Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091420\
Data File : VL035615.D
Acq On : 15 Sep 2020 1:26
Operator : SY/AP
Sample : L3983-05 20X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SV-11A

Quant Time: Sep 15 06:44:46 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Sep 14 15:19:50 2020
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.65	49	984365	10.00	ppbv		-0.01
33) 1,4-Difluorobenzene	7.16	114	4377118	10.00	ppbv		-0.01
55) Chlorobenzene-d5	12.09	117	4333762	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.42	95	3238420	10.52	ppbv		-0.01
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.03	85	6631	0.039	ppbv		92
3) Chlorodifluoromethane	2.97	51	5035	0.046	ppbv	#	84
4) Chloromethane	3.12	50	2453	0.042	ppbv		98
5) Vinyl Chloride	3.24	62	22179	0.308	ppbv		99
9) Propene	3.00	41	438626	10.451	ppbv		93
10) Heptane	8.11	43	8182	0.073	ppbv	#	18
13) Ethanol	3.60	45	23000	2.210	ppbv		93
15) Acetone	3.83	43	1303243	12.004	ppbv		97
16) 1,3-Butadiene	3.29	39	212352	5.254	ppbv	#	11
17) tert-Butyl alcohol	4.31	59	15557	0.118	ppbv		95
18) 1,1-Dichloroethene	4.27	96	20124	0.243	ppbv		96
19) Isopropyl Alcohol	3.98	45	7558	0.117	ppbv	#	93
20) Methylene Chloride	4.33	84	34159	0.422	ppbv		93
22) trans-1,2-Dichloroethene	4.87	96	53214	0.605	ppbv		96
23) Vinyl Acetate	5.05	43	15768	0.113	ppbv	#	28
24) 1,1-Dichloroethane	5.00	63	4758	0.033	ppbv	#	90
25) Ethyl Acetate	5.67	43	20551	0.107	ppbv	#	76
26) Hexane	5.68	57	35193	0.324	ppbv	#	45
27) Carbon Disulfide	4.54	76	32917	0.211	ppbv	#	91
29) Chloroform	5.74	83	57706	0.261	ppbv		99
30) Cyclohexane	7.12	84	16097	0.138	ppbv	#	23
31) cis-1,2-Dichloroethene	5.53	61	1794169	16.092	ppbv		99
34) 2-Butanone	5.24	43	116500	0.897	ppbv		97
36) Benzene	6.88	78	26028	0.092	ppbv		94
38) Trichloroethene	7.83	130	3046135	18.508	ppbv		96
39) 1,2-Dichloropropane	7.82	63	9681	0.101	ppbv	#	1
44) 2,2,4-Trimethylpentane	7.86	57	141577	0.380	ppbv	#	79
52) Tetrachloroethene	11.22	164	8361437	50.515	ppbv	#	79
53) Toluene	9.80	91	120478	0.338	ppbv		97
58) Ethyl Benzene	12.71	91	32086	0.072	ppbv		89
59) m/p-Xylene	12.97	91	94915	0.254	ppbv		97
60) o-Xylene	13.69	91	37578	0.100	ppbv		92
72) 4-Ethyltoluene	15.84	105	17324	0.036	ppbv	#	92
74) 1,2,4-Trimethylbenzene	16.77	105	22095	0.045	ppbv	#	71

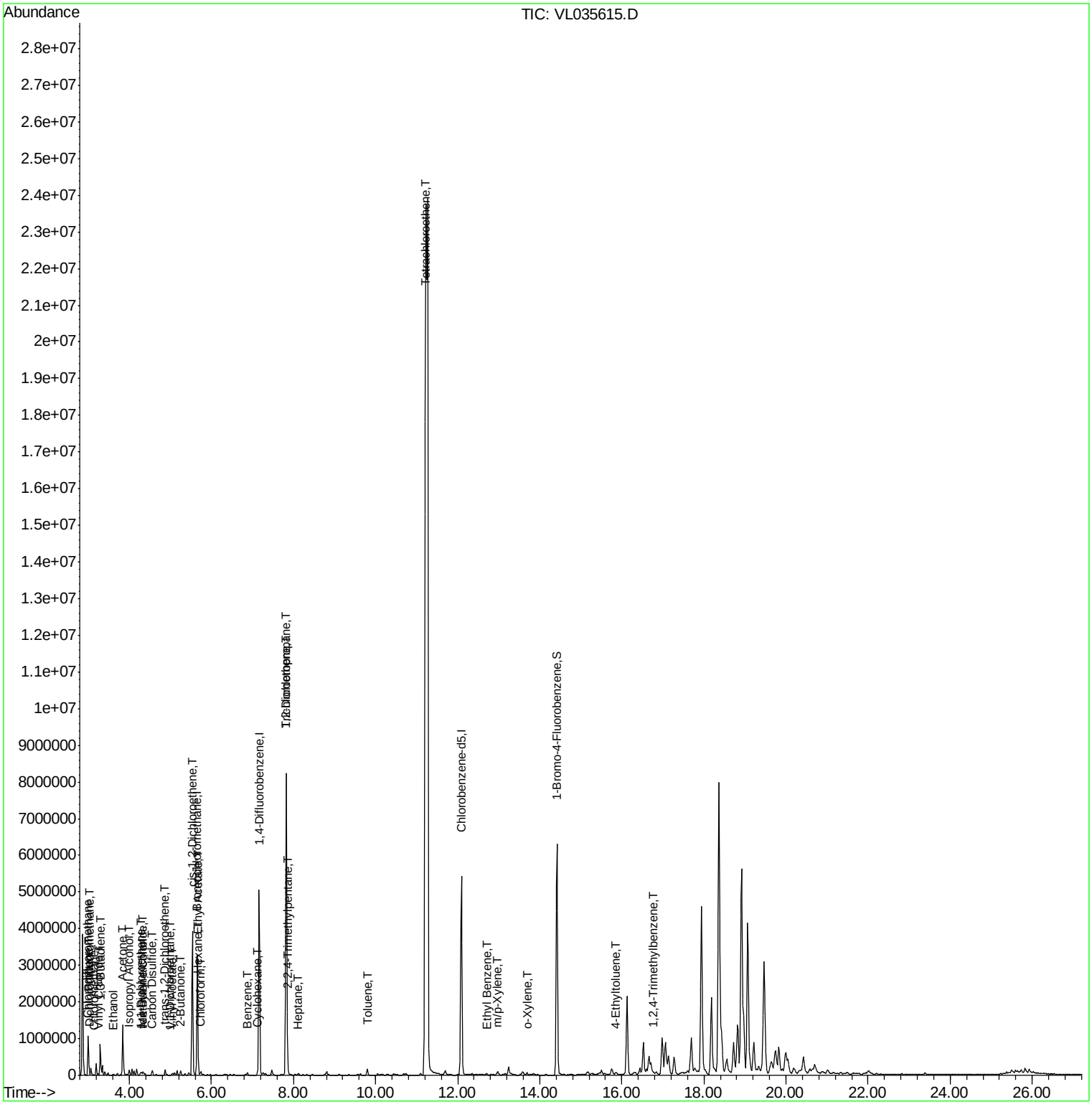
(#) = qualifier out of range (m) = manual integration (+) = signals summed

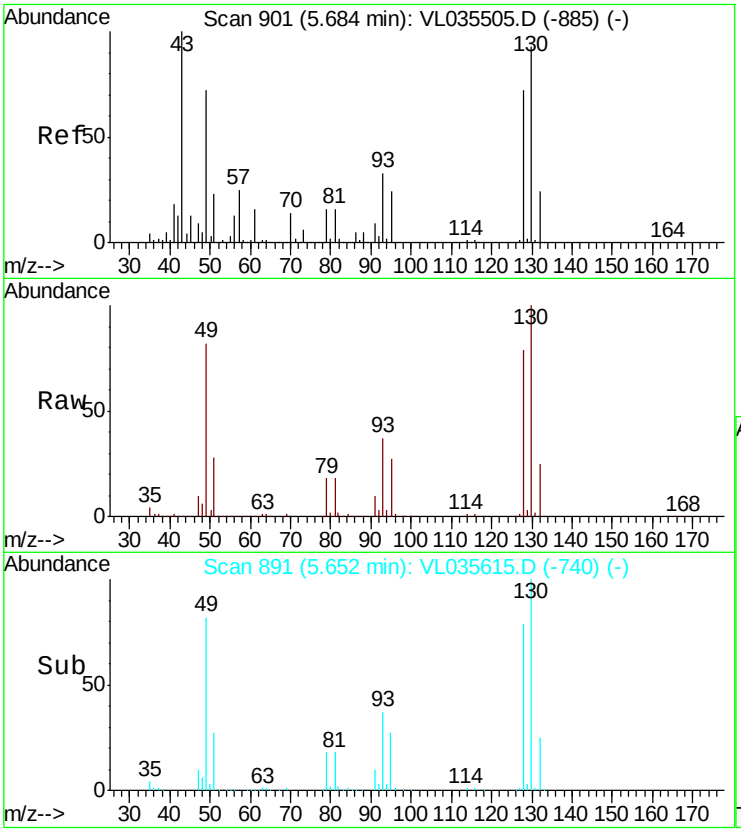
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091420\
Data File : VL035615.D
Acq On : 15 Sep 2020 1:26
Operator : SY/AP
Sample : L3983-05 20X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SV-11A

Quant Time: Sep 15 06:44:46 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Sep 14 15:19:50 2020
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration



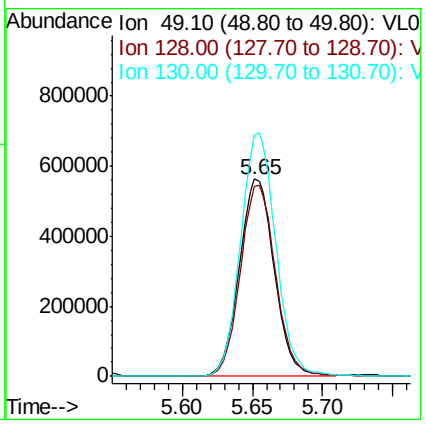


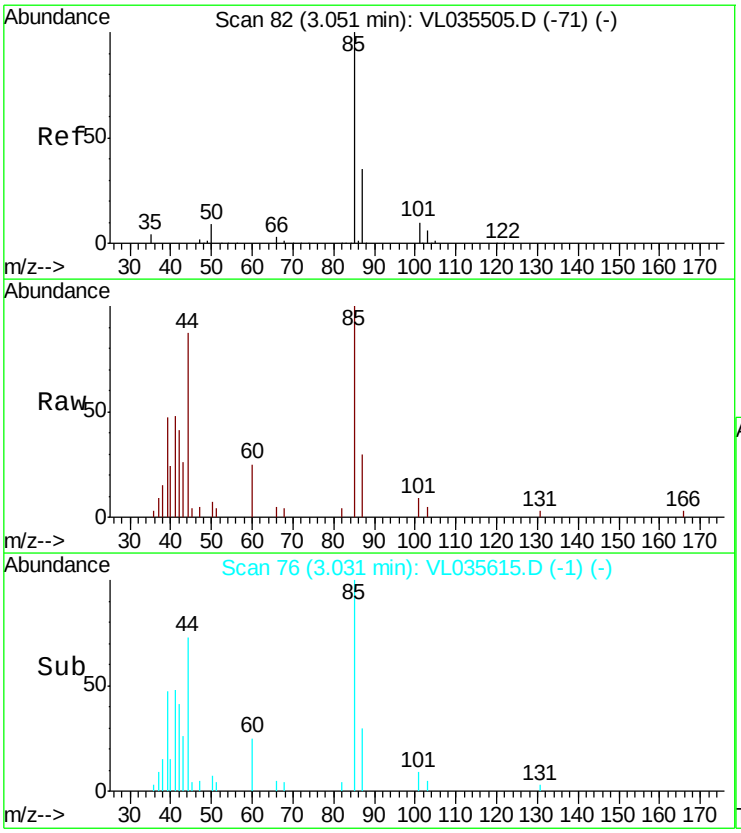
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 49 Resp: 984365

Ion	Ratio	Lower	Upper
49	100		
128	97.7	50.0	150.1
130	124.6	64.4	193.2

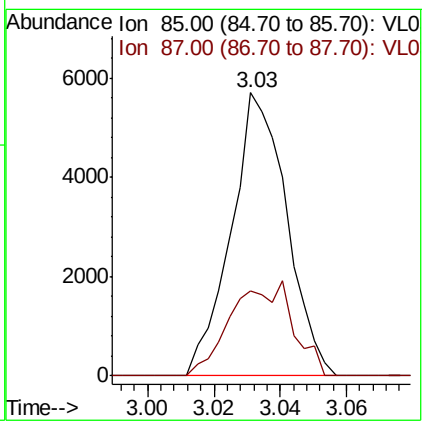


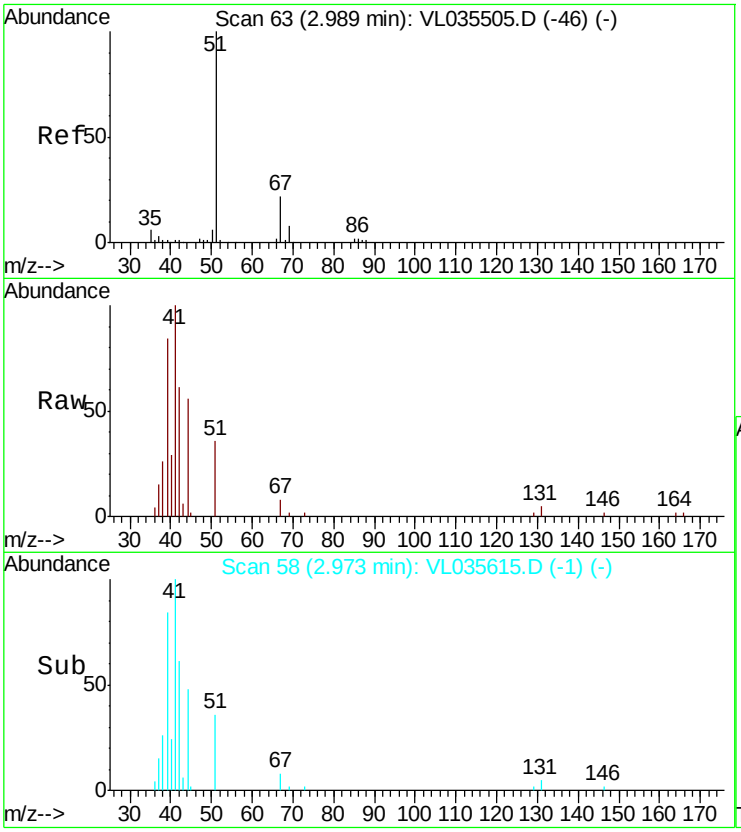


#2
Dichlorodifluoromethane
Concen: 0.039 ppbv
RT: 3.03 min Scan# 76
Delta R.T. -0.00 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 85 Resp: 6631

Ion	Ratio	Lower	Upper
85	100		
87	30.2	28.0	42.0



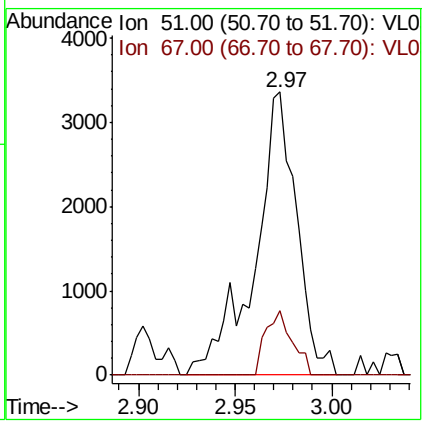


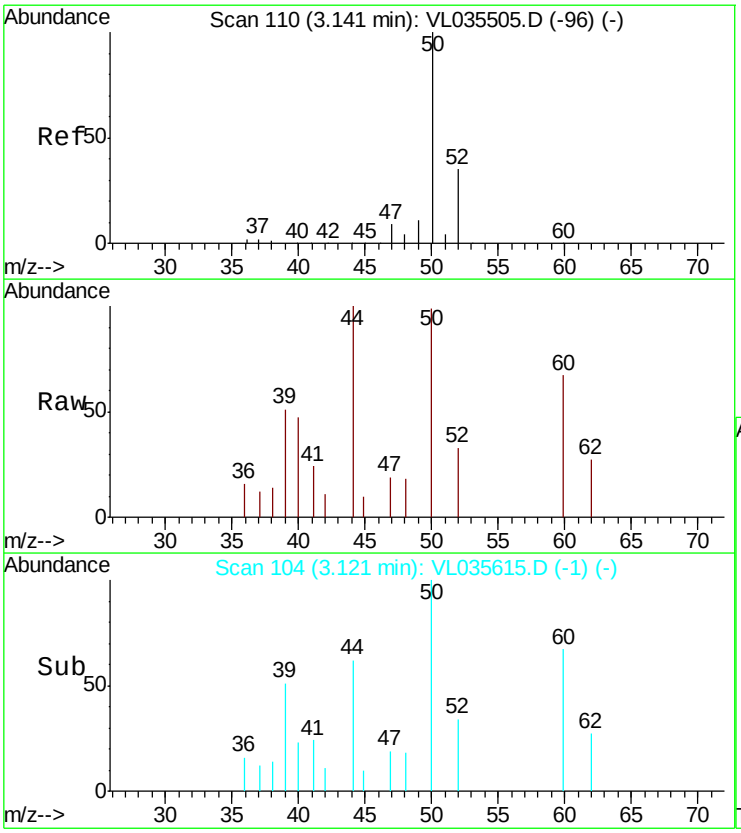
#3
Chlorodifluoromethane
Concen: 0.046 ppbv
RT: 2.97 min Scan# 58
Delta R.T. -0.00 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 51 Resp: 5035

Ion	Ratio	Lower	Upper
51	100		
67	14.6	17.8	26.8#

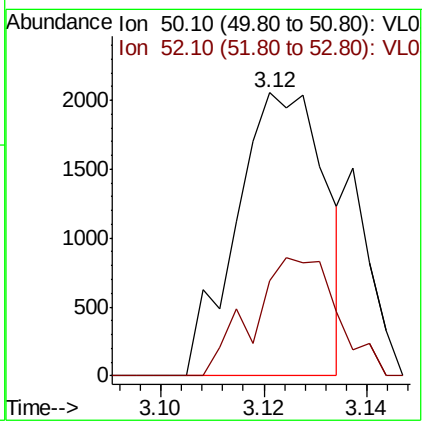


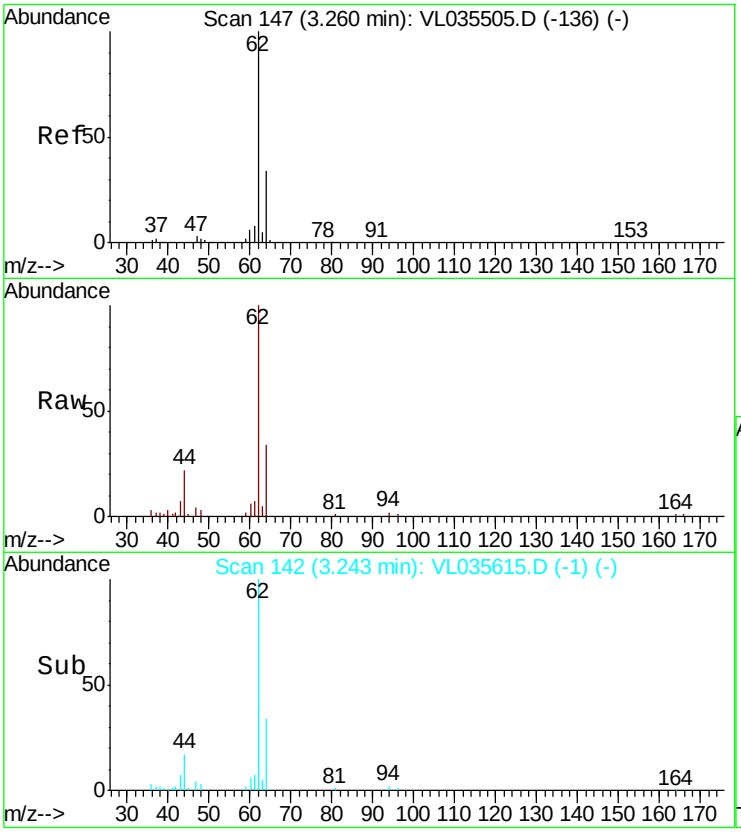


#4
Chloromethane
Concen: 0.042 ppbv
RT: 3.12 min Scan# 104
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 50 Resp: 2453

Ion	Ratio	Lower	Upper
50	100		
52	33.5	27.7	41.5



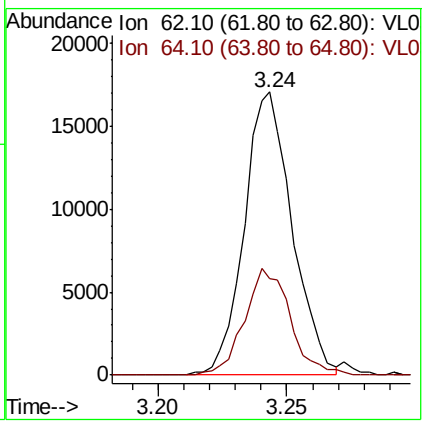


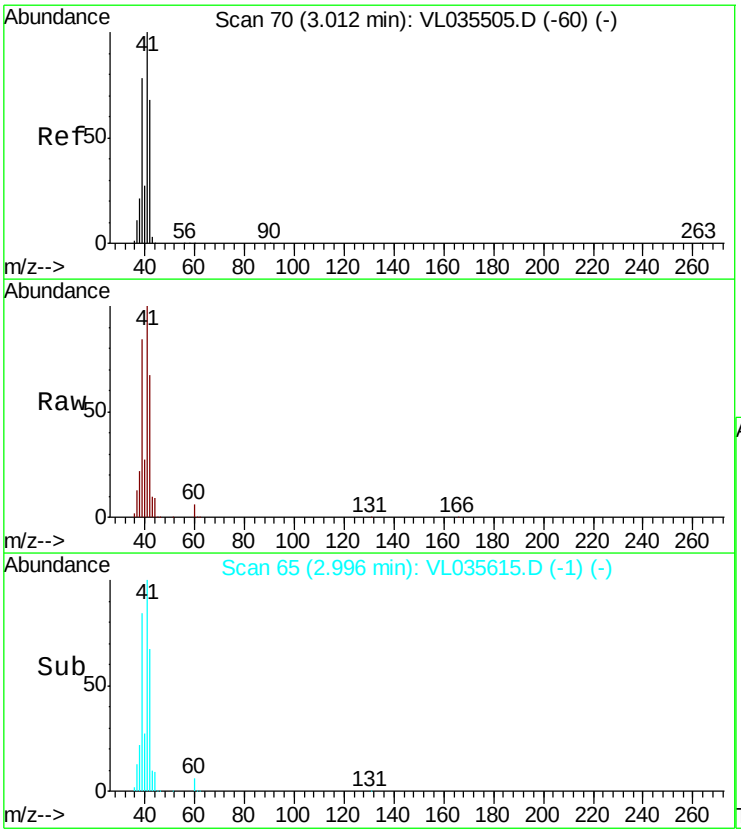
#5
Vinyl Chloride
Concen: 0.308 ppbv
RT: 3.24 min Scan# 142
Delta R.T. -0.00 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument : MSVOA_L
ClientSampleId : SV-11A

Tgt Ion: 62 Resp: 22179

Ion	Ratio	Lower	Upper
62	100		
64	33.9	27.4	41.2

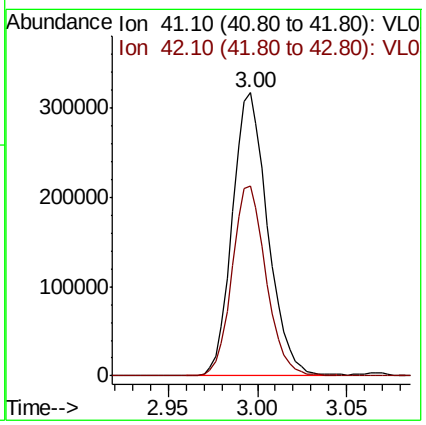


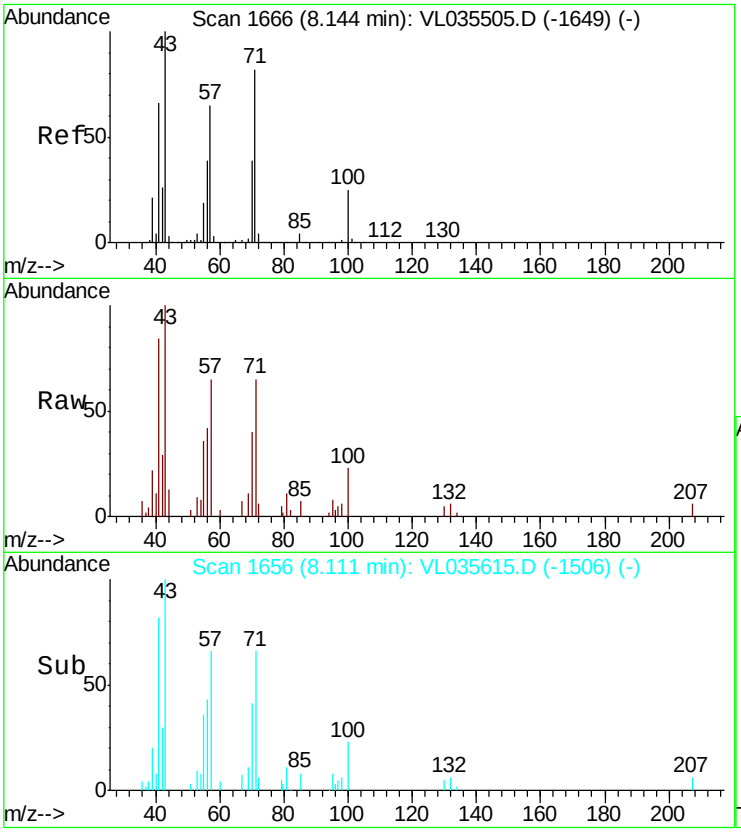


#9
Propene
Concen: 10.451 ppbv
RT: 3.00 min Scan# 65
Delta R.T. -0.00 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 41 Resp: 438626

Ion	Ratio	Lower	Upper
41	100		
42	64.5	56.3	84.5



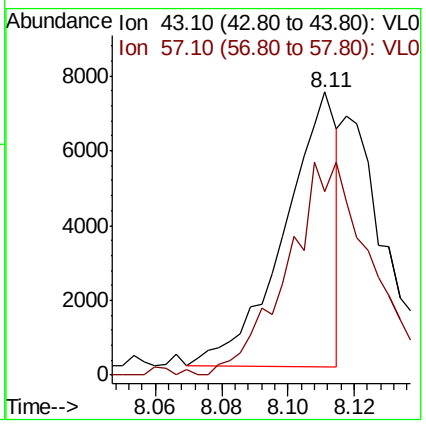


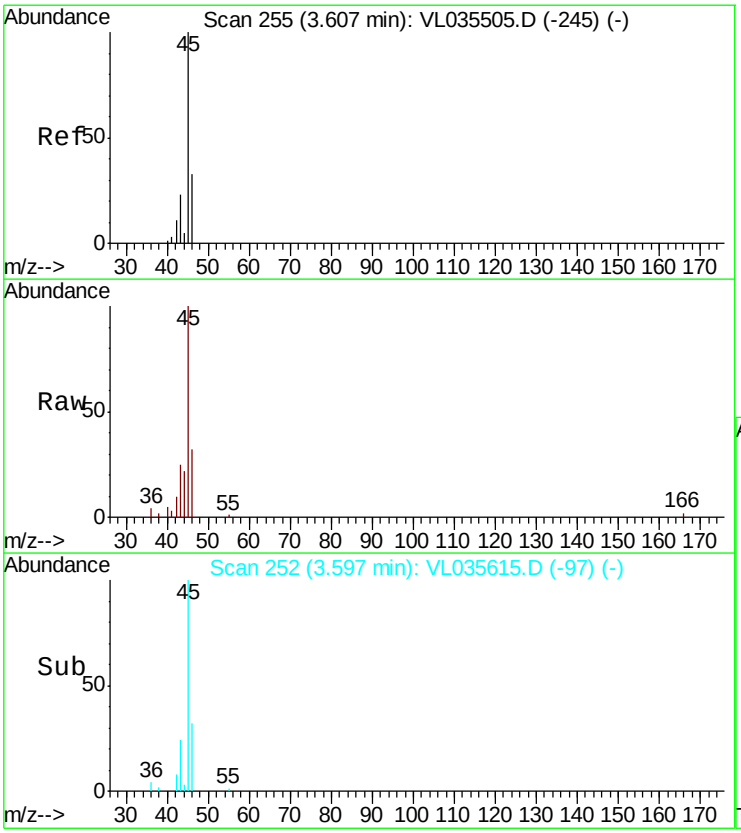
#10
Heptane
Concen: 0.073 ppbv
RT: 8.11 min Scan# 1656
Delta R.T. -0.02 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 43 Resp: 8182

Ion	Ratio	Lower	Upper
43	100		
57	0.0	51.4	77.0#

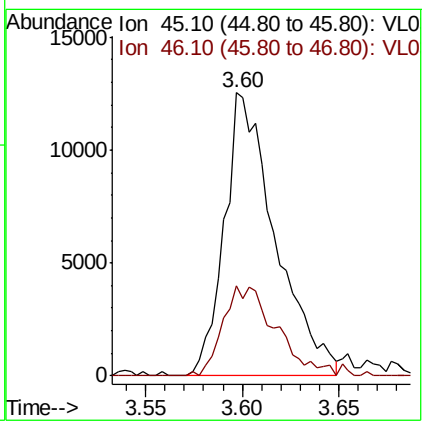


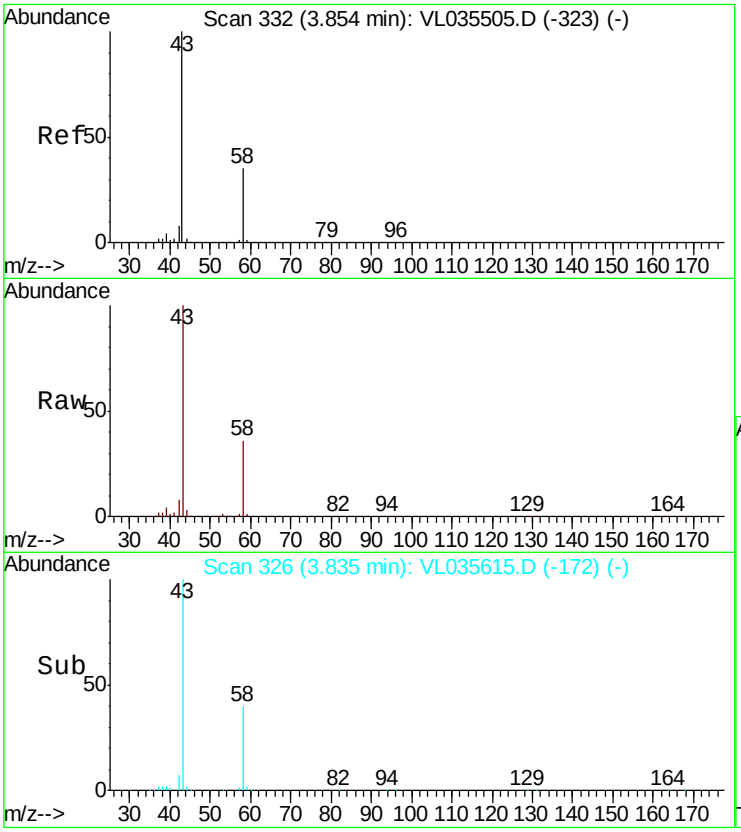


#13
Ethanol
Concen: 2.210 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 45 Resp: 23000

Ion	Ratio	Lower	Upper
45	100		
46	33.5	15.2	60.6



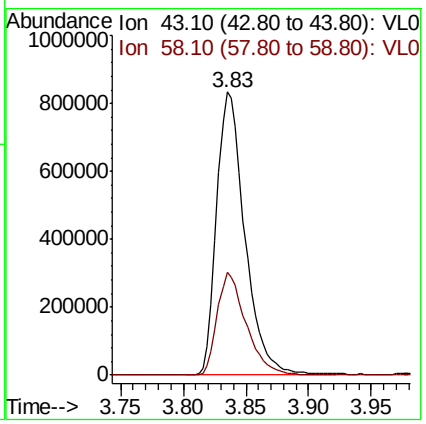


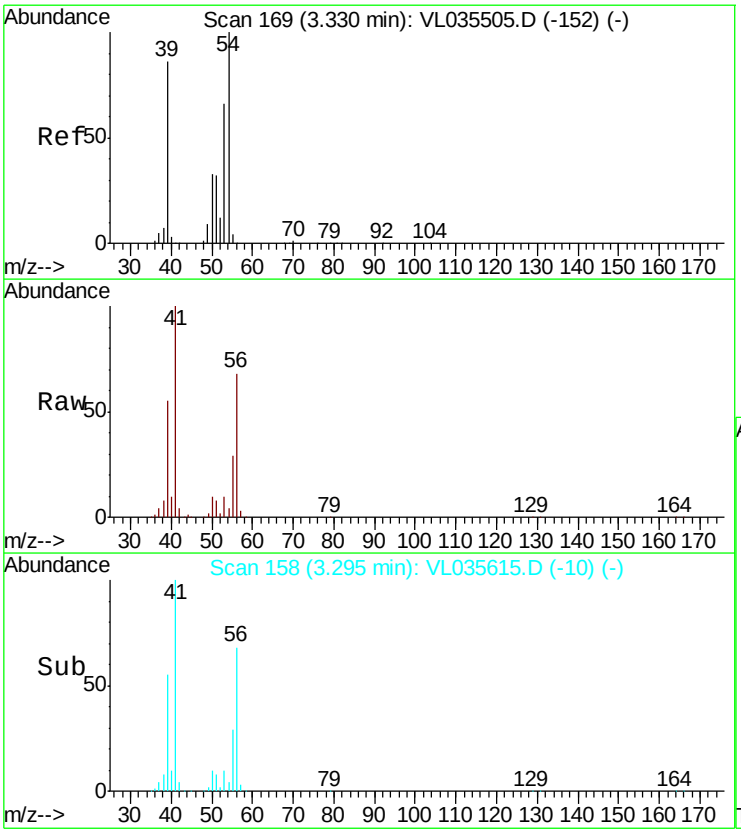
#15
Acetone
Concen: 12.004 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 43 Resp: 1303243

Ion	Ratio	Lower	Upper
43	100		
58	37.3	28.4	42.6

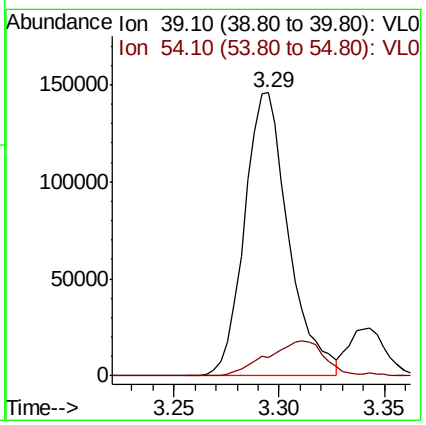


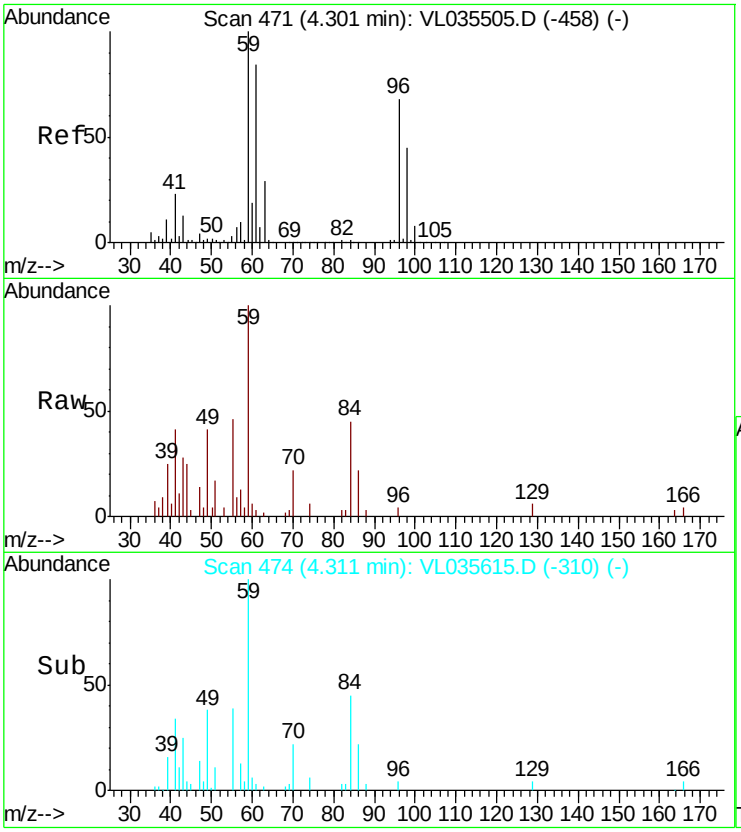


#16
1,3-Butadiene
Concen: 5.254 ppbv
RT: 3.29 min Scan# 158
Delta R.T. -0.02 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 39 Resp: 212352

Ion	Ratio	Lower	Upper
39	100		
54	16.4	88.4	132.6#



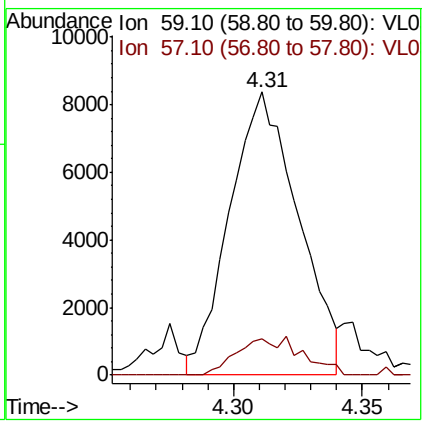


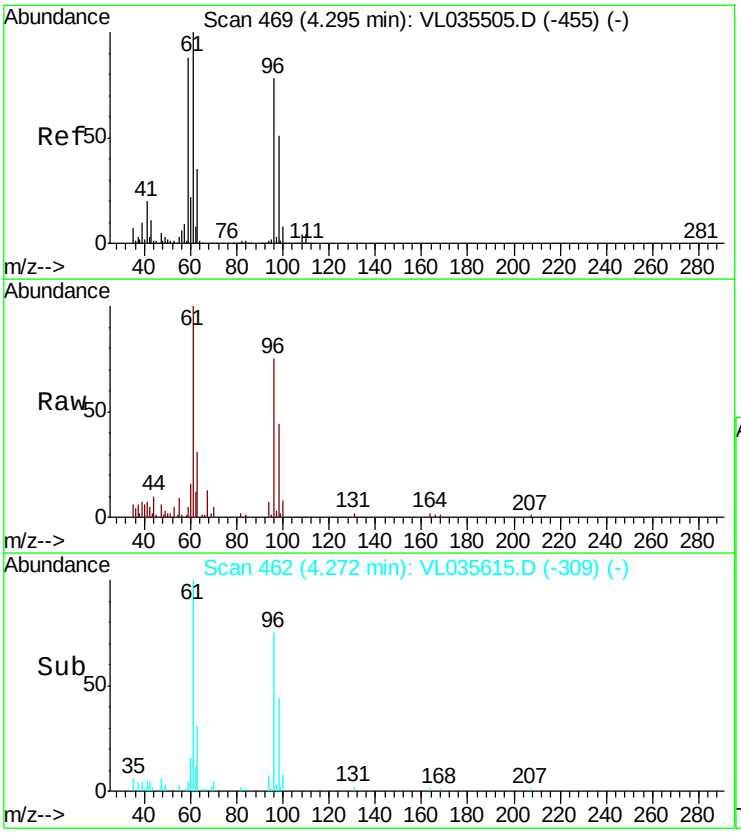
#17
tert-Butyl alcohol
Concen: 0.118 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.03 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument : MSVOA_L
ClientSampleId : SV-11A

Tgt Ion: 59 Resp: 15557

Ion	Ratio	Lower	Upper
59	100		
57	12.5	8.4	12.6

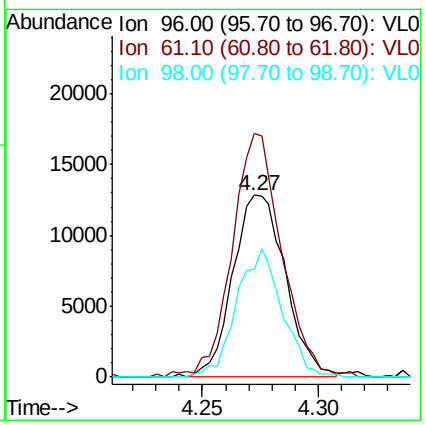


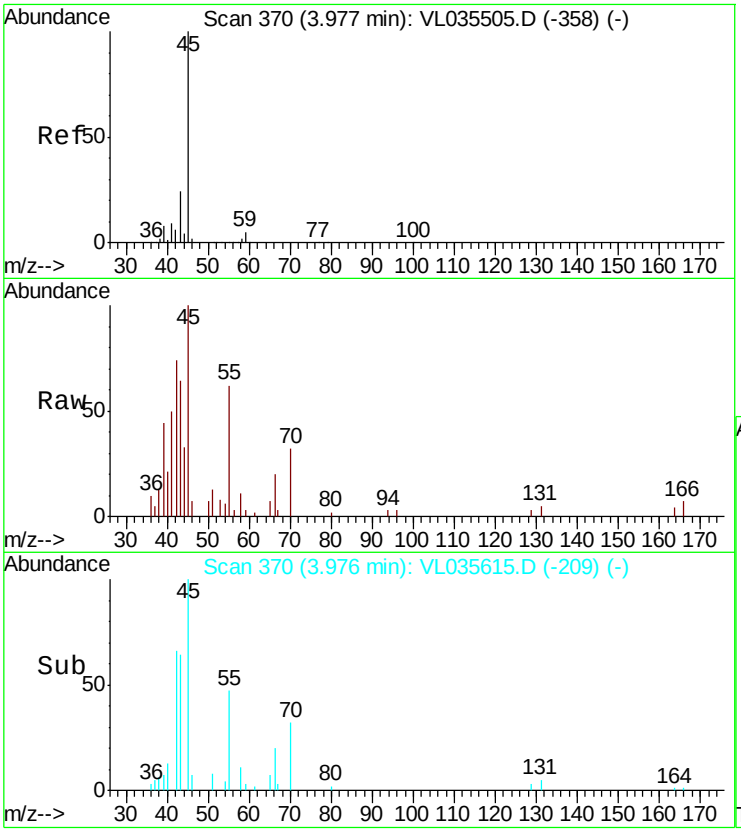


#18
1,1-Dichloroethene
Concen: 0.243 ppbv
RT: 4.27 min Scan# 462
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 96 Resp: 20124

Ion	Ratio	Lower	Upper
96	100		
61	131.5	103.0	154.6
98	59.3	52.8	79.2



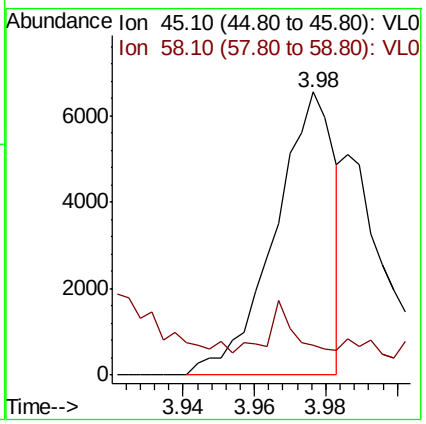


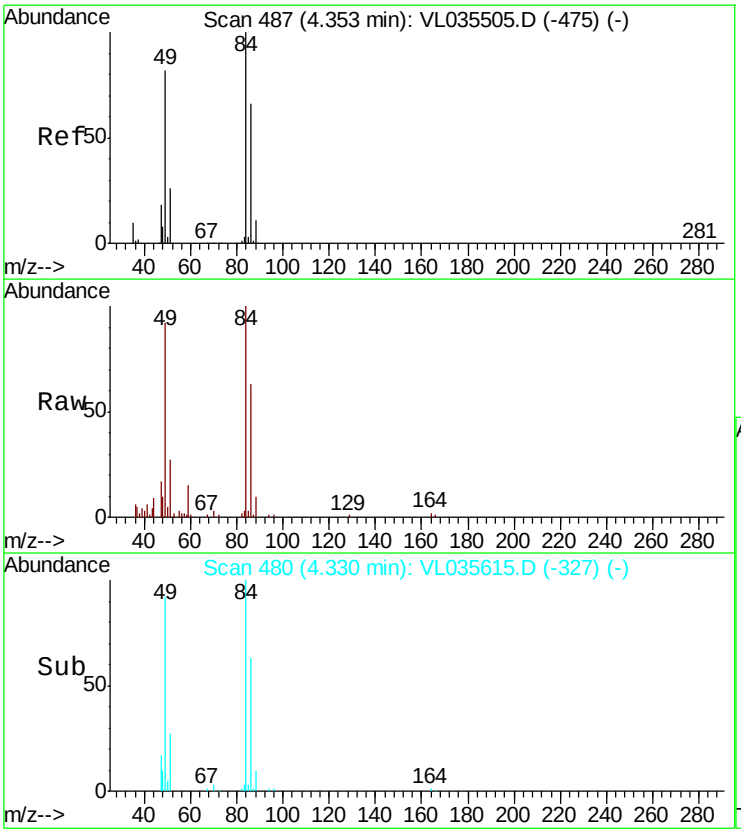
#19
Isopropyl Alcohol
Concen: 0.117 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.02 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 45 Resp: 7558

Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.0	3.0#

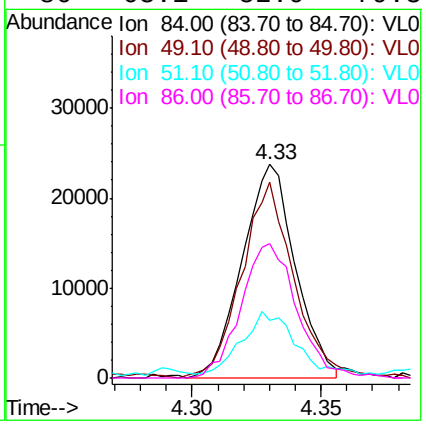


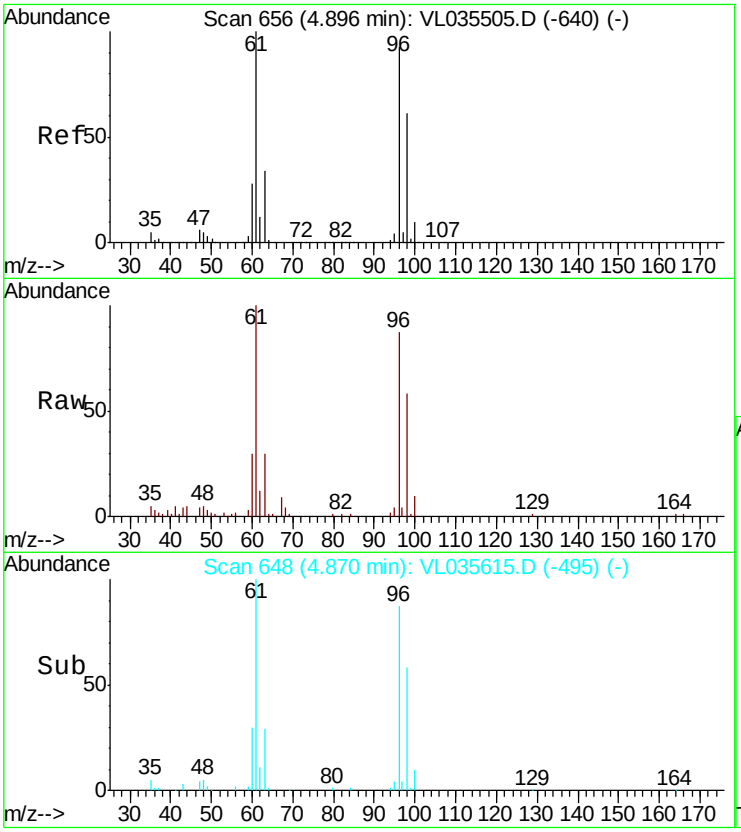


#20
Methylene Chloride
Concen: 0.422 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 84 Resp: 34159

Ion	Ratio	Lower	Upper
84	100		
49	90.9	65.4	98.0
51	24.4	21.5	32.3
86	63.1	52.9	79.3



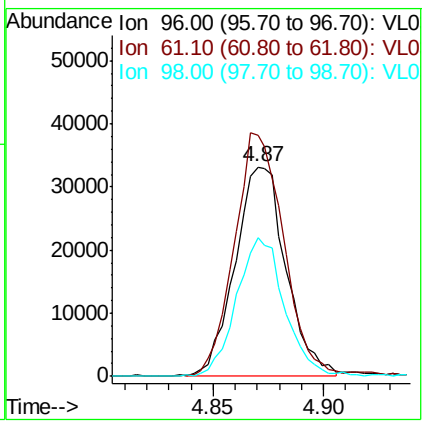


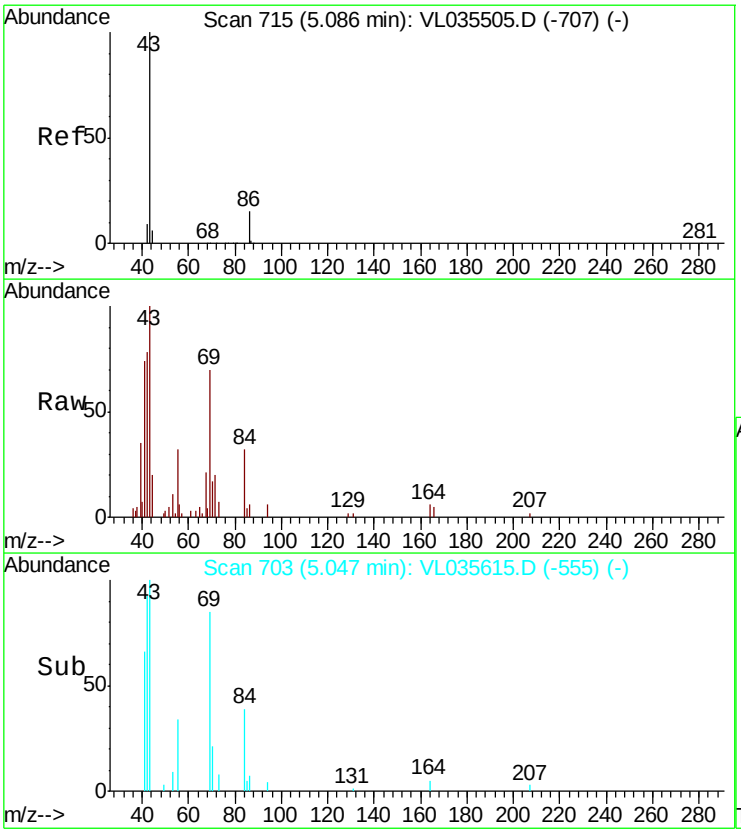
#22
trans-1,2-Dichloroethene
Concen: 0.605 ppbv
RT: 4.87 min Scan# 648
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 96 Resp: 53214

Ion	Ratio	Lower	Upper
96	100		
61	114.5	86.0	129.0
98	65.6	52.3	78.5

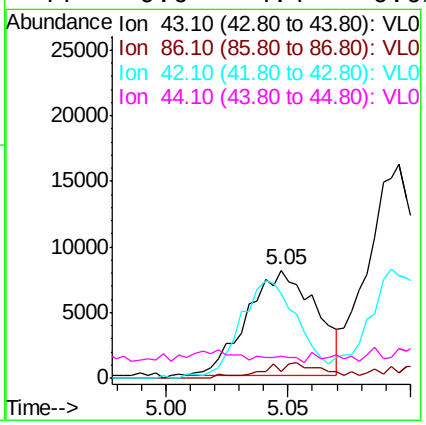


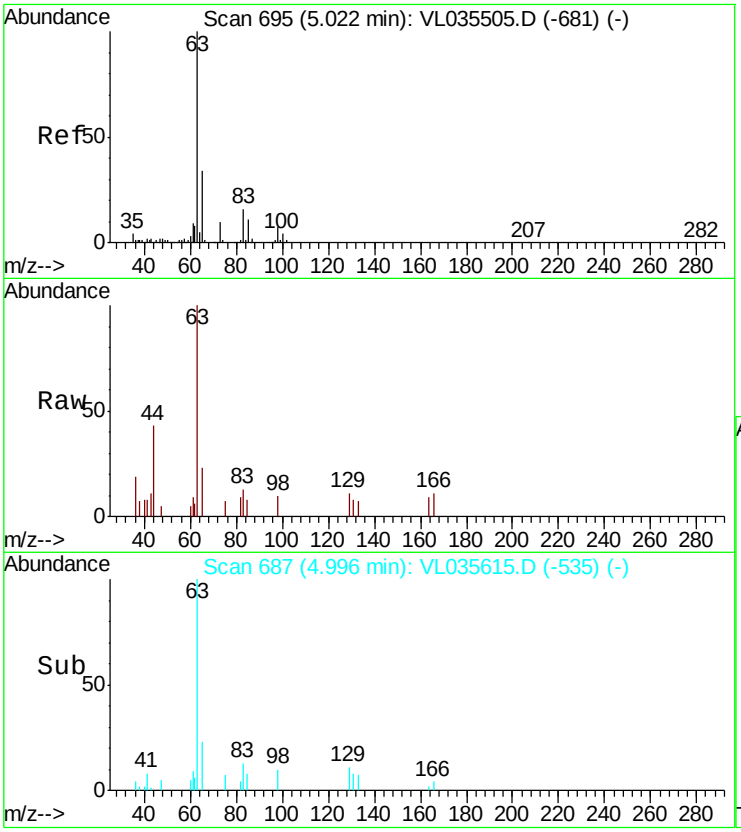


#23
Vinyl Acetate
Concen: 0.113 ppbv
RT: 5.05 min Scan# 703
Delta R.T. -0.02 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 43 Resp: 15768

Ion	Ratio	Lower	Upper
43	100		
86	6.1	10.6	16.0#
42	75.6	7.5	11.3#
44	0.6	4.4	6.6#



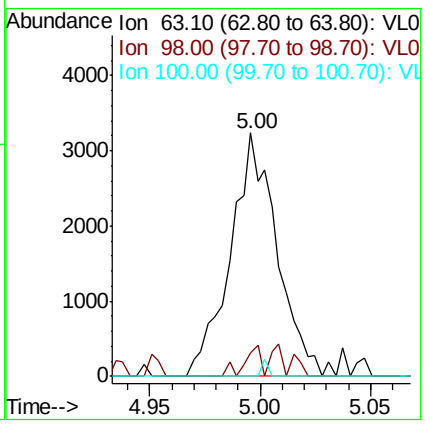


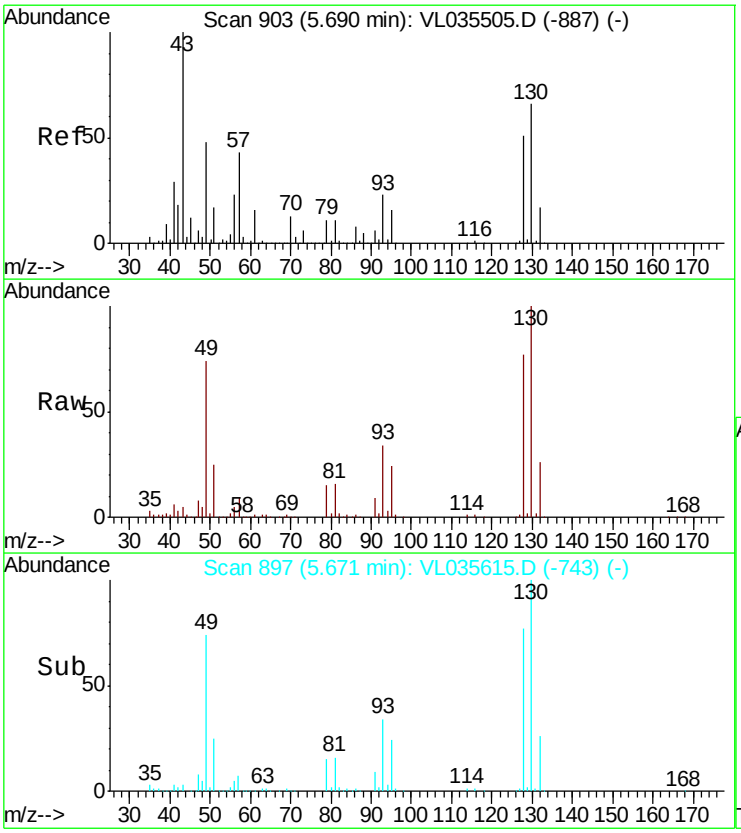
#24
1,1-Dichloroethane
Concen: 0.033 ppbv
RT: 5.00 min Scan# 687
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument : MSVOA_L
ClientSampleId : SV-11A

Tgt Ion: 63 Resp: 4758

Ion	Ratio	Lower	Upper
63	100		
98	9.5	3.4	10.1
100	0.0	2.1	6.5#

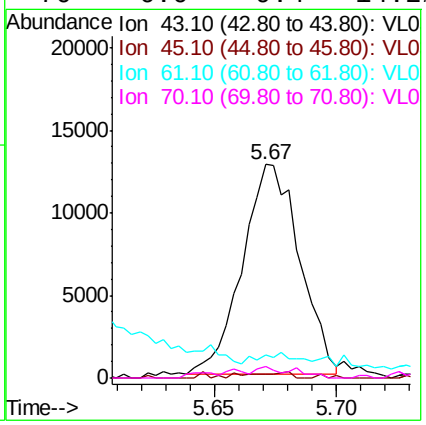


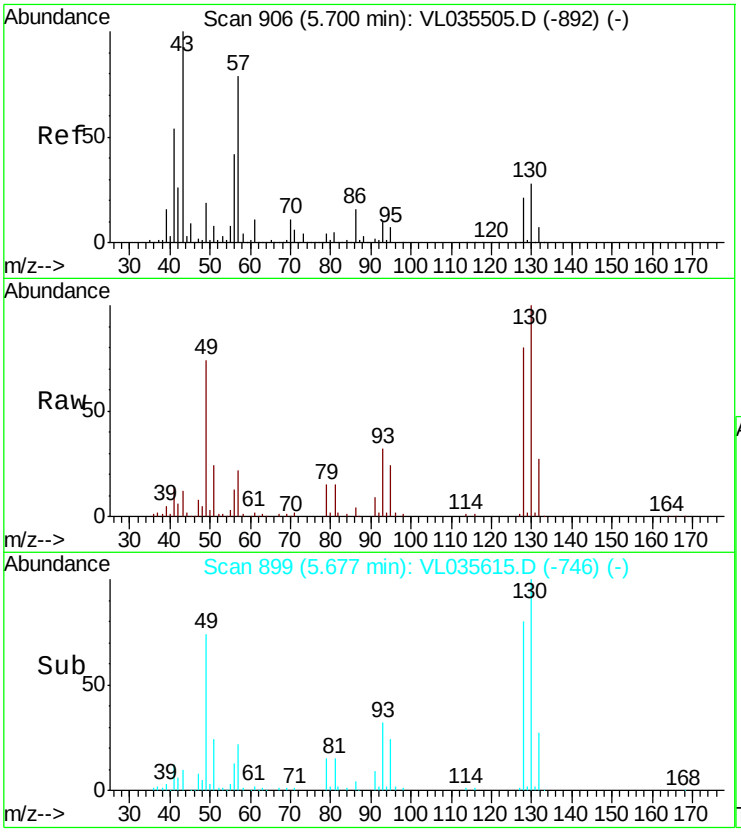


#25
Ethyl Acetate
Concen: 0.107 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 43 Resp: 20551

Ion	Ratio	Lower	Upper
43	100		
45	2.1	8.4	12.6#
61	0.0	10.6	16.0#
70	6.0	9.4	14.2#



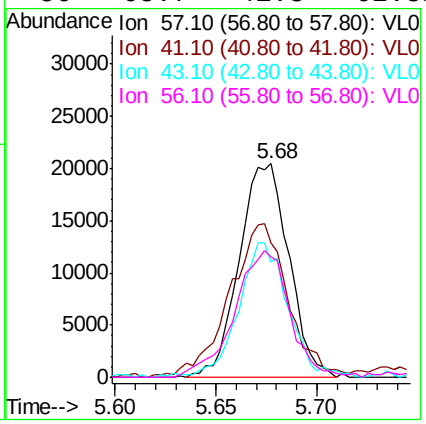


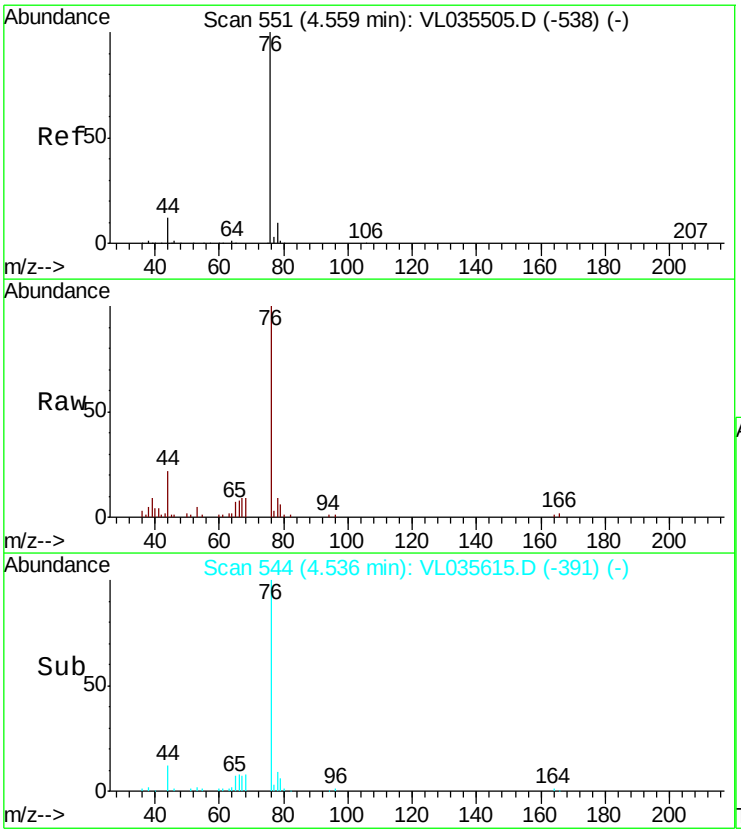
#26
Hexane
Concen: 0.324 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument : MSVOA_L
ClientSampleId : SV-11A

Tgt Ion: 57 Resp: 35193

Ion	Ratio	Lower	Upper
57	100		
41	84.6	55.9	83.9#
43	64.0	141.8	212.8#
56	65.7	41.8	62.8#

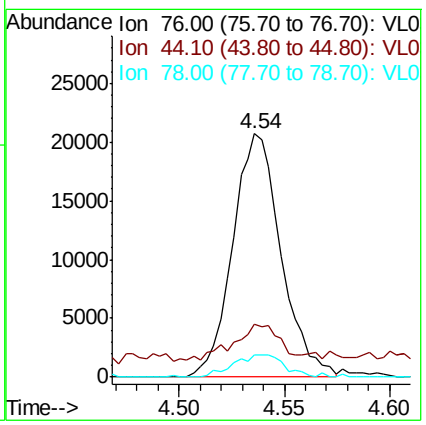


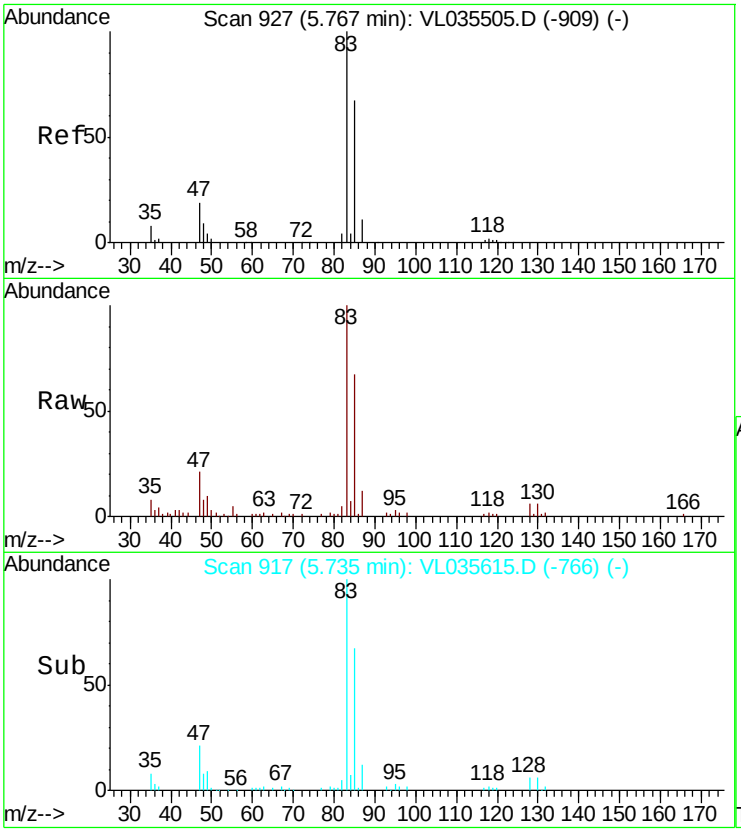


#27
Carbon Disulfide
Concen: 0.211 ppbv
RT: 4.54 min Scan# 544
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 76 Resp: 32917

Ion	Ratio	Lower	Upper
76	100		
44	17.5	9.3	13.9#
78	9.8	7.8	11.6



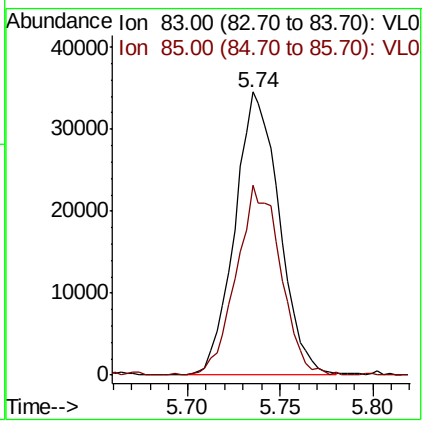


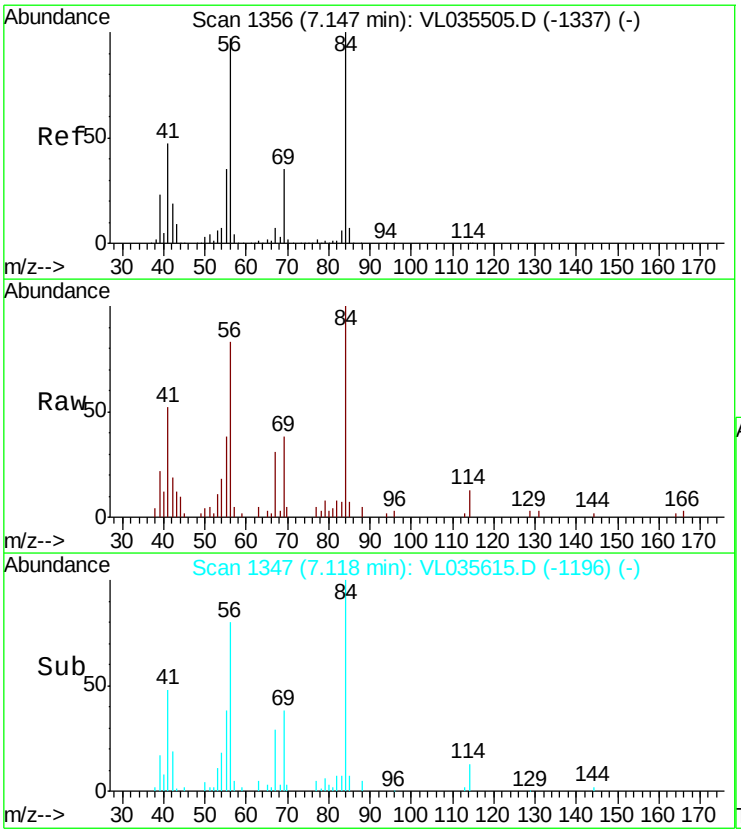
#29
Chloroform
Concen: 0.261 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 83 Resp: 57706

Ion	Ratio	Lower	Upper
83	100		
85	66.9	53.9	80.9

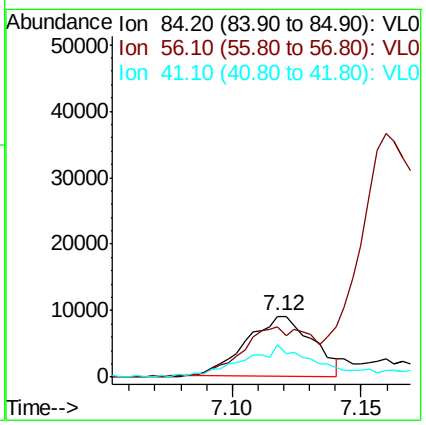


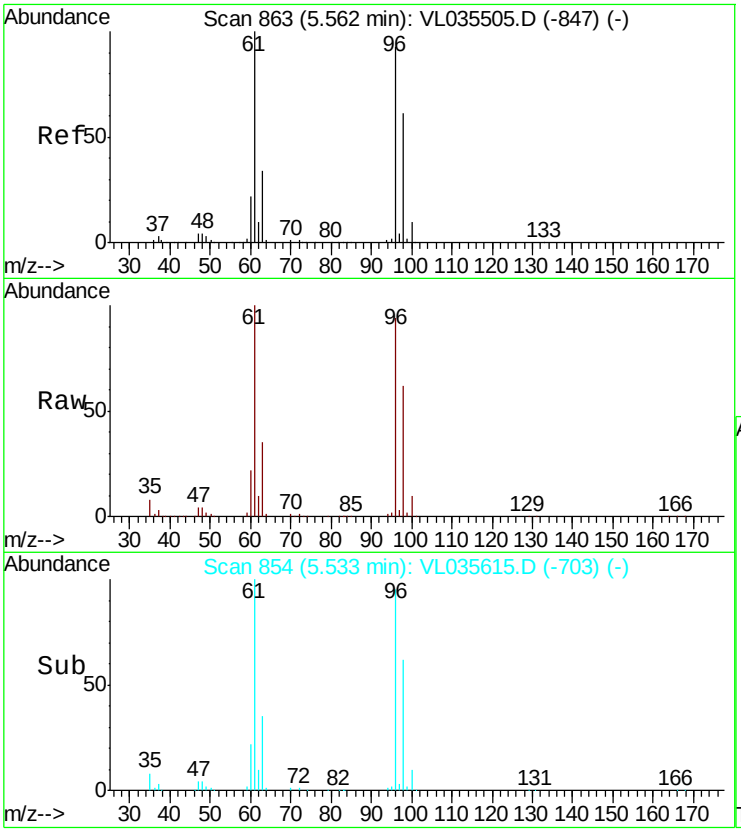


#30
Cyclohexane
Concen: 0.138 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 84 Resp: 16097

Ion	Ratio	Lower	Upper
84	100		
56	0.0	80.1	120.1#
41	66.5	38.1	57.1#



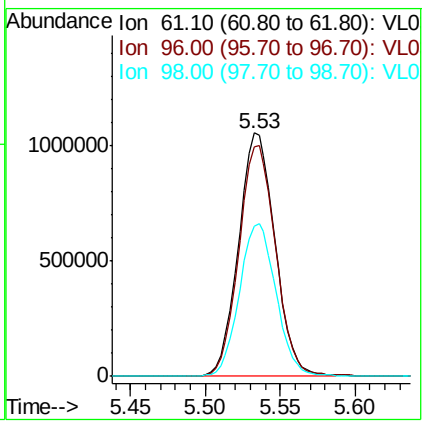


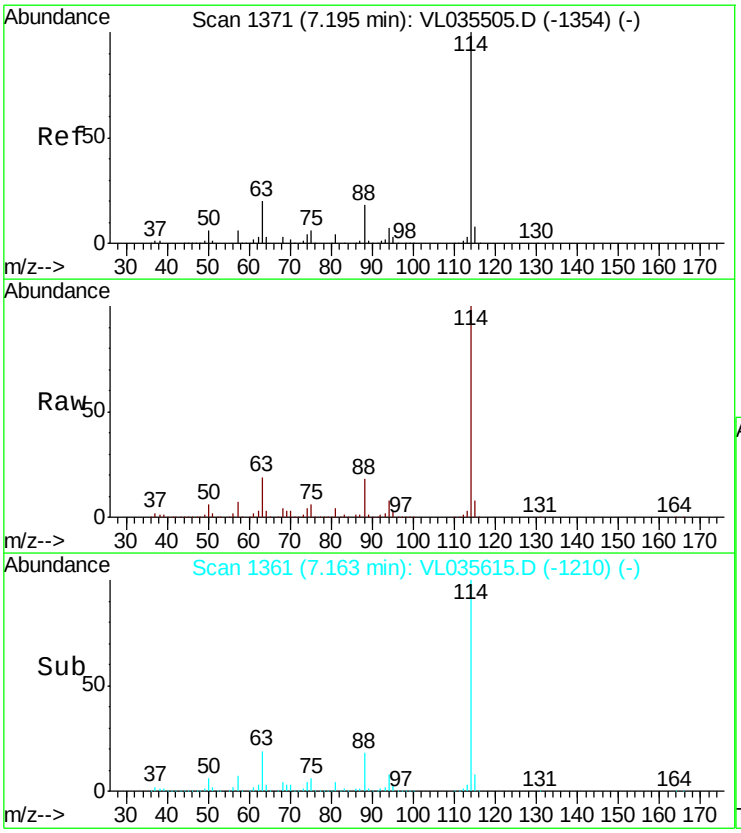
#31
cis-1,2-Dichloroethene
Concen: 16.092 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 61 Resp: 1794169

Ion	Ratio	Lower	Upper
61	100		
96	94.5	74.4	111.6
98	61.8	49.2	73.8

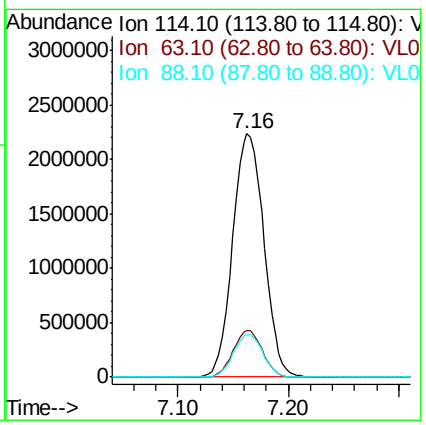


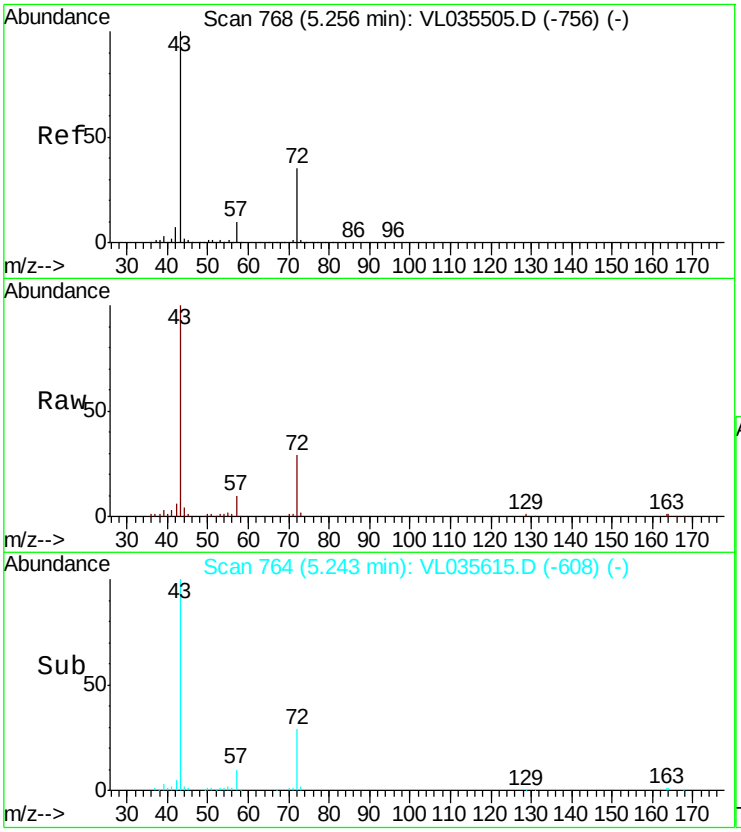


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion:114 Resp: 4377118

Ion	Ratio	Lower	Upper
114	100		
63	18.1	14.7	22.1
88	16.8	13.4	20.2



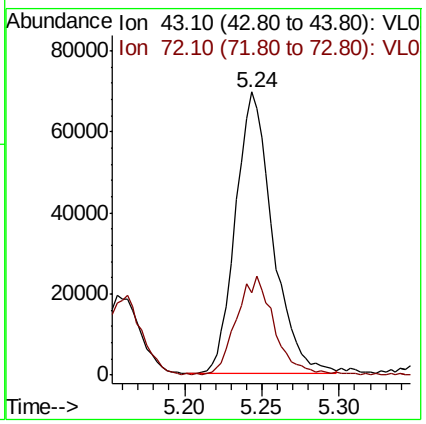


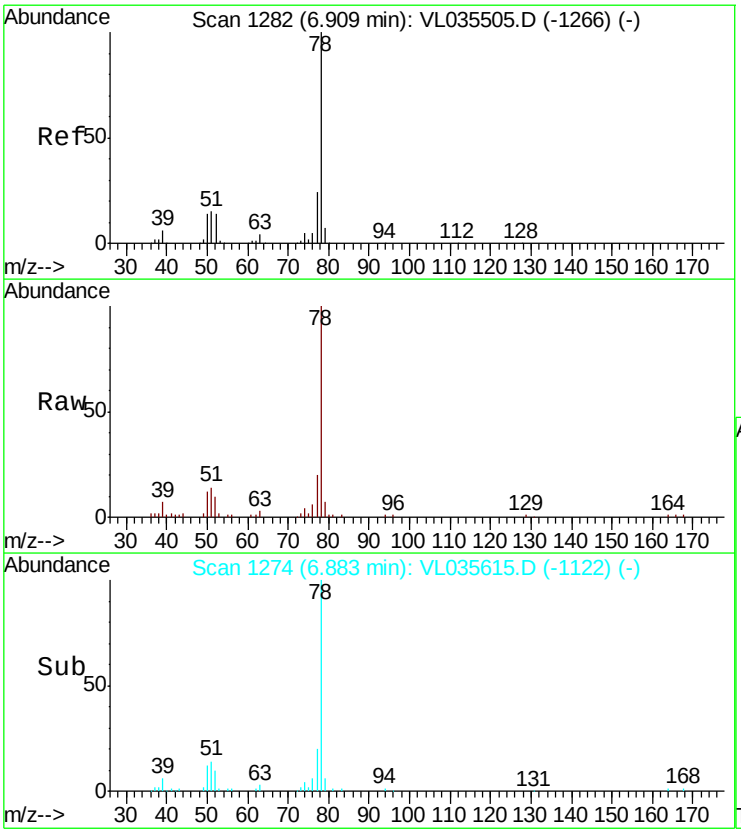
#34
2-Butanone
Concen: 0.897 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.00 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 43 Resp: 116500

Ion	Ratio	Lower	Upper
43	100		
72	36.1	27.7	41.5

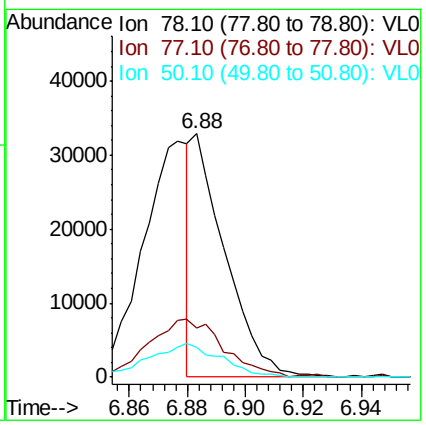


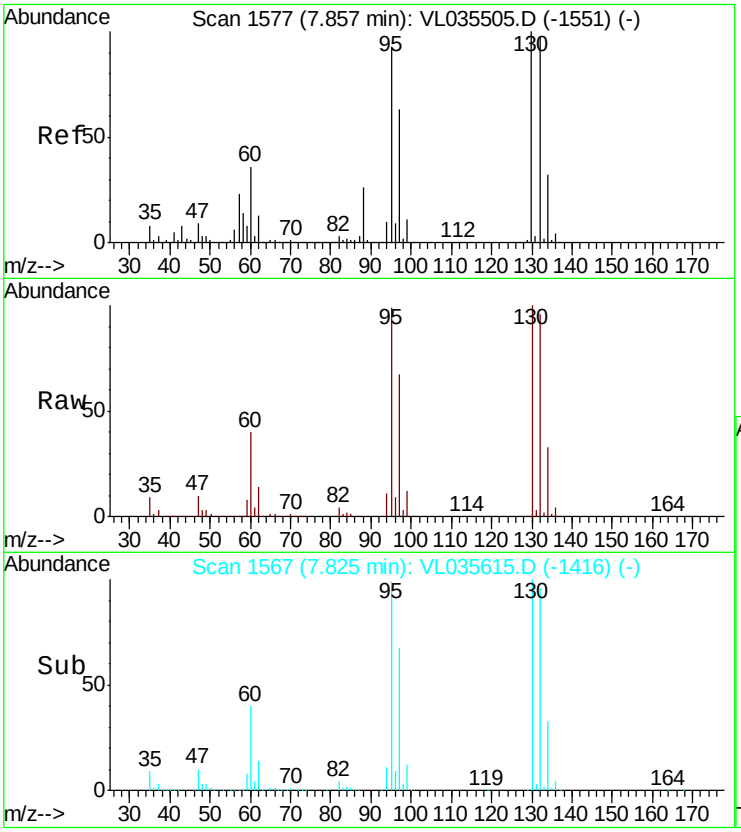


#36
Benzene
Concen: 0.092 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 78 Resp: 26028

Ion	Ratio	Lower	Upper
78	100		
77	20.3	19.3	28.9
50	12.2	11.0	16.6



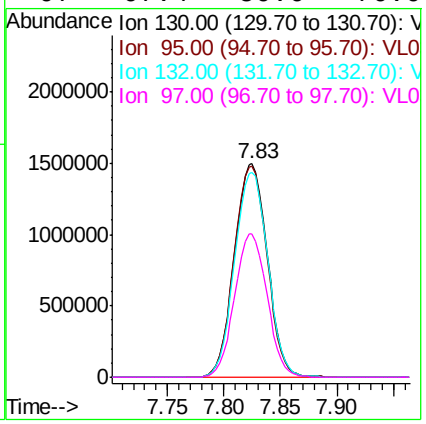


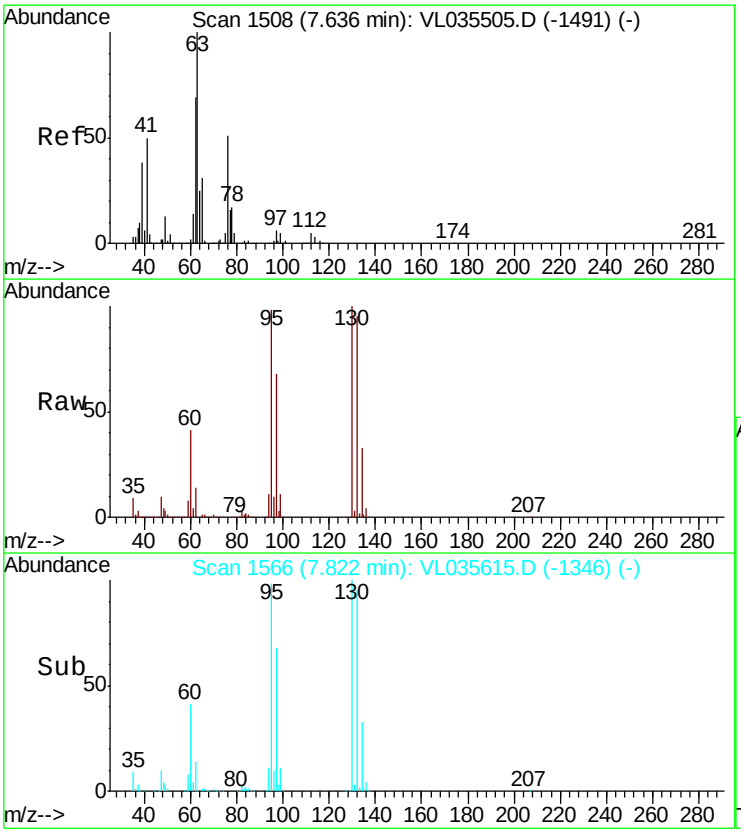
#38
Trichloroethene
Concen: 18.508 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion:130 Resp: 3046135

Ion	Ratio	Lower	Upper
130	100		
95	98.6	74.6	112.0
132	96.2	77.6	116.4
97	67.4	50.6	76.0

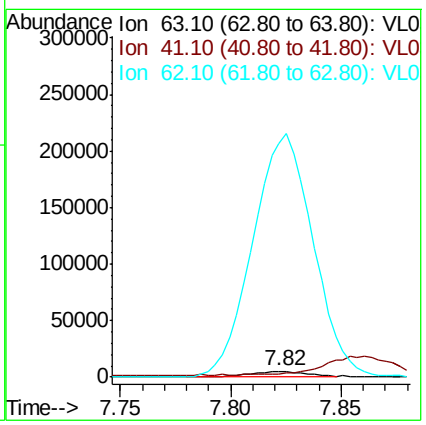


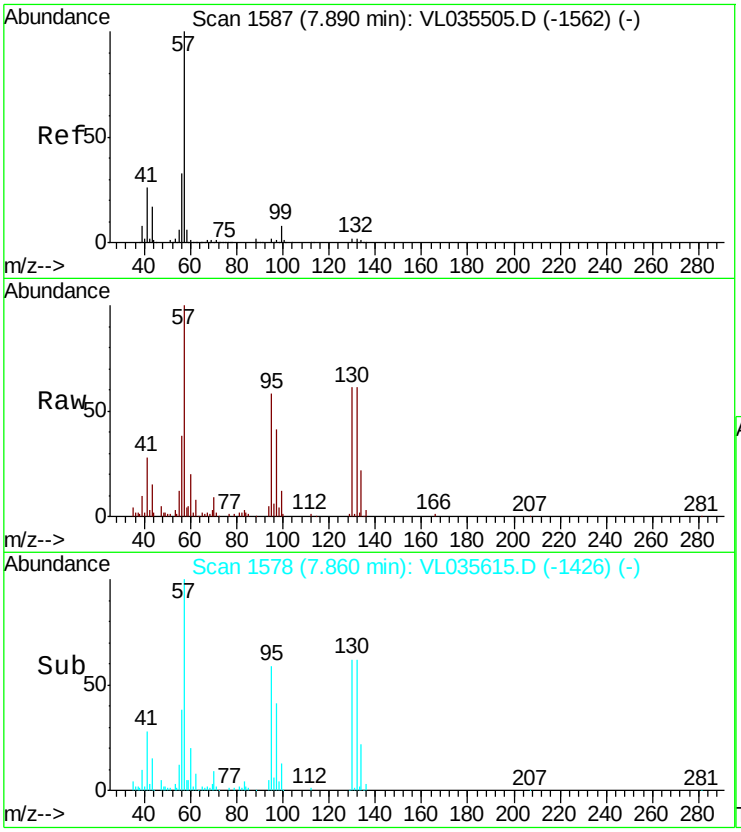


#39
1,2-Dichloropropane
Concen: 0.101 ppbv
RT: 7.82 min Scan# 1566
Delta R.T. 0.21 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 63 Resp: 9681

Ion	Ratio	Lower	Upper
63	100		
41	5.7	40.0	60.0#
62	3988.5	55.4	83.0#



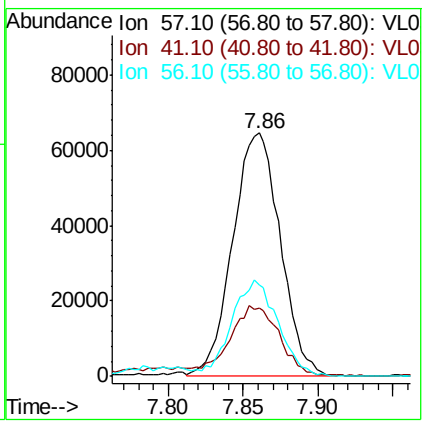


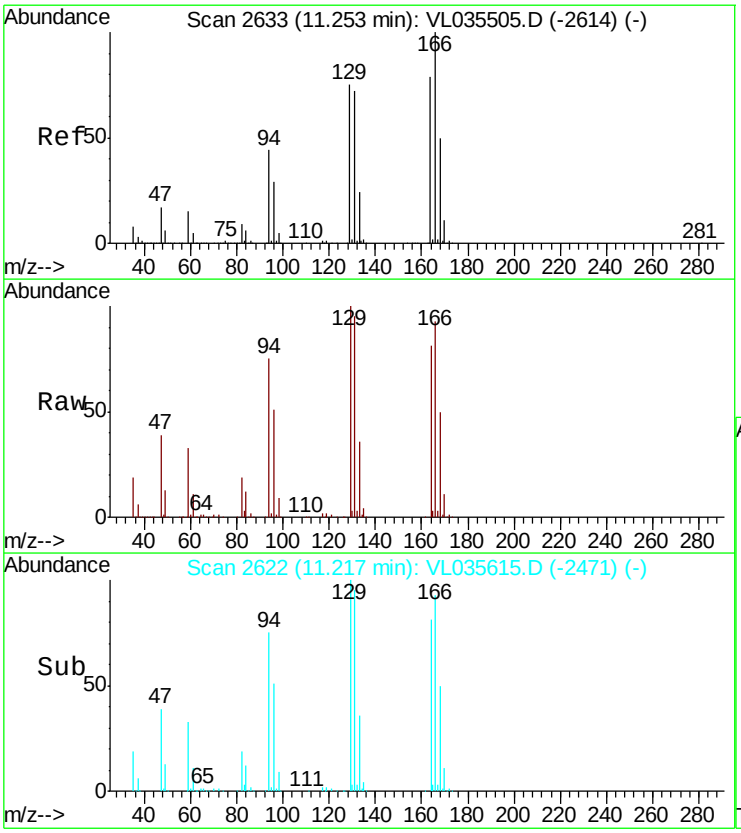
#44
2,2,4-Trimethylpentane
Concen: 0.380 ppbv
RT: 7.86 min Scan# 1578
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 57 Resp: 141577

Ion	Ratio	Lower	Upper
57	100		
41	35.5	20.5	30.7#
56	43.6	25.3	37.9#

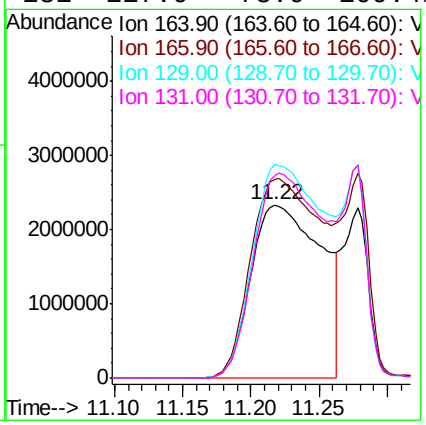


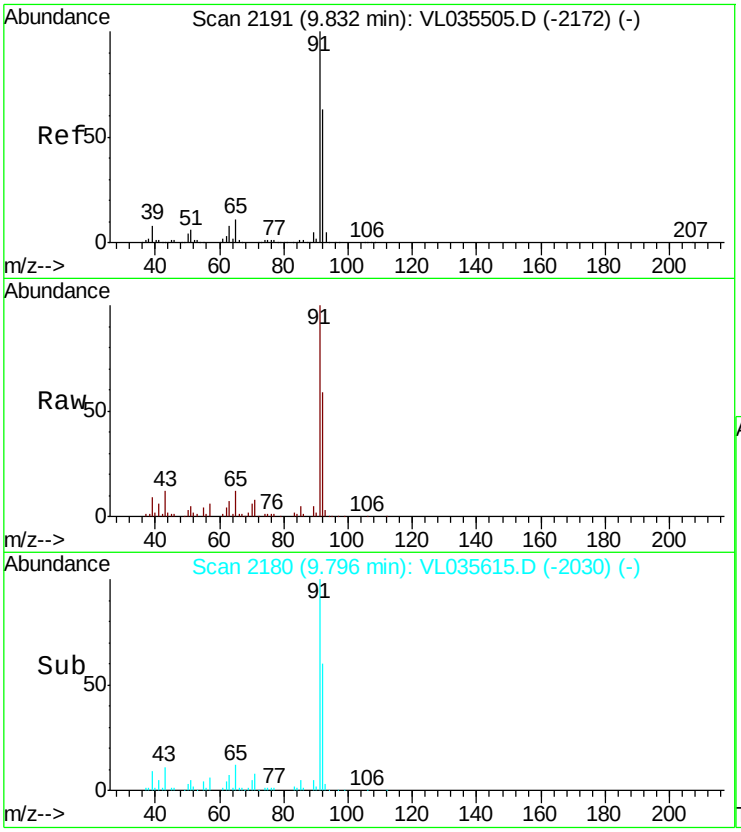


#52
Tetrachloroethene
Concen: 50.515 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion:164 Resp: 8361437

Ion	Ratio	Lower	Upper
164	100		
166	114.4	100.9	151.3
129	123.3	75.3	112.9#
131	117.0	73.0	109.4#



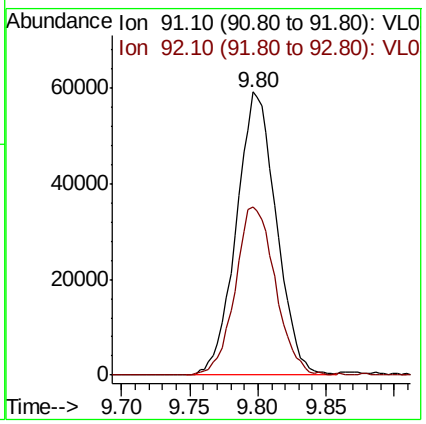


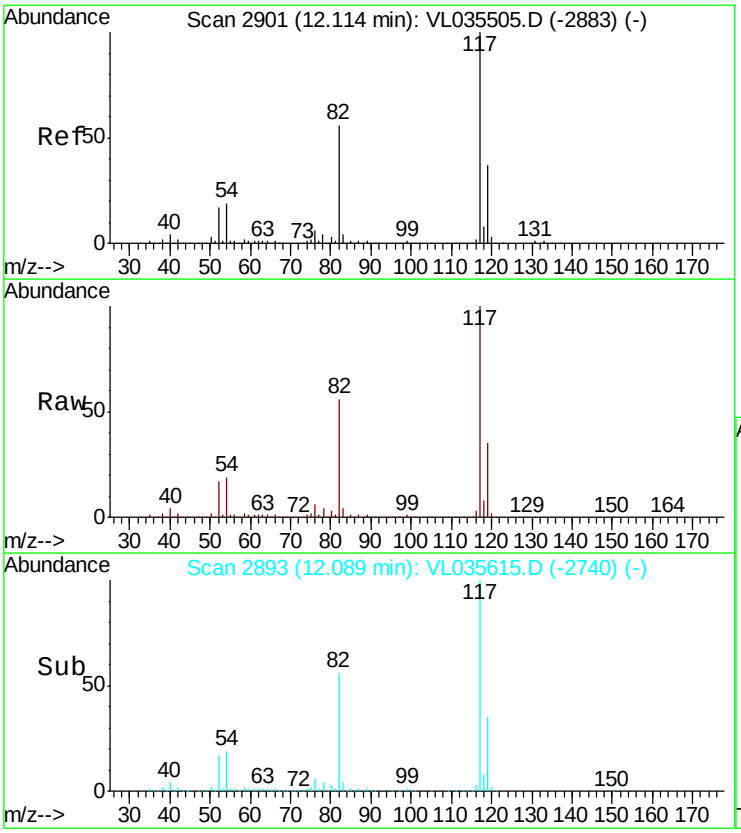
#53
Toluene
Concen: 0.338 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. -0.02 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion: 91 Resp: 120478

Ion	Ratio	Lower	Upper
91	100		
92	59.9	49.8	74.8

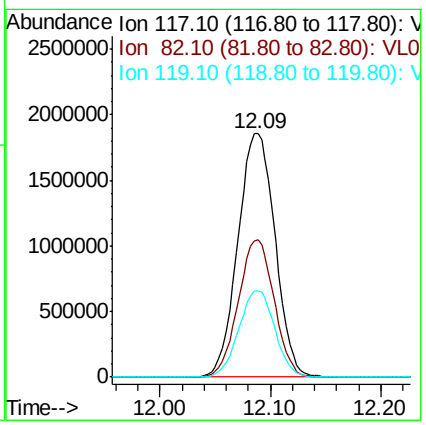


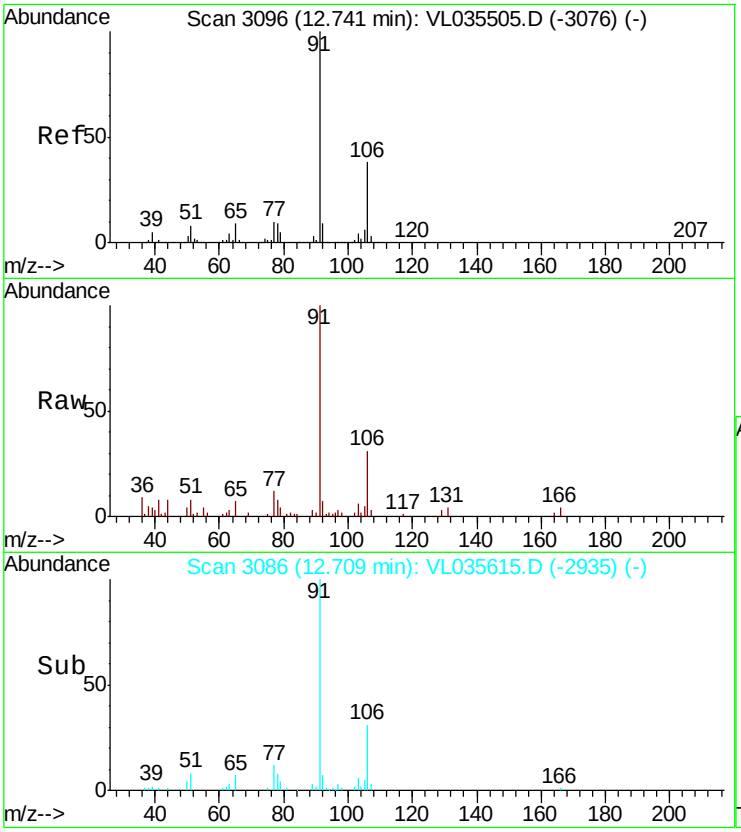


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion:117 Resp: 4333762

Ion	Ratio	Lower	Upper
117	100		
82	54.7	41.6	62.4
119	34.4	29.3	43.9



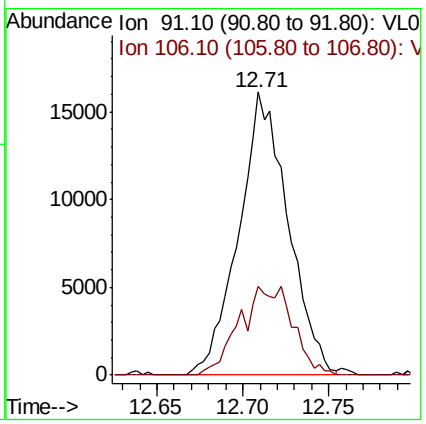


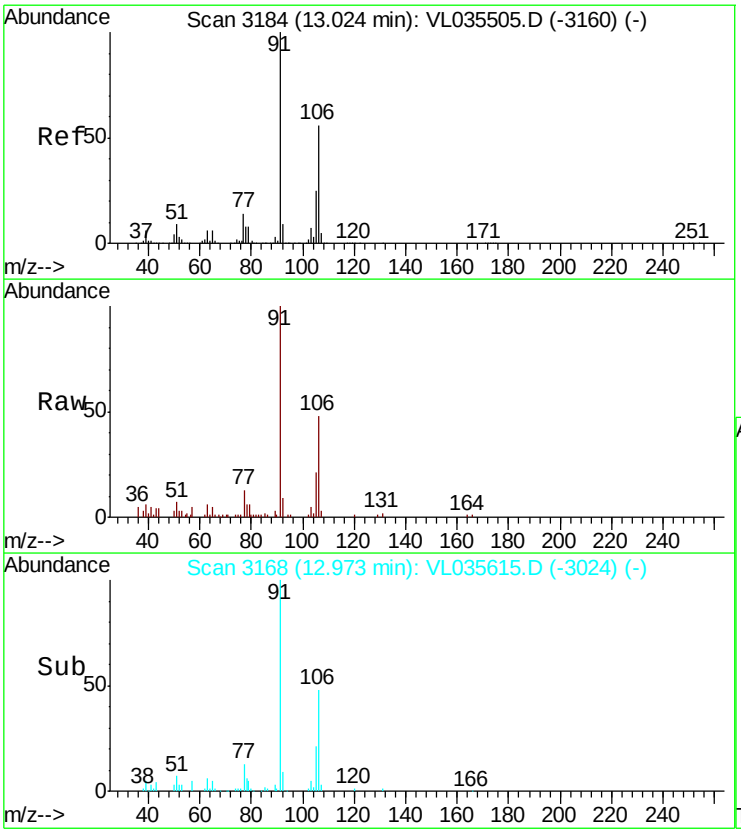
#58
Ethyl Benzene
Concen: 0.072 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument : MSVOA_L
ClientSampleId : SV-11A

Tgt Ion: 91 Resp: 32086

Ion	Ratio	Lower	Upper
91	100		
106	31.4	30.3	45.5

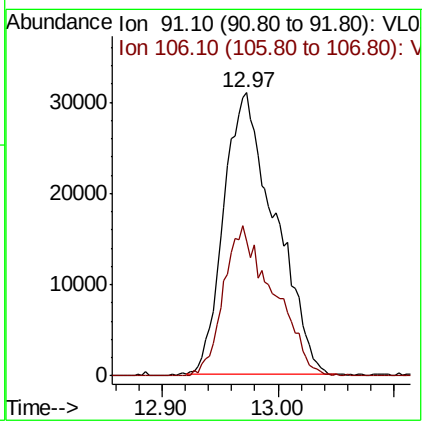


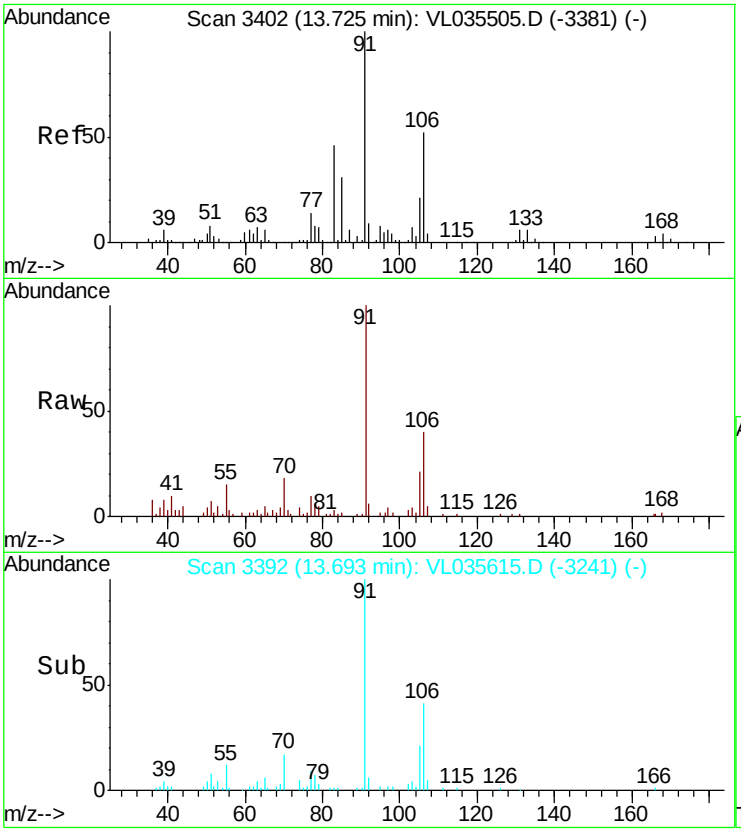


#59
m/p-Xylene
Concen: 0.254 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.04 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 91 Resp: 94915

Ion	Ratio	Lower	Upper
91	100		
106	51.9	43.4	65.2



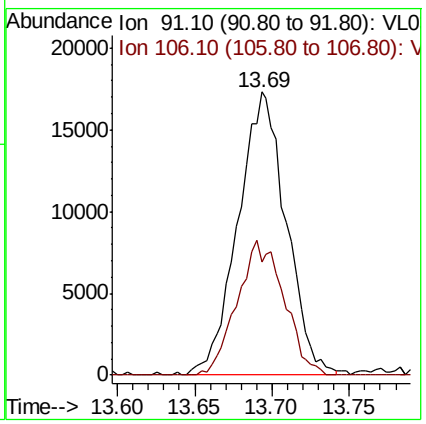


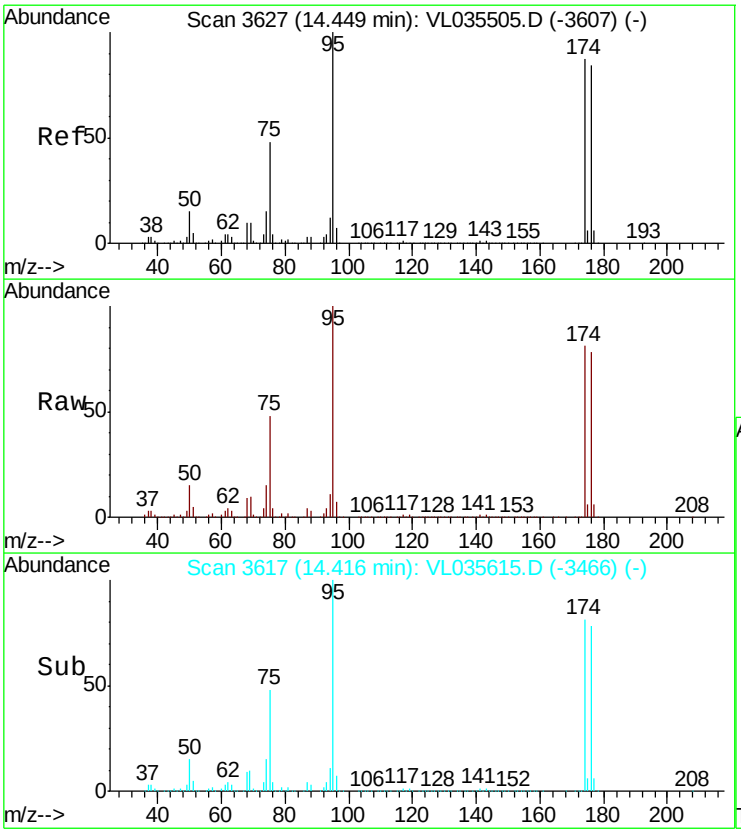
#60
o-Xylene
Concen: 0.100 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument : MSVOA_L
ClientSampleId : SV-11A

Tgt Ion: 91 Resp: 37578

Ion	Ratio	Lower	Upper
91	100		
106	45.9	25.8	77.4

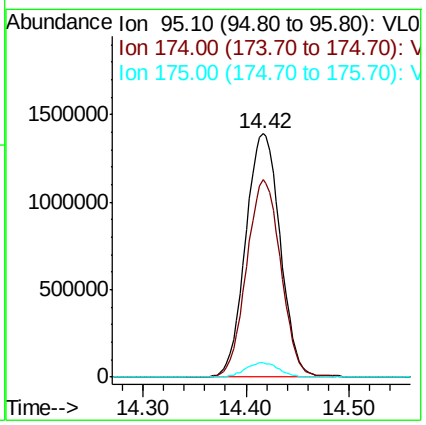


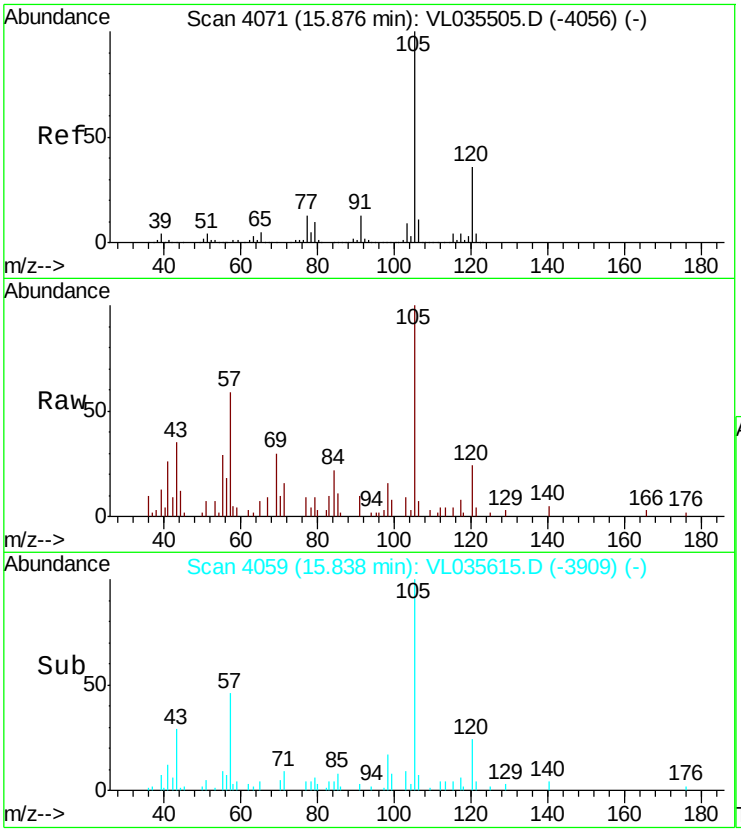


#68
1-Bromo-4-Fluorobenzene
Concen: 10.522 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion: 95 Resp: 3238420

Ion	Ratio	Lower	Upper
95	100		
174	81.0	69.6	104.4
175	5.8	5.1	7.7



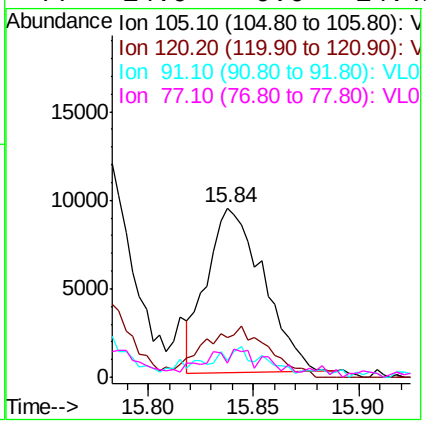


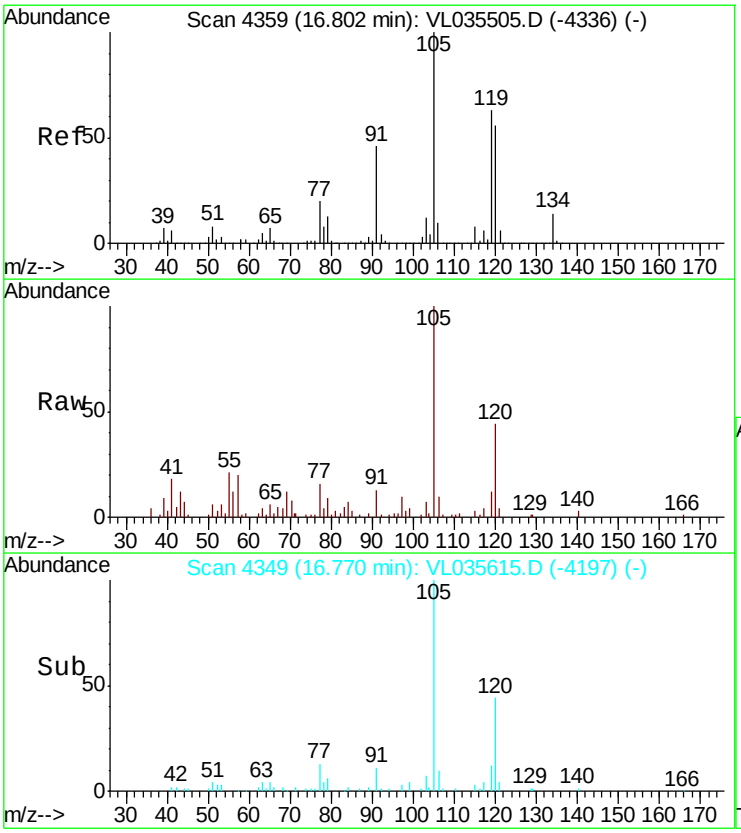
#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 15.84 min Scan# 4059
Delta R.T. -0.02 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Instrument :
MSVOA_L
ClientSampleId :
SV-11A

Tgt Ion:105 Resp: 17324

Ion	Ratio	Lower	Upper
105	100		
120	35.2	27.4	41.2
91	21.9	9.7	14.5#
77	14.9	9.6	14.4#





#74
1,2,4-Trimethylbenzene
Concen: 0.045 ppbv
RT: 16.77 min Scan# 4349
Delta R.T. -0.01 min
Lab File: VL035615.D
Acq: 15 Sep 2020 1:26

Tgt Ion:105 Resp: 22095

Ion	Ratio	Lower	Upper
105	100		
120	44.3	44.4	66.6#
91	11.9	37.1	55.7#
77	14.9	16.0	24.0#