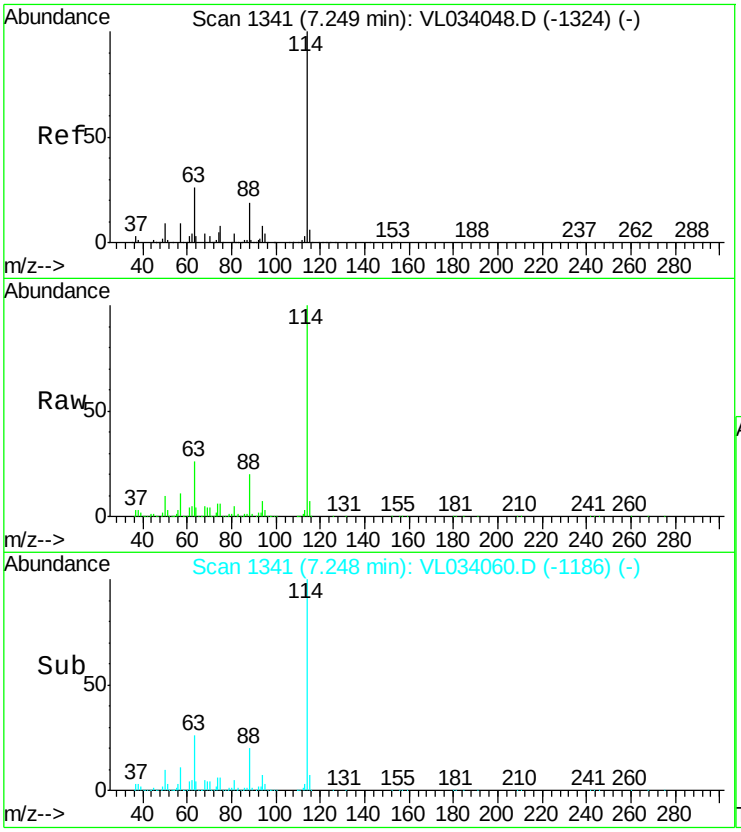


#32
1,1,1-Trichloroethane
Concen: 0.839 ppbv
RT: 6.58 min Scan# 1132
Delta R.T. 0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 97 Resp: 170785

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.0	76.6
61	51.8	39.5	59.3

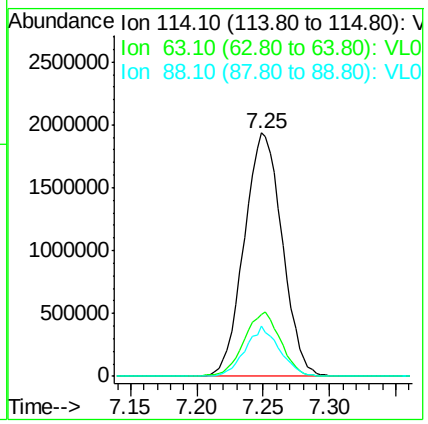




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:114 Resp: 3853614

Ion	Ratio	Lower	Upper
114	100		
63	25.8	21.0	31.6
88	18.5	14.7	22.1



Instrument :
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ClientSampleId :
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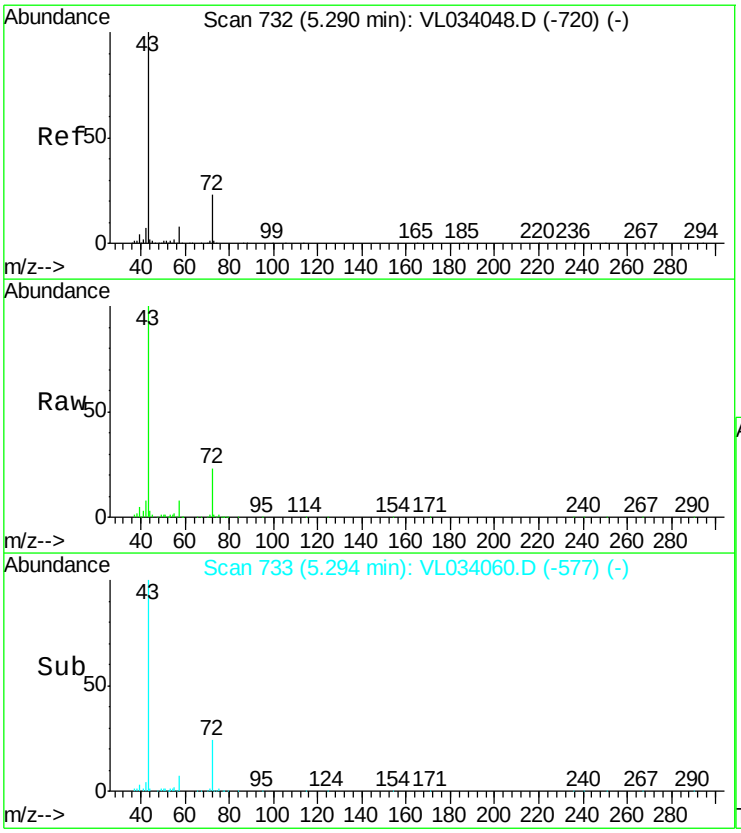
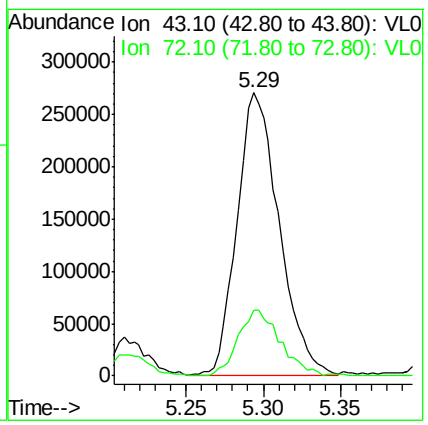
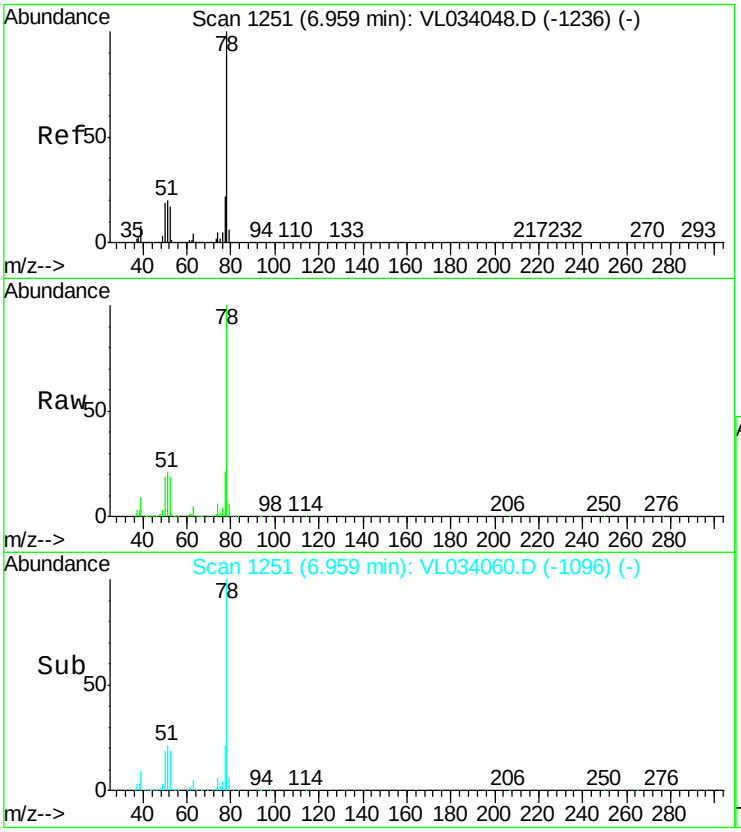


#34
2-Butanone
Concen: 3.213 ppbv
RT: 5.29 min Scan# 733
Delta R.T. 0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 43 Resp: 509599

Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.2	30.4

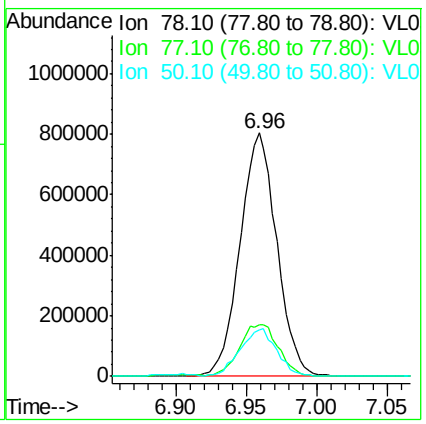




#36
Benzene
Concen: 5.697 ppbv
RT: 6.96 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 78 Resp: 1461373

Ion	Ratio	Lower	Upper
78	100		
77	21.2	17.9	26.9
50	19.0	14.9	22.3



Instrument :
MSVOA_L
ClientSampleId :
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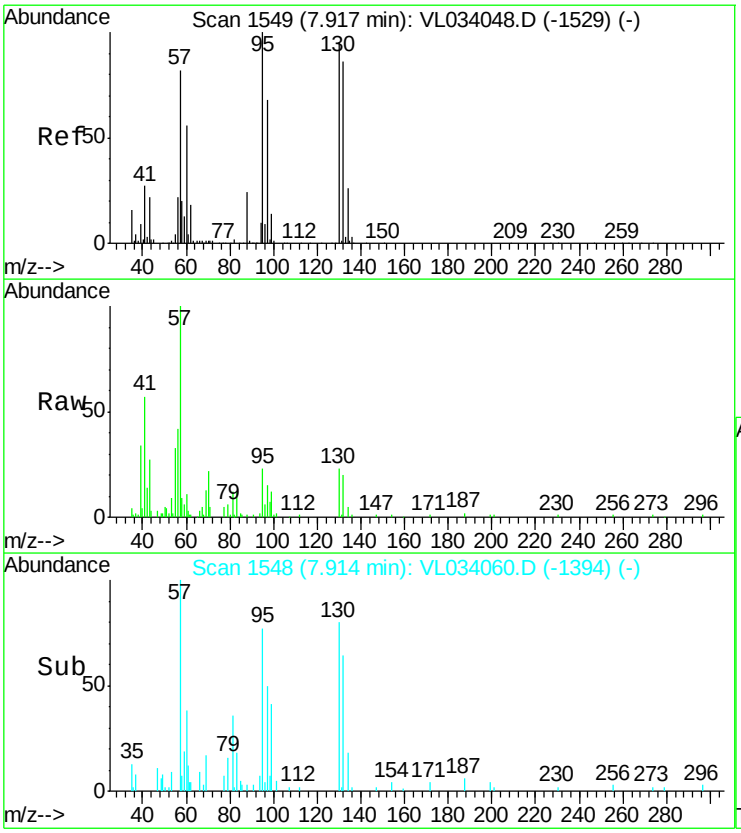
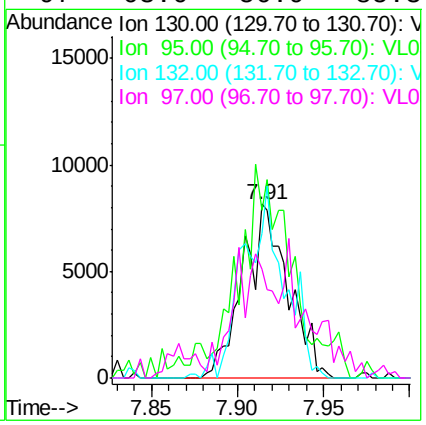
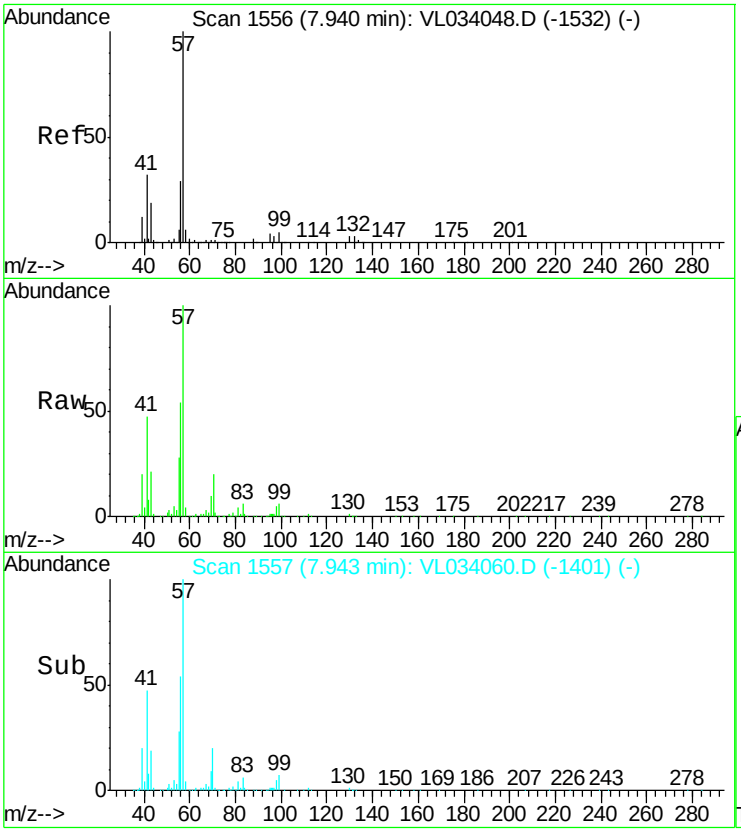


#38
Trichloroethene
Concen: 0.139 ppbv m
RT: 7.91 min Scan# 1548
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:130 Resp: 14978

Ion	Ratio	Lower	Upper
130	100		
95	96.2	84.1	126.1
132	83.4	72.7	109.1
97	63.0	56.9	85.3

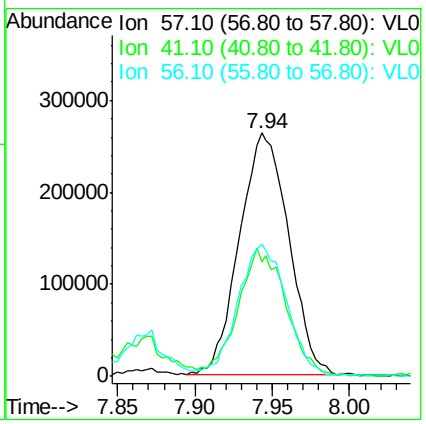




#44
2,2,4-Trimethylpentane
Concen: 1.362 ppbv
RT: 7.94 min Scan# 1557
Delta R.T. 0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 57 Resp: 580048

Ion	Ratio	Lower	Upper
57	100		
41	51.2	26.2	39.2#
56	54.3	24.2	36.2#



Instrument :
MSVOA_L
ClientSampleId :
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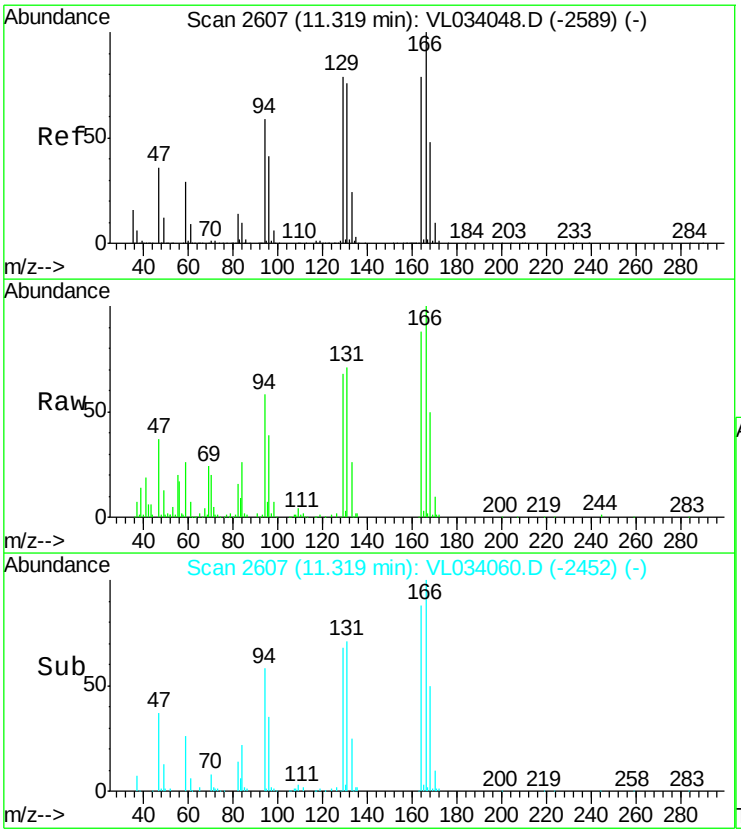
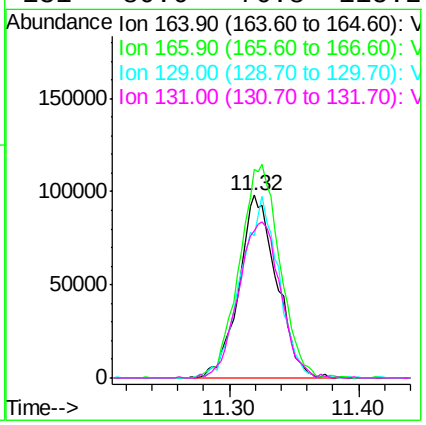
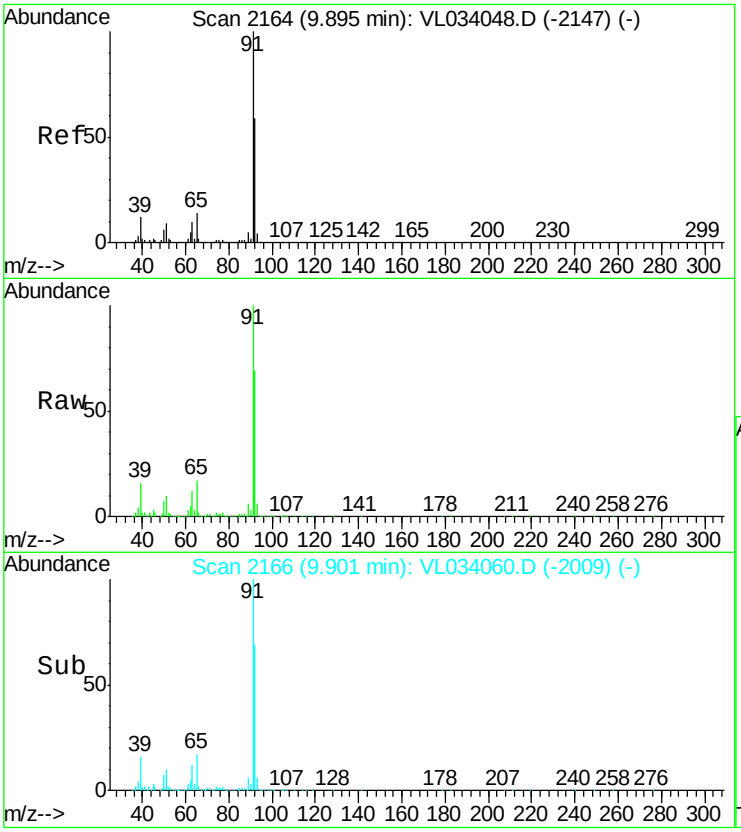


#52
Tetrachloroethene
Concen: 1.972 ppbv m
RT: 11.32 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:164 Resp: 198358

Ion	Ratio	Lower	Upper
164	100		
166	114.0	101.6	152.4
129	78.0	80.7	121.1#
131	80.6	76.8	115.2





#53
Toluene
Concen: 73.041 ppbv
RT: 9.90 min Scan# 2166
Delta R.T. 0.01 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 91 Resp:19550277

Ion	Ratio	Lower	Upper
91	100		
92	65.4	47.4	71.2

Instrument :
MSVOA_L
ClientSampleId :
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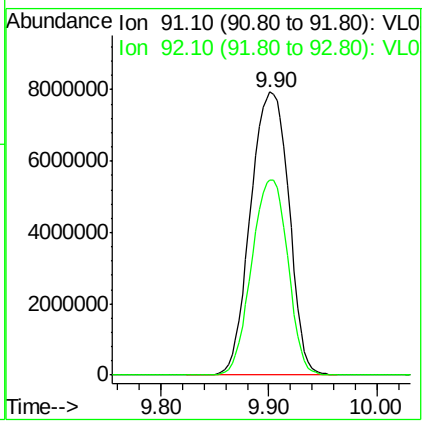
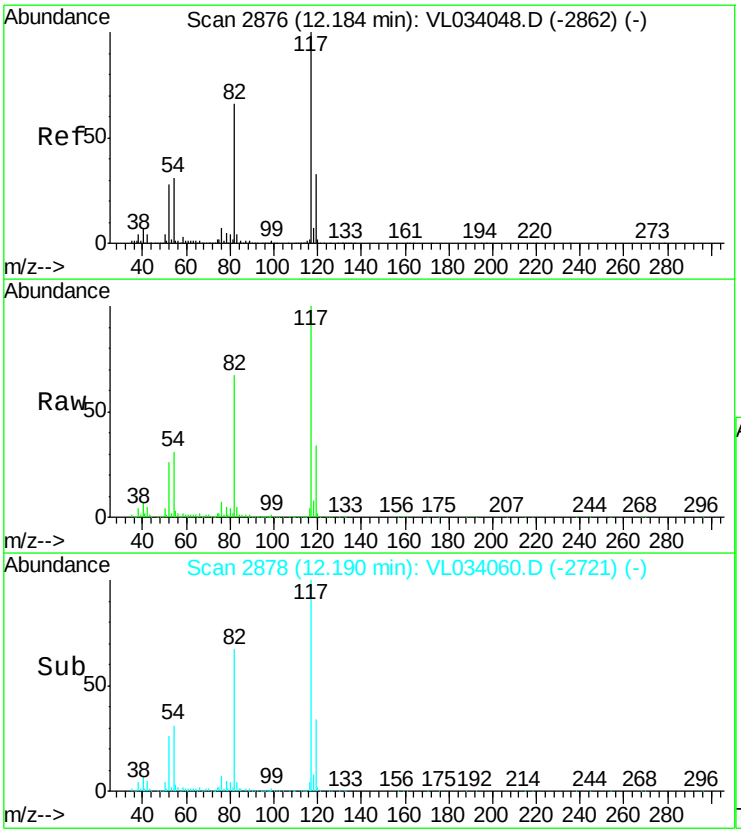
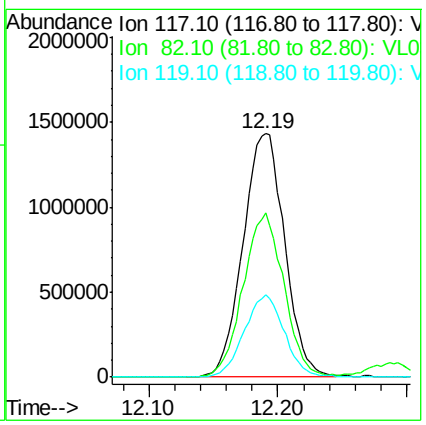


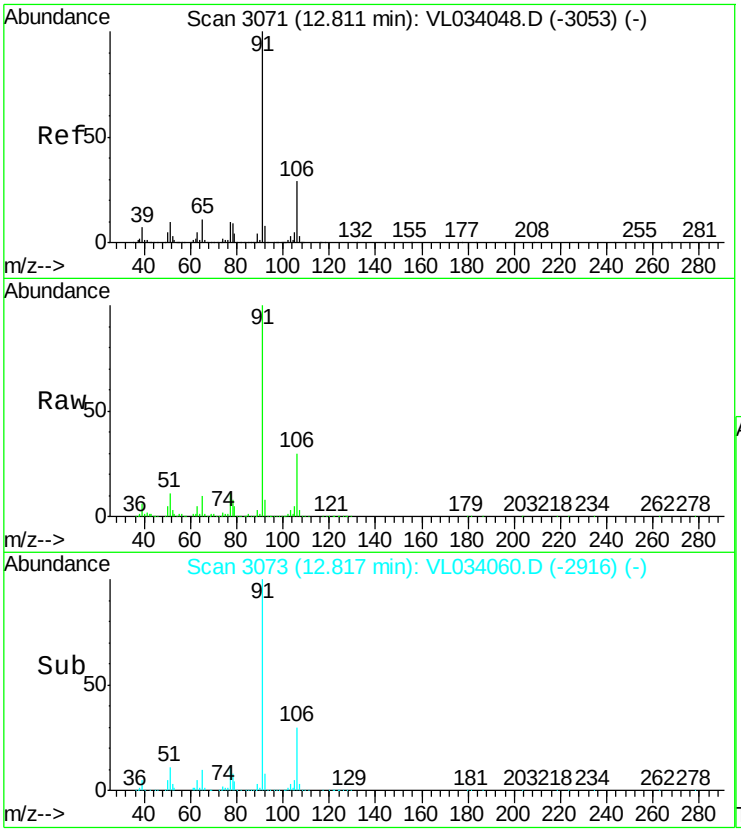


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.19 min Scan# 2878
Delta R.T. 0.01 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:117 Resp: 3229920

Ion	Ratio	Lower	Upper
117	100		
82	65.9	49.8	74.8
119	32.7	43.0	64.6#





#58
Ethyl Benzene
Concen: 12.635 ppbv
RT: 12.82 min Scan# 3073
Delta R.T. 0.01 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 91 Resp: 4829774

Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.5	35.3

Instrument :
MSVOA_L
ClientSampleId :
JSG1

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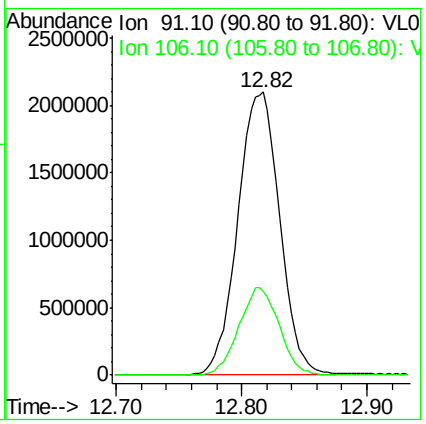
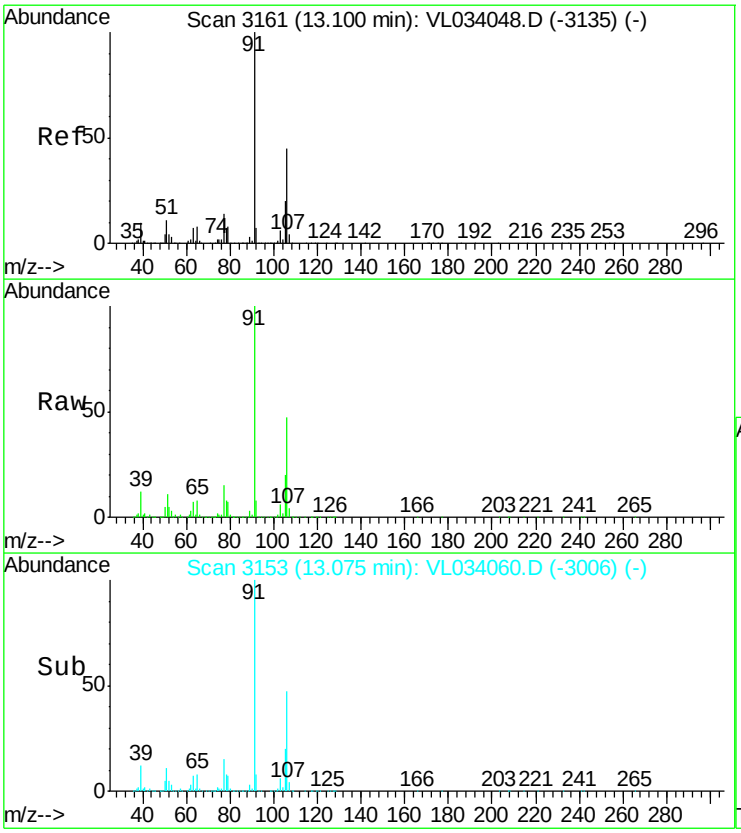
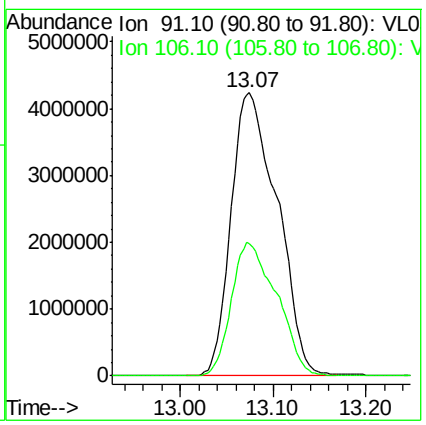


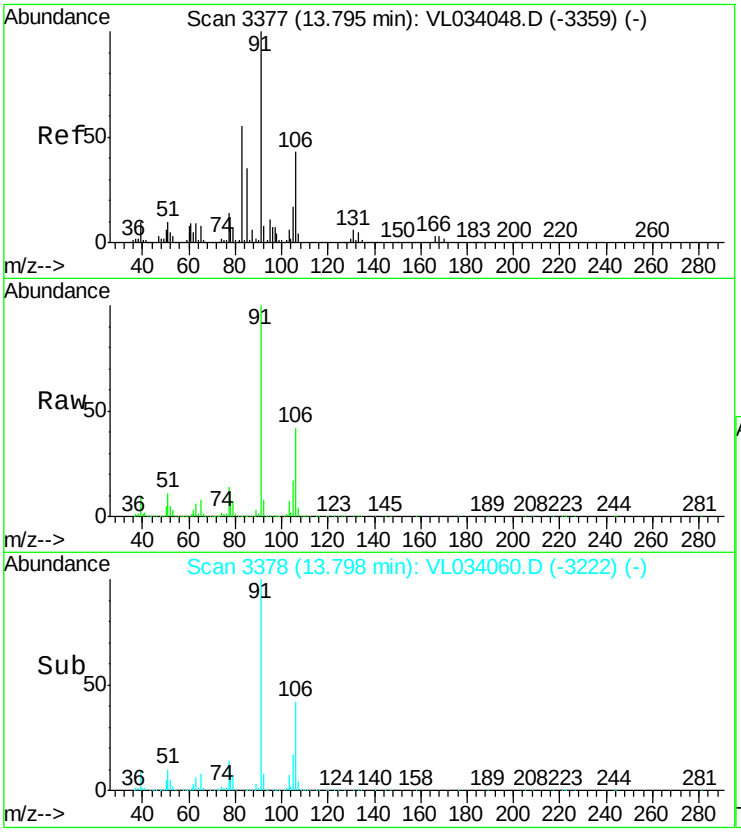


#59
m/p-Xylene
Concen: 42.073 ppbv
RT: 13.07 min Scan# 3153
Delta R.T. -0.03 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 91 Resp:14619462

Ion	Ratio	Lower	Upper
91	100		
106	46.5	35.1	52.7

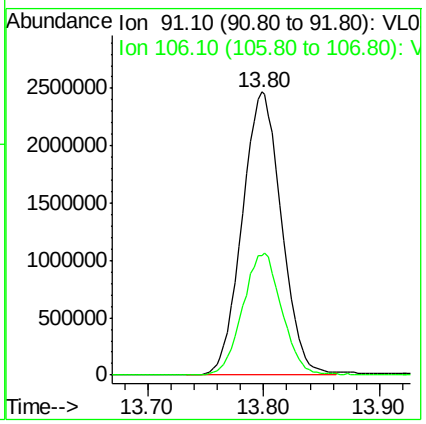




#60
o-Xylene
Concen: 16.853 ppbv
RT: 13.80 min Scan# 3378
Delta R.T. 0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 91 Resp: 5820372

Ion	Ratio	Lower	Upper
91	100		
106	43.3	21.2	63.6



Instrument :
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ClientSampleId :
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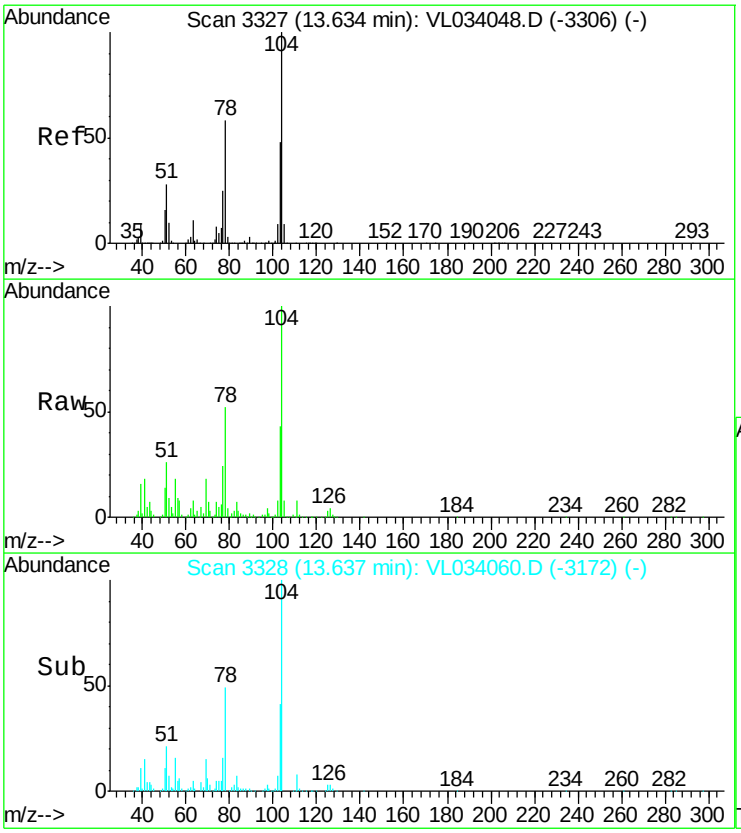
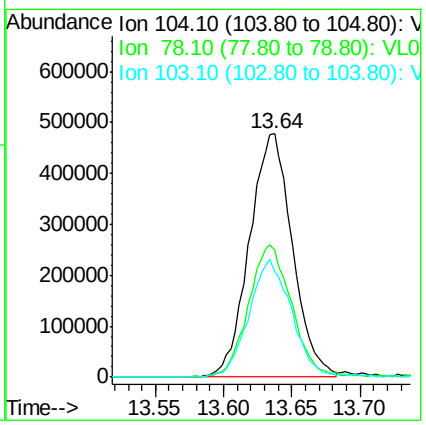
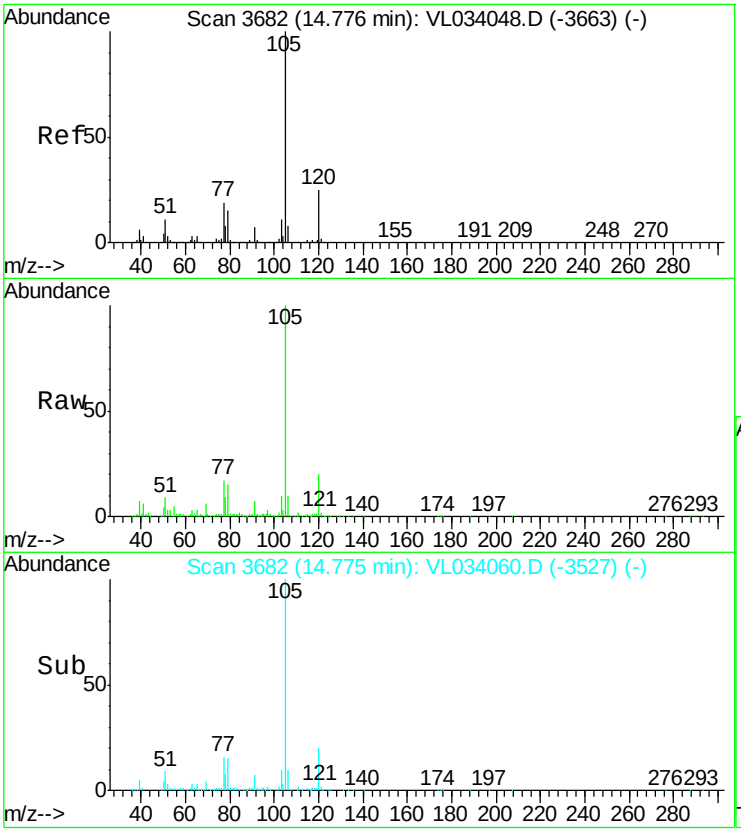


#61
Styrene
Concen: 4.566 ppbv
RT: 13.64 min Scan# 3328
Delta R.T. 0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:104 Resp: 1041247

Ion	Ratio	Lower	Upper
104	100		
78	55.0	44.3	66.5
103	48.3	38.8	58.2





#62
Isopropylbenzene
Concen: 2.600 ppbv
RT: 14.78 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:105 Resp: 1203140

Ion	Ratio	Lower	Upper
105	100		
120	24.9	20.2	30.2

Instrument :
MSVOA_L
ClientSampleId :
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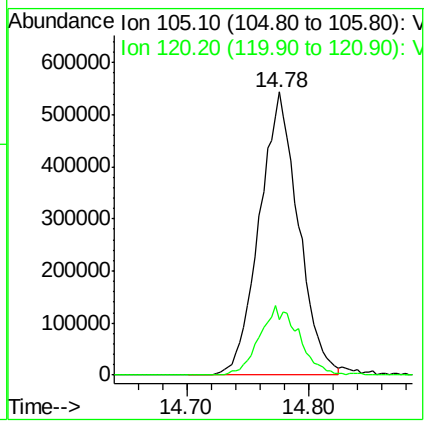
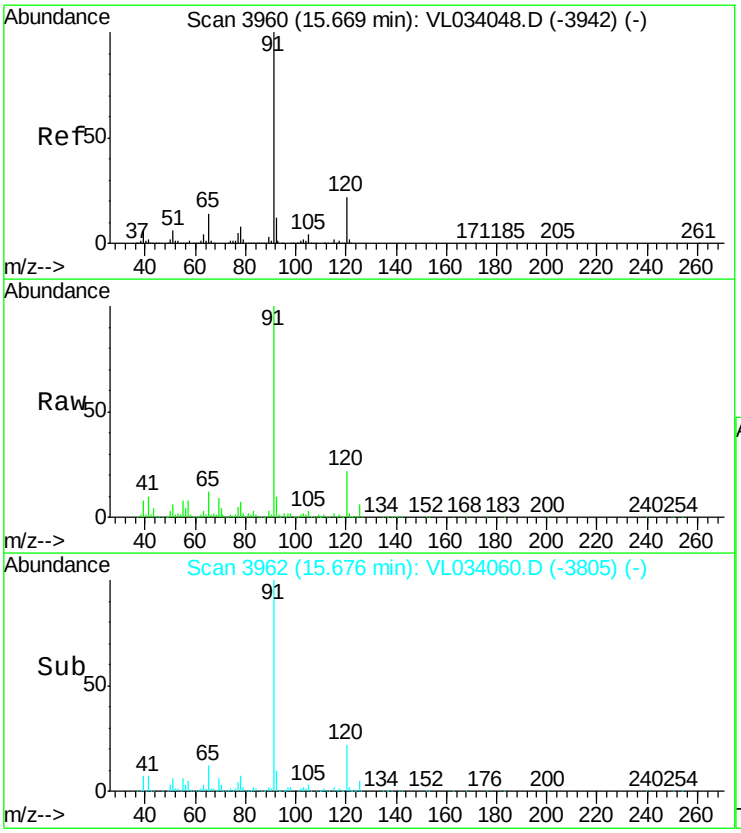
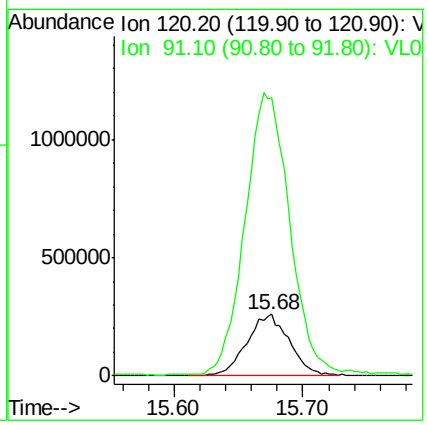


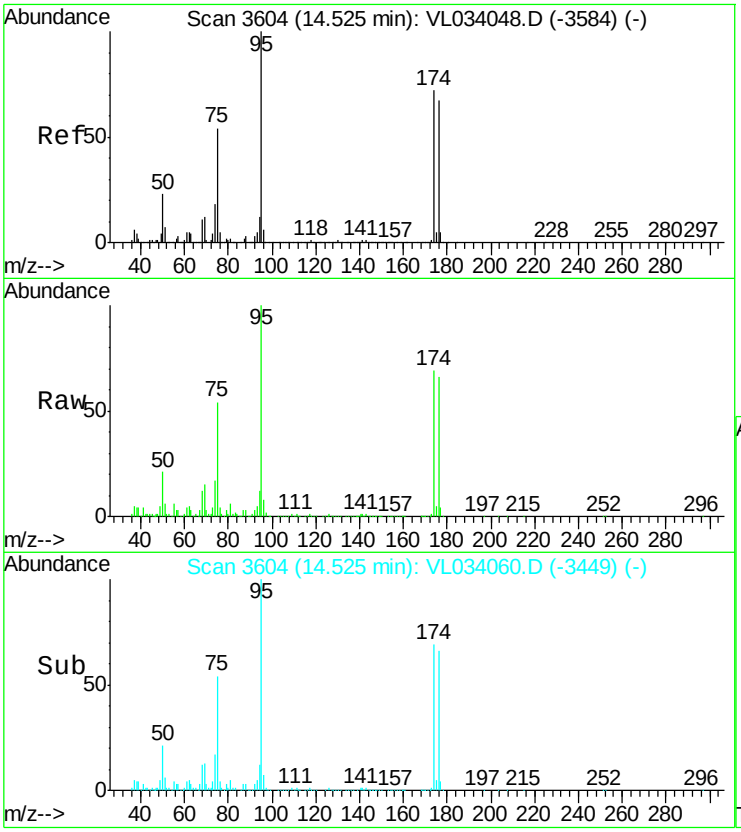


#64
n-propylbenzene
Concen: 4.955 ppbv
RT: 15.68 min Scan# 3962
Delta R.T. 0.01 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:120 Resp: 593691

Ion	Ratio	Lower	Upper
120	100		
91	491.9	386.2	579.2

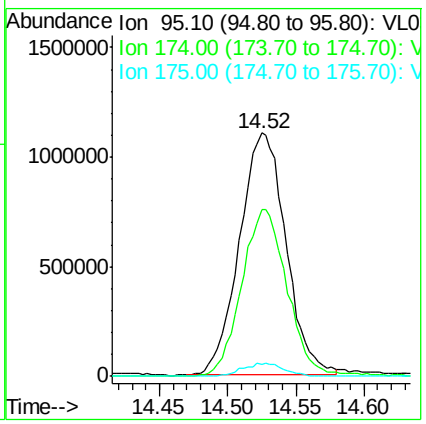




#68
1-Bromo-4-Fluorobenzene
Concen: 10.259 ppbv
RT: 14.52 min Scan# 3604
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 95 Resp: 2619240

Ion	Ratio	Lower	Upper
95	100		
174	68.2	57.6	86.4
175	4.8	4.1	6.1



Instrument :
MSVOA_L
ClientSampleId :
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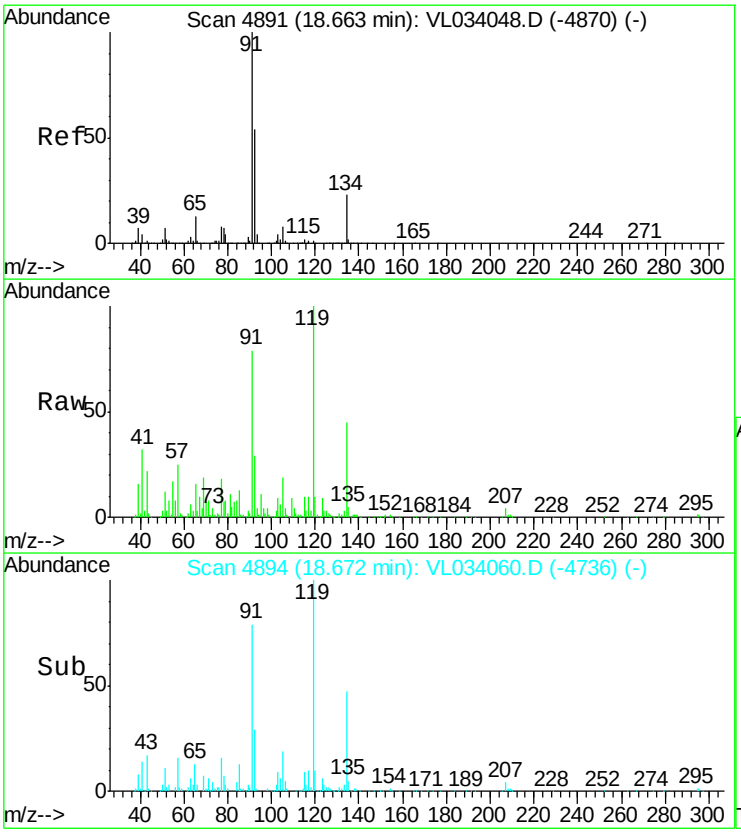
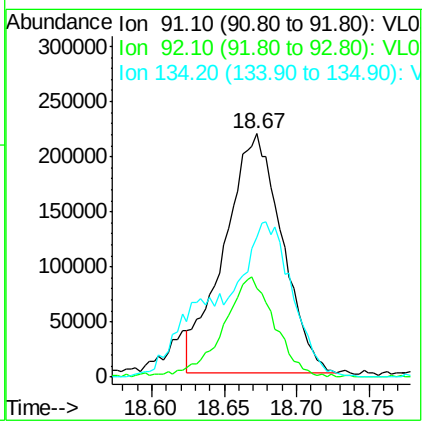
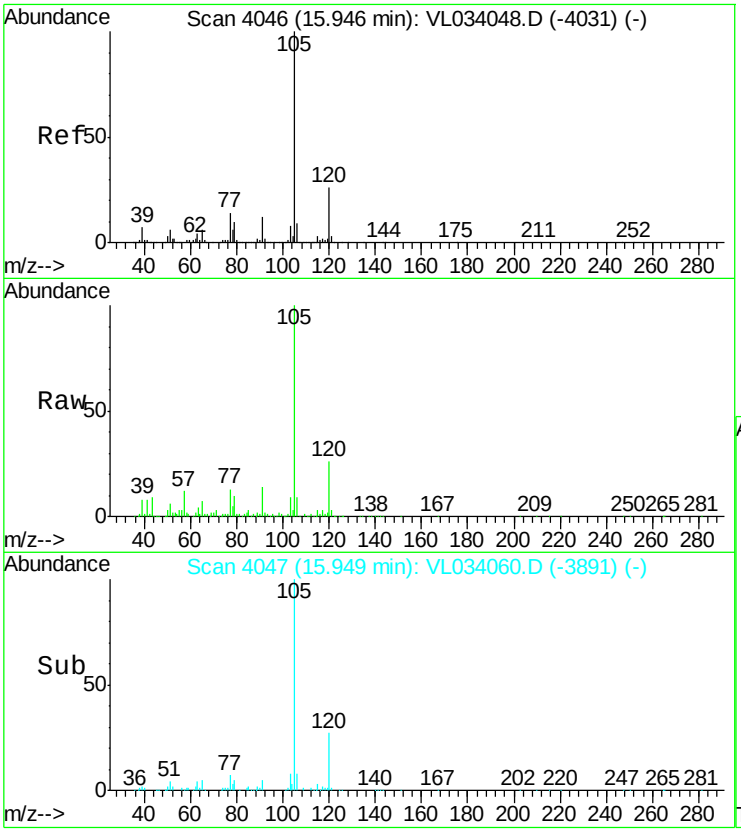


#70
n-Butylbenzene
Concen: 1.151 ppbv
RT: 18.67 min Scan# 4894
Delta R.T. 0.01 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion: 91 Resp: 602050

Ion	Ratio	Lower	Upper
91	100		
92	38.2	42.6	64.0#
134	84.5	17.7	26.5#

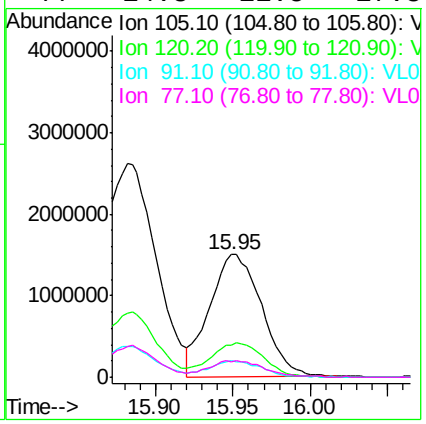




#72
4-Ethyltoluene
Concen: 8.970 ppbv
RT: 15.95 min Scan# 4047
Delta R.T. 0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:105 Resp: 3503079

Ion	Ratio	Lower	Upper
105	100		
120	29.6	23.0	34.4
91	13.6	10.6	16.0
77	14.8	11.5	17.3



Instrument :
MSVOA_L
ClientSampleId :
JSG1

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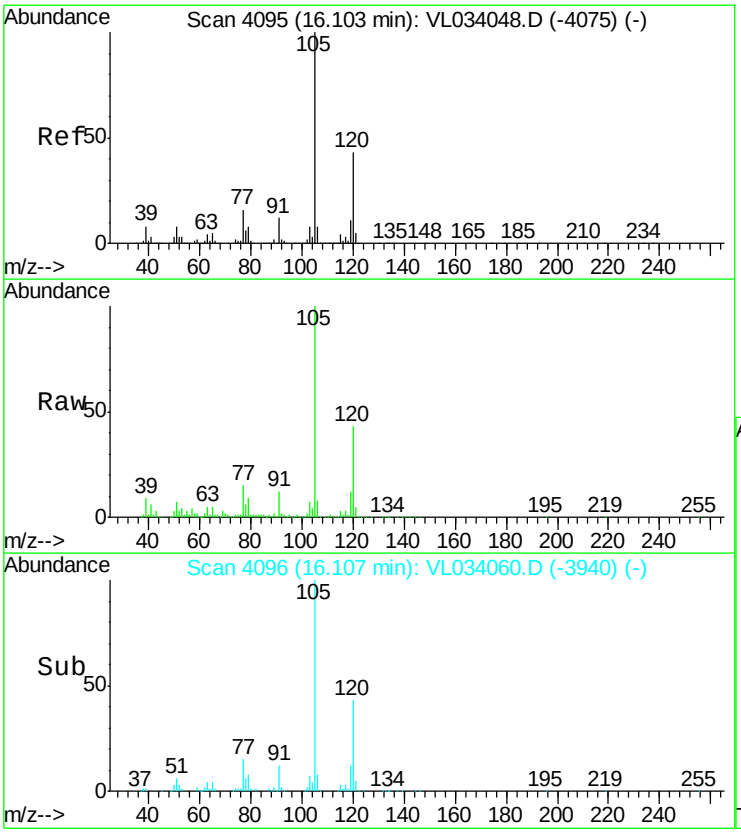
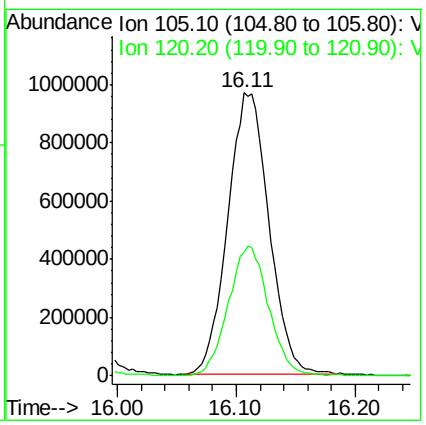
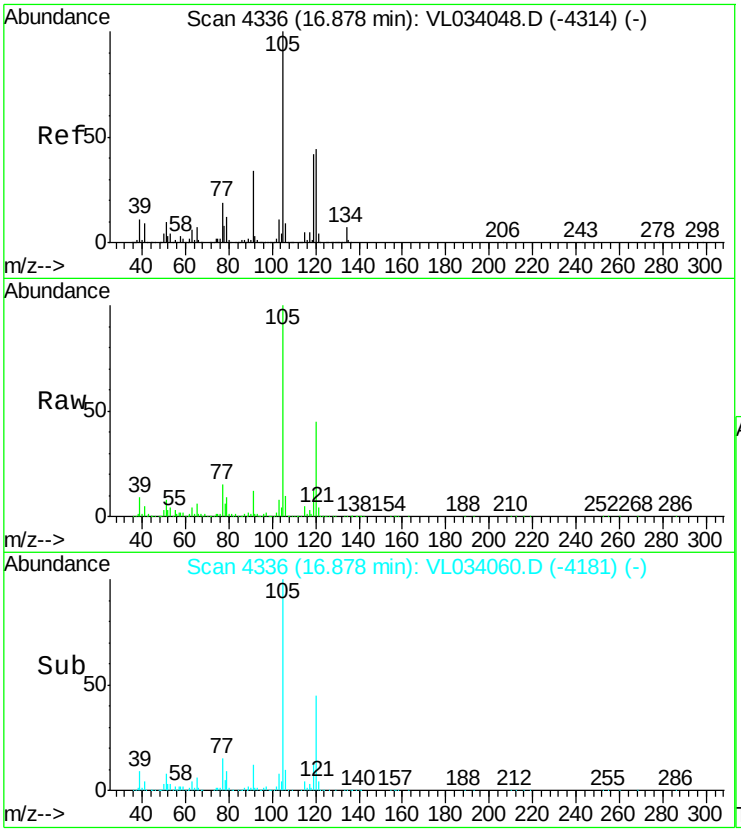


#73
1,3,5-Trimethylbenzene
Concen: 5.816 ppbv
RT: 16.11 min Scan# 4096
Delta R.T. 0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:105 Resp: 2311624

Ion	Ratio	Lower	Upper
105	100		
120	43.5	34.7	52.1

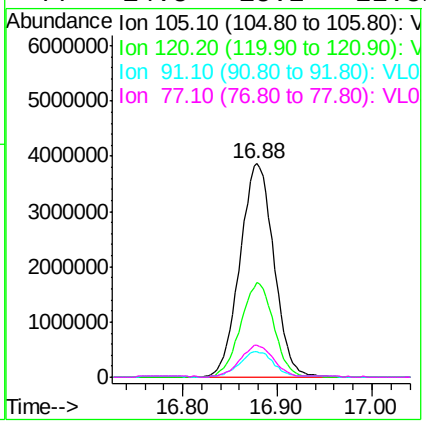




#74
1,2,4-Trimethylbenzene
Concen: 22.080 ppbv
RT: 16.88 min Scan# 4336
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:105 Resp: 9640535

Ion	Ratio	Lower	Upper
105	100		
120	44.6	35.6	53.4
91	11.9	28.0	42.0#
77	14.5	15.2	22.8#



Instrument :
MSVOA_L
ClientSampleId :
JSG1

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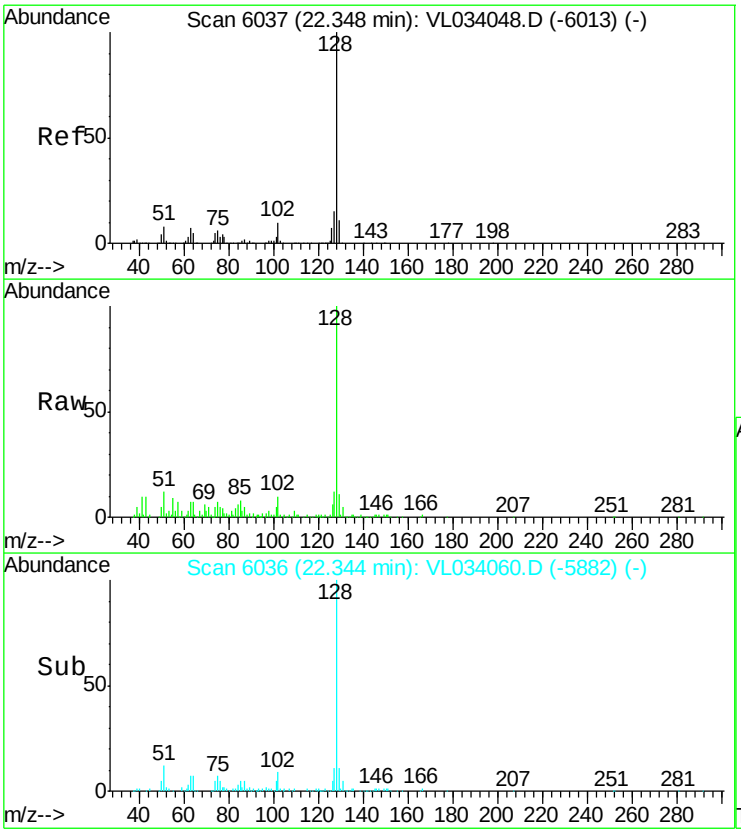

#79
Naphthalene
Concen: 1.368 ppbv m
RT: 22.34 min Scan# 6036
Delta R.T. -0.00 min
Lab File: VL034060.D
Acq: 30 Jul 2019 11:25

Tgt Ion:128 Resp: 520510

Ion	Ratio	Lower	Upper
128	100		
127	11.8	11.8	17.6#
129	11.4	9.1	13.7