Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091621\
Data File : VL037629.D
Acq On : 17 Sep 2021 00:04
Operator : SY/AP
Sample : M3780-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations APPROVED
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9/20/2021 5:27:32 PM

Quant Time: Sep 17 10:14:47 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Sep 1
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.65	49	1594067	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.16	114	4539951	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.07	117	3854501	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.40	95	2722230m	9.77	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.04	85	45810m	0.159	ppbv		
4) Chloromethane	3.13	50	96836	0.872	ppbv	#	84
9) Propene	3.01	41	800940	7.552	ppbv	#	62
10) Heptane	8.10	43	137229m	0.554	ppbv		
11) Trichlorofluoromethane	3.94	101	44913	0.194	ppbv		92
13) Ethanol	3.65	45	56662309	5461.796	ppbv		83
15) Acetone	3.83	43	8160671	49.273	ppbv		97
19) Isopropyl Alcohol	4.01	45	16859176	187.085	ppbv	#	93
20) Methylene Chloride	4.33	84	582810	7.371	ppbv		98
25) Ethyl Acetate	5.66	43	1752422	4.369	ppbv	#	95
26) Hexane	5.67	57	559353	2.935	ppbv	#	59
29) Chloroform	5.74	83	1256414	4.516	ppbv		99
30) Cyclohexane	7.11	84	47656m	0.292	ppbv		
34) 2-Butanone	5.23	43	576563m	3.125	ppbv		
35) Carbon Tetrachloride	7.00	117	16689m	0.065	ppbv		
36) Benzene	6.87	78	290078	0.766	ppbv	#	94
41) Tetrahydrofuran	6.03	42	156235	1.801	ppbv	#	54
44) 2,2,4-Trimethylpentane	7.85	57	355140	0.558	ppbv	#	87
52) Tetrachloroethene	11.19	164	25690m	0.177	ppbv		
53) Toluene	9.79	91	1323177	3.144	ppbv		99
58) Ethyl Benzene	12.69	91	364864	0.713	ppbv		96
59) m/p-Xylene	12.94	91	1329706m	2.982	ppbv		
60) o-Xylene	13.66	91	472663	1.114	ppbv		97
61) Styrene	13.51	104	175455	0.838	ppbv		96
69) p-Isopropyltoluene	17.63	119	204880m	0.346	ppbv		
72) 4-Ethyltoluene	15.82	105	102429m	0.210	ppbv		
73) 1,3,5-Trimethylbenzene	15.97	105	81299	0.179	ppbv		98
74) 1,2,4-Trimethylbenzene	16.74	105	295287	0.617	ppbv	#	70
76) 1,4-Dichlorobenzene	17.11	146	71810m	0.245	ppbv		
79) Naphthalene	22.16	128	144396m	0.492	ppbv		
80) Naphthalene,2-methyl-	24.95	142	15142m	0.226	ppbv		

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

Quantitation Report (QT Reviewed)

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Data File : VL037629.D
Acq On : 17 Sep 2021 00:04
Operator : SY/AP
Sample : M3780-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 17 10:14:47 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations APPROVED
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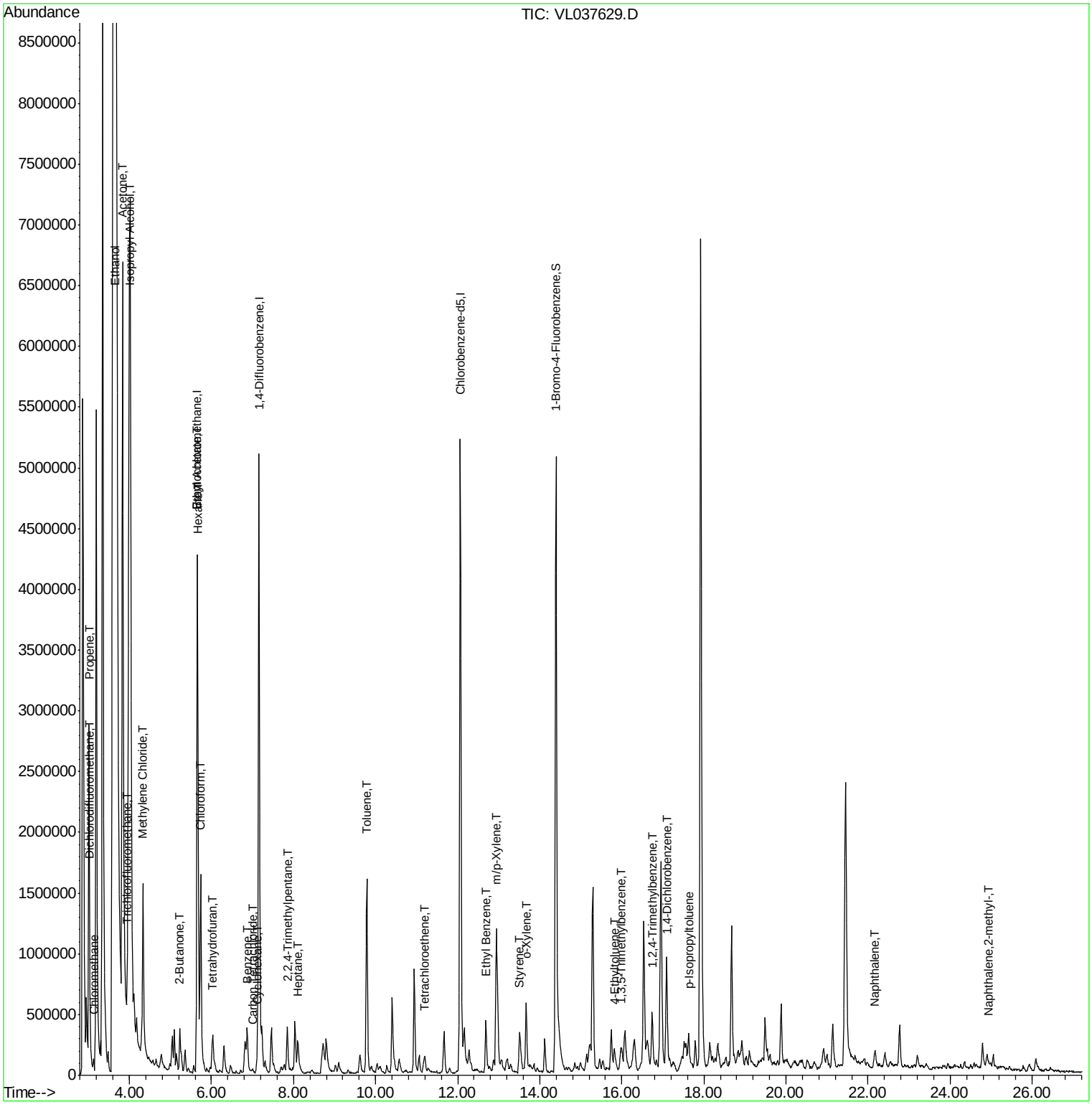
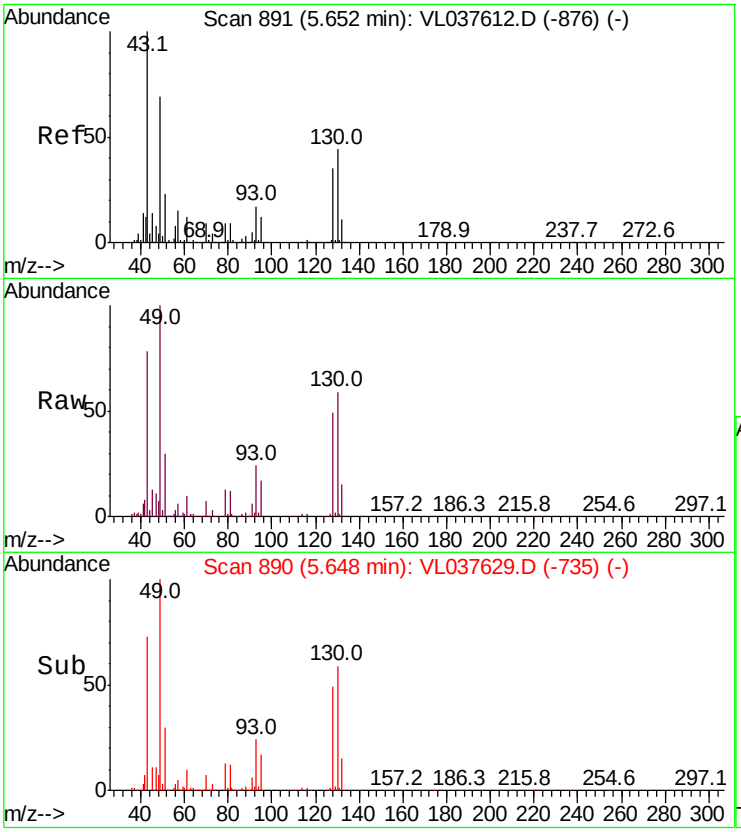
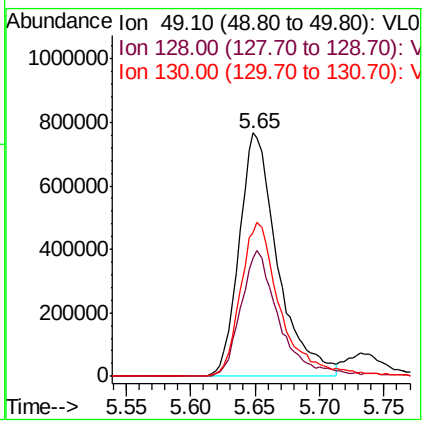




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 49 Resp: 1594067

Ion	Ratio	Lower	Upper
49	100		
128	52.3	27.9	83.6
130	66.3	33.9	101.7



Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations APPROVED
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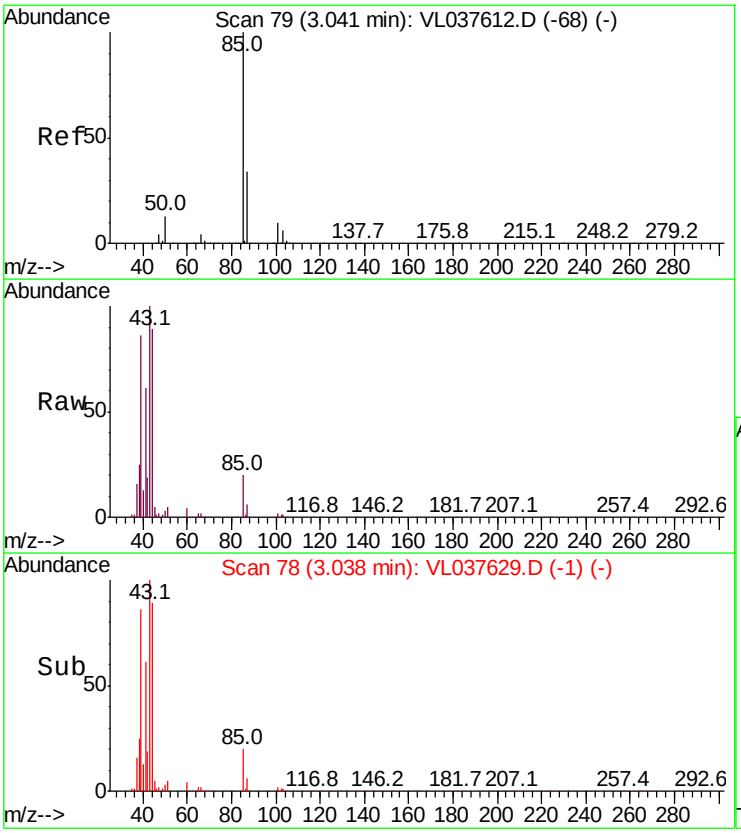
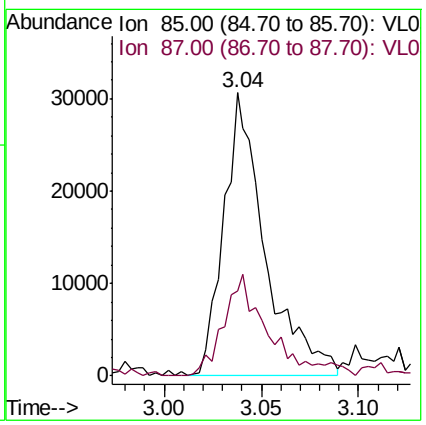
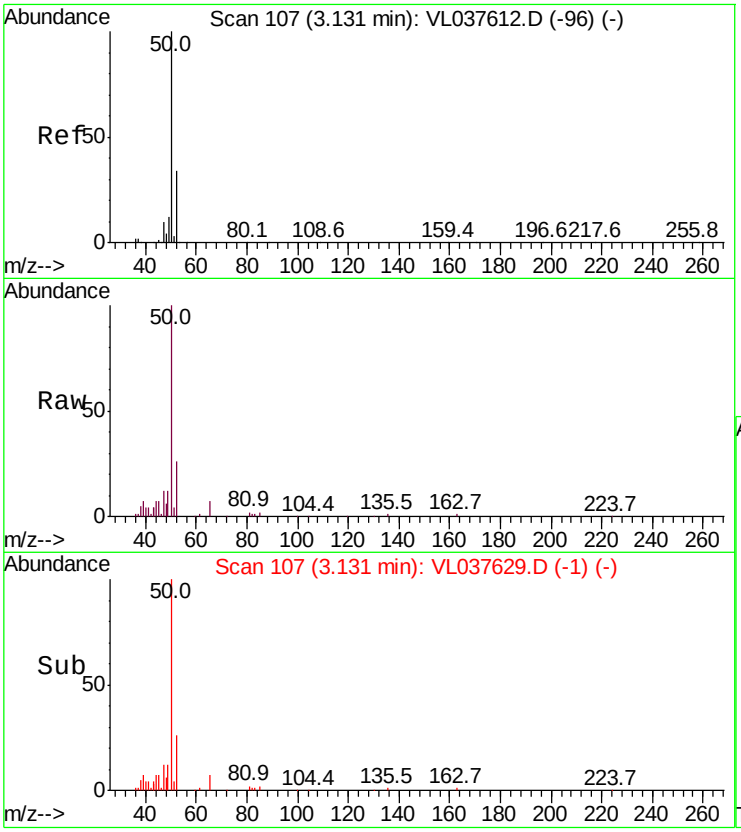


#2
Dichlorodifluoromethane
Concen: 0.159 ppbv m
RT: 3.04 min Scan# 78
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 85 Resp: 45810

Ion	Ratio	Lower	Upper
85	100		
87	30.0	26.8	40.2

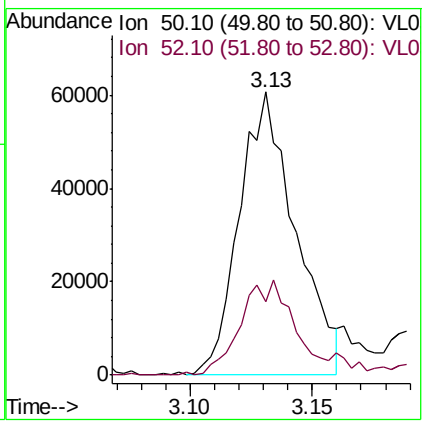




#4
Chloromethane
Concen: 0.872 ppbv
RT: 3.13 min Scan# 107
Delta R.T. 0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 50 Resp: 96836

Ion	Ratio	Lower	Upper
50	100		
52	25.0	27.1	40.7#



Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations APPROVED
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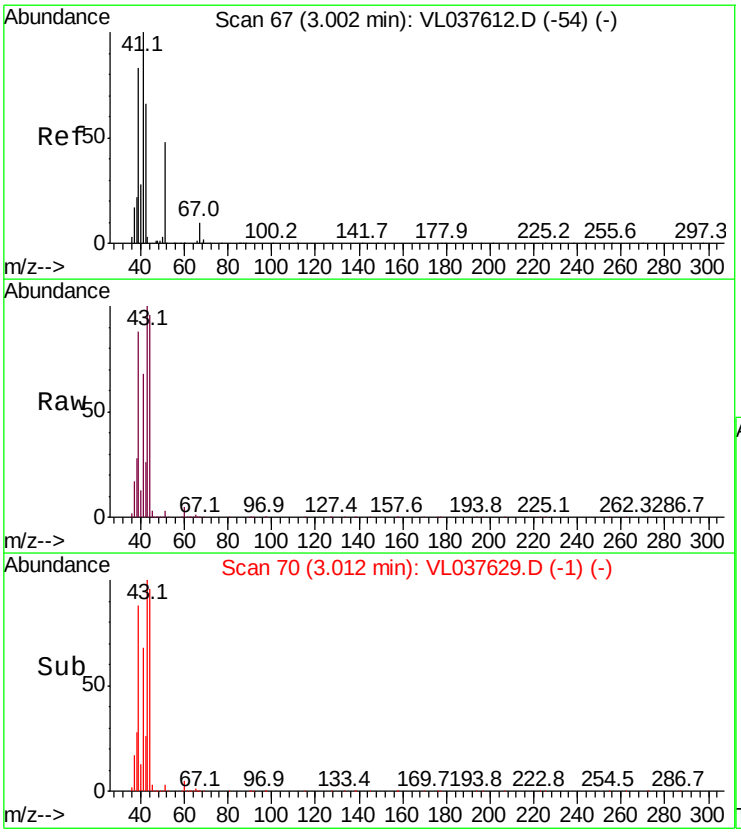
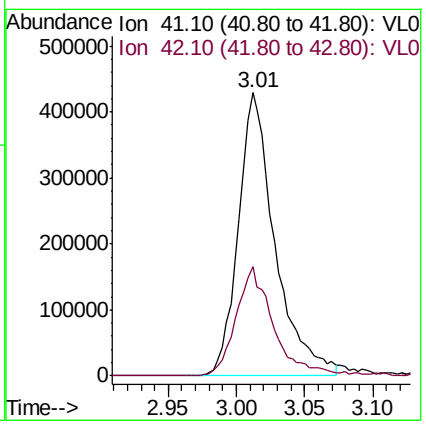
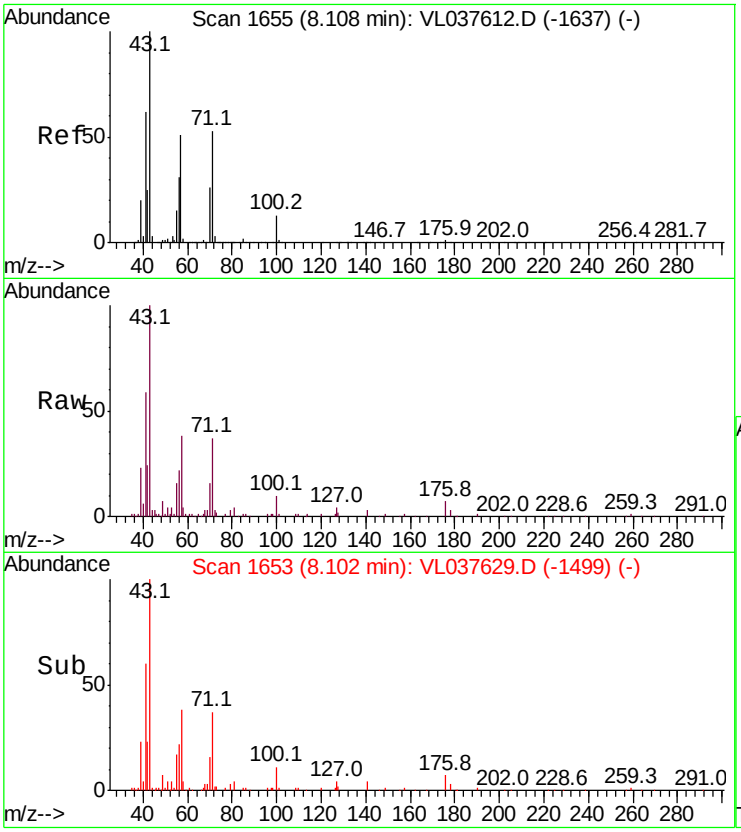


#9
Propene
Concen: 7.552 ppbv
RT: 3.01 min Scan# 70
Delta R.T. 0.01 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 41 Resp: 800940

Ion	Ratio	Lower	Upper
41	100		
42	40.3	57.2	85.8#





#10
Heptane
Concen: 0.554 ppbv m
RT: 8.10 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 43 Resp: 137229

Ion	Ratio	Lower	Upper
43	100		
57	40.1	40.1	60.1#

Instrument :
MSVOA_L
ClientSampleId :
IA2

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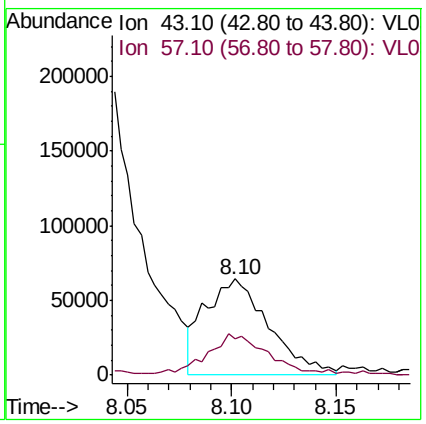
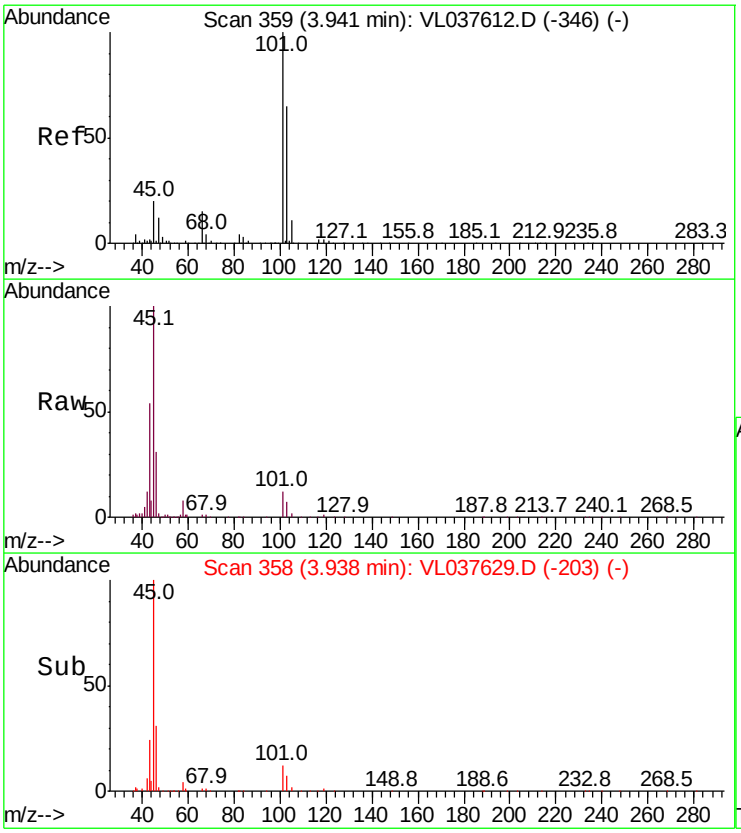
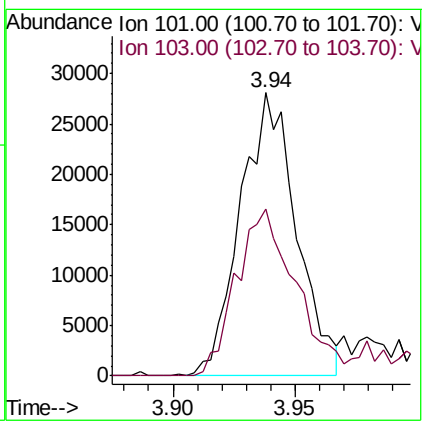


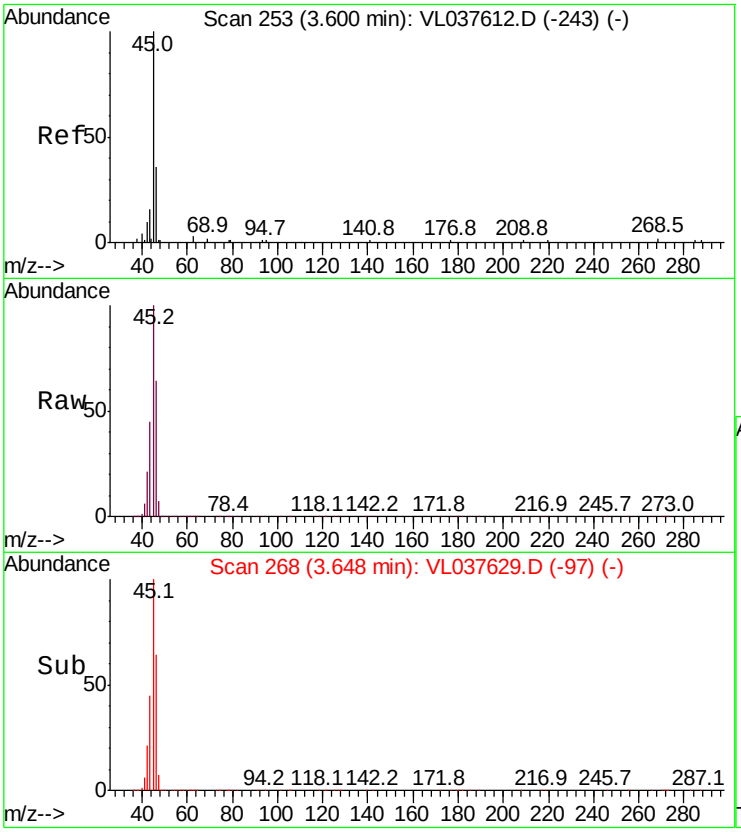


#11
Trichlorofluoromethane
Concen: 0.194 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:101 Resp: 44913

Ion	Ratio	Lower	Upper
101	100		
103	58.8	51.9	77.9

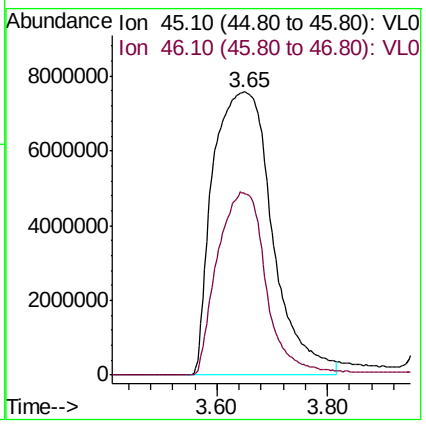




#13
Ethanol
Concen: 5461.796 ppbv
RT: 3.65 min Scan# 268
Delta R.T. 0.05 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 45 Resp:56662309

Ion	Ratio	Lower	Upper
45	100		
46	53.8	17.2	68.8



Instrument :
MSVOA_L
ClientSampleId :
IA2

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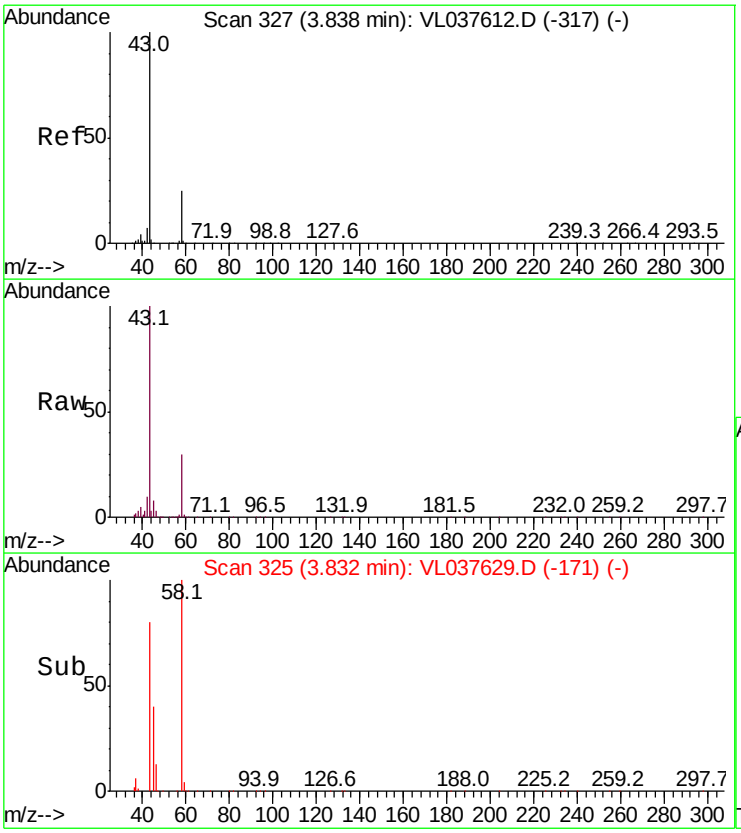
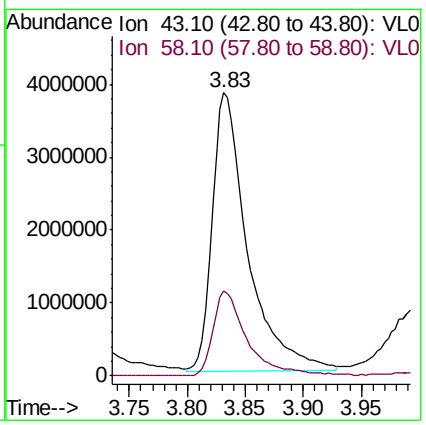
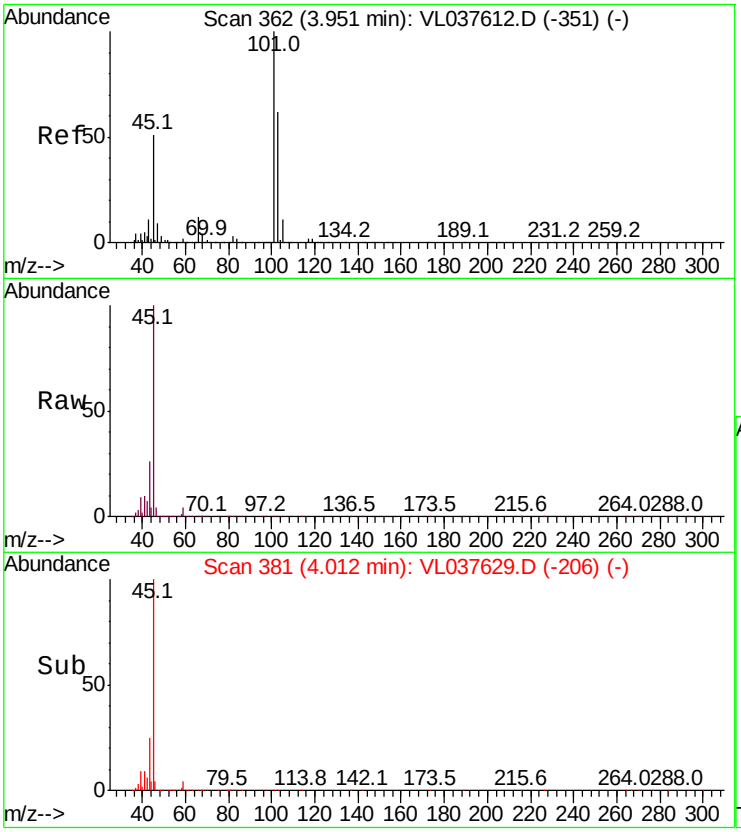


#15
Acetone
Concen: 49.273 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.01 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 43 Resp: 8160671

Ion	Ratio	Lower	Upper
43	100		
58	29.6	24.9	37.3





#19
Isopropyl Alcohol
Concen: 187.085 ppbv
RT: 4.01 min Scan# 381
Delta R.T. 0.06 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 45 Resp:16859176

Ion	Ratio	Lower	Upper
45	100		
58	1.2	2.9	4.3#

Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations APPROVED
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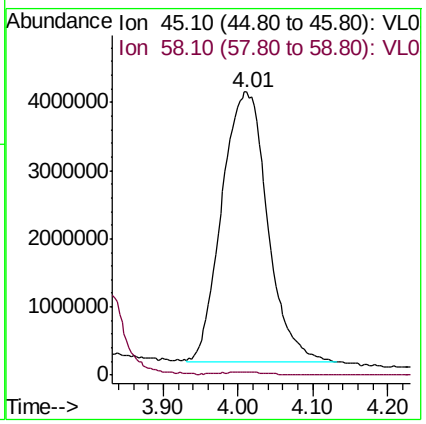
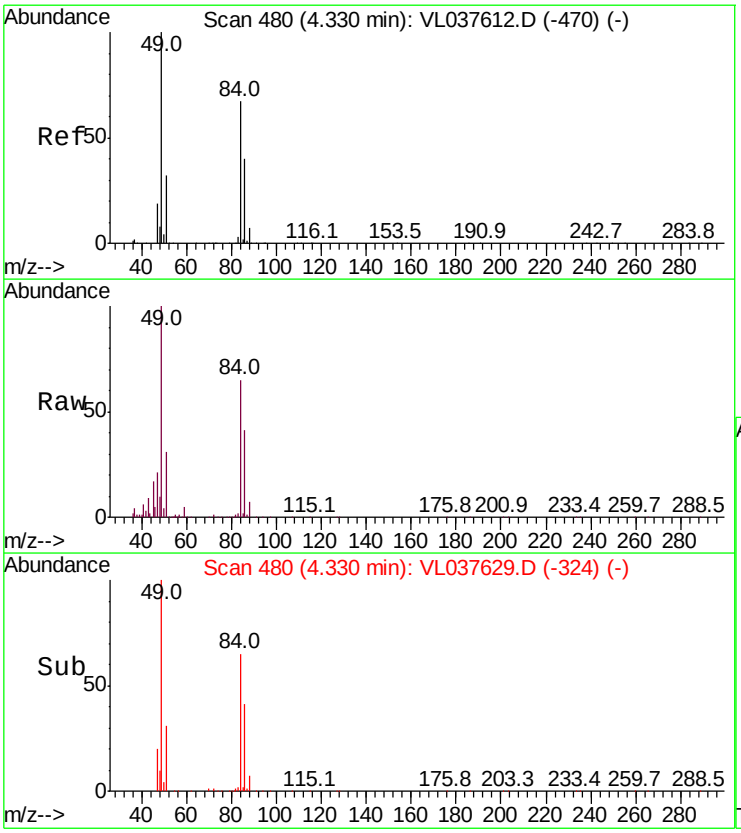
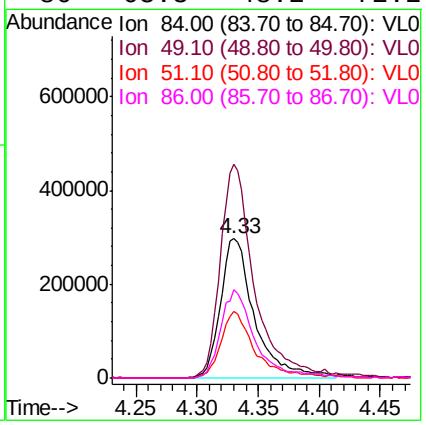


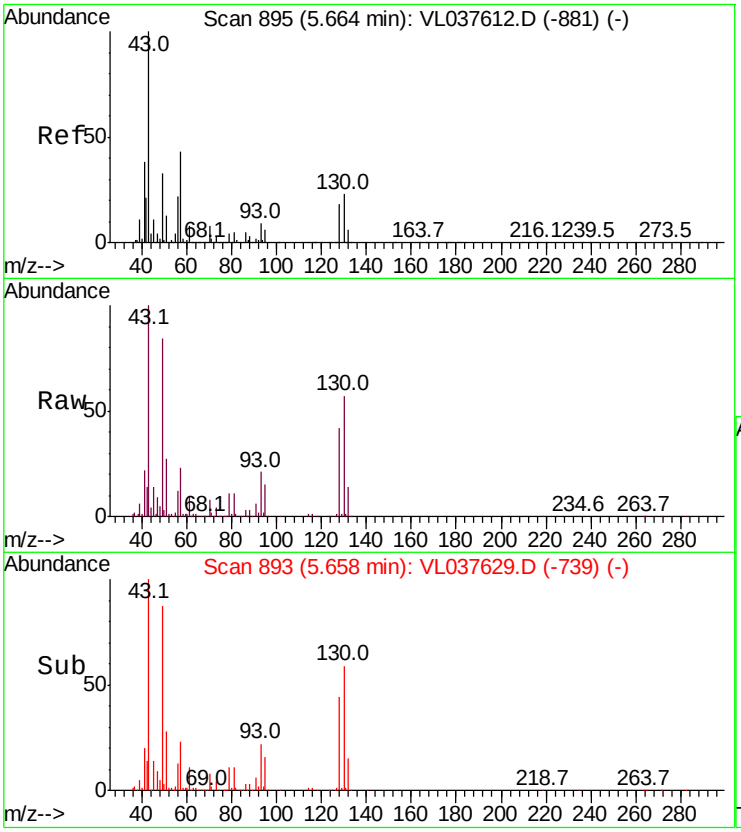


#20
Methylene Chloride
Concen: 7.371 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 84 Resp: 582810

Ion	Ratio	Lower	Upper
84	100		
49	153.1	120.0	180.0
51	47.4	38.0	57.0
86	63.3	48.2	72.2

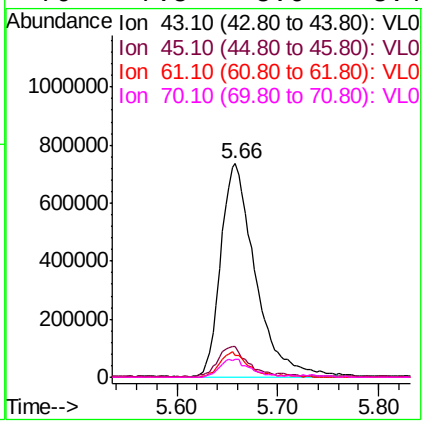




#25
Ethyl Acetate
Concen: 4.369 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 43 Resp: 1752422

Ion	Ratio	Lower	Upper
43	100		
45	13.2	8.0	12.0#
61	10.5	7.5	11.3
70	7.5	5.6	8.4



Instrument :
MSVOA_L
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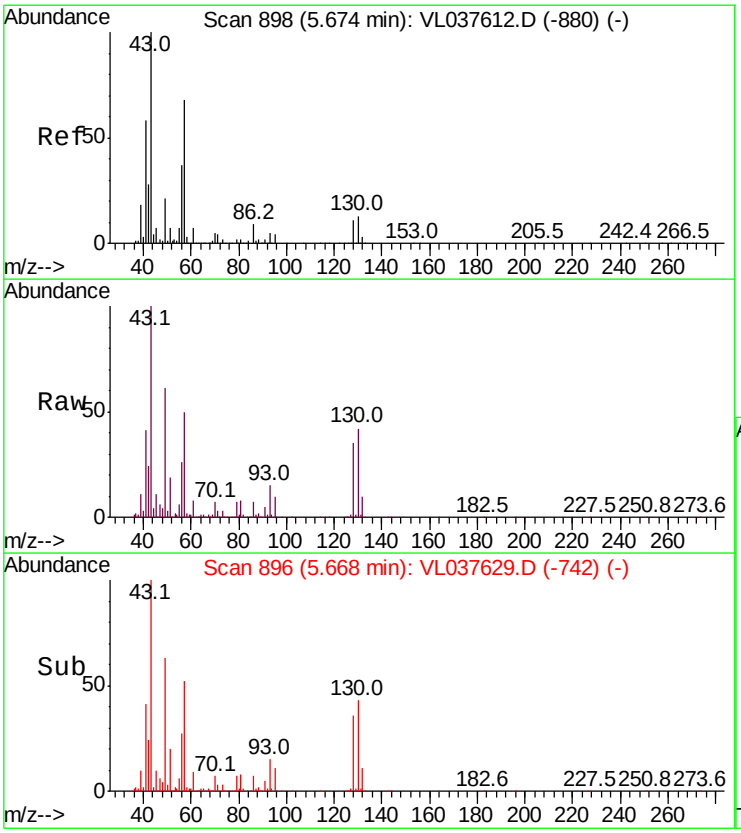
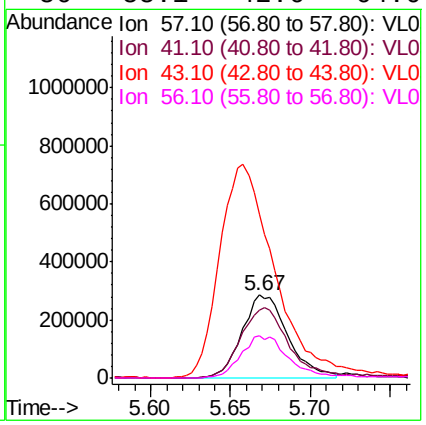
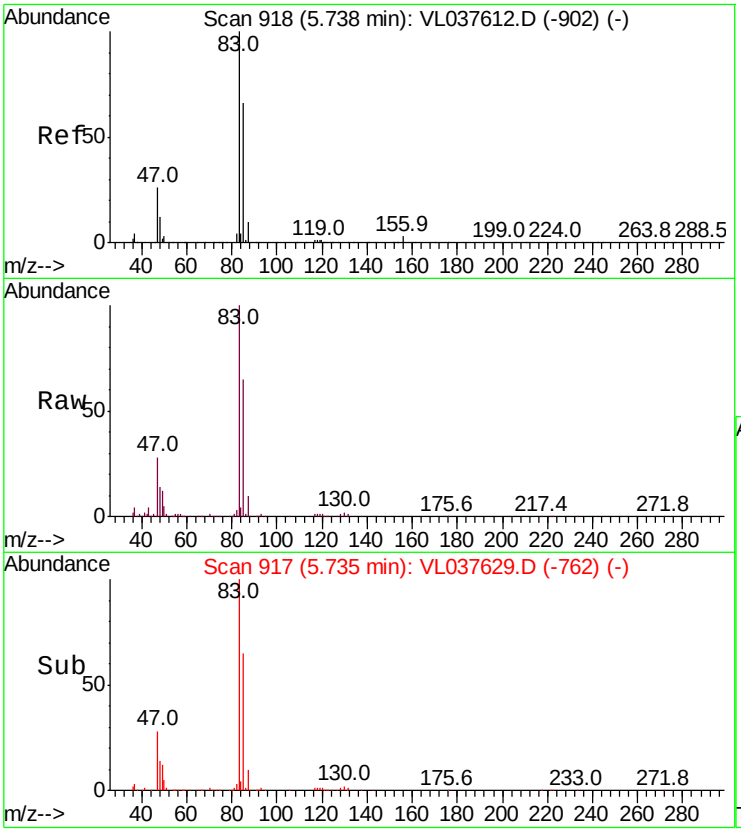


#26
Hexane
Concen: 2.935 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 57 Resp: 559353

Ion	Ratio	Lower	Upper
57	100		
41	94.3	70.9	106.3
43	315.3	170.4	255.6#
56	55.1	42.6	64.0

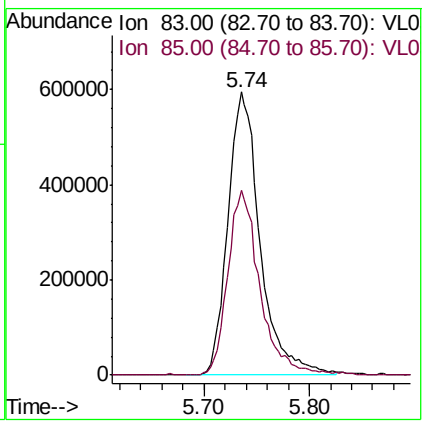




#29
Chloroform
Concen: 4.516 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

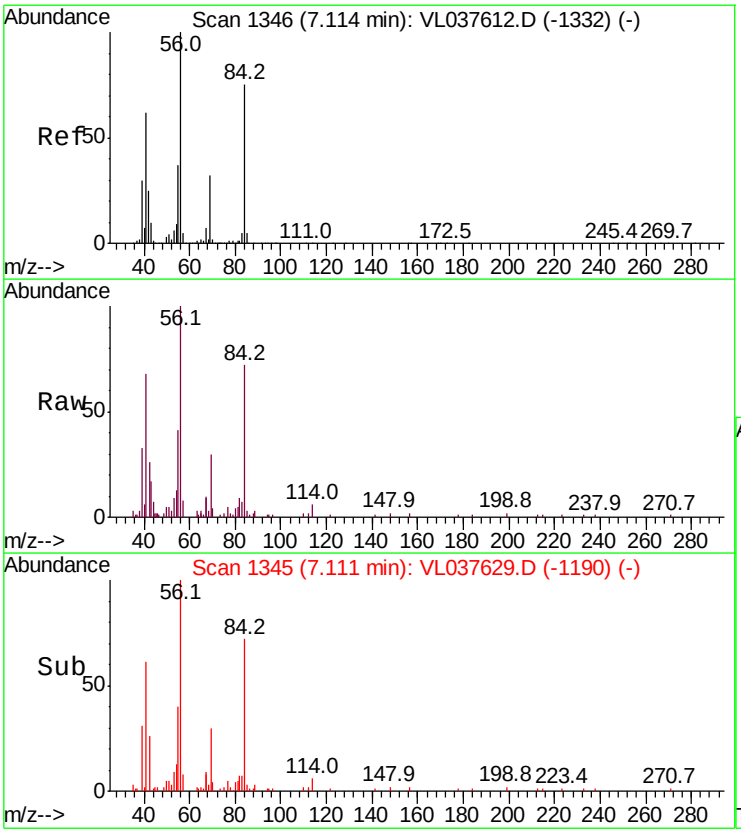
Tgt Ion: 83 Resp: 1256414

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.6	79.0



Instrument :
MSVOA_L
ClientSampleId :
IA2

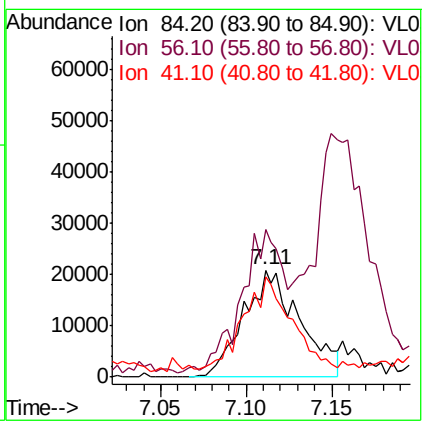
Manual Integrations APPROVED
MMDadoda
9/20/2021 5:27:32 PM

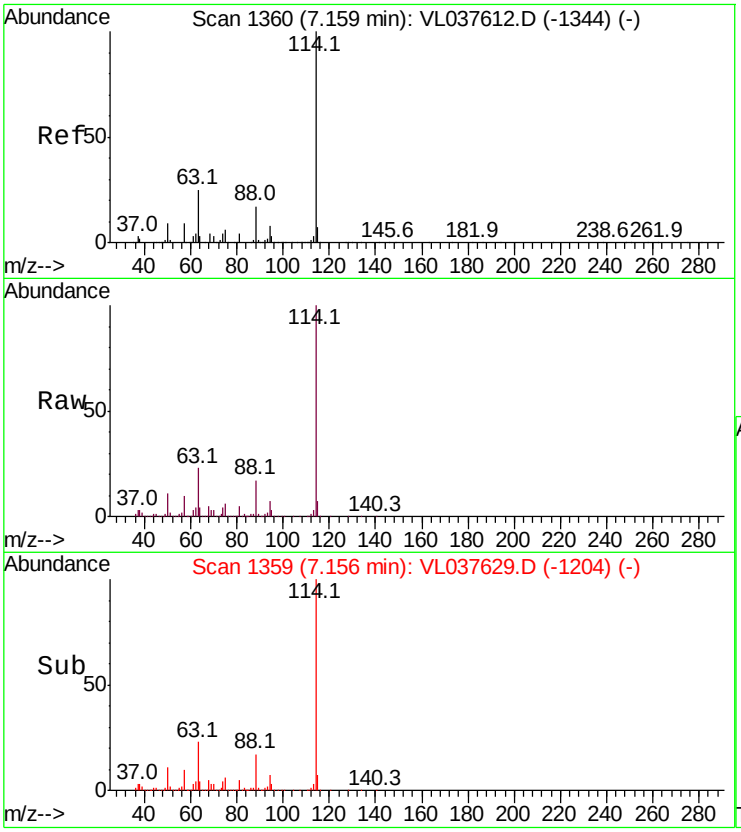


#30
Cyclohexane
Concen: 0.292 ppbv m
RT: 7.11 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 84 Resp: 47656

Ion	Ratio	Lower	Upper
84	100		
56	112.1	113.6	170.4#
41	81.0	67.9	101.9

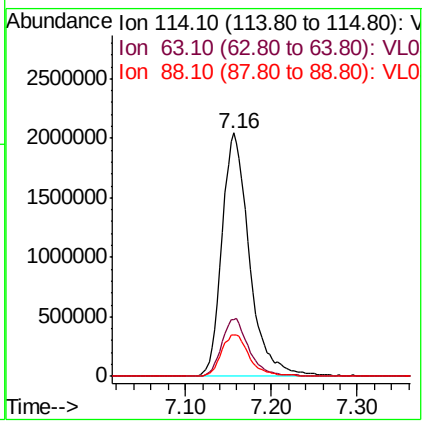




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:114 Resp: 4539951

Ion	Ratio	Lower	Upper
114	100		
63	23.7	19.6	29.4
88	17.7	14.2	21.4



Instrument :
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ClientSampleId :
IA2

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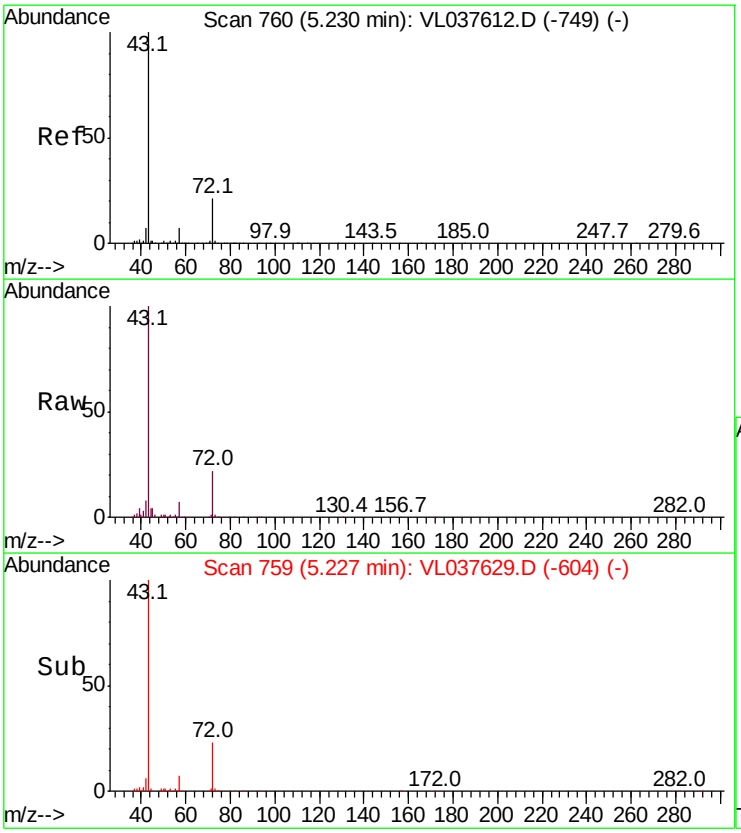
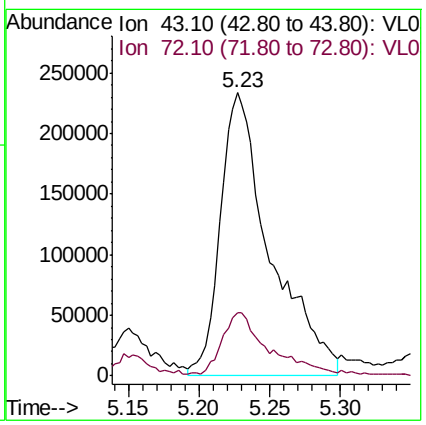
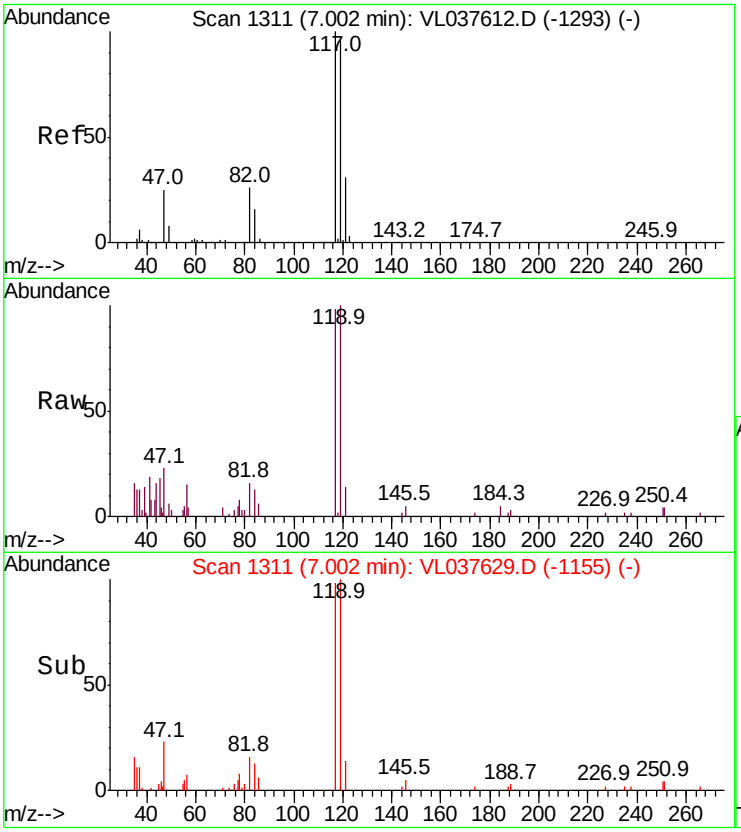


#34
2-Butanone
Concen: 3.125 ppbv m
RT: 5.23 min Scan# 759
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 43 Resp: 576563

Ion	Ratio	Lower	Upper
43	100		
72	22.0	18.4	27.6

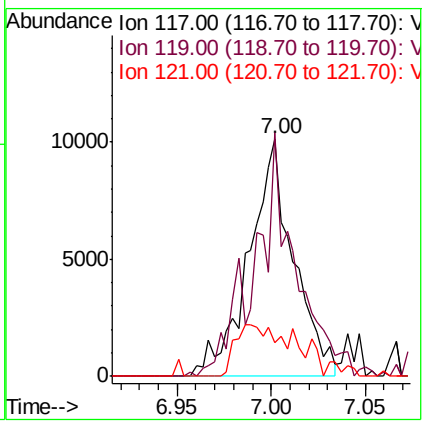




#35
Carbon Tetrachloride
Concen: 0.065 ppbv m
RT: 7.00 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:117 Resp: 16689

Ion	Ratio	Lower	Upper
117	100		
119	102.5	77.0	115.6
121	14.0	24.5	36.7#



Instrument :
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ClientSampleId :
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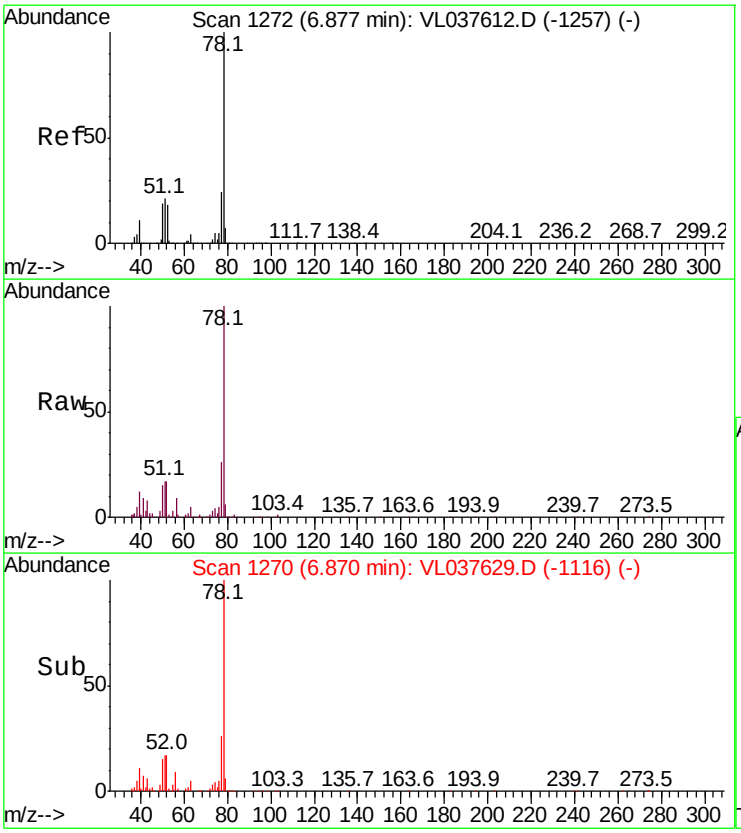
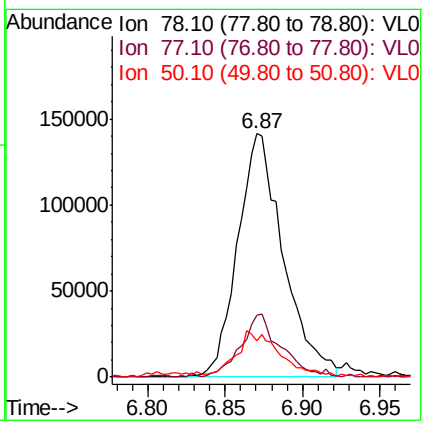
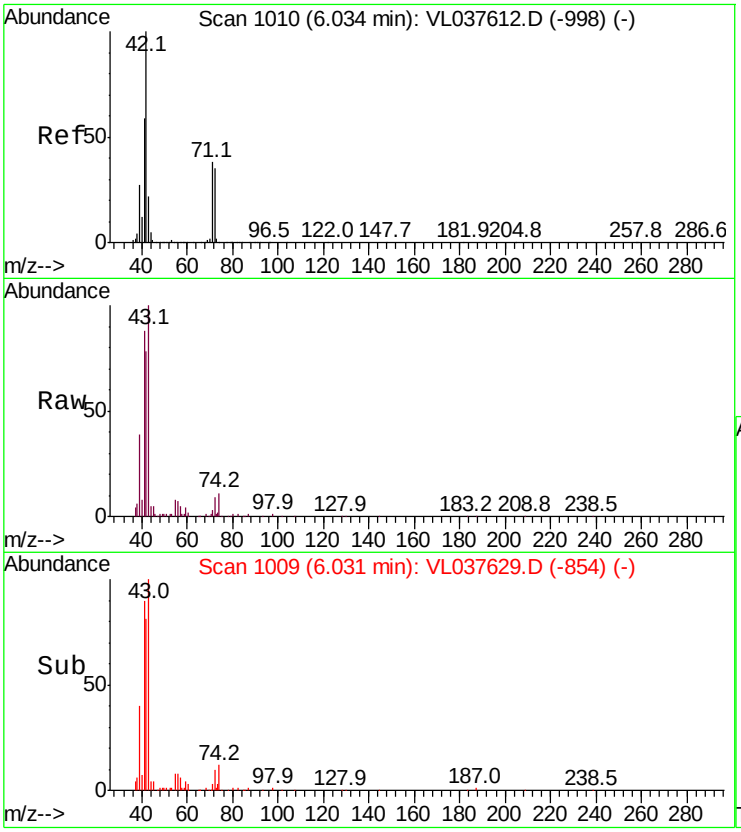


#36
Benzene
Concen: 0.766 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 78 Resp: 290078

Ion	Ratio	Lower	Upper
78	100		
77	25.2	19.0	28.4
50	14.5	14.8	22.2#

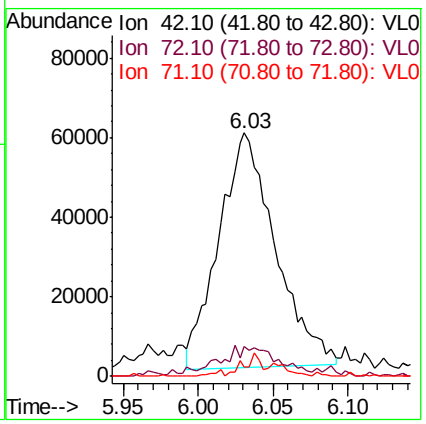




#41
Tetrahydrofuran
Concen: 1.801 ppbv
RT: 6.03 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 42 Resp: 156235

Ion	Ratio	Lower	Upper
42	100		
72	15.6	31.4	47.2#
71	5.6	30.6	46.0#



Instrument :
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ClientSampleId :
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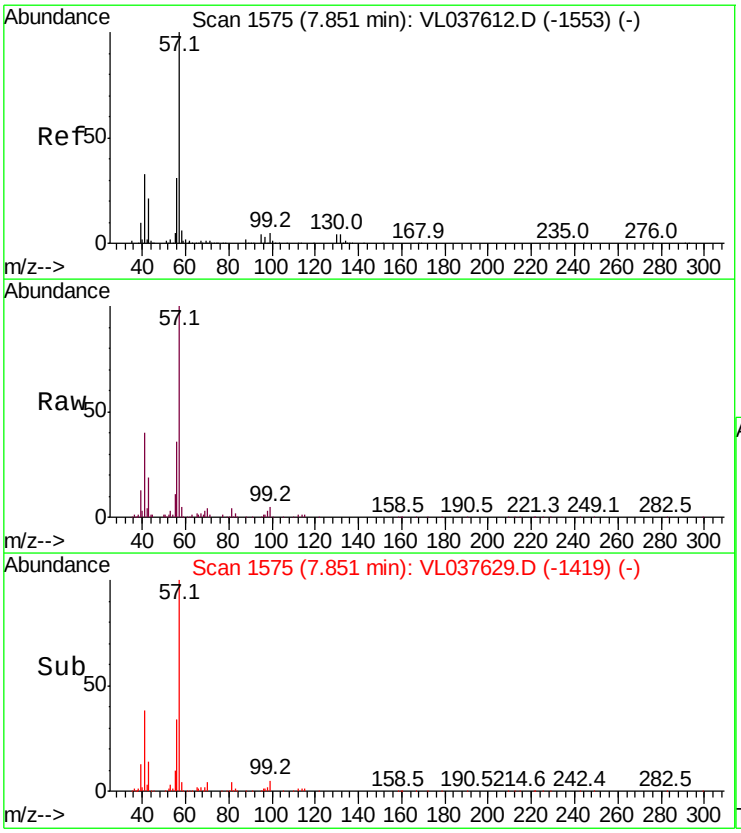
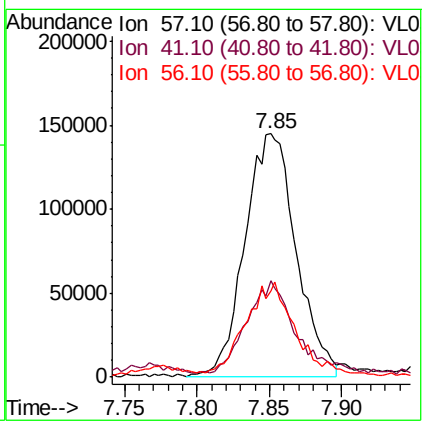
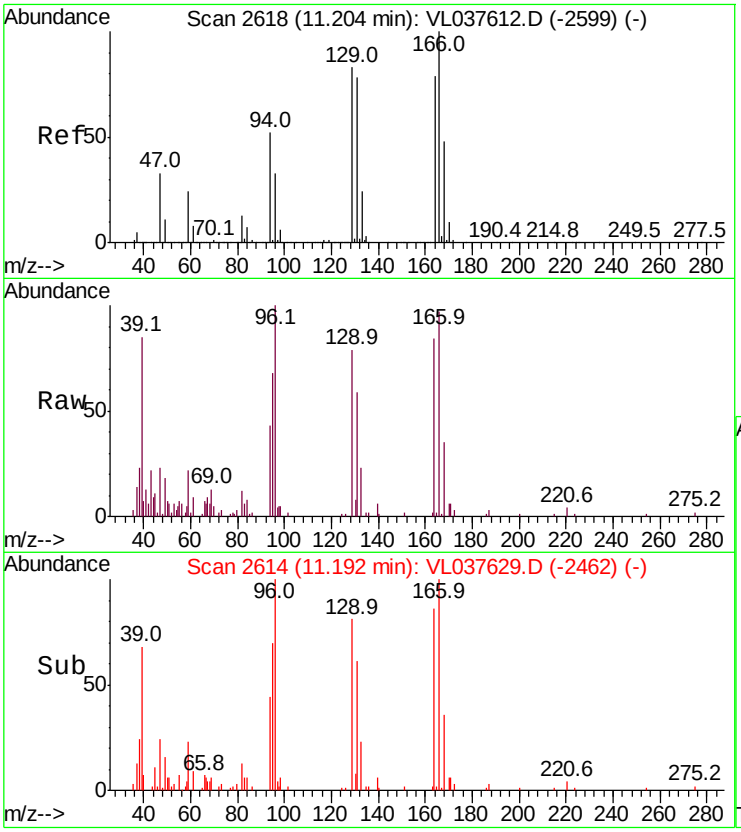


#44
2,2,4-Trimethylpentane
Concen: 0.558 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 57 Resp: 355140

Ion	Ratio	Lower	Upper
57	100		
41	40.0	26.1	39.1#
56	39.3	25.7	38.5#

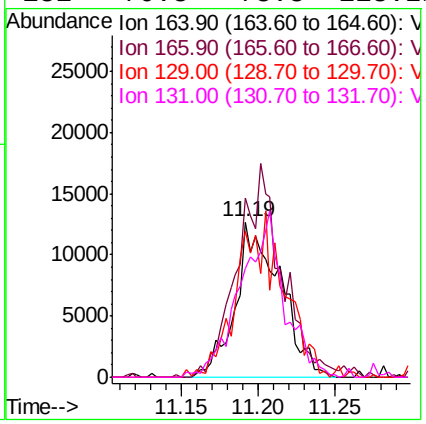




#52
Tetrachloroethene
Concen: 0.177 ppbv m
RT: 11.19 min Scan# 2614
Delta R.T. -0.01 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:164 Resp: 25690

Ion	Ratio	Lower	Upper
164	100		
166	115.5	101.2	151.8
129	93.8	84.0	126.0
131	70.3	78.8	118.2#



Instrument :
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ClientSampleId :
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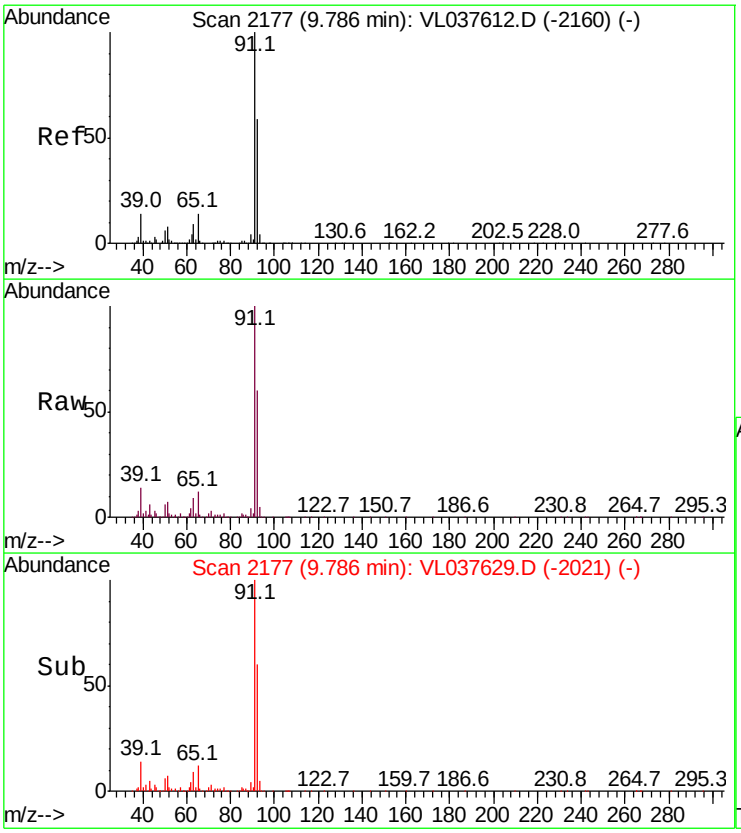
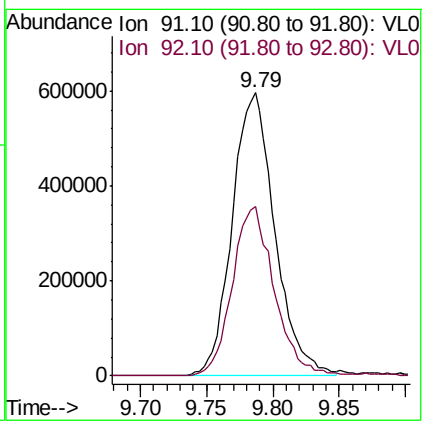
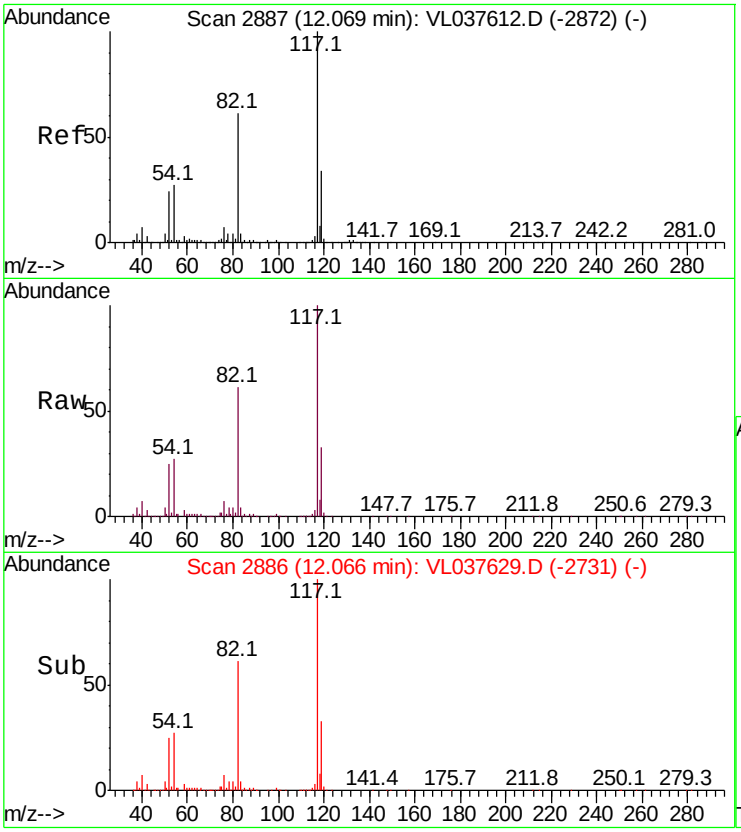


#53
Toluene
Concen: 3.144 ppbv
RT: 9.79 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 91 Resp: 1323177

Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.9	73.3

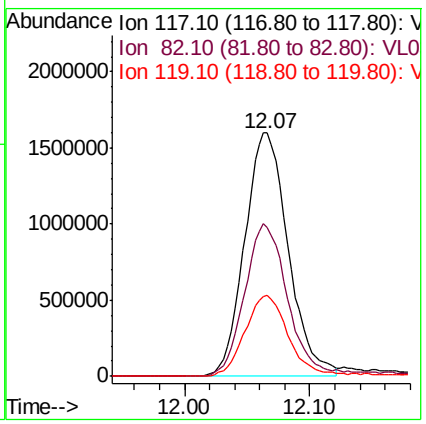




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:117 Resp: 3854501

Ion	Ratio	Lower	Upper
117	100		
82	65.5	50.6	75.8
119	33.9	26.2	39.2



Instrument :
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ClientSampleId :
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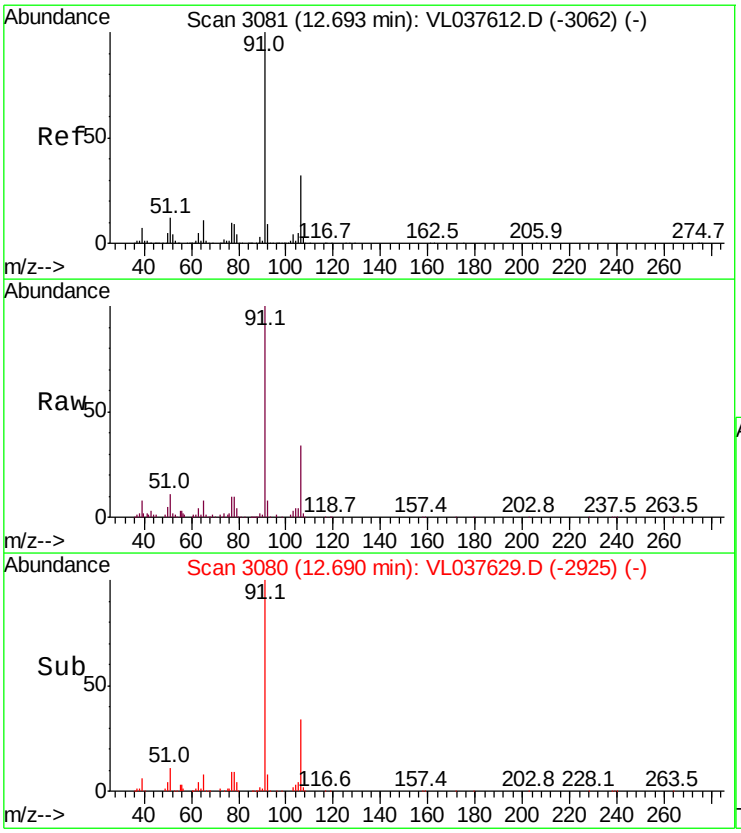
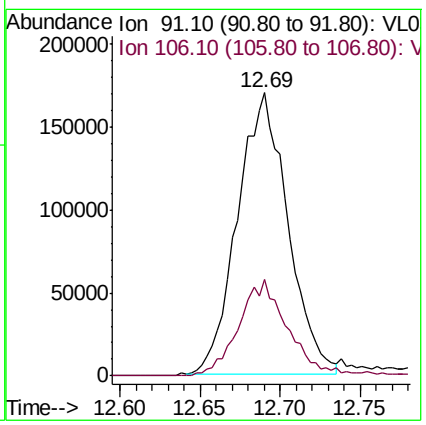
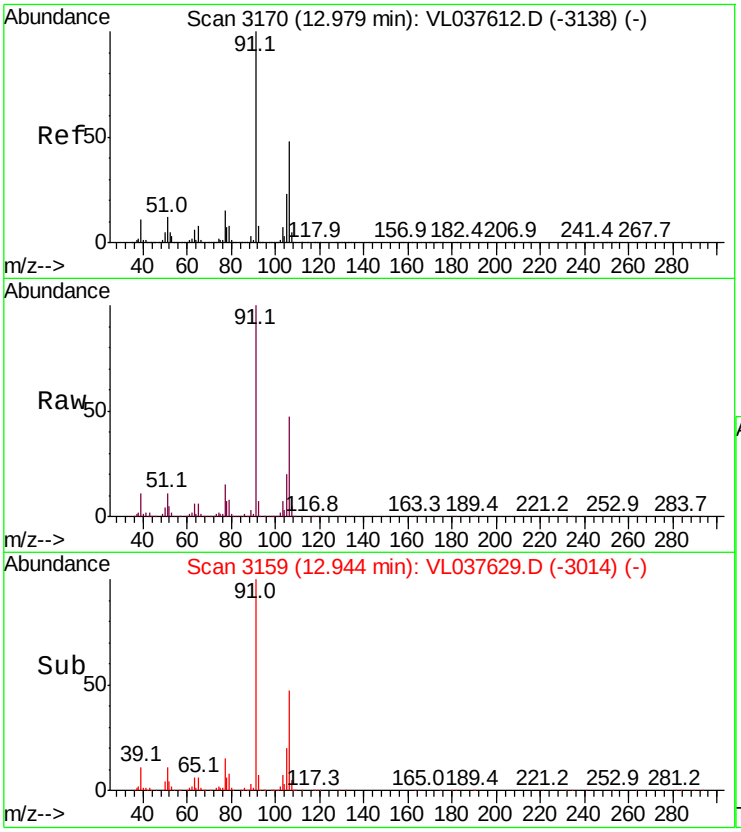


#58
Ethyl Benzene
Concen: 0.713 ppbv
RT: 12.69 min Scan# 3080
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 91 Resp: 364864

Ion	Ratio	Lower	Upper
91	100		
106	34.0	25.3	37.9





#59
m/p-Xylene
Concen: 2.982 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.04 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 91 Resp: 1329706

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.6	55.0#

Instrument :
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ClientSampleId :
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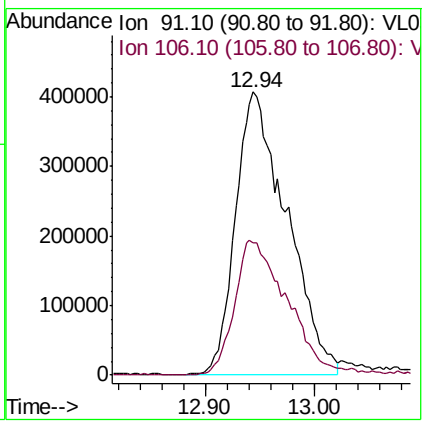
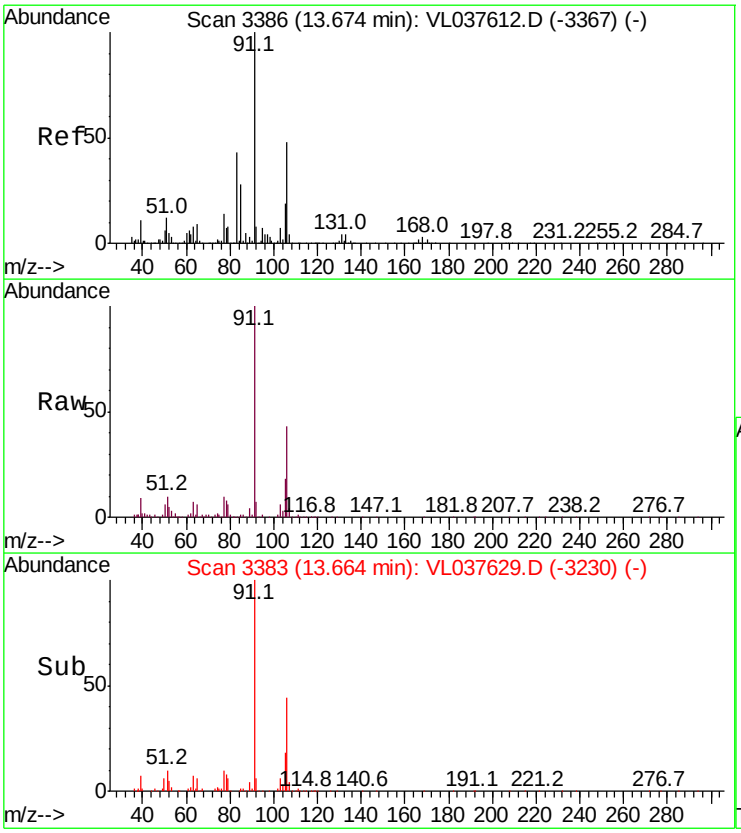
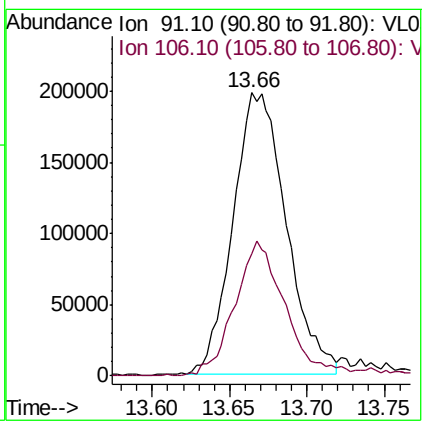


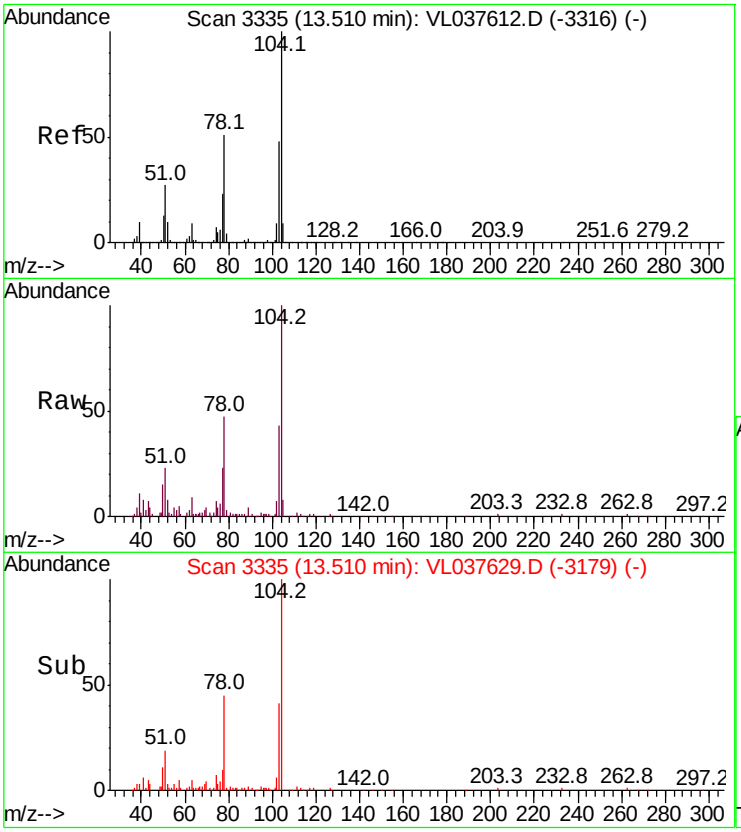


#60
o-Xylene
Concen: 1.114 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.01 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 91 Resp: 472663

Ion	Ratio	Lower	Upper
91	100		
106	47.7	23.0	69.0





#61
Stvrene
Concen: 0.838 ppbv
RT: 13.51 min Scan# 3335
Delta R.T. 0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:104 Resp: 175455

Ion	Ratio	Lower	Upper
104	100		
78	53.1	39.7	59.5
103	50.0	38.8	58.2

Instrument :
MSVOA_L
ClientSampleId :
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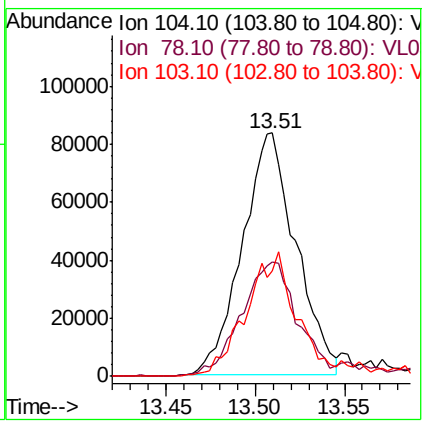
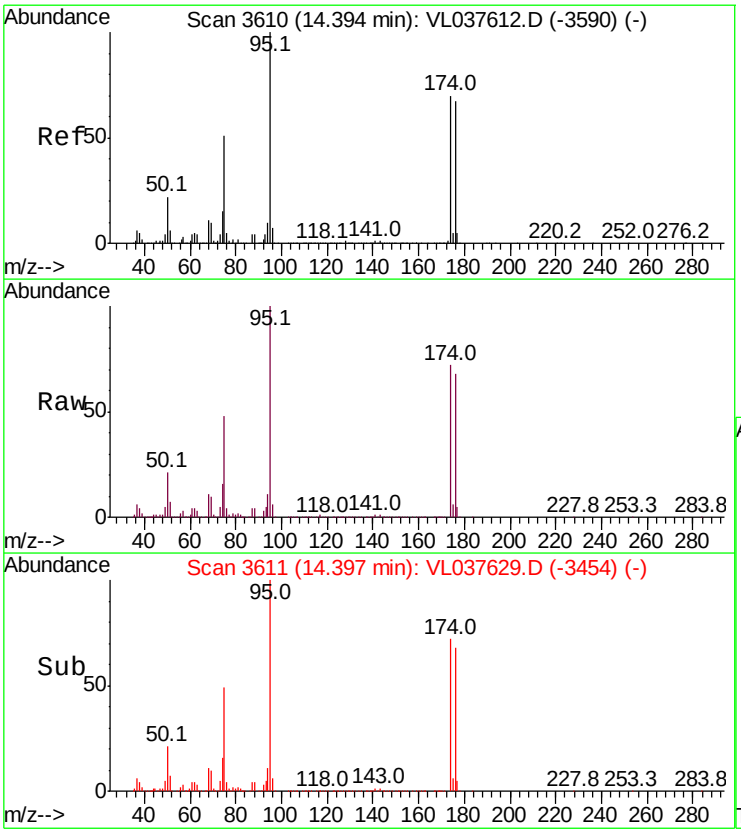
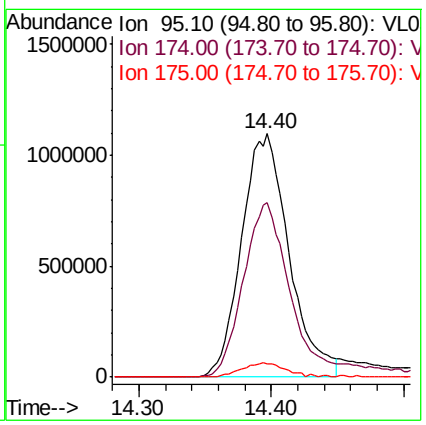


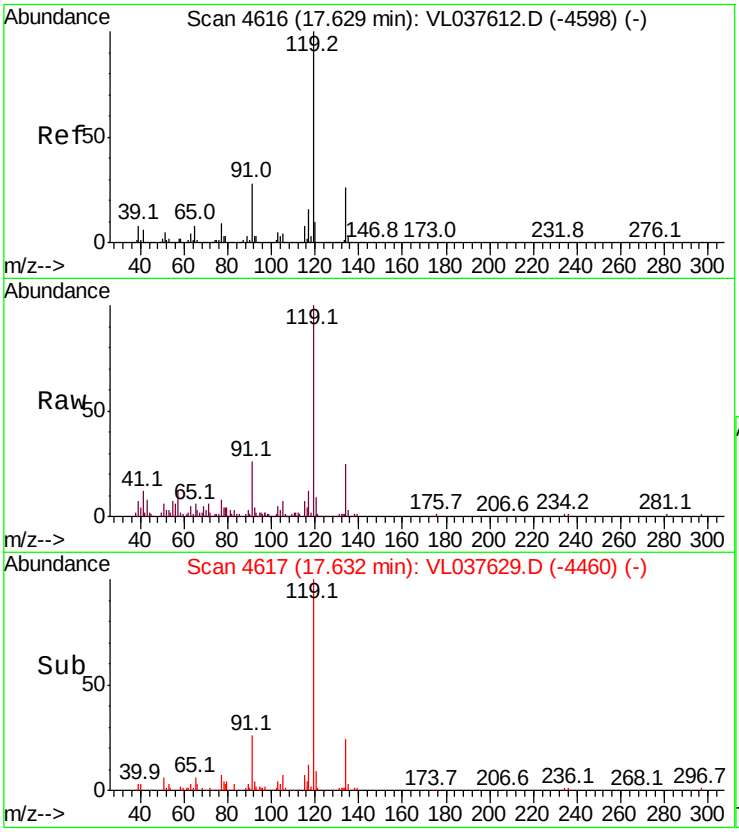


#68
1-Bromo-4-Fluorobenzene
Concen: 9.772 ppbv m
RT: 14.40 min Scan# 3611
Delta R.T. 0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion: 95 Resp: 2722230

Ion	Ratio	Lower	Upper
95	100		
174	0.0	56.3	84.5#
175	0.0	4.4	6.6#

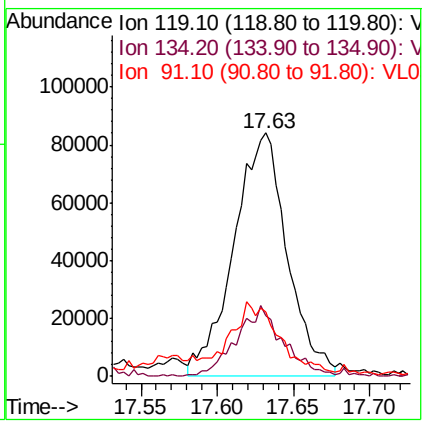




#69
p-Isopropyltoluene
Concen: 0.346 ppbv m
RT: 17.63 min Scan# 4617
Delta R.T. 0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:119 Resp: 204880

Ion	Ratio	Lower	Upper
119	100		
134	0.0	21.2	31.8#
91	27.9	22.2	33.2



Instrument :
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ClientSampleId :
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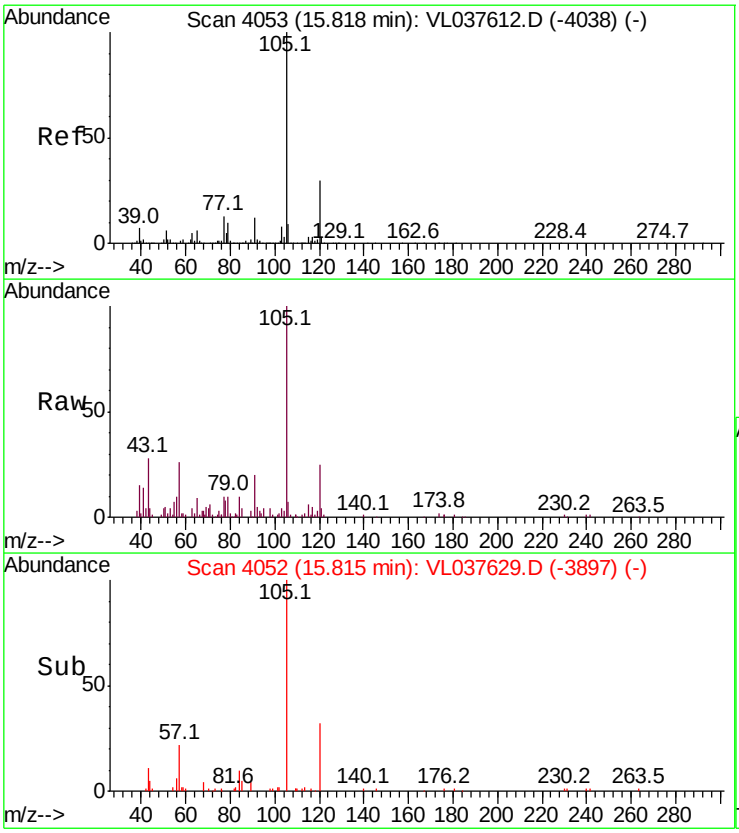
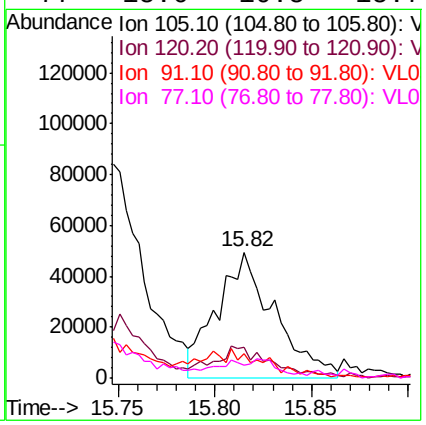
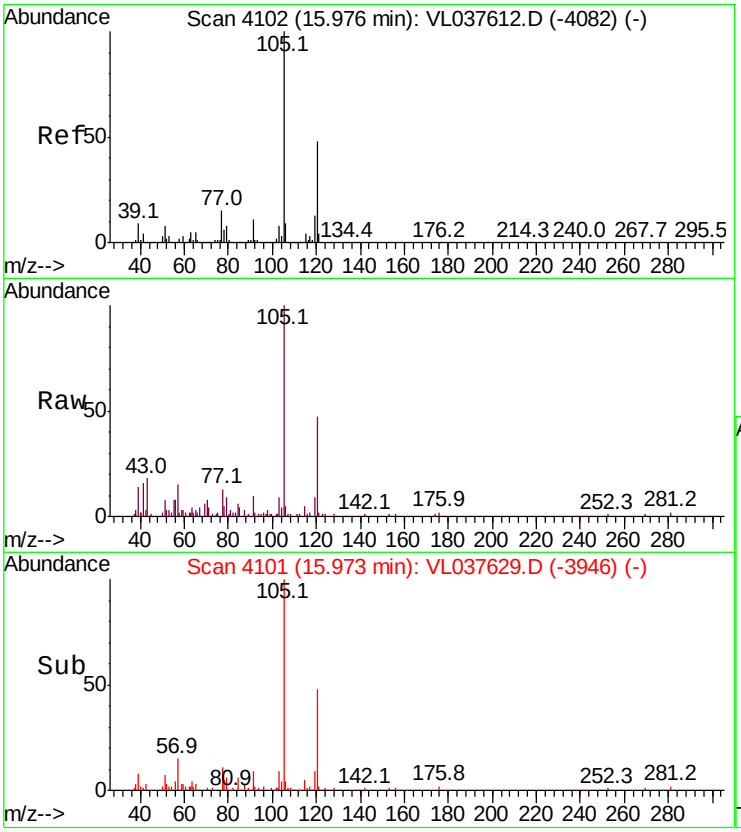


#72
4-Ethyltoluene
Concen: 0.210 ppbv m
RT: 15.82 min Scan# 4052
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:105 Resp: 102429

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.7	37.1#
91	0.0	9.9	14.9#
77	15.6	10.5	15.7





#73
1,3,5-Trimethylbenzene
Concen: 0.179 ppbv
RT: 15.97 min Scan# 4101
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:105 Resp: 81299

Ion	Ratio	Lower	Upper
105	100		
120	46.6	38.3	57.5

Instrument :
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ClientSampleId :
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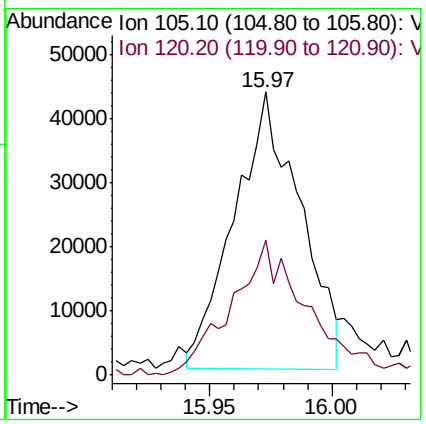
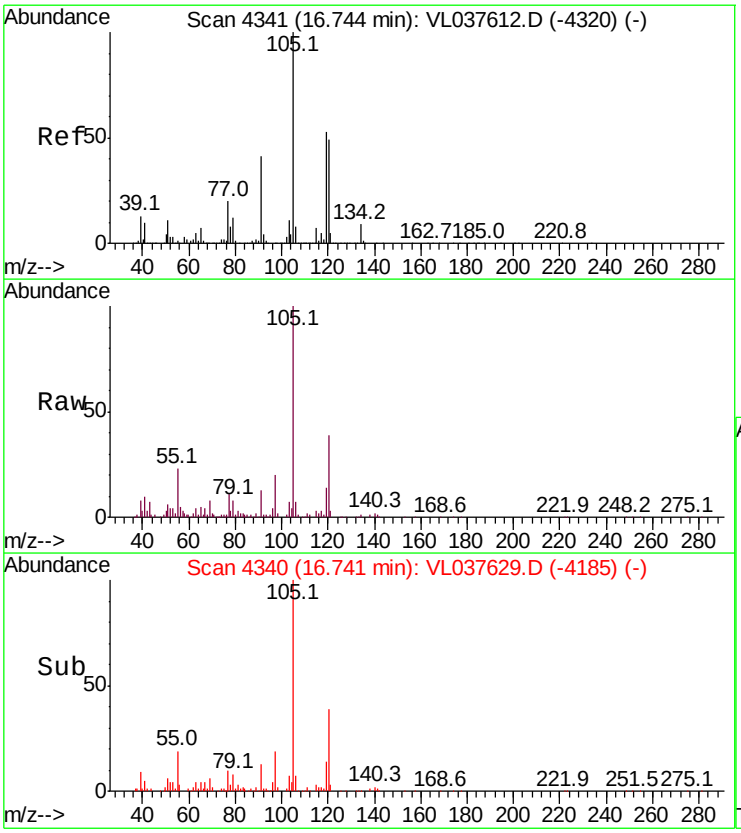
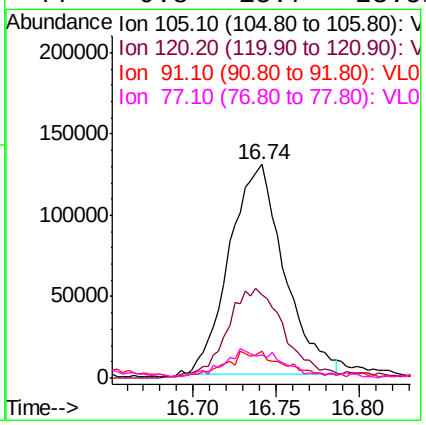


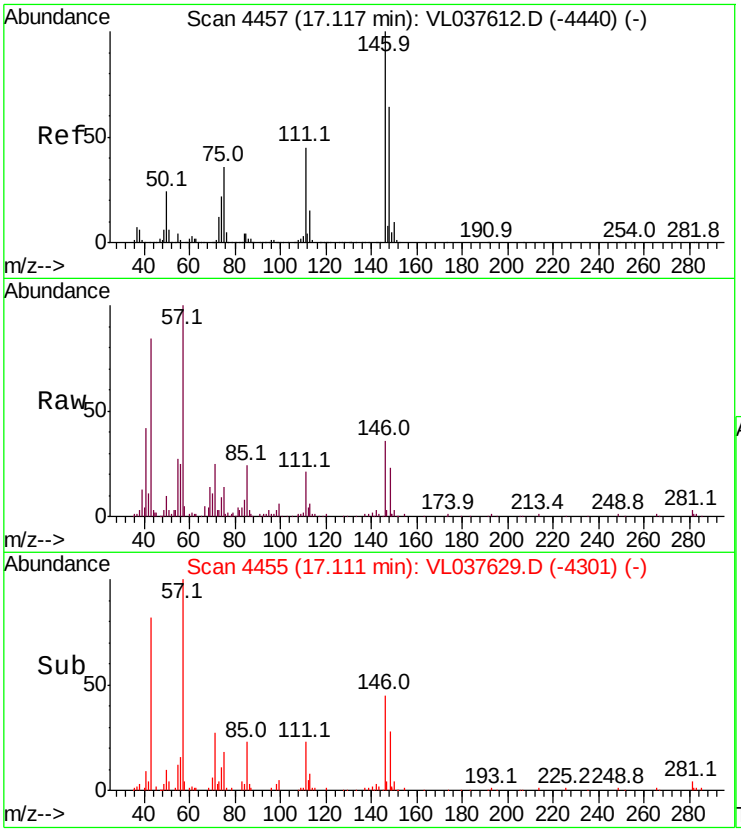


#74
1,2,4-Trimethylbenzene
Concen: 0.617 ppbv
RT: 16.74 min Scan# 4340
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:105 Resp: 295287

Ion	Ratio	Lower	Upper
105	100		
120	37.0	39.4	59.0#
91	11.3	33.3	49.9#
77	9.8	15.7	23.5#

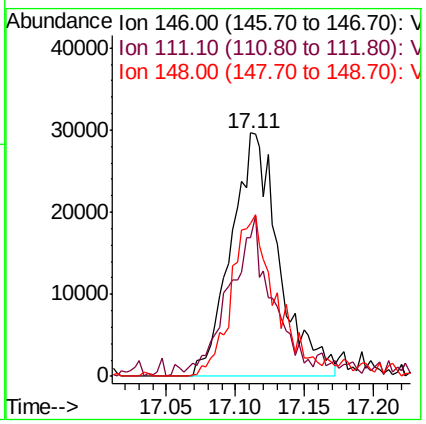




#76
1,4-Dichlorobenzene
Concen: 0.245 ppbv m
RT: 17.11 min Scan# 4455
Delta R.T. -0.01 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:146 Resp: 71810

Ion	Ratio	Lower	Upper
146	100		
111	60.3	22.5	67.5
148	62.1	32.9	98.6



Instrument :
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ClientSampleId :
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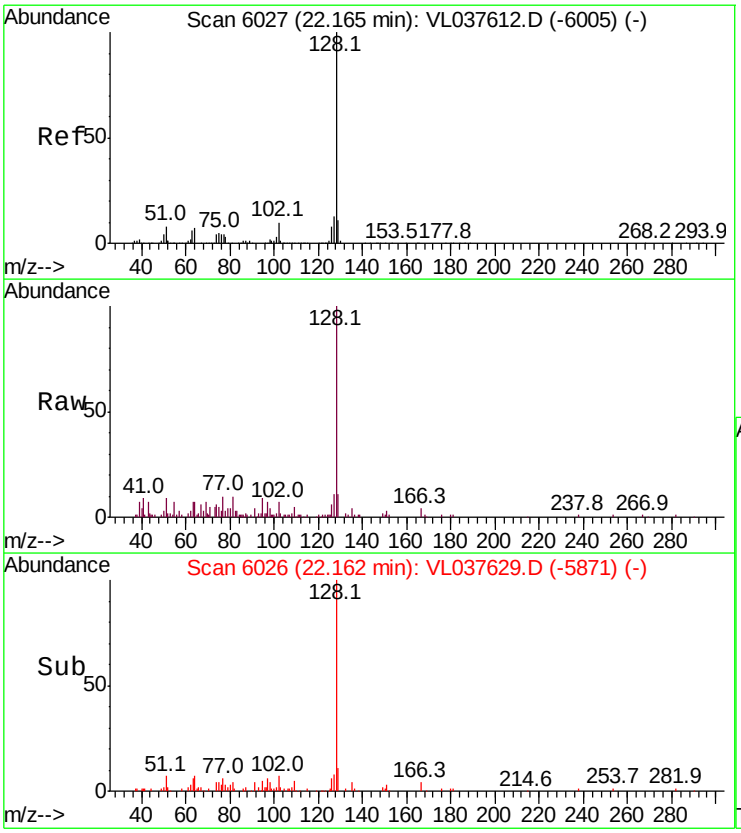
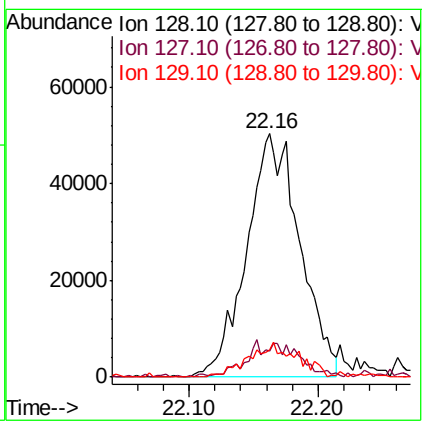
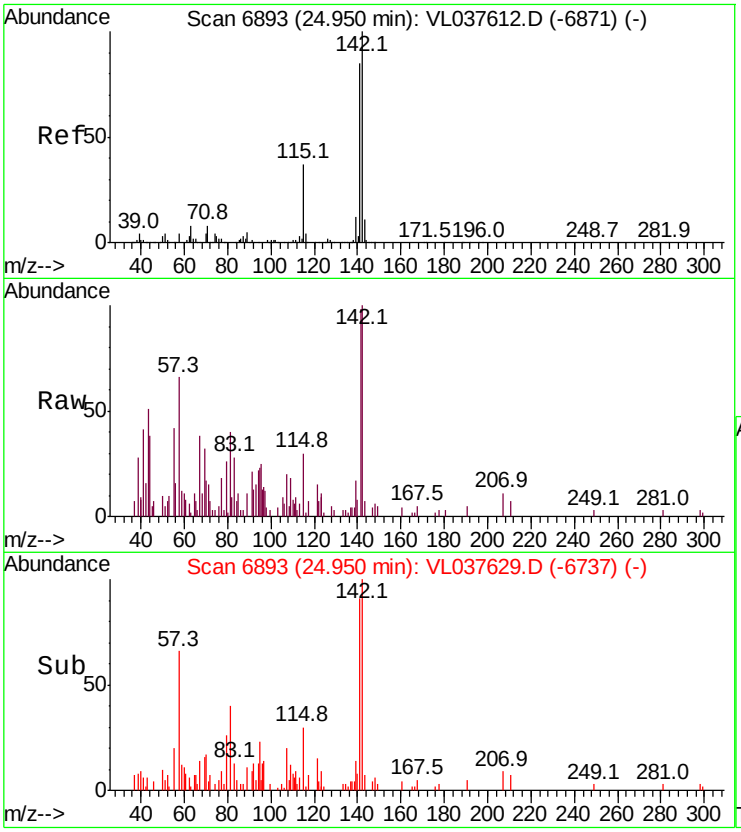


#79
Naphthalene
Concen: 0.492 ppbv m
RT: 22.16 min Scan# 6026
Delta R.T. -0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:128 Resp: 144396

Ion	Ratio	Lower	Upper
128	100		
127	10.7	10.6	16.0
129	11.4	8.6	12.8

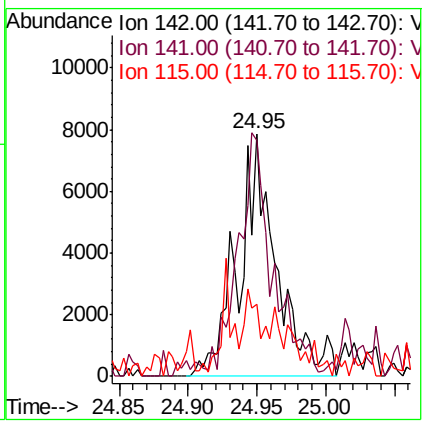




#80
Naphthalene,2-methyl-
Concen: 0.226 ppbv m
RT: 24.95 min Scan# 6893
Delta R.T. 0.00 min
Lab File: VL037629.D
Acq: 17 Sep 2021 00:04

Tgt Ion:142 Resp: 15142

Ion	Ratio	Lower	Upper
142	100		
141	64.0	70.9	106.3#
115	23.2	29.6	44.4#



Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations APPROVED
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9/20/2021 5:27:32 PM