Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070620\
Data File : VL035154.D
Acq On : 6 Jul 2020 20:28
Operator : SY/AP
Sample : L3190-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
MMDadoda
7/9/2020 12:00:58 PM

Quant Time: Jul 07 10:38:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LSat Jun 2
QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1015930	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2415115	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2310395	10.00	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1981437	10.32	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.00	85	33781	0.246	ppbv #	88
3) Chlorodifluoromethane	2.94	51	50012m	0.446	ppbv	
4) Chloromethane	3.09	50	41409	0.658	ppbv	97
5) Vinyl Chloride	3.21	62	6275m	0.105	ppbv	
9) Propene	2.96	41	699532	15.741	ppbv	91
10) Heptane	8.12	43	31348m	0.272	ppbv	
11) Trichlorofluoromethane	3.91	101	18895m	0.129	ppbv	
13) Ethanol	3.57	45	773313	46.063	ppbv	99
15) Acetone	3.81	43	7330986	59.685	ppbv #	79
17) tert-Butyl alcohol	4.27	59	1532470	14.078	ppbv	98
19) Isopropyl Alcohol	3.94	45	490214	6.147	ppbv #	93
20) Methylene Chloride	4.31	84	5293586	106.486	ppbv	85
26) Hexane	5.67	57	2756780	27.584	ppbv #	46
27) Carbon Disulfide	4.52	76	1812467	17.524	ppbv	98
29) Chloroform	5.74	83	24245	0.155	ppbv	96
34) 2-Butanone	5.23	43	295956	2.134	ppbv	98
35) Carbon Tetrachloride	7.02	117	10707m	0.074	ppbv	
36) Benzene	6.89	78	3776157	20.192	ppbv	97
37) 1,2-Dichloroethane	6.30	62	14164	0.120	ppbv	98
39) 1,2-Dichloropropane	7.61	63	32321	0.442	ppbv	91
44) 2,2,4-Trimethylpentane	7.87	57	69771	0.214	ppbv #	82
52) Tetrachloroethene	11.24	164	7370m	0.112	ppbv	
53) Toluene	9.82	91	578290	2.899	ppbv	98
58) Ethyl Benzene	12.73	91	81807m	0.315	ppbv	
59) m/p-Xylene	12.99	91	148880m	0.647	ppbv	
60) o-Xylene	13.71	91	71390m	0.312	ppbv	
61) Styrene	13.55	104	27453m	0.190	ppbv	
62) Isopropylbenzene	14.69	105	316349	0.926	ppbv	97
69) p-Isopropyltoluene	17.69	119	57163m	0.171	ppbv	
72) 4-Ethyltoluene	15.86	105	33266m	0.131	ppbv	
73) 1,3,5-Trimethylbenzene	16.02	105	44694m	0.186	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	121698m	0.453	ppbv	
79) Naphthalene	22.25	128	120338m	0.511	ppbv	

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

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070620\
Data File : VL035154.D
Acq On : 6 Jul 2020 20:28
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Sample : L3190-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LSat Jun
QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
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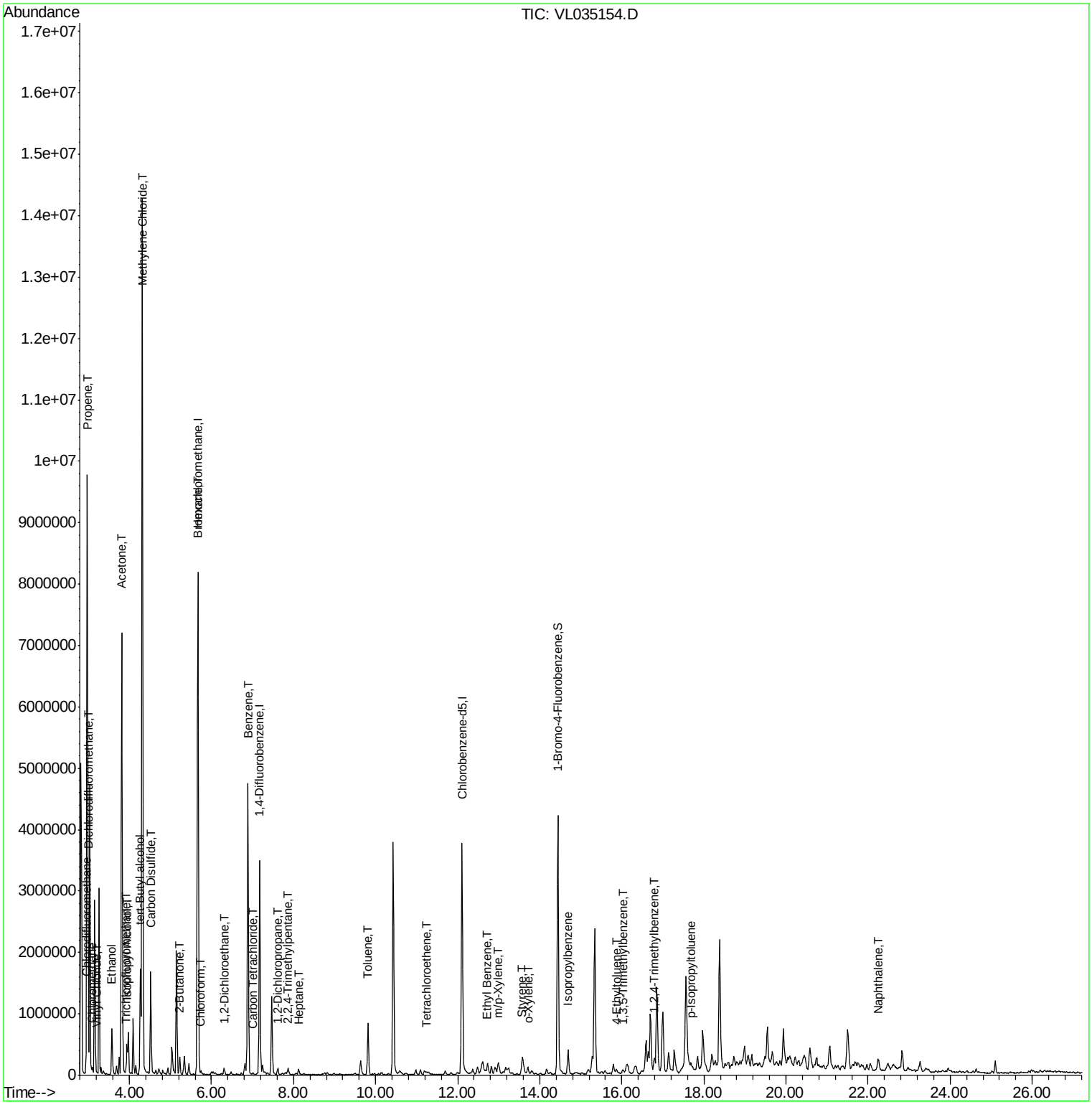
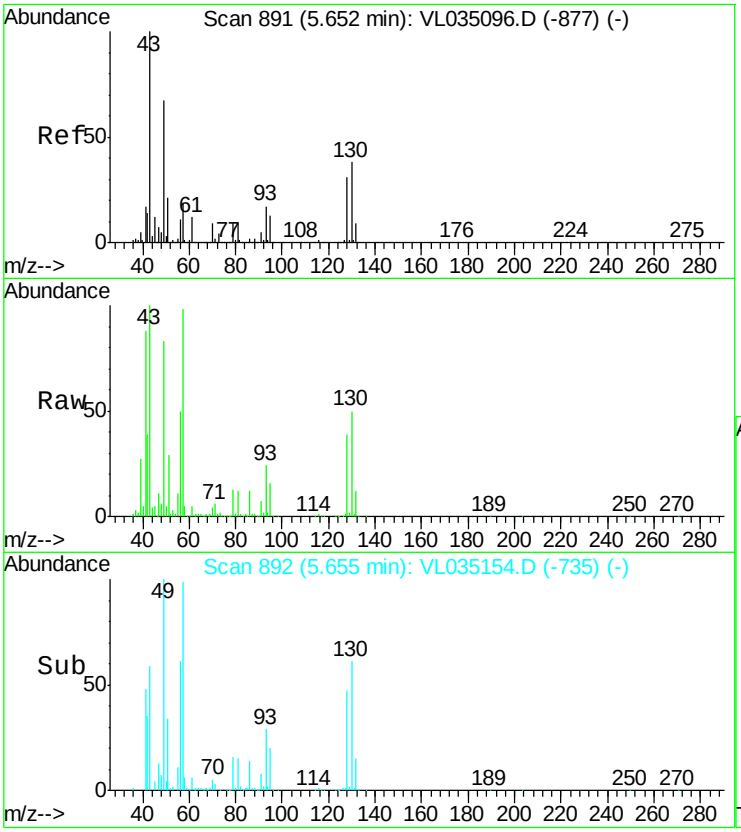
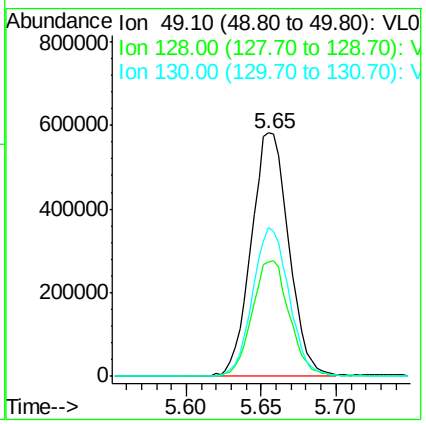




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 892
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 49 Resp: 1015930

Ion	Ratio	Lower	Upper
49	100		
128	47.1	22.9	68.5
130	59.3	29.0	87.0



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
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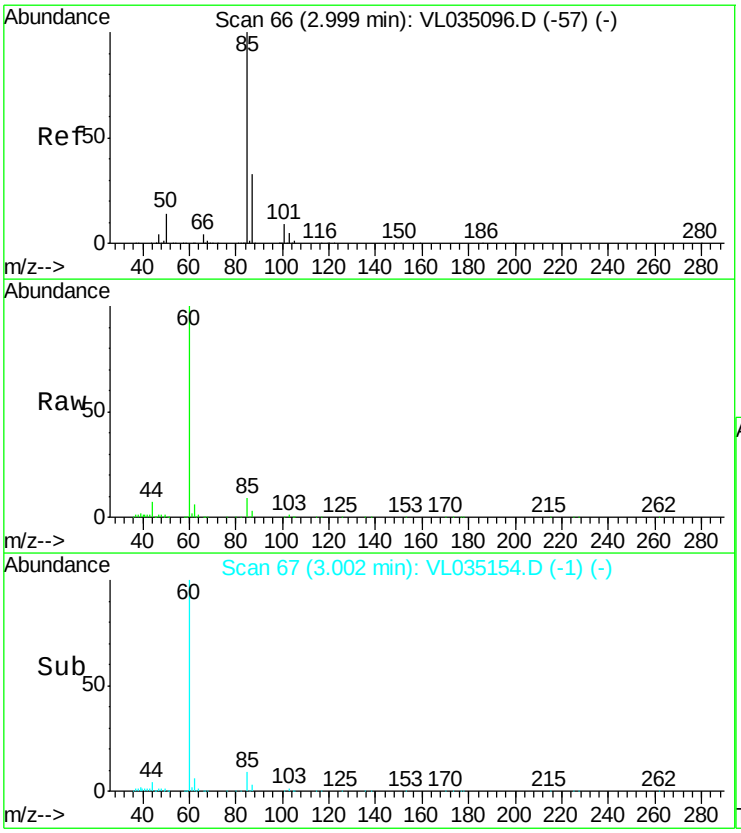
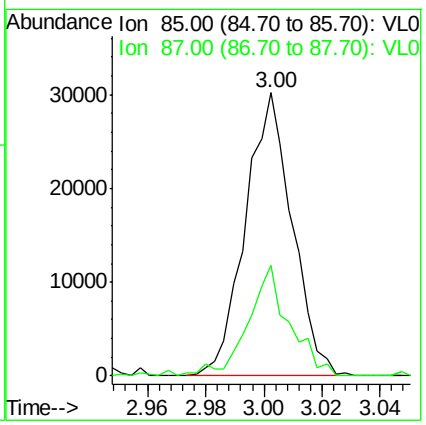
7/9/2020 12:00:58 PM

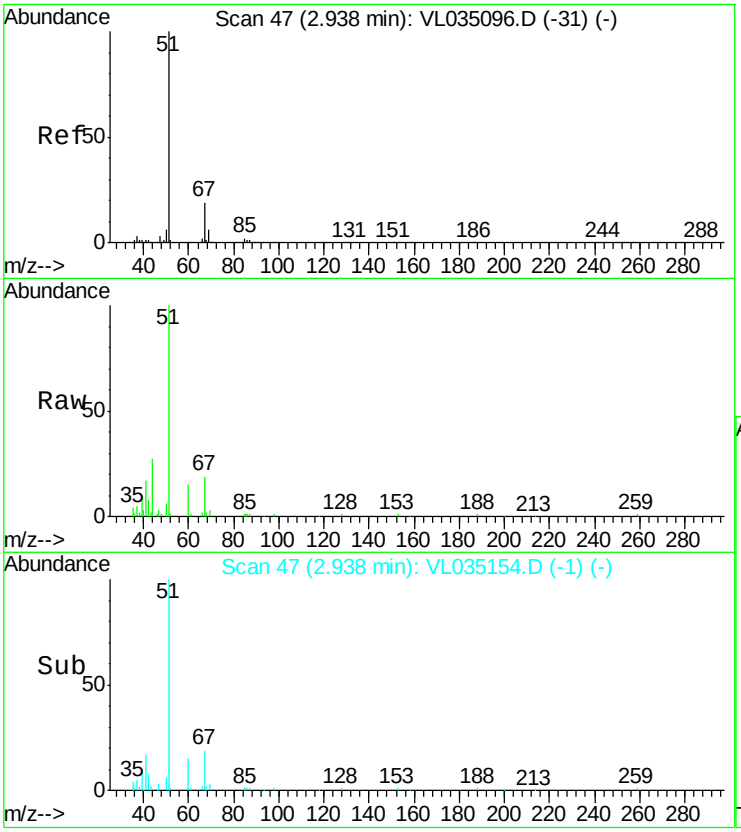


#2
Dichlorodifluoromethane
Concen: 0.246 ppbv
RT: 3.00 min Scan# 67
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 85 Resp: 33781

Ion	Ratio	Lower	Upper
85	100		
87	39.2	26.1	39.1#

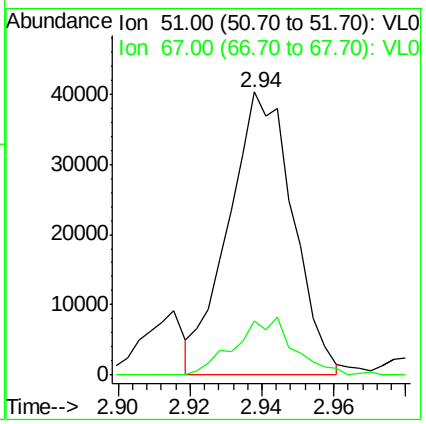




#3
Chlorodifluoromethane
Concen: 0.446 ppbv m
RT: 2.94 min Scan# 47
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 51 Resp: 50012

Ion	Ratio	Lower	Upper
51	100		
67	18.6	15.2	22.8



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
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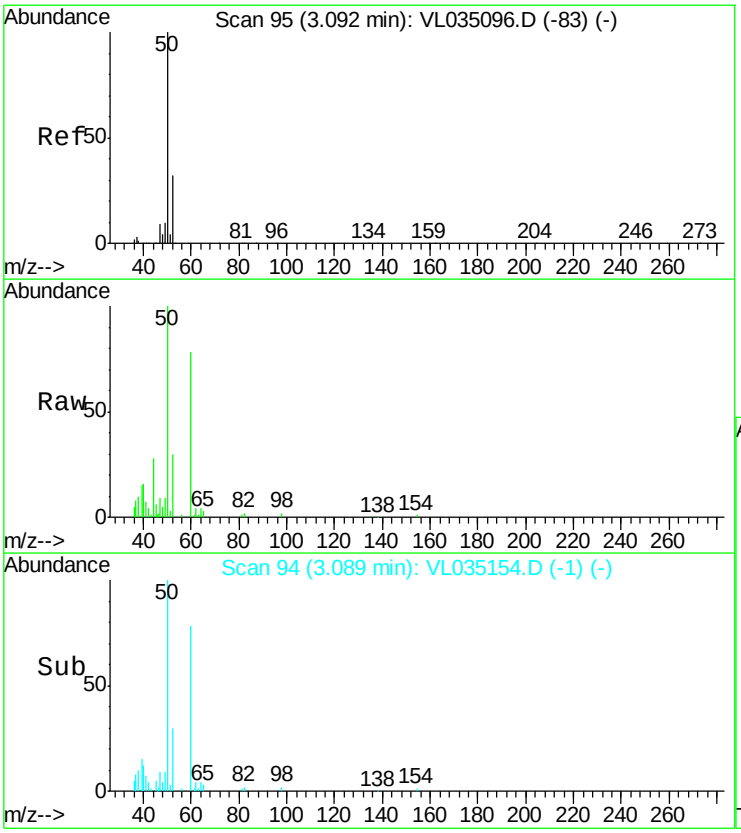
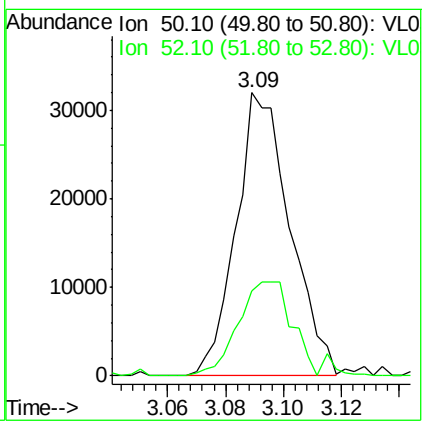
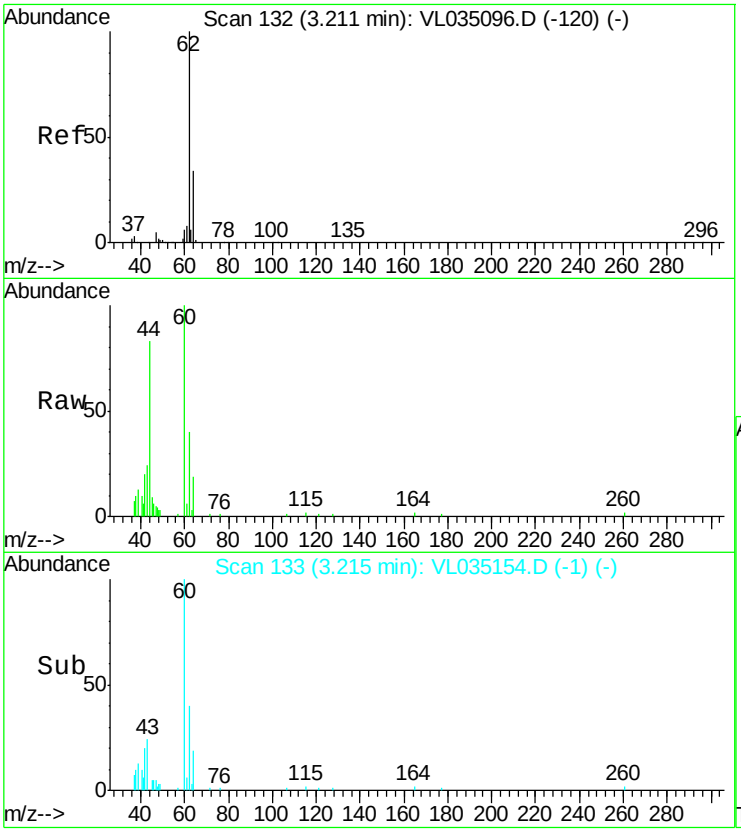


#4
Chloromethane
Concen: 0.658 ppbv
RT: 3.09 min Scan# 94
Delta R.T. -0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 50 Resp: 41409

Ion	Ratio	Lower	Upper
50	100		
52	29.9	25.4	38.0

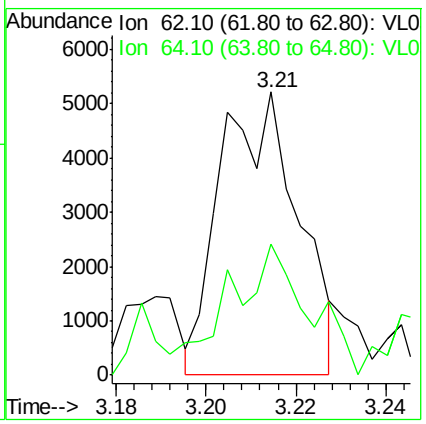




#5
Vinyl Chloride
Concen: 0.105 ppbv m
RT: 3.21 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 62 Resp: 6275

Ion	Ratio	Lower	Upper
62	100		
64	46.3	27.0	40.4#



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
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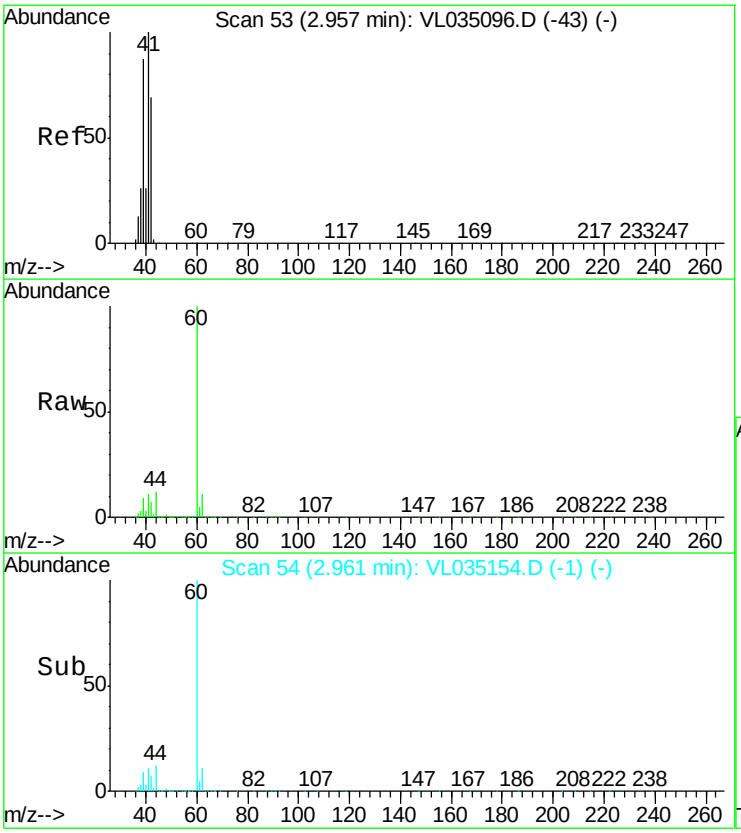
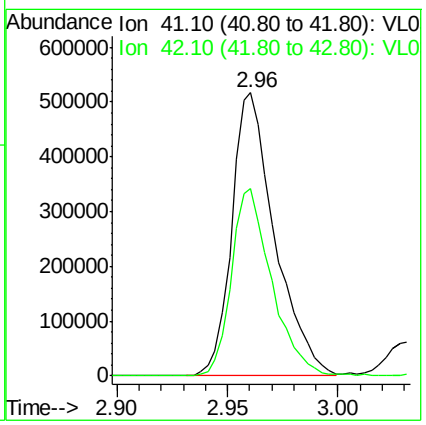
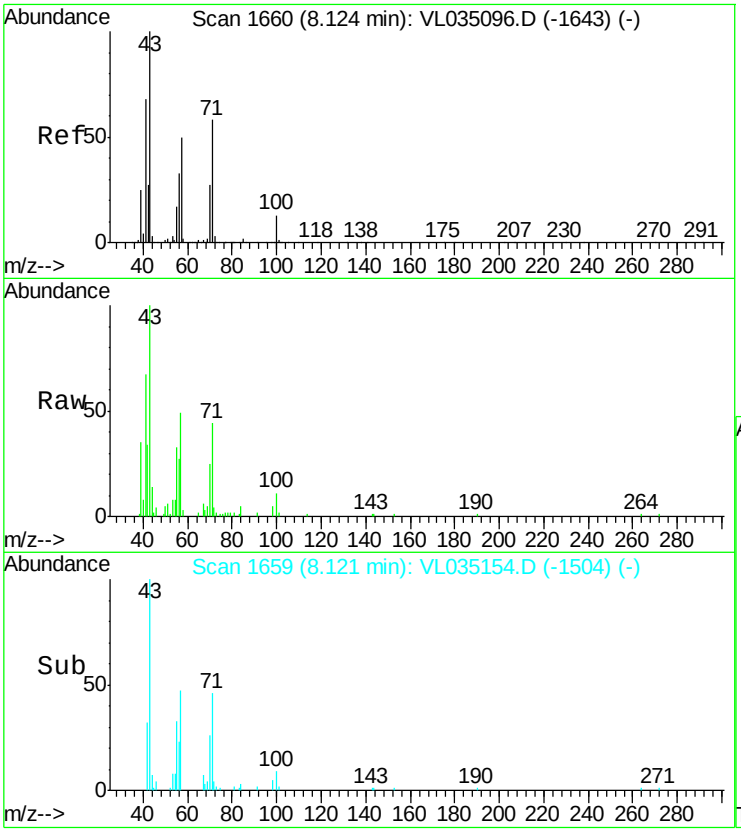


#9
Propene
Concen: 15.741 ppbv
RT: 2.96 min Scan# 54
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 41 Resp: 699532

Ion	Ratio	Lower	Upper
41	100		
42	62.1	55.8	83.6

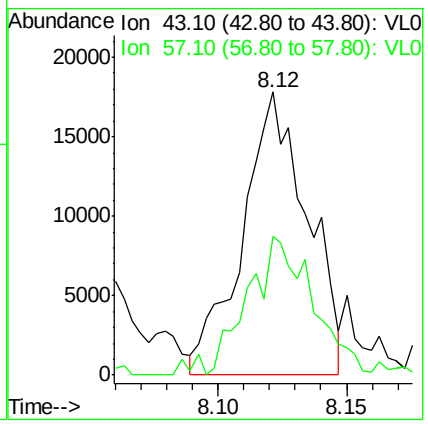




#10
Heptane
Concen: 0.272 ppbv m
RT: 8.12 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 43 Resp: 31348

Ion	Ratio	Lower	Upper
43	100		
57	51.7	41.9	62.9



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
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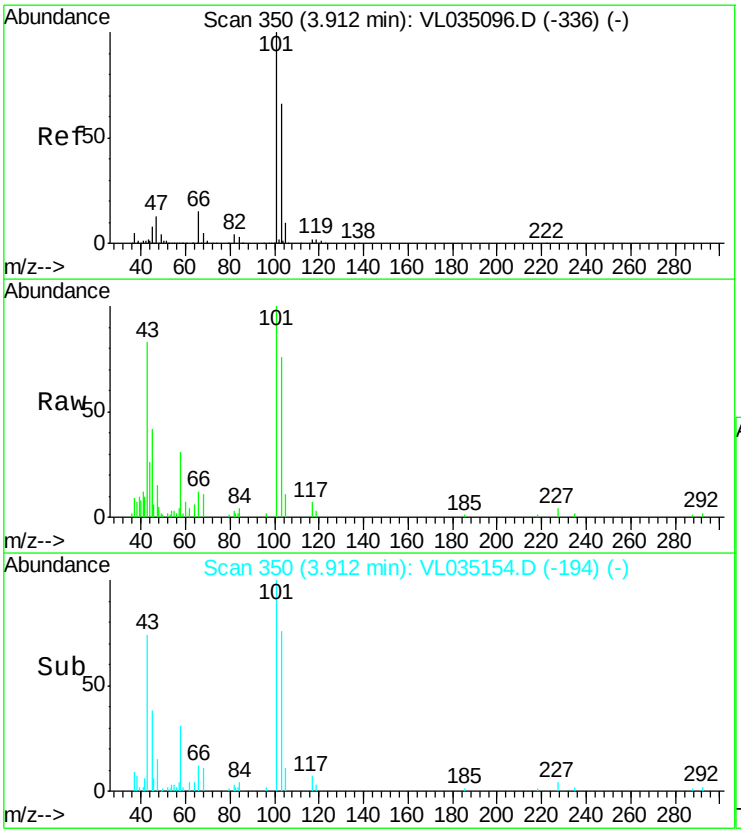
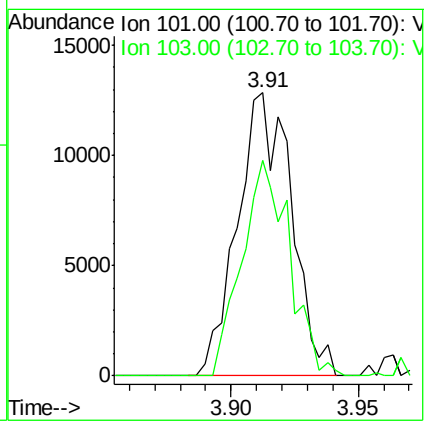
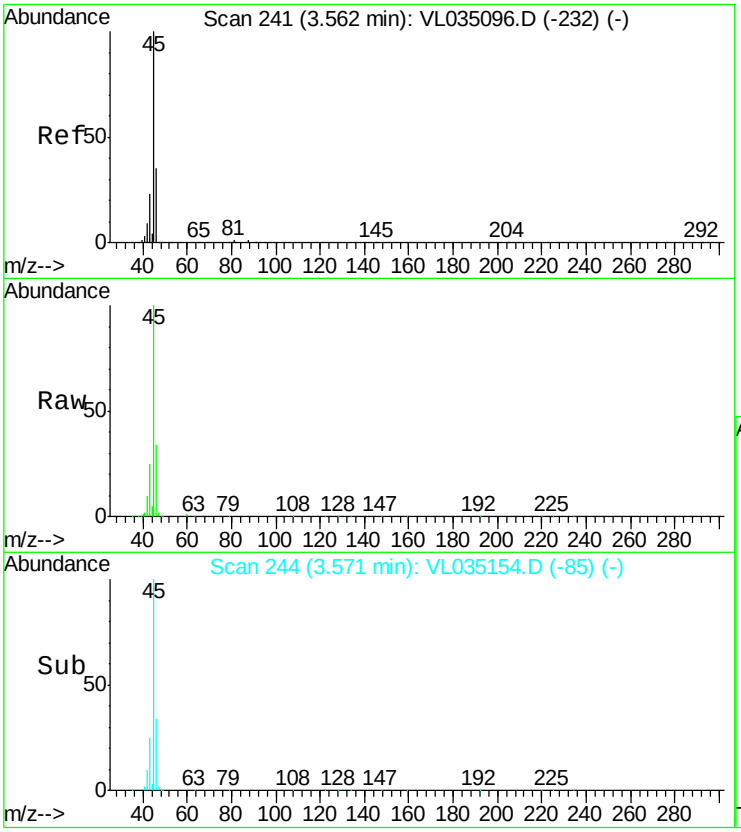


#11
Trichlorofluoromethane
Concen: 0.129 ppbv m
RT: 3.91 min Scan# 350
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:101 Resp: 18895

Ion	Ratio	Lower	Upper
101	100		
103	76.3	52.6	79.0

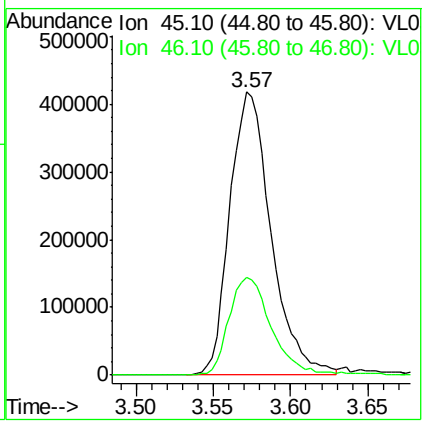




#13
Ethanol
Concen: 46.063 ppbv
RT: 3.57 min Scan# 244
Delta R.T. 0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 45 Resp: 773313

Ion	Ratio	Lower	Upper
45	100		
46	36.0	14.2	57.0



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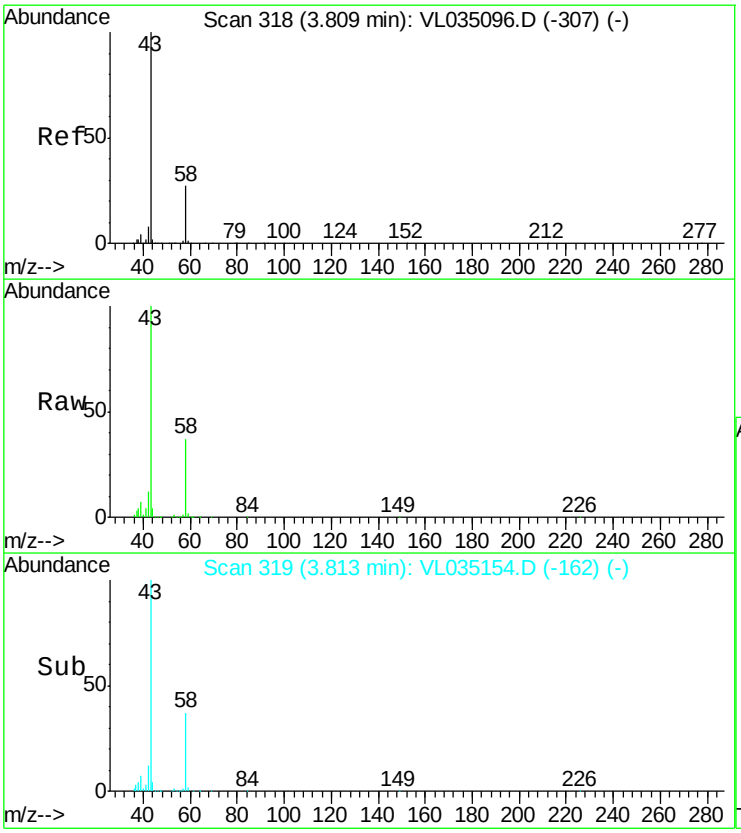
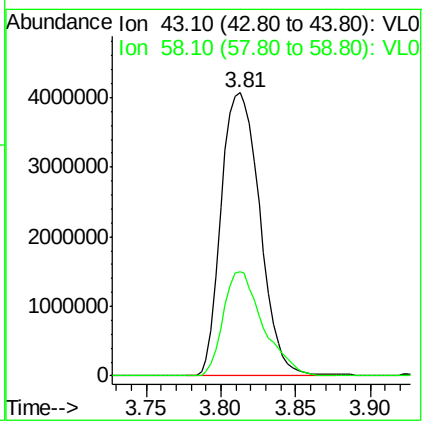
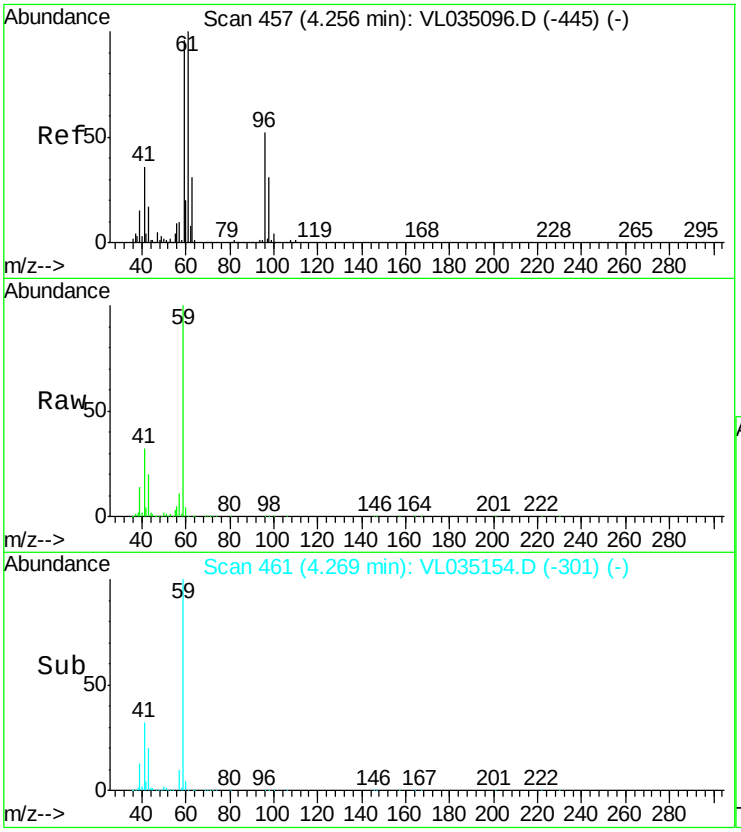


#15
Acetone
Concen: 59.685 ppbv
RT: 3.81 min Scan# 319
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 43 Resp: 7330986

Ion	Ratio	Lower	Upper
43	100		
58	38.1	21.8	32.6#

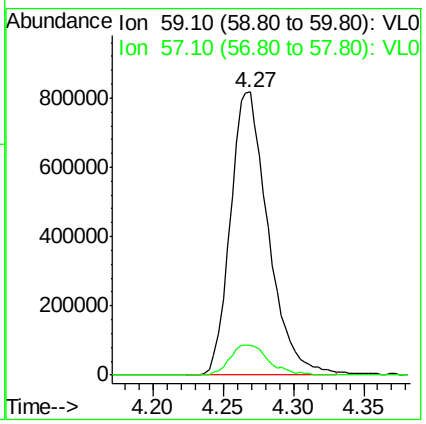




#17
tert-Butyl alcohol
Concen: 14.078 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 59 Resp: 1532470

Ion	Ratio	Lower	Upper
59	100		
57	11.3	8.6	12.8



Instrument :
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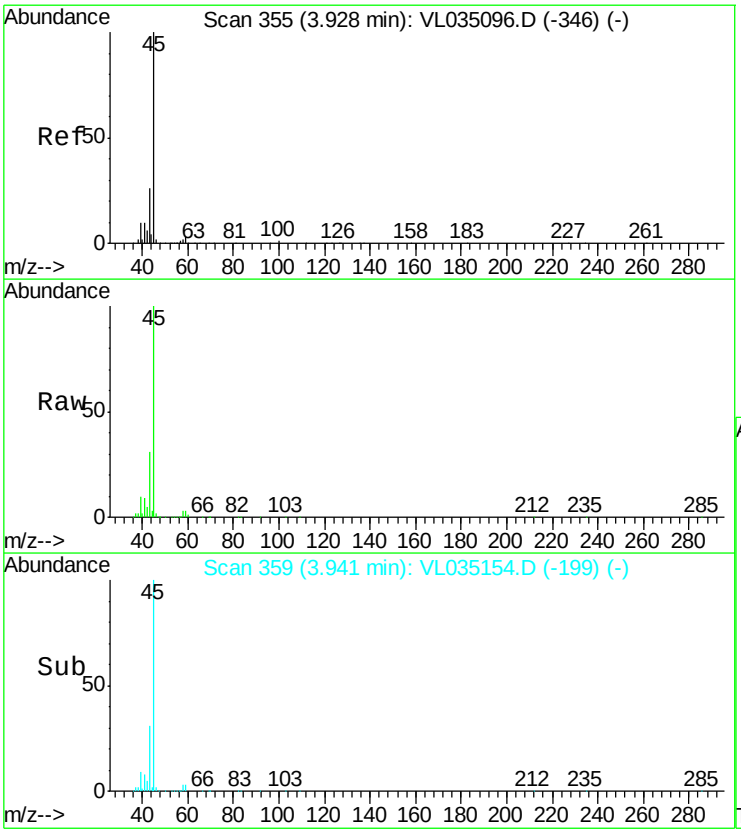
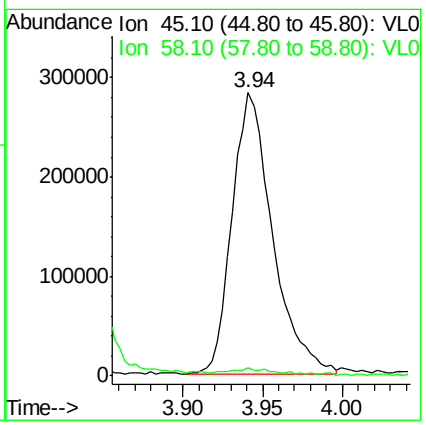
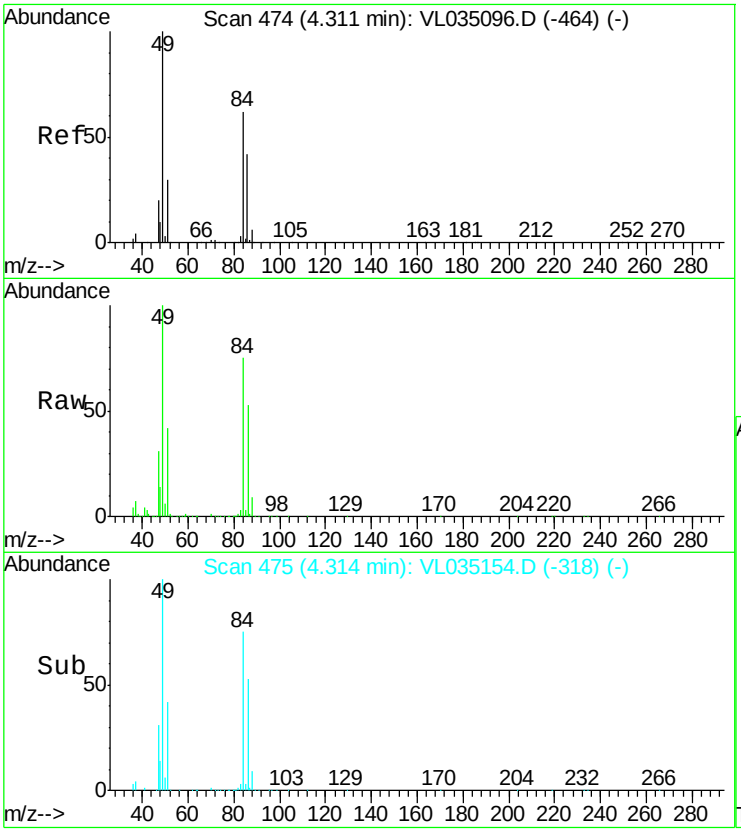


#19
Isopropyl Alcohol
Concen: 6.147 ppbv
RT: 3.94 min Scan# 359
Delta R.T. 0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 45 Resp: 490214

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.8	2.8#

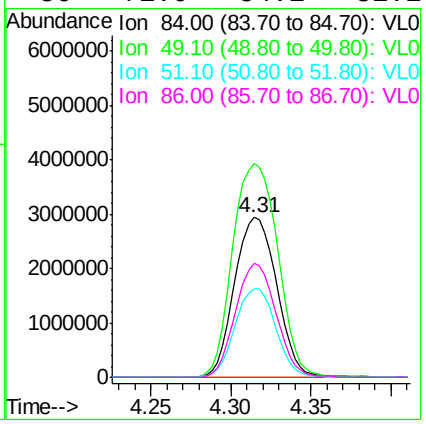




#20
Methylene Chloride
Concen: 106.486 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 84 Resp: 5293586

Ion	Ratio	Lower	Upper
84	100		
49	133.5	128.8	193.2
51	55.3	38.7	58.1
86	71.0	54.1	81.1



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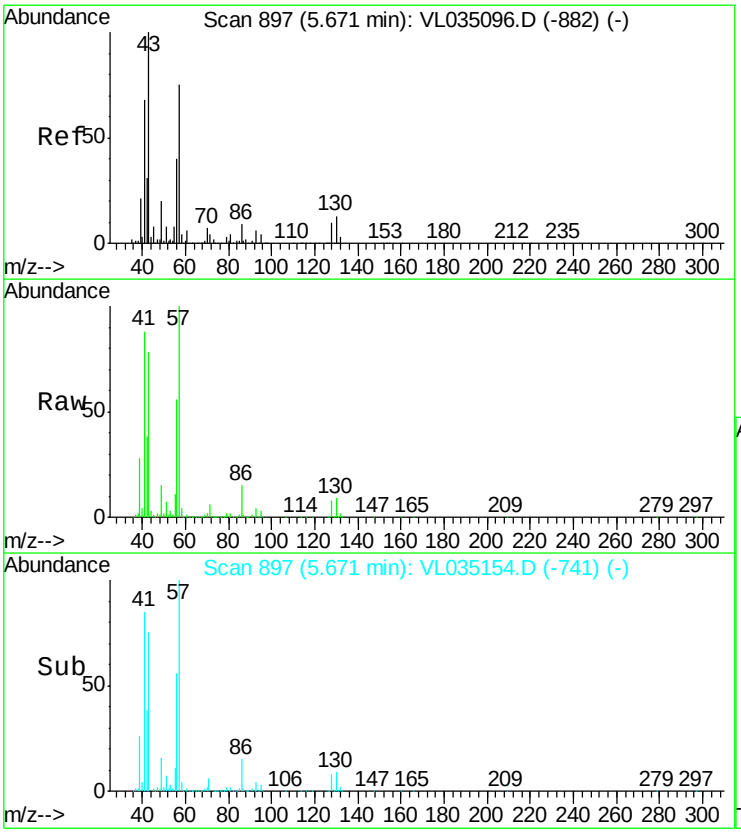
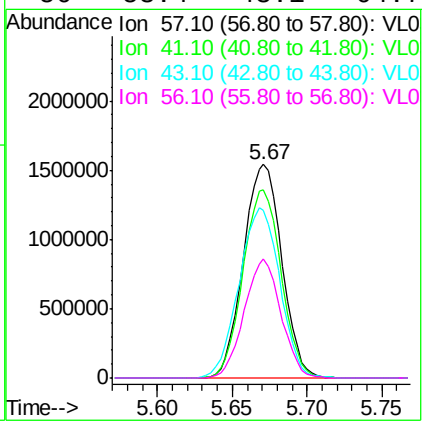
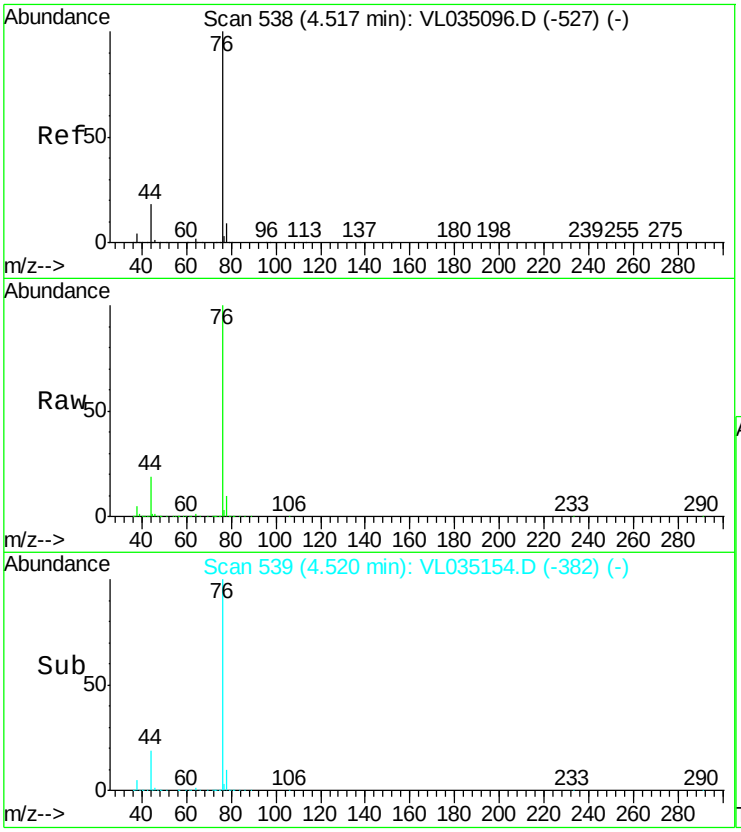


#26
Hexane
Concen: 27.584 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 57 Resp: 2756780

Ion	Ratio	Lower	Upper
57	100		
41	87.9	72.9	109.3
43	85.1	181.3	271.9#
56	53.4	43.1	64.7

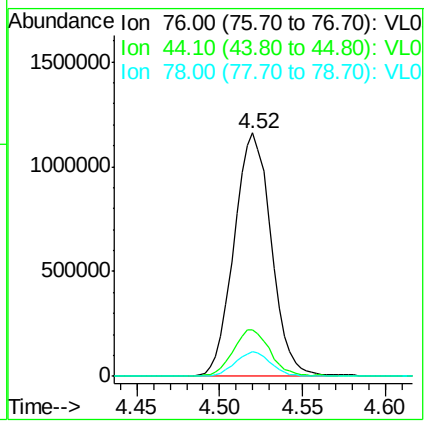




#27
Carbon Disulfide
Concen: 17.524 ppbv
RT: 4.52 min Scan# 539
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

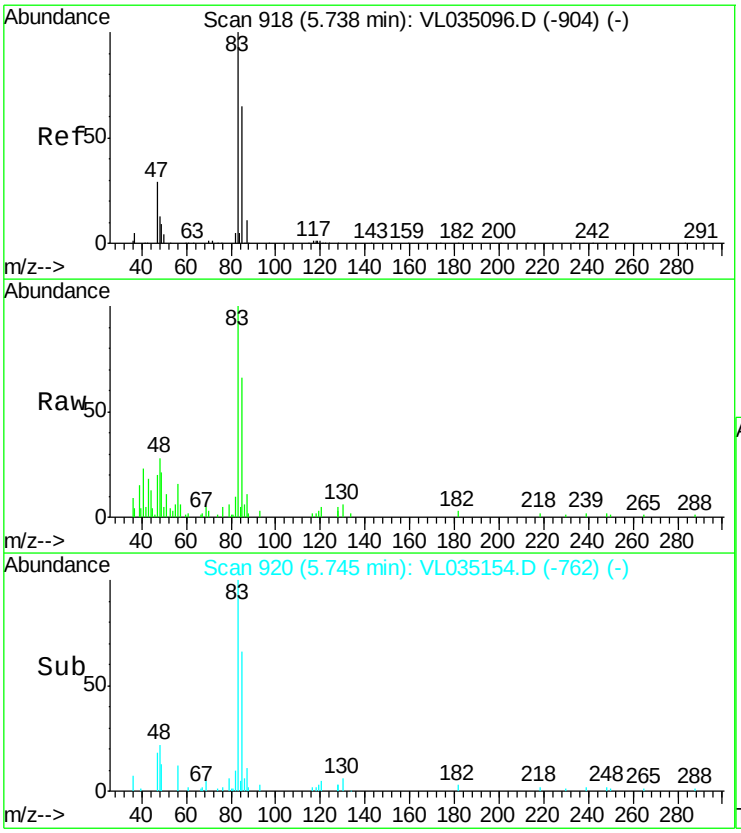
Tgt Ion: 76 Resp: 1812467

Ion	Ratio	Lower	Upper
76	100		
44	18.6	15.8	23.8
78	9.6	7.6	11.4



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

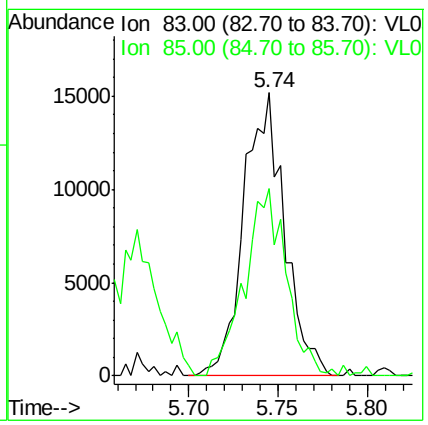
Manual Integrations APPROVED
MMDadoda
7/9/2020 12:00:58 PM

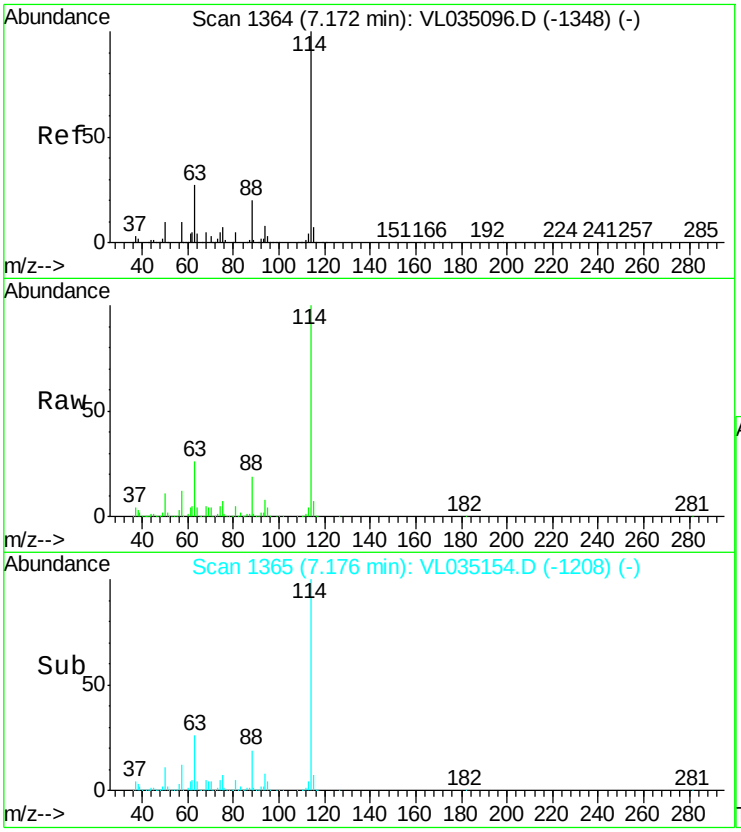


#29
Chloroform
Concen: 0.155 ppbv
RT: 5.74 min Scan# 920
Delta R.T. 0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 83 Resp: 24245

Ion	Ratio	Lower	Upper
83	100		
85	68.5	52.1	78.1

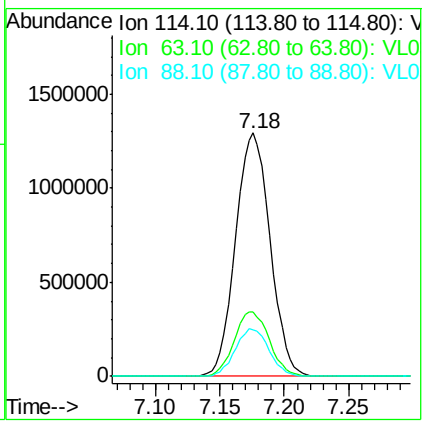




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:114 Resp: 2415115

Ion	Ratio	Lower	Upper
114	100		
63	27.1	21.9	32.9
88	19.2	15.6	23.4



Instrument :
MSVOA_L
ClientSampleId :
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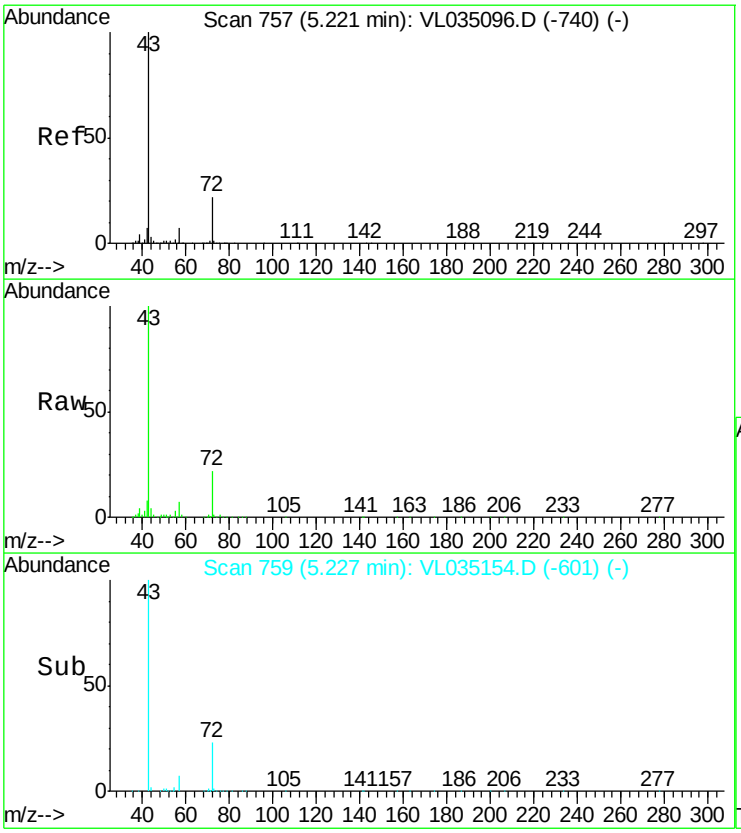
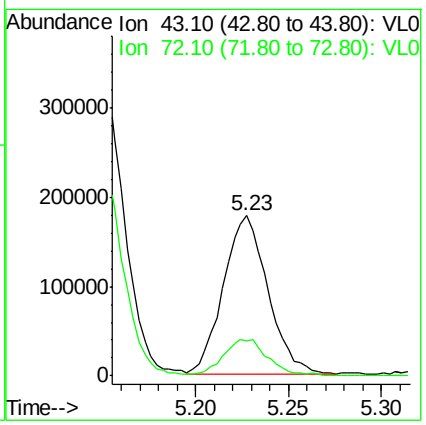
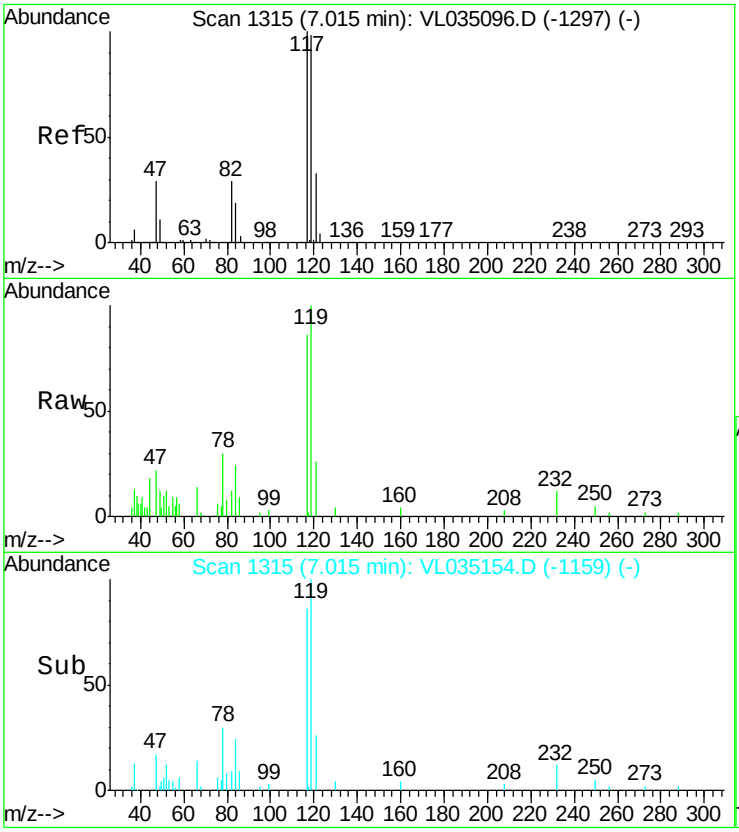


#34
2-Butanone
Concen: 2.134 ppbv
RT: 5.23 min Scan# 759
Delta R.T. 0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 43 Resp: 295956

Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.3	27.5

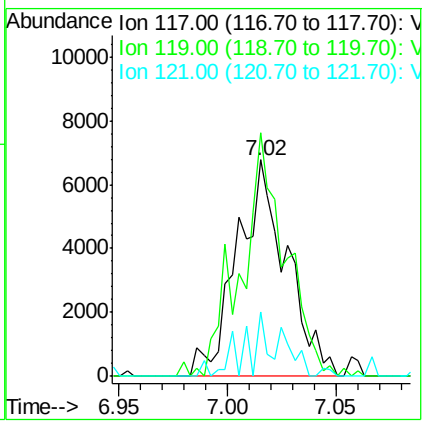




#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 7.02 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:117 Resp: 10707

Ion	Ratio	Lower	Upper
117	100		
119	115.6	78.3	117.5
121	30.4	26.0	39.0



Instrument :
MSVOA_L
ClientSampleId :
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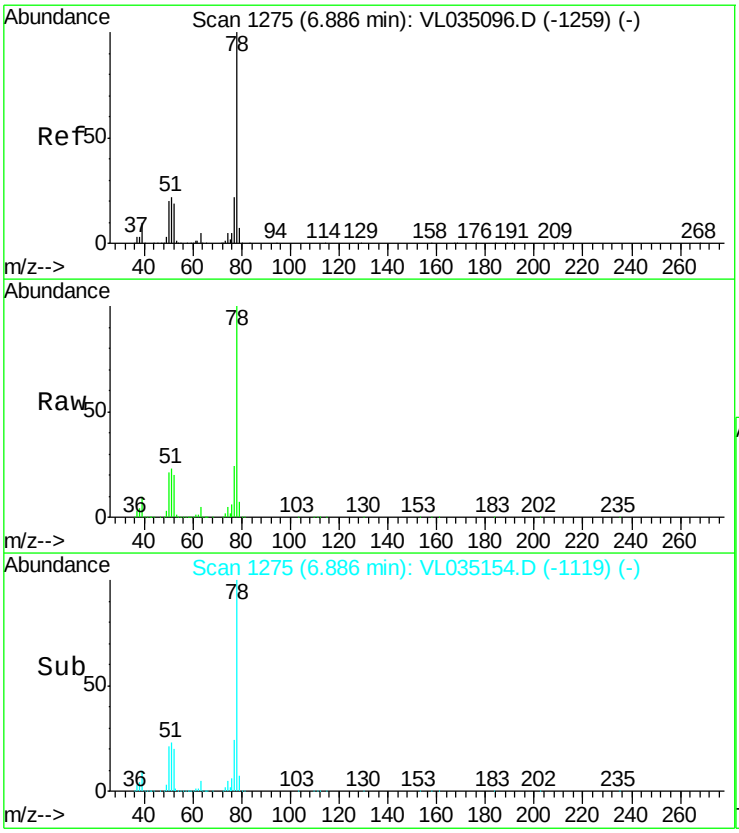
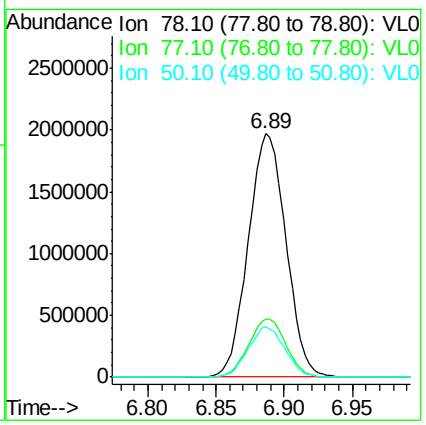
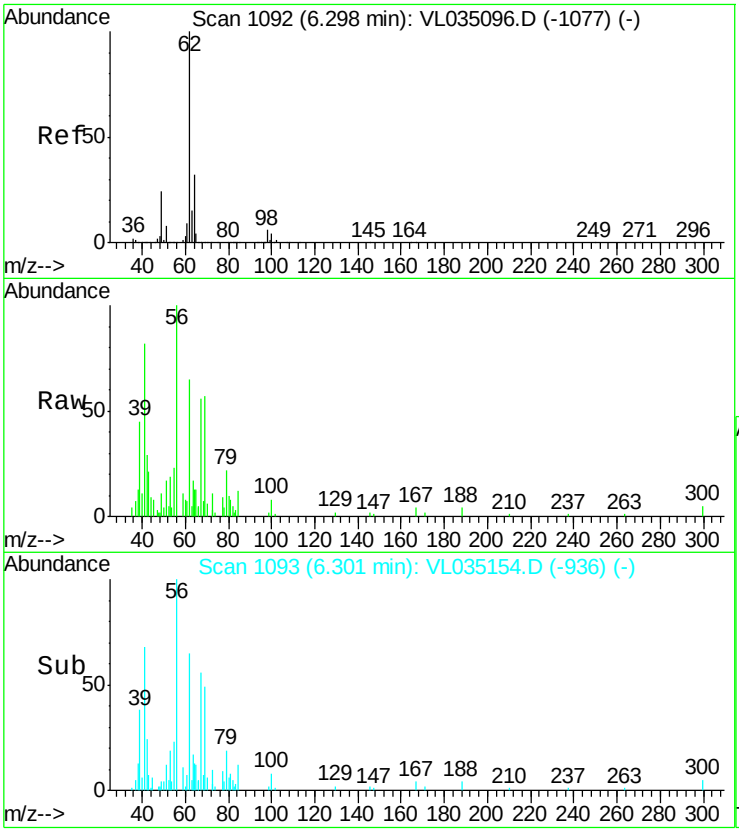


#36
Benzene
Concen: 20.192 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 78 Resp: 3776157

Ion	Ratio	Lower	Upper
78	100		
77	24.0	17.8	26.6
50	20.7	16.2	24.2

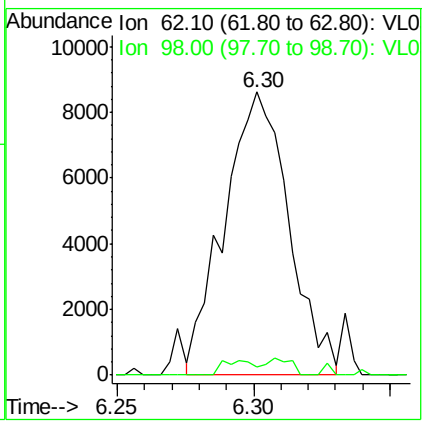




#37
1,2-Dichloroethane
Concen: 0.120 ppbv
RT: 6.30 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 62 Resp: 14164

Ion	Ratio	Lower	Upper
62	100		
98	5.3	4.8	7.2



Instrument :
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ClientSampleId :
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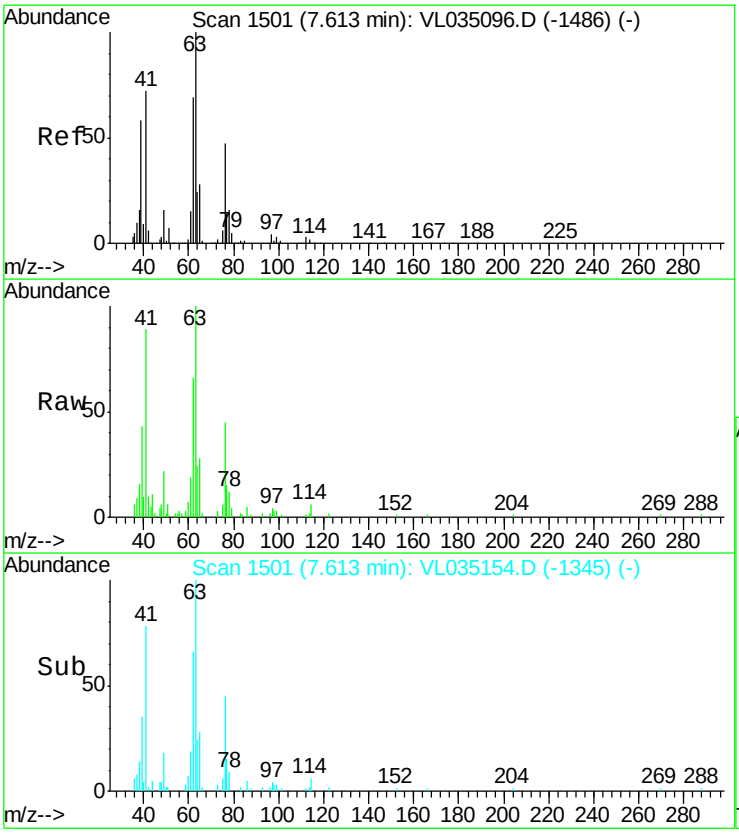
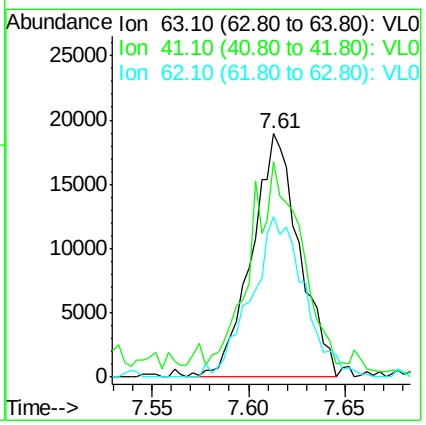
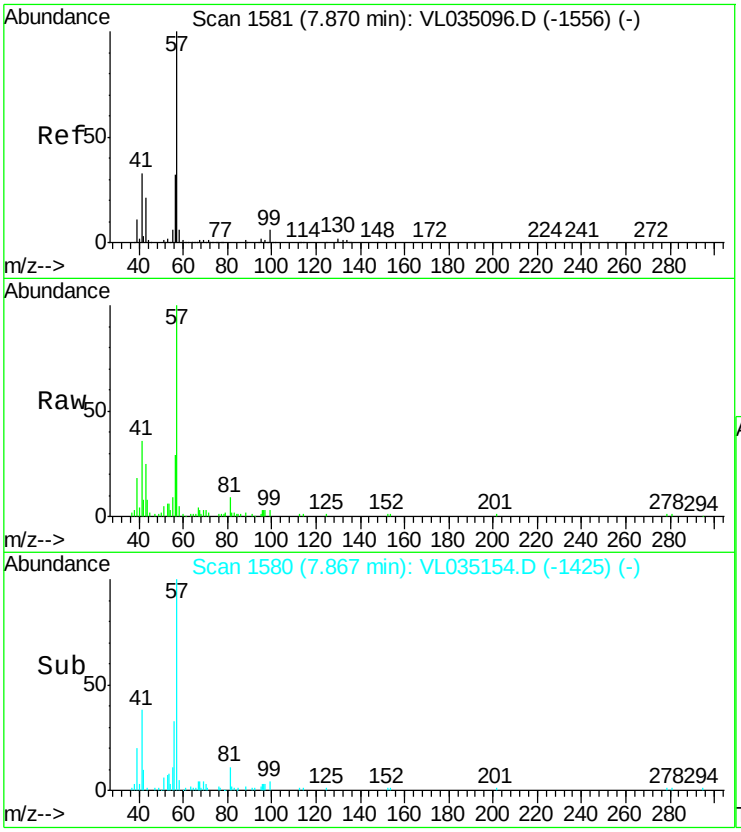


#39
1,2-Dichloropropane
Concen: 0.442 ppbv
RT: 7.61 min Scan# 1501
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 63 Resp: 32321

Ion	Ratio	Lower	Upper
63	100		
41	83.4	58.0	87.0
62	66.0	55.4	83.0

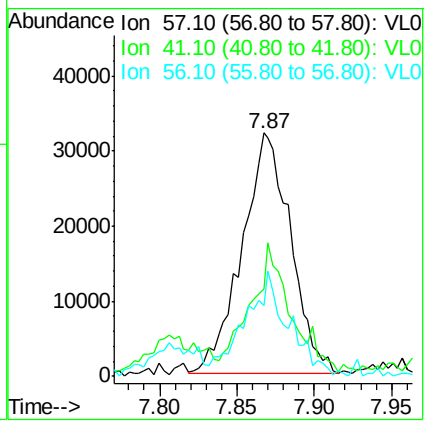




#44
2,2,4-Trimethylpentane
Concen: 0.214 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. -0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 57 Resp: 69771

Ion	Ratio	Lower	Upper
57	100		
41	42.8	26.2	39.2#
56	41.7	25.4	38.2#



Instrument :
MSVOA_L
ClientSampleId :
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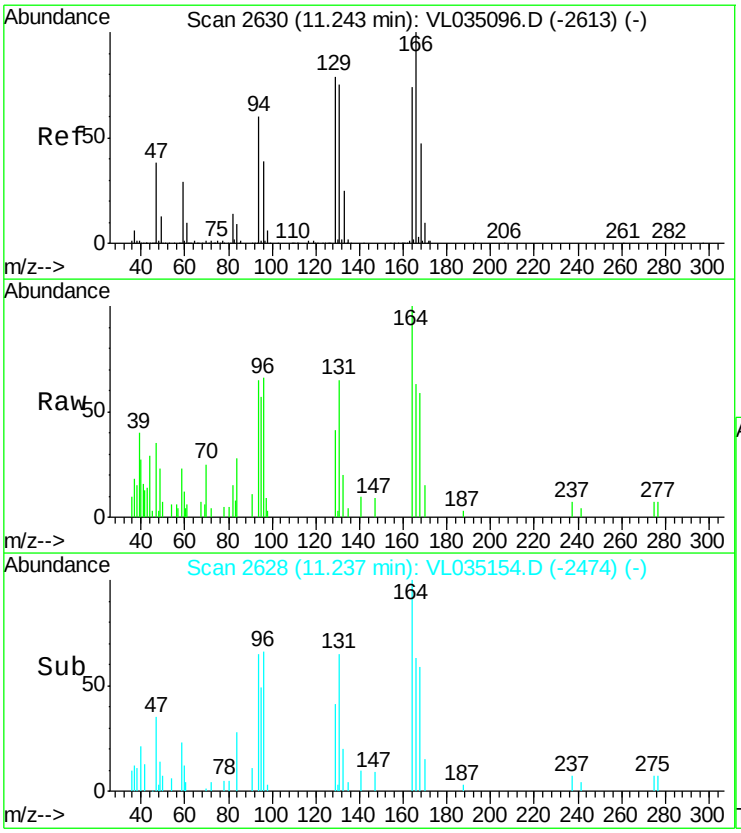
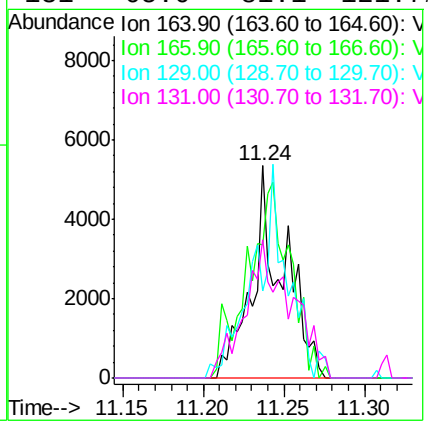
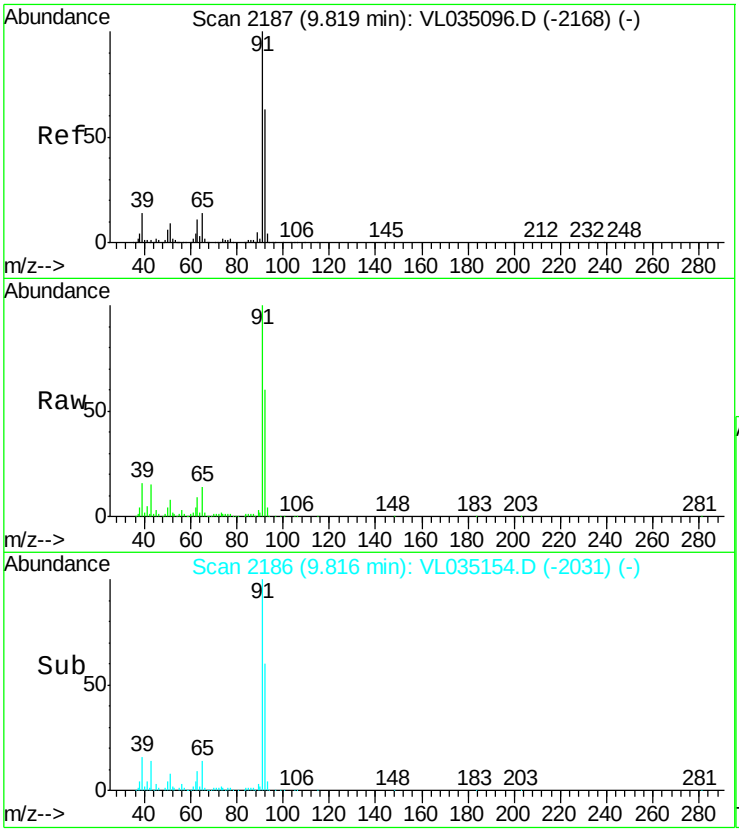


#52
Tetrachloroethene
Concen: 0.112 ppbv m
RT: 11.24 min Scan# 2628
Delta R.T. -0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:164 Resp: 7370

Ion	Ratio	Lower	Upper
164	100		
166	62.5	107.5	161.3#
129	41.2	84.9	127.3#
131	65.0	81.1	121.7#

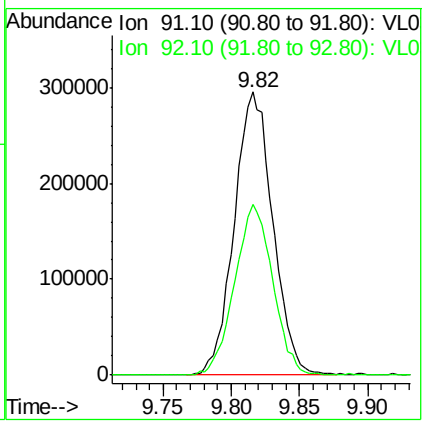




#53
Toluene
Concen: 2.899 ppbv
RT: 9.82 min Scan# 2186
Delta R.T. -0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 91 Resp: 578290

Ion	Ratio	Lower	Upper
91	100		
92	59.5	49.0	73.6



Instrument :
MSVOA_L
ClientSampleId :
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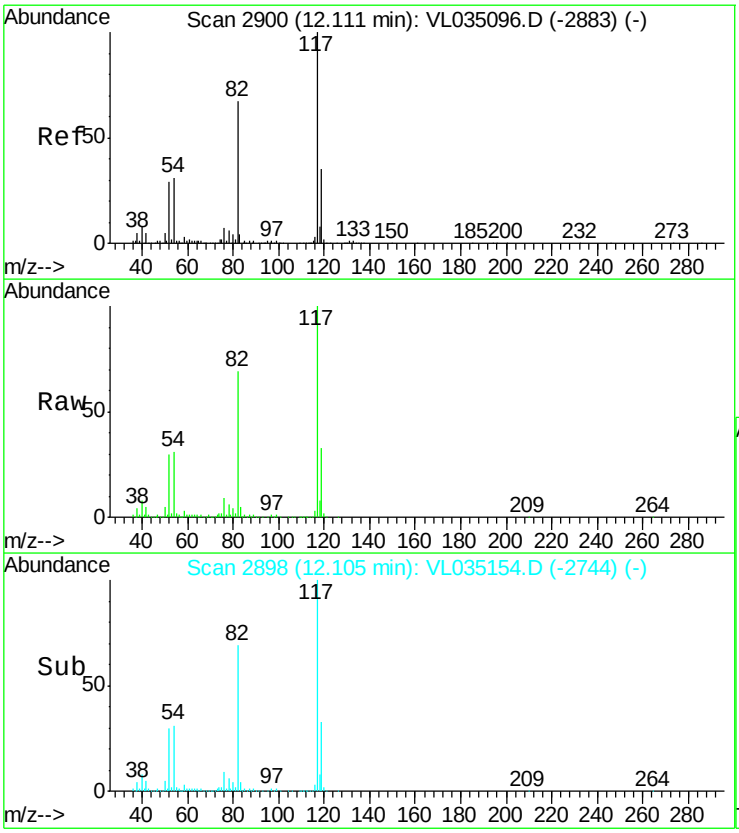
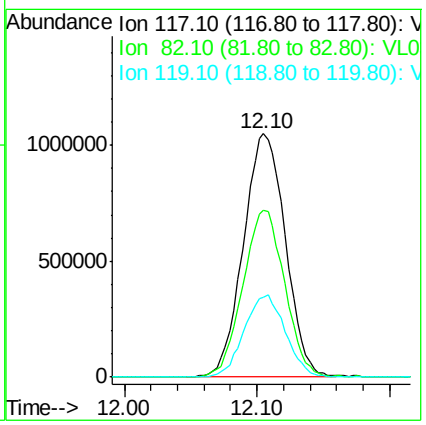
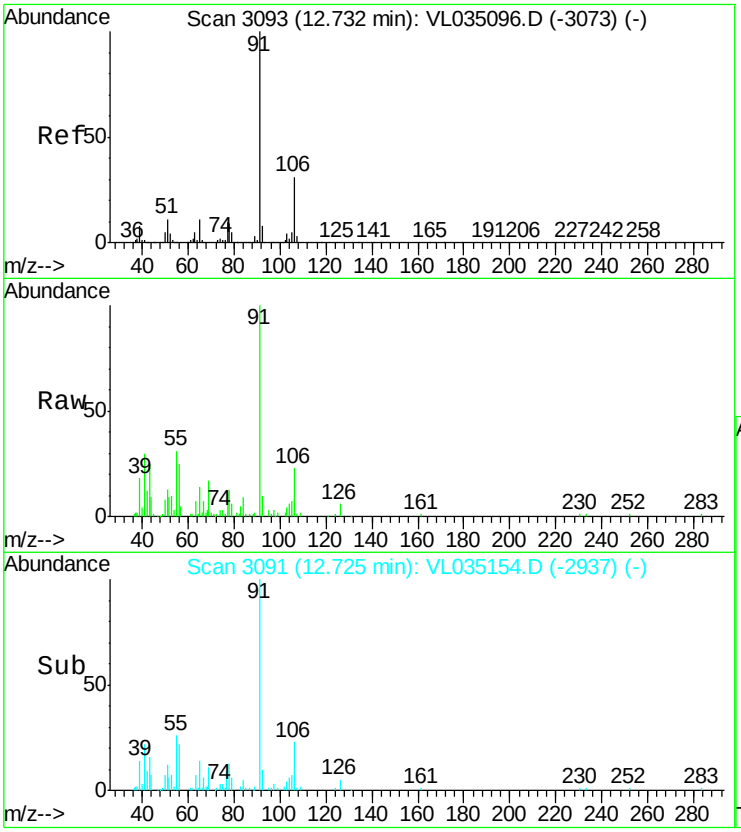


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:117 Resp: 2310395

Ion	Ratio	Lower	Upper
117	100		
82	68.5	50.4	75.6
119	33.3	25.4	38.0





#58
Ethyl Benzene
Concen: 0.315 ppbv m
RT: 12.73 min Scan# 3091
Delta R.T. -0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 91 Resp: 81807

Ion	Ratio	Lower	Upper
91	100		
106	22.6	25.0	37.6#

Instrument :
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ClientSampleId :
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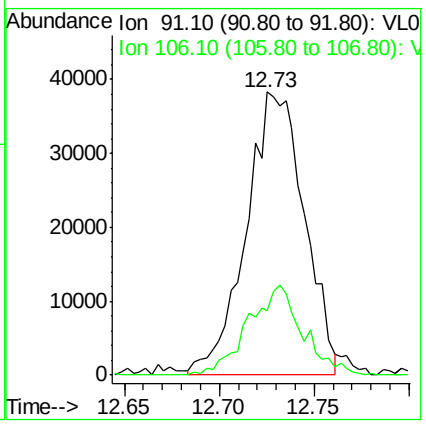
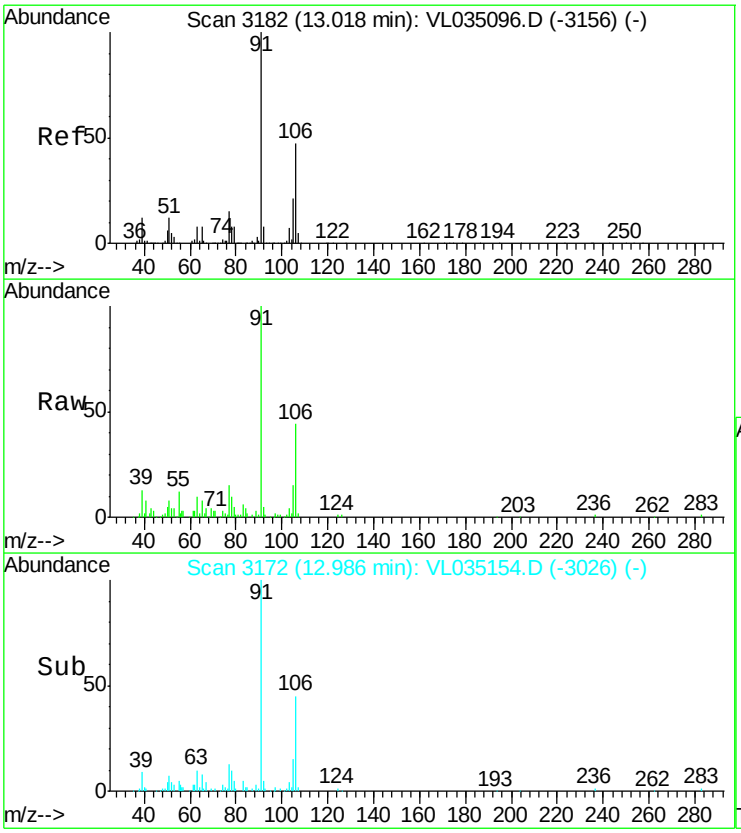
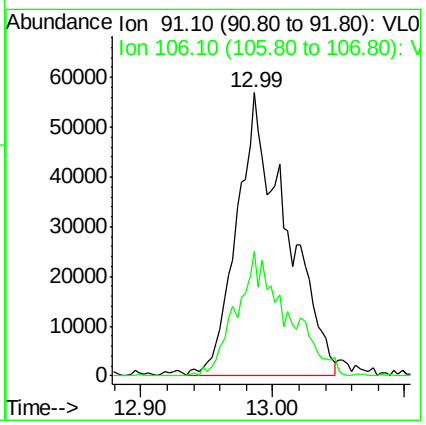


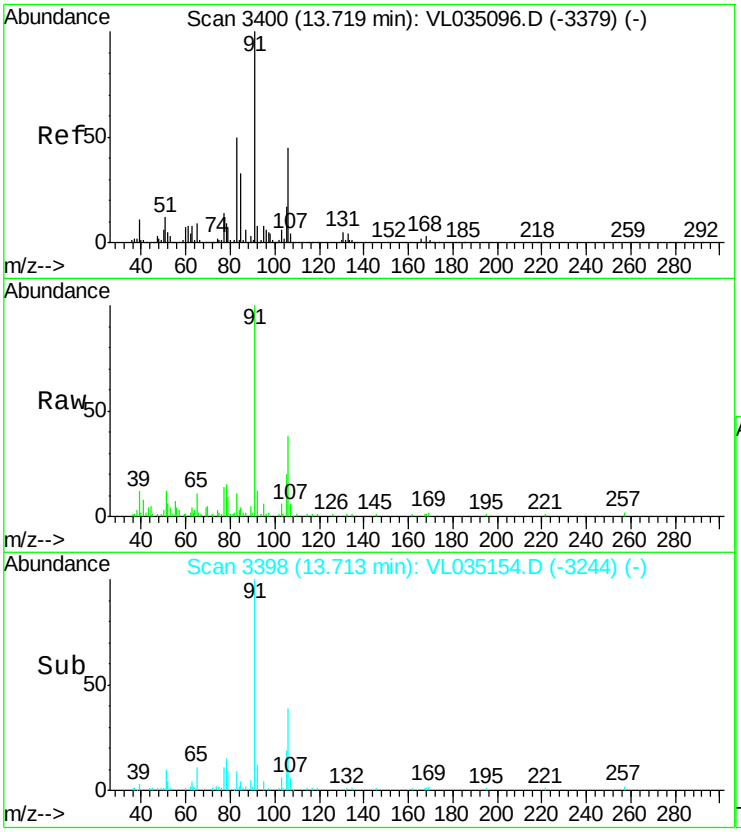


#59
m/p-Xylene
Concen: 0.647 ppbv m
RT: 12.99 min Scan# 3172
Delta R.T. -0.03 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 91 Resp: 148880

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.5	54.7#

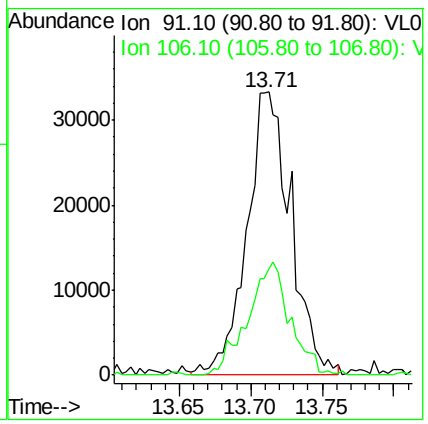




#60
o-Xylene
Concen: 0.312 ppbv m
RT: 13.71 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 91 Resp: 71390

Ion	Ratio	Lower	Upper
91	100		
106	38.7	22.1	66.5



Instrument :
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ClientSampleId :
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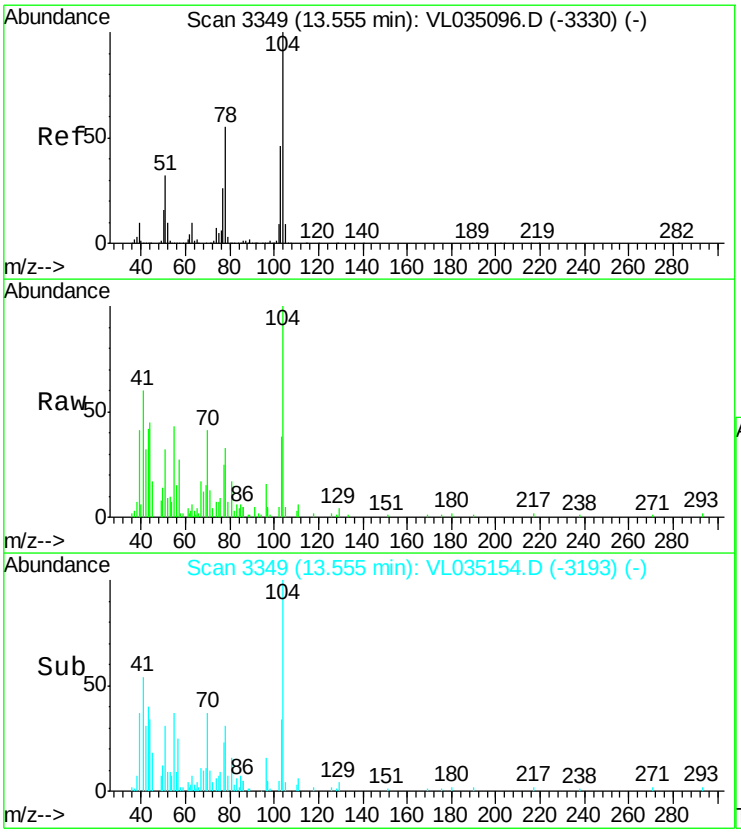
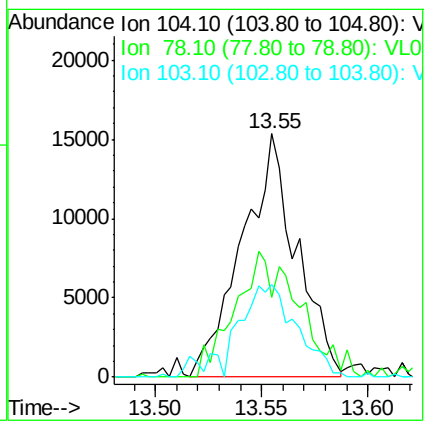
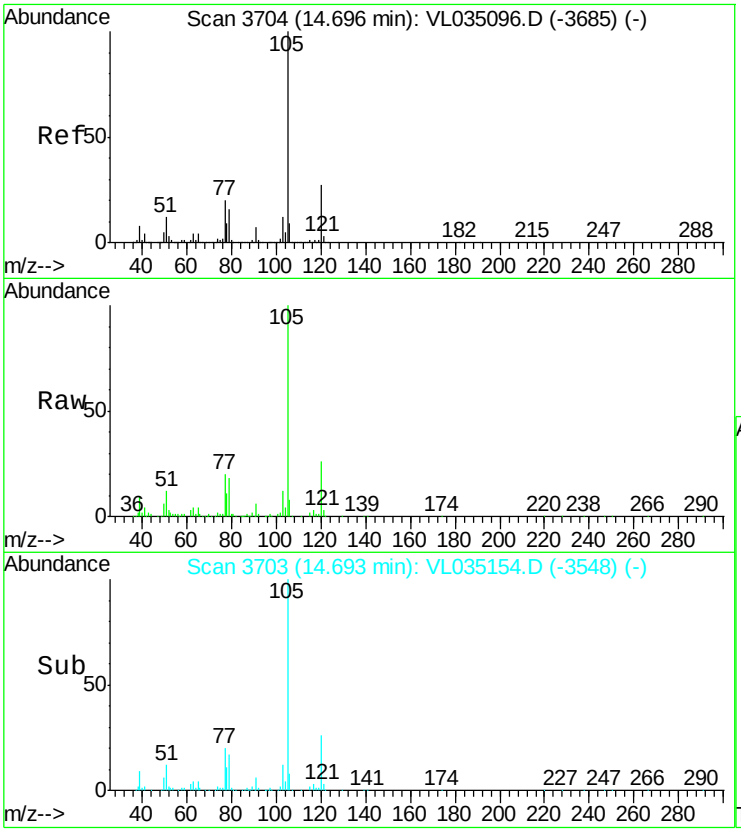


#61
Styrene
Concen: 0.190 ppbv m
RT: 13.55 min Scan# 3349
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:104 Resp: 27453

Ion	Ratio	Lower	Upper
104	100		
78	60.5	43.4	65.0
103	0.0	38.3	57.5#





#62
Isopropylbenzene
Concen: 0.926 ppbv
RT: 14.69 min Scan# 3703
Delta R.T. -0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:105 Resp: 316349

Ion	Ratio	Lower	Upper
105	100		
120	24.4	20.8	31.2

Instrument :
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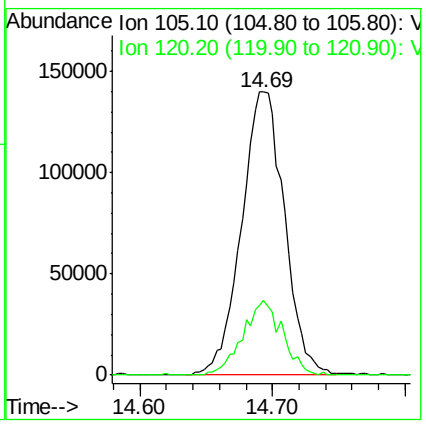
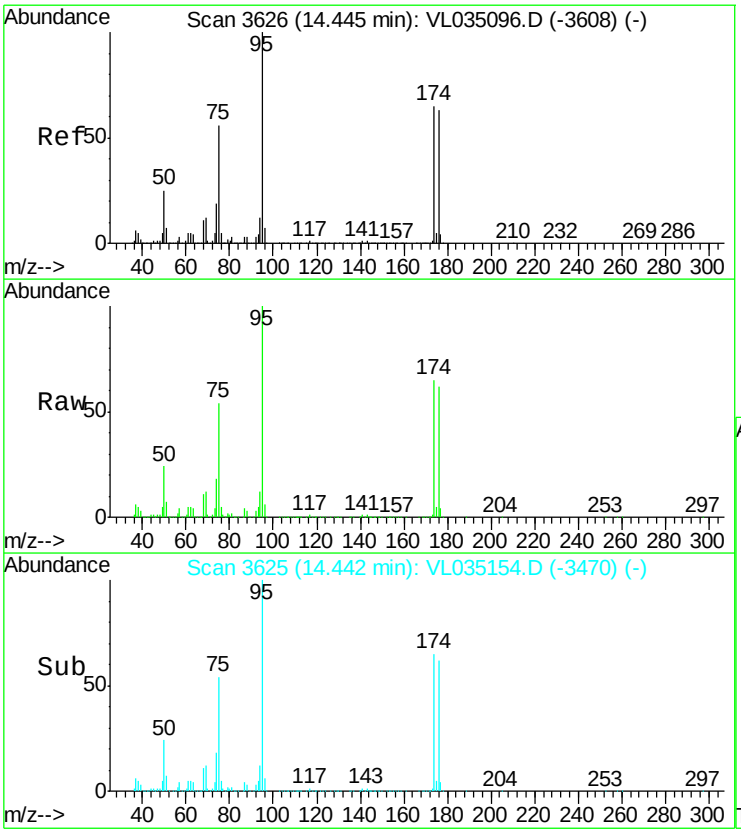
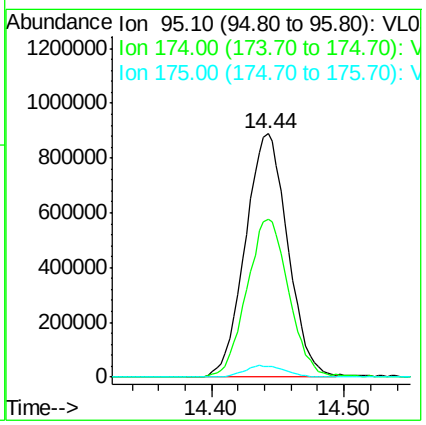


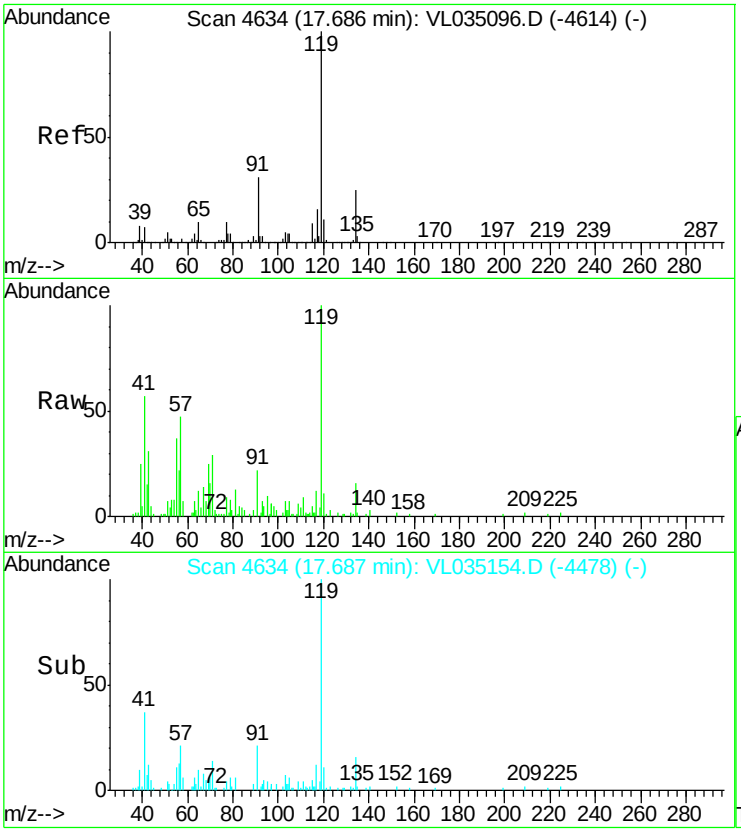


#68
1-Bromo-4-Fluorobenzene
Concen: 10.324 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion: 95 Resp: 1981437

Ion	Ratio	Lower	Upper
95	100		
174	64.8	52.2	78.2
175	4.6	4.0	6.0

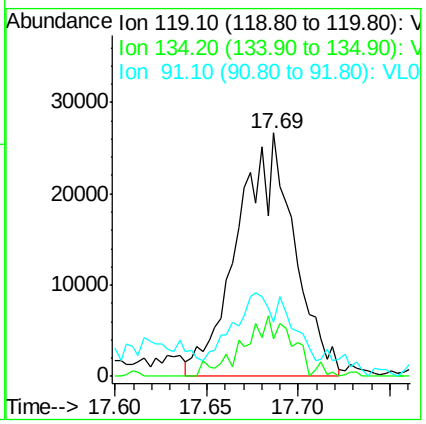




#69
p-Isopropyltoluene
Concen: 0.171 ppbv m
RT: 17.69 min Scan# 4634
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:119 Resp: 57163

Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.4	30.6#
91	45.8	24.5	36.7#



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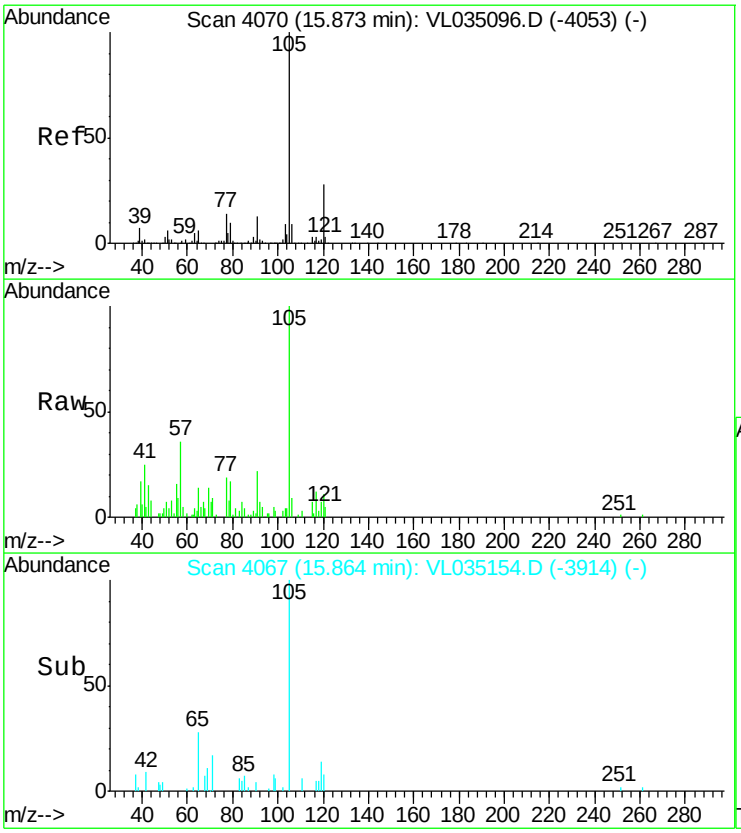
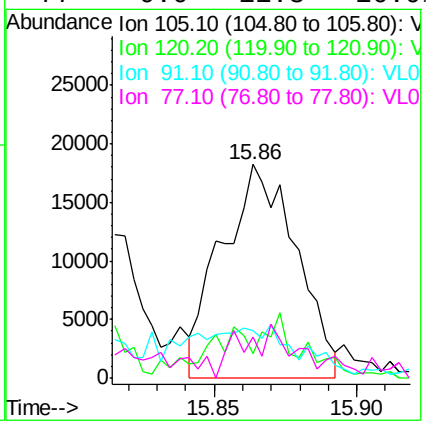
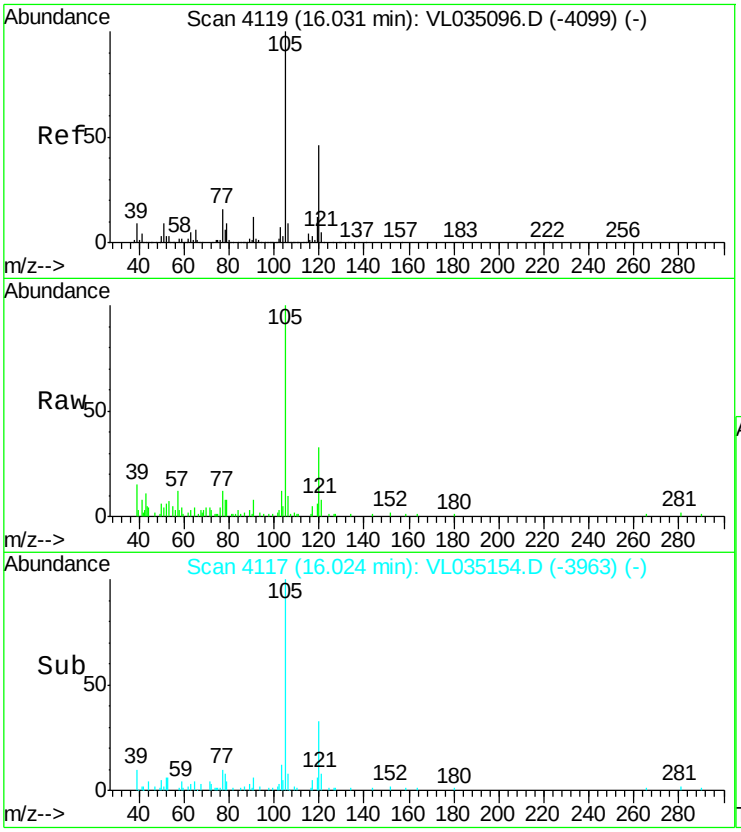


#72
4-Ethyltoluene
Concen: 0.131 ppbv m
RT: 15.86 min Scan# 4067
Delta R.T. -0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:105 Resp: 33266

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.0#
91	0.0	10.6	16.0#
77	0.0	11.3	16.9#





#73
1,3,5-Trimethylbenzene
Concen: 0.186 ppbv m
RT: 16.02 min Scan# 4117
Delta R.T. -0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:105 Resp: 44694

Ion	Ratio	Lower	Upper
105	100		
120	33.4	37.0	55.6#

Instrument :
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ClientSampleId :
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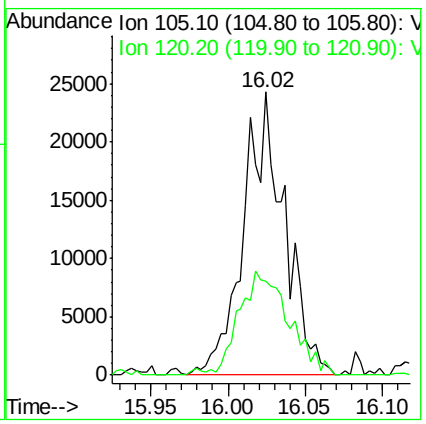
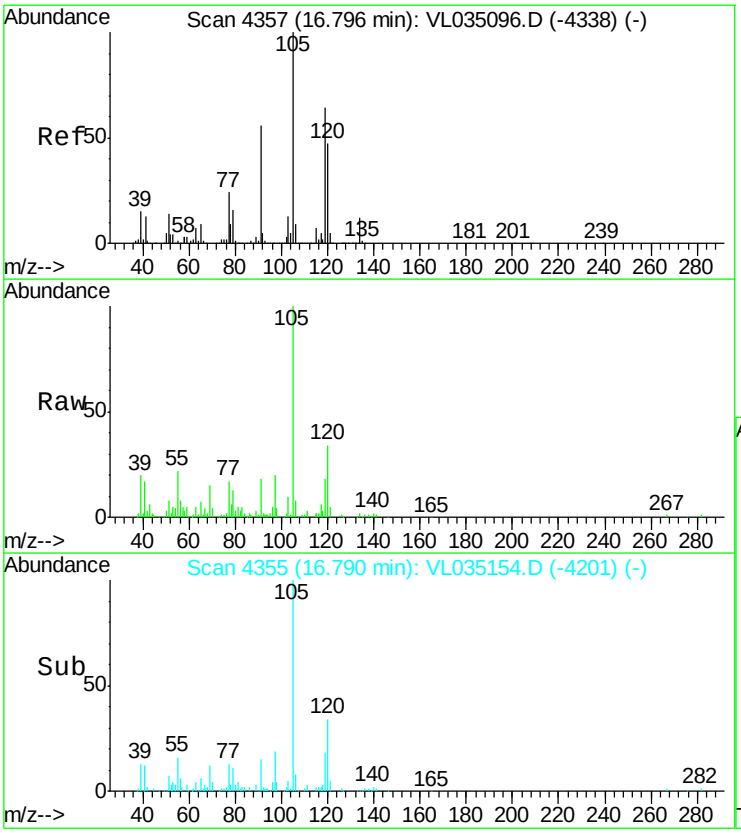
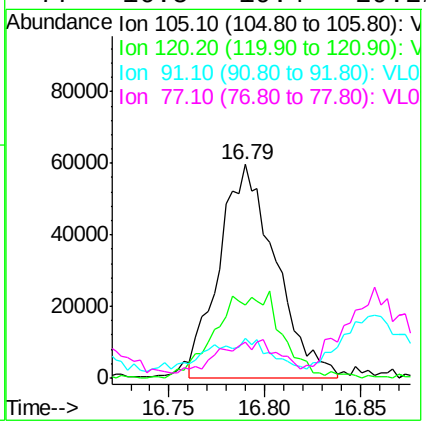


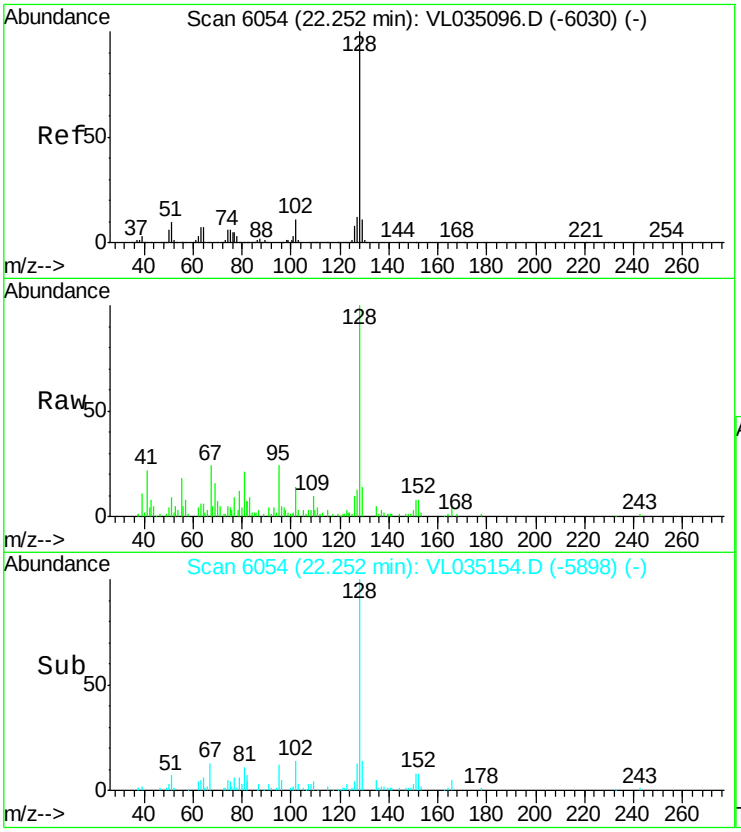


#74
1,2,4-Trimethylbenzene
Concen: 0.453 ppbv m
RT: 16.79 min Scan# 4355
Delta R.T. -0.01 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:105 Resp: 121698

Ion	Ratio	Lower	Upper
105	100		
120	34.3	37.9	56.9#
91	18.4	46.0	69.0#
77	16.5	19.4	29.2#

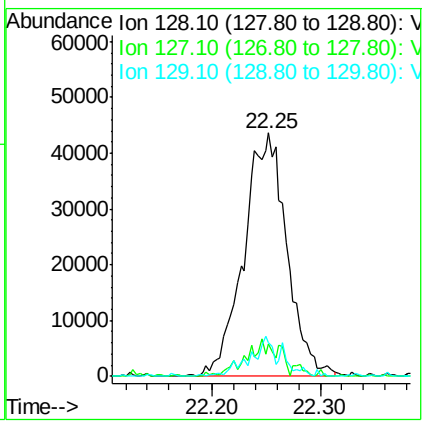




#79
Naphthalene
Concen: 0.511 ppbv m
RT: 22.25 min Scan# 6054
Delta R.T. 0.00 min
Lab File: VL035154.D
Acq: 6 Jul 2020 20:28

Tgt Ion:128 Resp: 120338

Ion	Ratio	Lower	Upper
128	100		
127	13.1	9.9	14.9
129	14.1	9.0	13.4#



Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Manual Integrations APPROVED
MMDadoda
7/9/2020 12:00:58 PM