Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031722\
Data File : VL038629.D
Acq On : 17 Mar 2022 16:54
Operator : SY/AP
Sample : N1976-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA-2A

Quant Time: Mar 18 03:33:33 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 08 21:18:44 2022
QLast Update : Tue Mar 08 21:18:44 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.67	49	875622	10.00	ppbv		0.02
33) 1,4-Difluorobenzene	7.18	114	2210770	10.00	ppbv		0.02
55) Chlorobenzene-d5	12.09	117	1905109	10.00	ppbv		0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.42	95	1360168	9.39	ppbv		0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 93.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.06	85	19787	0.15	ppbv		97
3) Chlorodifluoromethane	3.00	51	1108570	7.18	ppbv		97
4) Chloromethane	3.15	50	30582	0.53	ppbv		94
9) Propene	3.21	41	344026	6.31	ppbv		95
10) Heptane	8.13	43	17915	0.14	ppbv	#	14
11) Trichlorofluoromethane	3.96	101	23380	0.20	ppbv		95
12) 1,1,2-Trichlorotrifluoroet	4.49	101	3578	0.04	ppbv	#	10
13) Ethanol	3.63	45	11417951	1824.47	ppbv		96
15) Acetone	3.85	43	432815	7.01	ppbv	#	70
16) 1,3-Butadiene	3.32	39	20357	0.41	ppbv	#	32
17) tert-Butyl alcohol	4.31	59	2915	0.04	ppbv	#	73
19) Isopropyl Alcohol	3.99	45	724966	17.58	ppbv		100
20) Methylene Chloride	4.35	84	143769	3.87	ppbv		97
21) Allyl Chloride	4.37	41	5853	0.10	ppbv	#	1
23) Vinyl Acetate	5.06	43	34553	0.39	ppbv	#	1
25) Ethyl Acetate	5.69	43	368531	1.77	ppbv	#	92
26) Hexane	5.70	57	291984	2.99	ppbv	#	65
29) Chloroform	5.75	83	5001	0.03	ppbv		87
30) Cyclohexane	7.14	84	11324	0.13	ppbv	#	1
31) cis-1,2-Dichloroethene	5.68	61	20910	0.22	ppbv	#	25
34) 2-Butanone	5.25	43	61043	1.07	ppbv		93
35) Carbon Tetrachloride	7.02	117	7775	0.05	ppbv		87
36) Benzene	6.90	78	135045	0.68	ppbv		97
39) 1,2-Dichloropropane	7.18	63	513650	6.69	ppbv	#	26
41) Tetrahydrofuran	6.07	42	1315	0.03	ppbv	#	1
44) 2,2,4-Trimethylpentane	7.87	57	84923	0.25	ppbv	#	75
50) 4-Methyl-2-Pentanone	8.76	43	15162	0.13	ppbv		88
53) Toluene	9.81	91	853369	4.01	ppbv		99
58) Ethyl Benzene	12.72	91	42798	0.17	ppbv		93
59) m/p-Xylene	13.00	91	22665	0.11	ppbv	#	30
60) o-Xylene	13.70	91	46936	0.24	ppbv		100
61) Styrene	13.53	104	2103	0.02	ppbv	#	1
64) n-propylbenzene	15.77	120	5016	0.07	ppbv		97
69) p-Isopropyltoluene	17.65	119	29497	0.10	ppbv	#	88
73) 1,3,5-Trimethylbenzene	16.00	105	6186	0.03	ppbv	#	81
74) 1,2,4-Trimethylbenzene	16.78	105	12674	0.06	ppbv	#	75

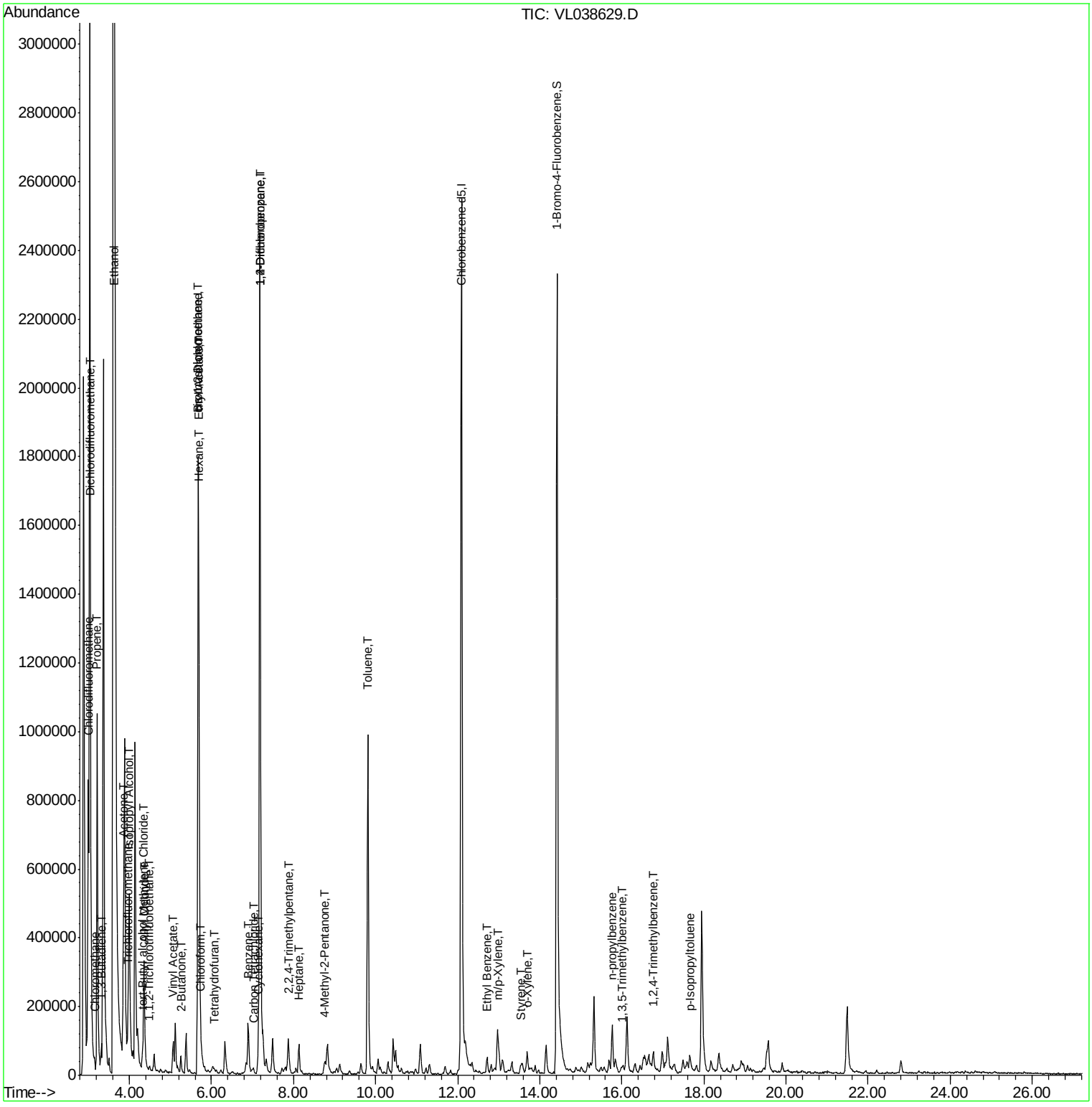
(#) = qualifier out of range (m) = manual integration (+) = signals summed

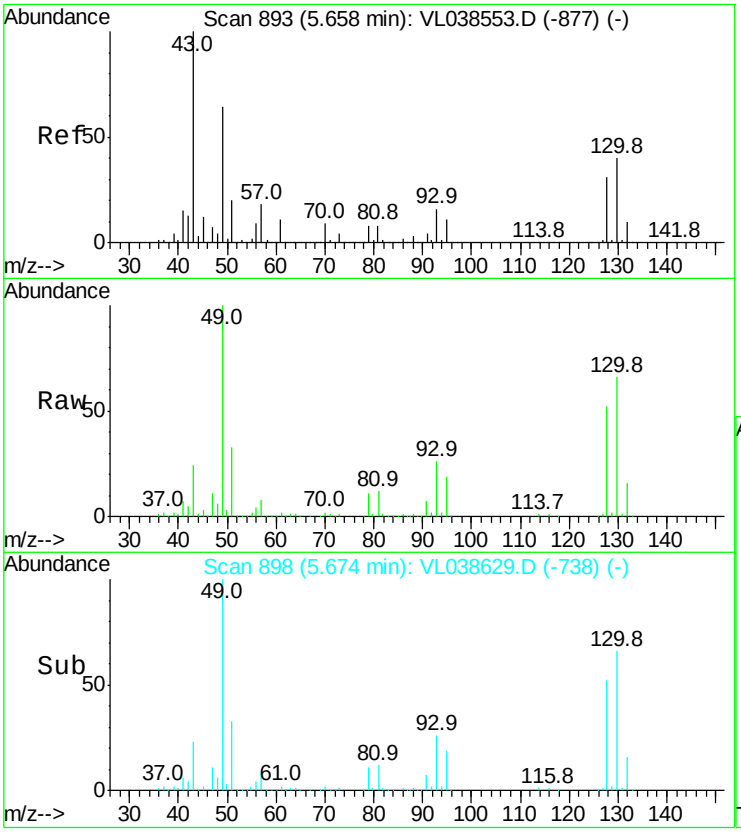
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031722\
Data File : VL038629.D
Acq On : 17 Mar 2022 16:54
Operator : SY/AP
Sample : N1976-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Quant Time: Mar 18 03:33:33 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 08 21:18:44 2022
QLast Update : Tue Mar 08 21:18:44 2022
Response via : Initial Calibration



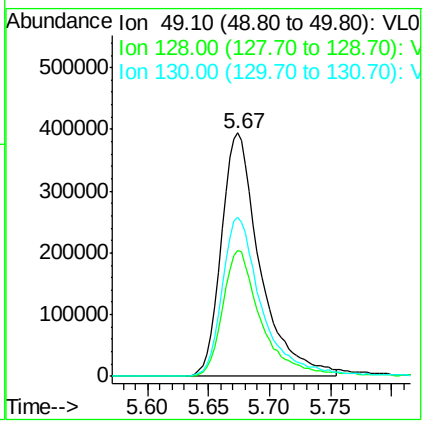


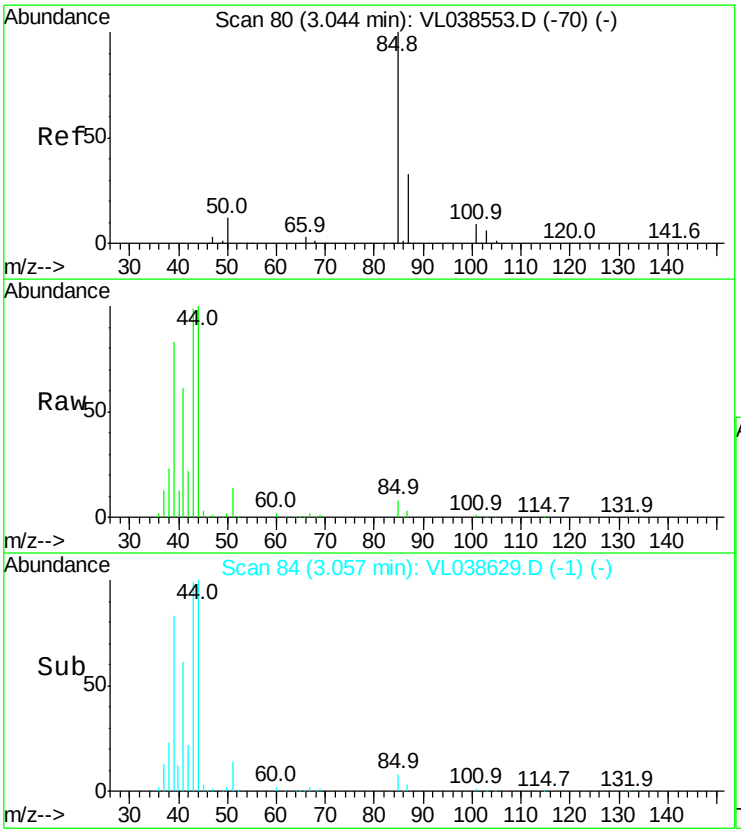
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.67
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 49 Resp: 875622

Ion	Ratio	Lower	Upper
49	100		
128	52.4	26.4	79.2
130	67.3	33.0	98.9

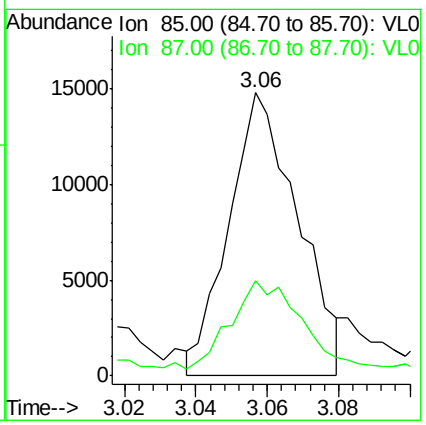


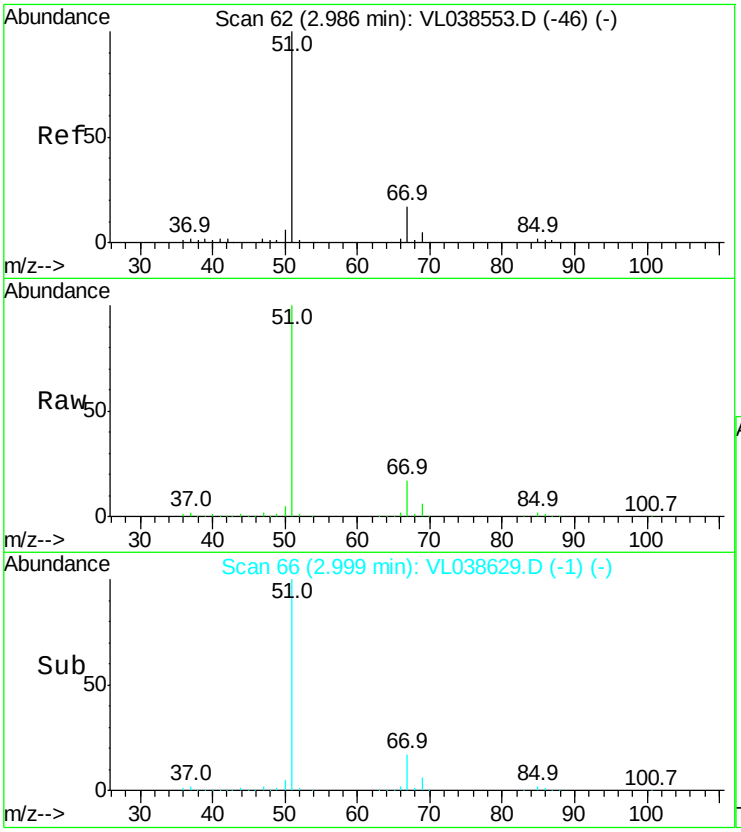


#2
Dichlorodifluoromethane
Concen: 0.15 ppbv
RT: 3.06 min Scan# 84
Delta R.T. 0.01 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 85 Resp: 19787

Ion	Ratio	Lower	Upper
85	100		
87	34.3	26.2	39.2



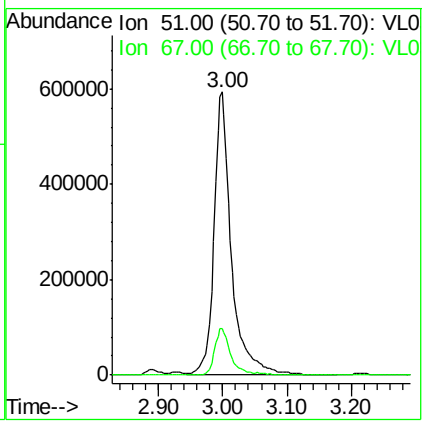


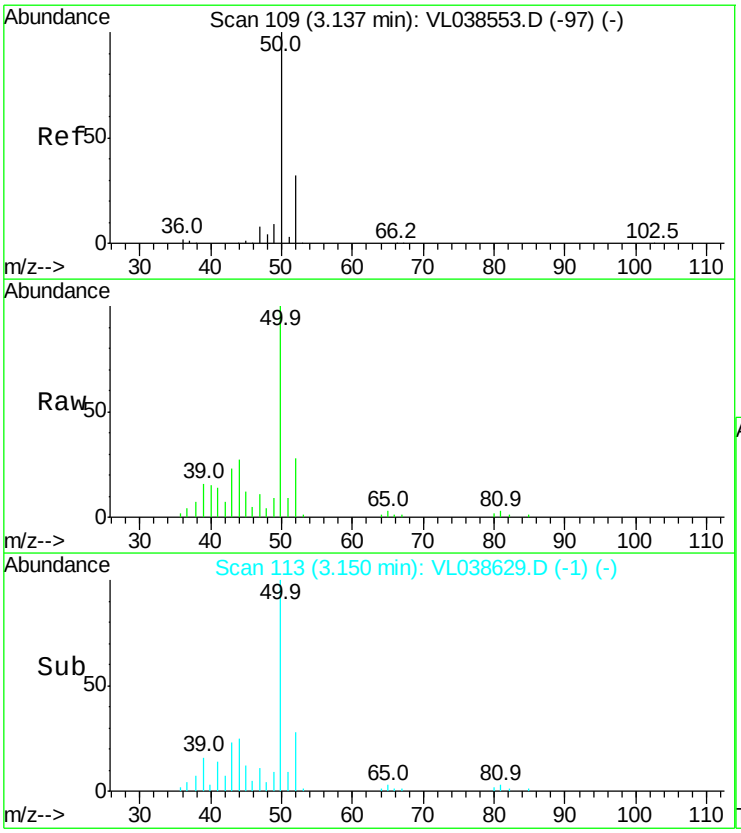
#3
Chlorodifluoromethane
Concen: 7.18 ppbv
RT: 3.00
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 51 Resp: 1108570

Ion	Ratio	Lower	Upper
51	100		
67	15.8	13.6	20.4

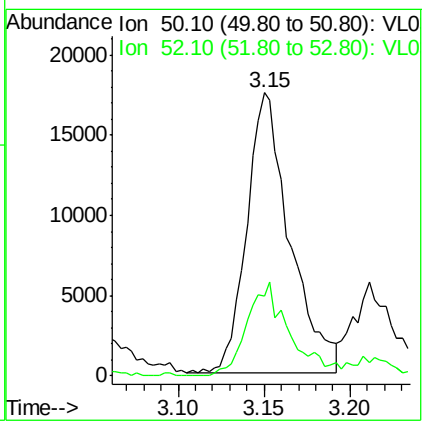


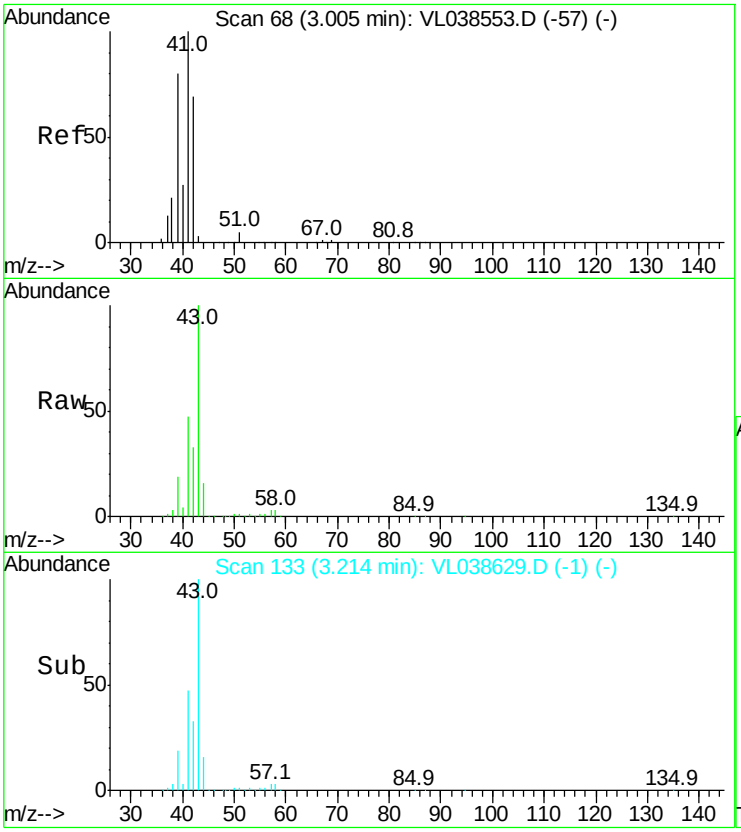


#4
Chloromethane
Concen: 0.53 ppbv
RT: 3.15 min Scan# 113
Delta R.T. 0.01 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 50 Resp: 30582

Ion	Ratio	Lower	Upper
50	100		
52	28.6	25.6	38.4



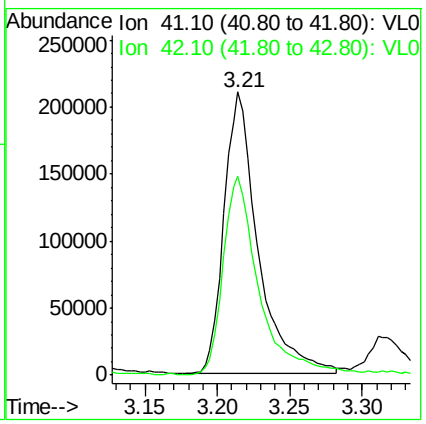


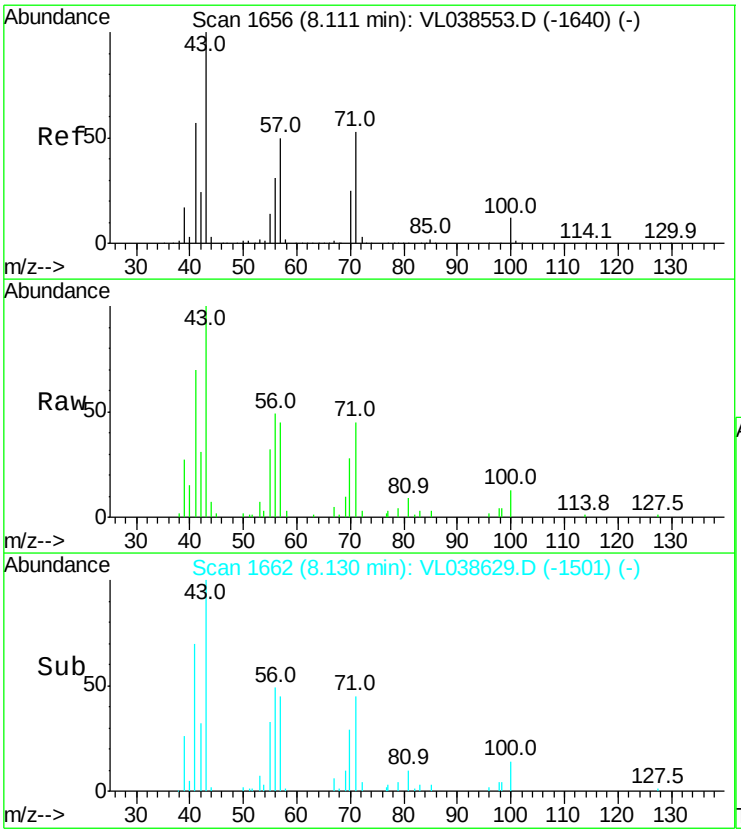
#9
Propene
Concen: 6.31 ppbv
RT: 3.21
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 41 Resp: 344026

Ion	Ratio	Lower	Upper
41	100		
42	73.7	55.7	83.5

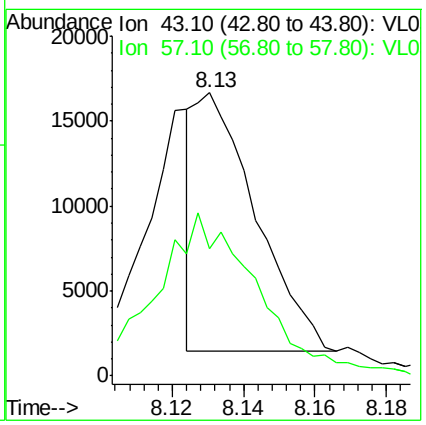


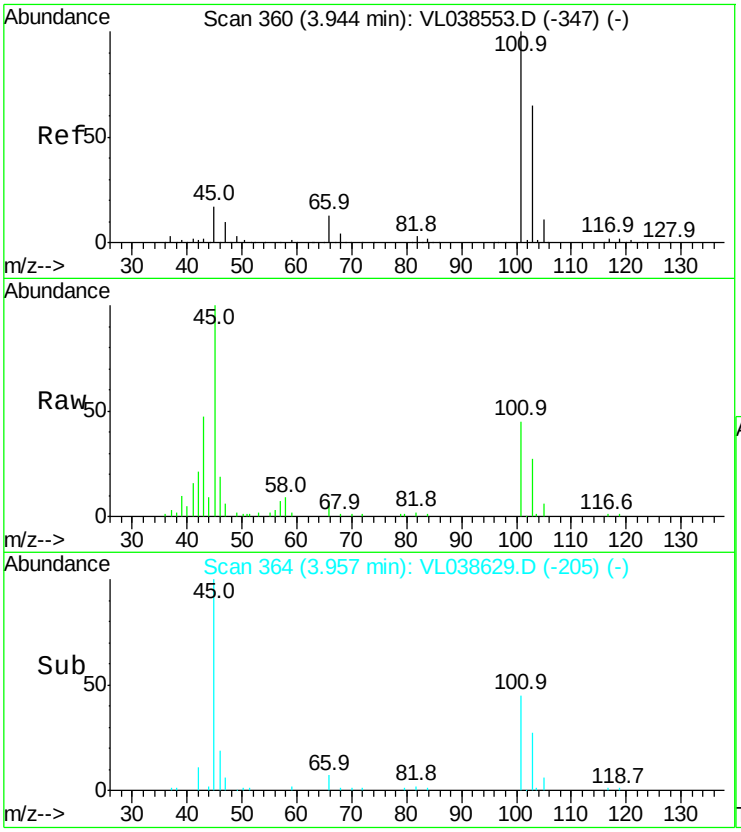


#10
Heptane
Concen: 0.14 ppbv
RT: 8.13 min Scan# 1662
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 43 Resp: 17915

Ion	Ratio	Lower	Upper
43	100		
57	108.1	39.6	59.4#



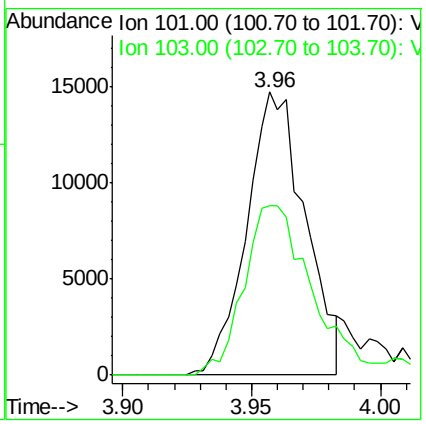


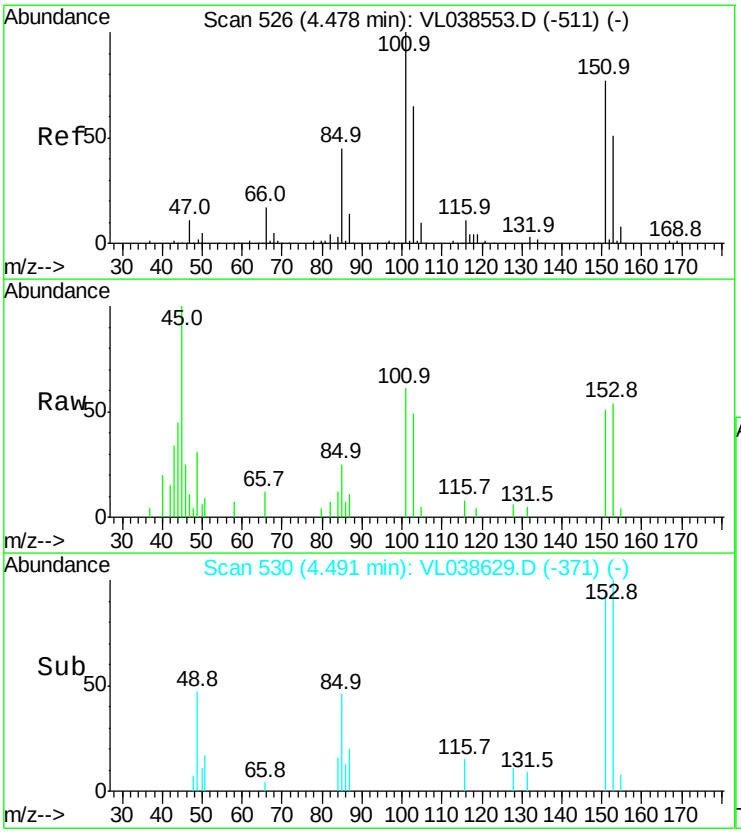
#11
Trichlorofluoromethane
Concen: 0.20 ppbv
RT: 3.96
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion:101 Resp: 23380

Ion	Ratio	Lower	Upper
101	100		
103	61.0	52.0	78.0

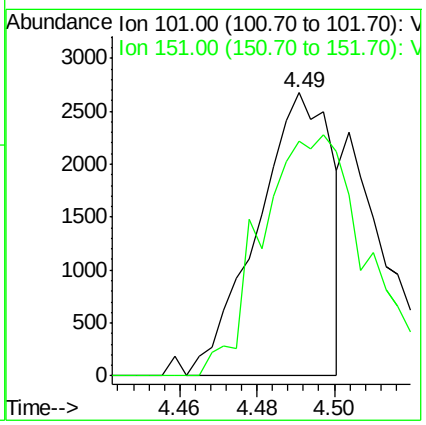


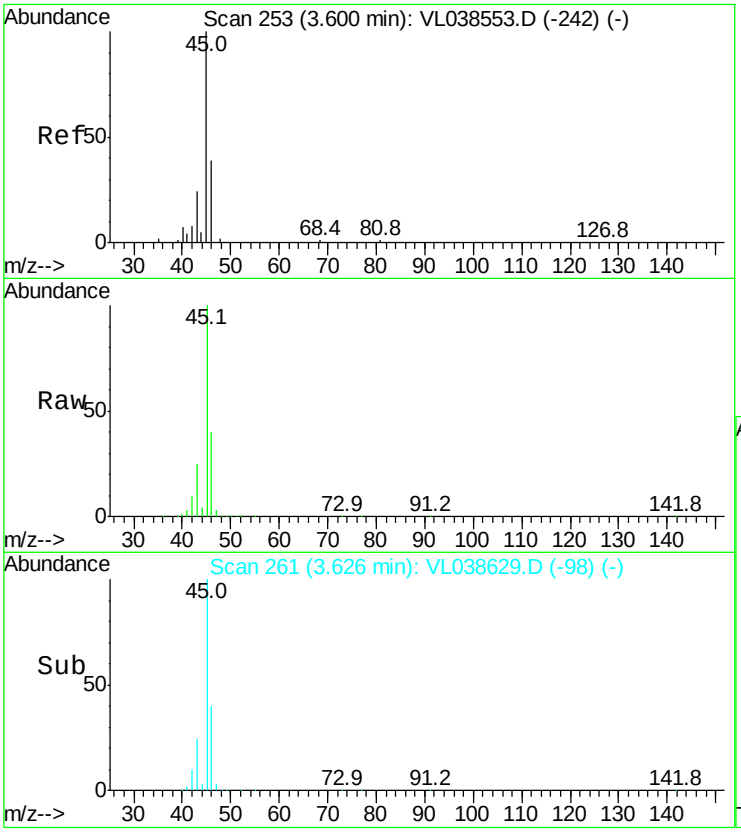


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.04 ppbv
RT: 4.49 min Scan# 530
Delta R.T. 0.01 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion:101 Resp: 3578

Ion	Ratio	Lower	Upper
101	100		
151	0.0	63.4	95.0#



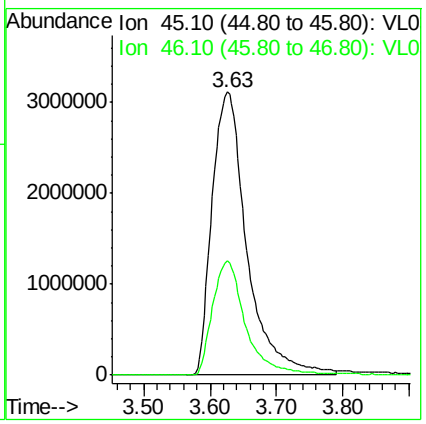


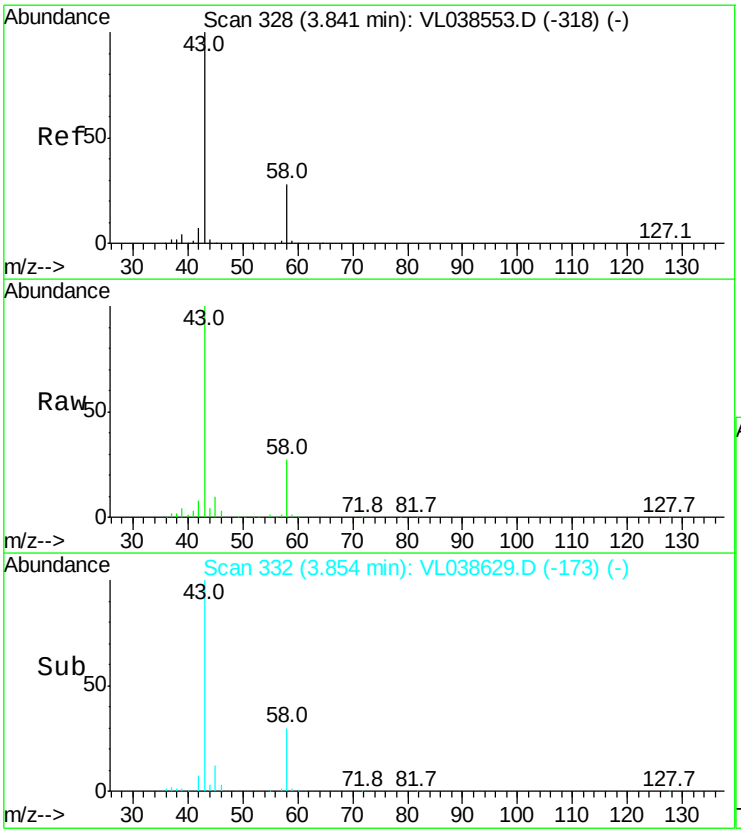
#13
Ethanol
Concen: 1824.47 ppbv
RT: 3.63
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 45 Resp:11417951

Ion	Ratio	Lower	Upper
45	100		
46	39.1	16.8	67.0

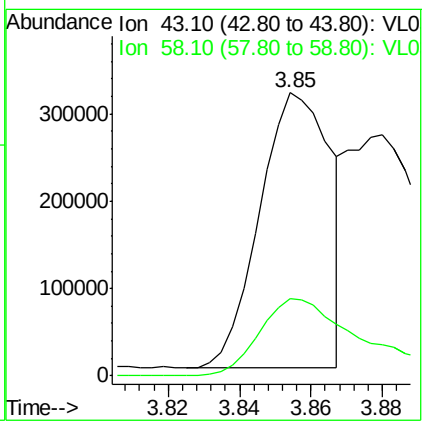


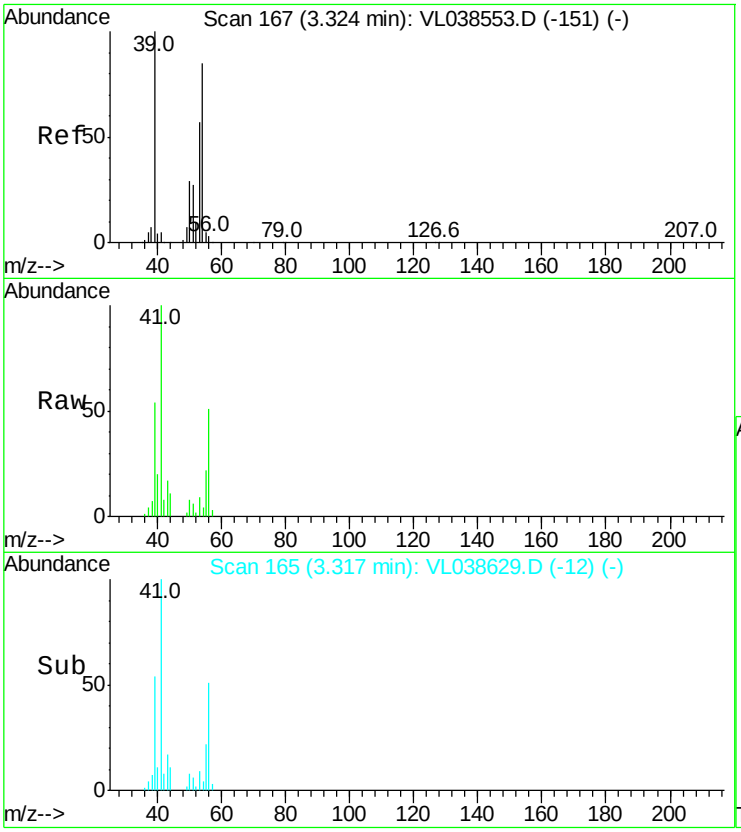


#15
Acetone
Concen: 7.01 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 43 Resp: 432815

Ion	Ratio	Lower	Upper
43	100		
58	44.2	22.7	34.1#



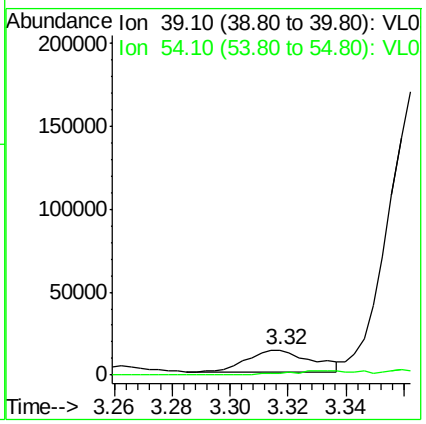


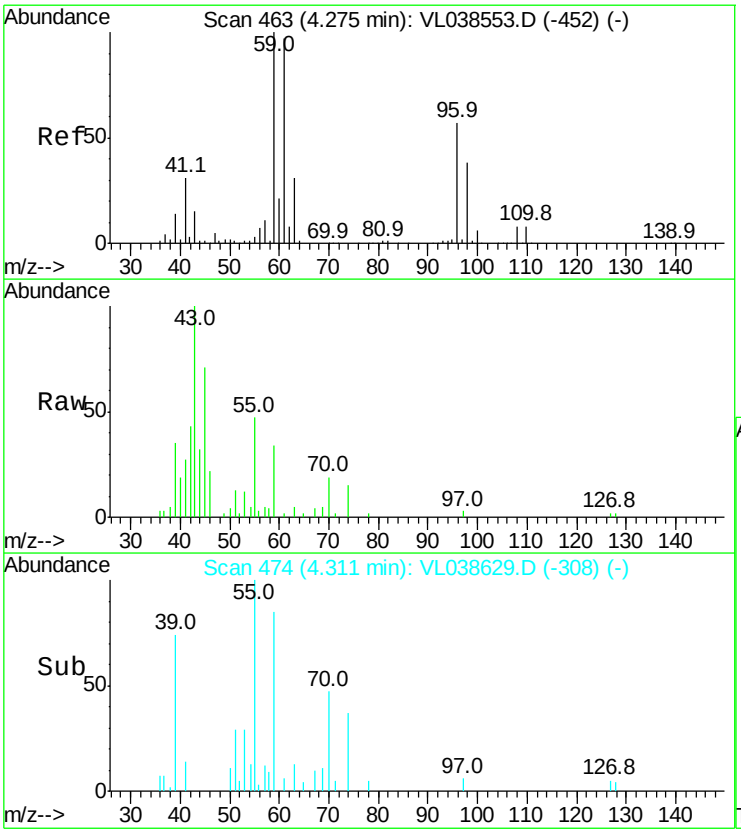
#16
1,3-Butadiene
Concen: 0.41 ppbv
RT: 3.32
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 39 Resp: 20357

Ion	Ratio	Lower	Upper
39	100		
54	19.8	64.2	96.2#

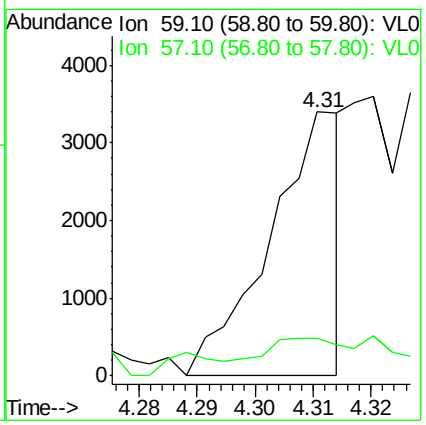


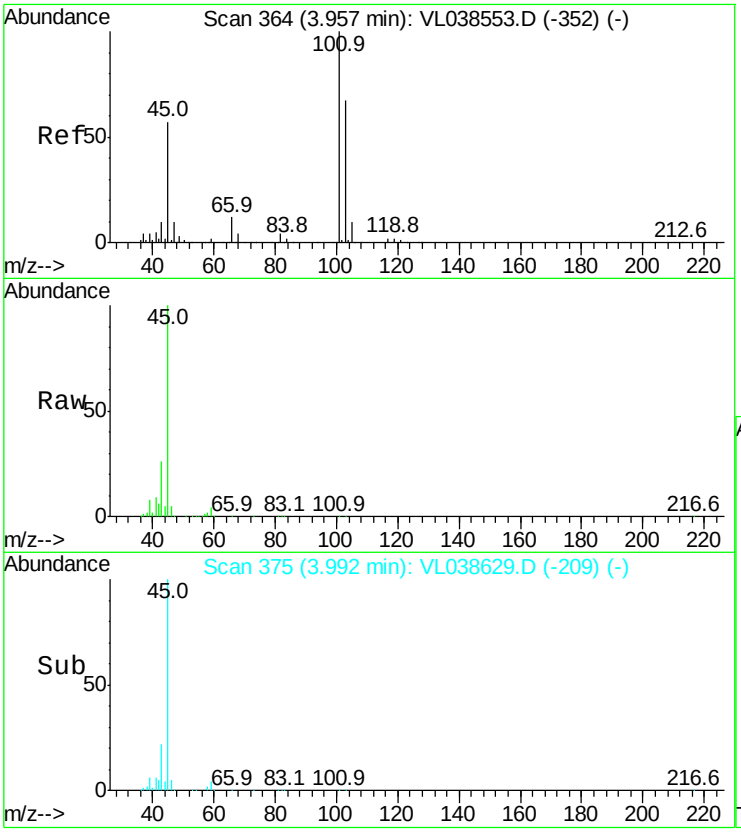


#17
tert-Butyl alcohol
Concen: 0.04 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.04 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 59 Resp: 2915

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.1	12.1#



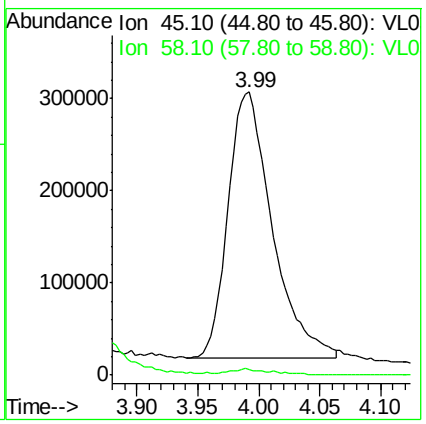


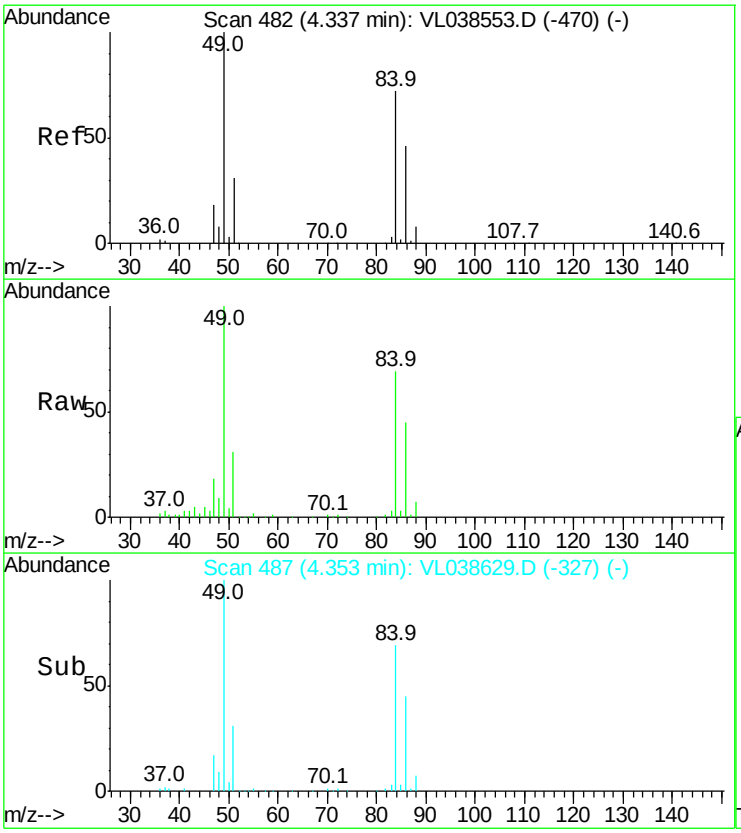
#19
Isopropyl Alcohol
Concen: 17.58 ppbv
RT: 3.99
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 45 Resp: 724966

Ion	Ratio	Lower	Upper
45	100		
58	2.8	2.2	3.2

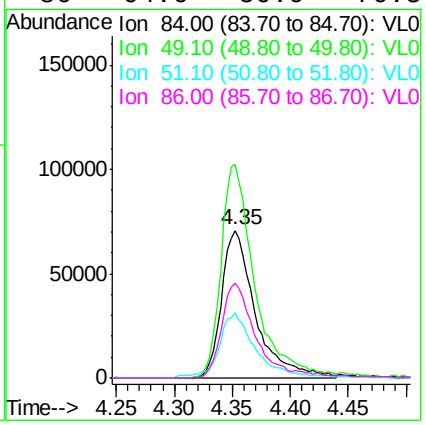


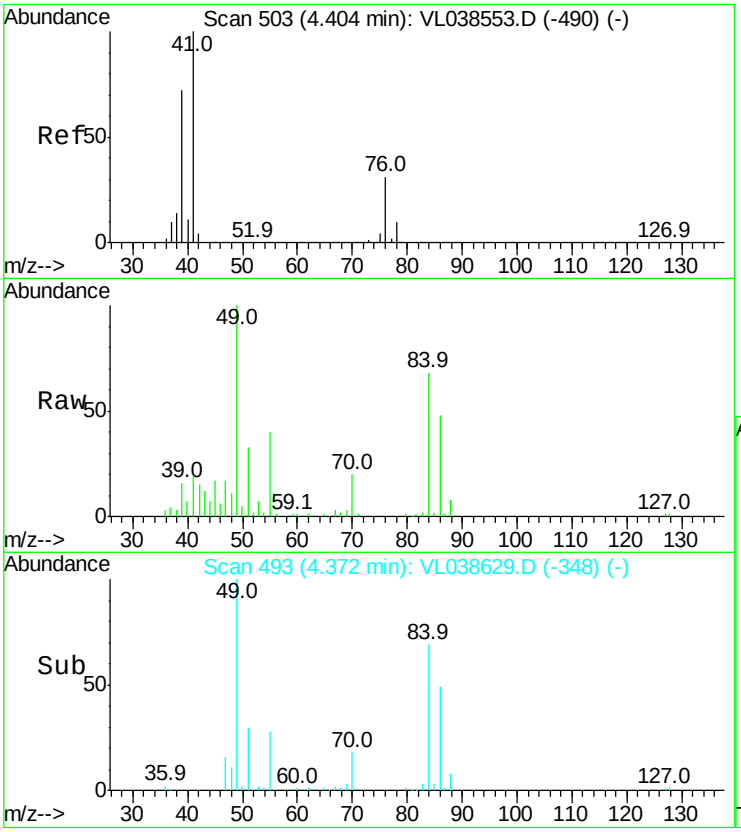


#20
Methylene Chloride
Concen: 3.87 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 84 Resp: 143769

Ion	Ratio	Lower	Upper
84	100		
49	144.9	111.1	166.7
51	43.2	34.0	51.0
86	64.6	50.9	76.3



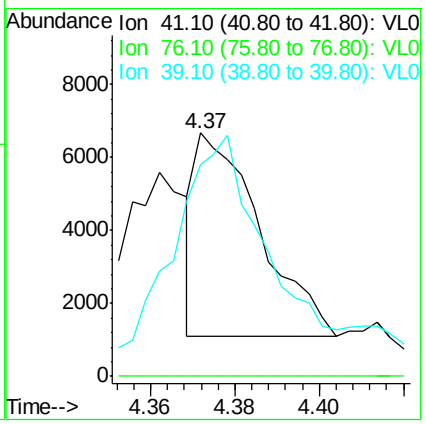


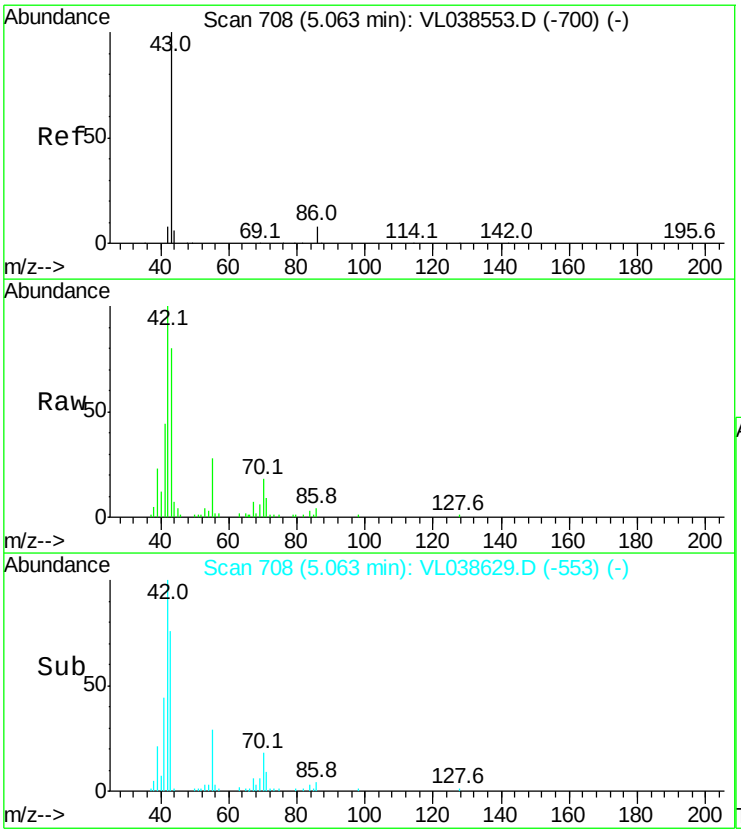
#21
Allyl Chloride
Concen: 0.10 ppbv
RT: 4.37
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 41 Resp: 5853

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.3	36.5#
39	230.3	57.1	85.7#

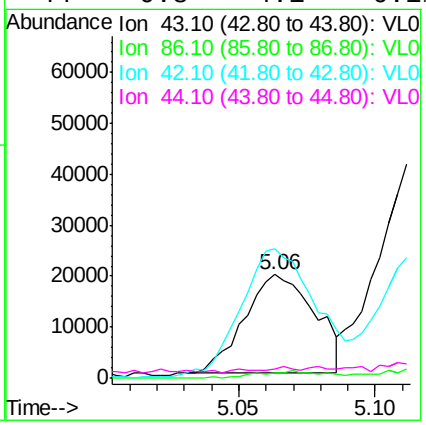


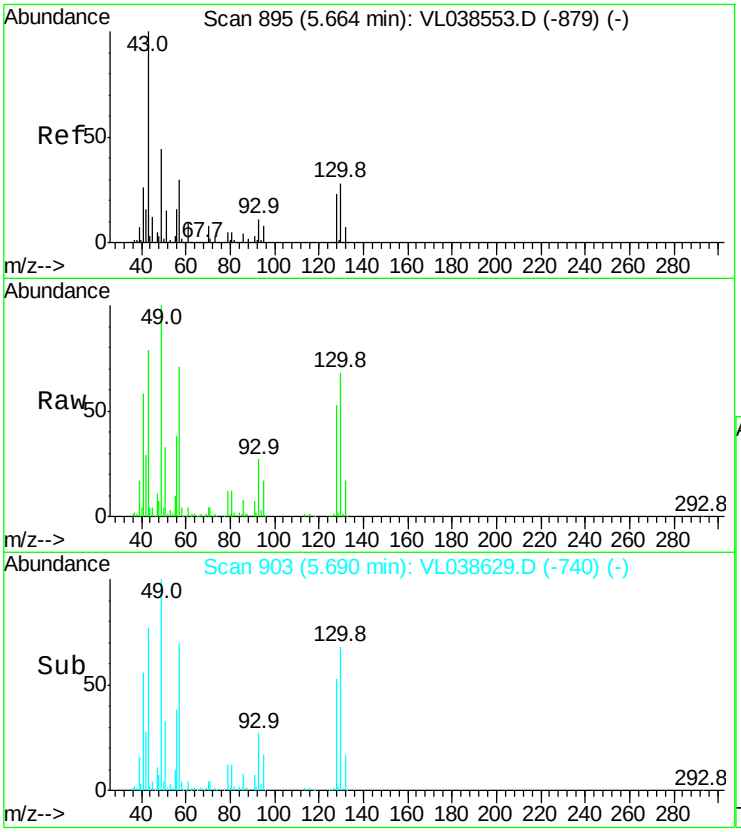


#23
Vinyl Acetate
Concen: 0.39 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.00 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 43 Resp: 34553

Ion	Ratio	Lower	Upper
43	100		
86	4.6	5.6	8.4#
42	126.7	7.1	10.7#
44	0.8	4.1	6.1#



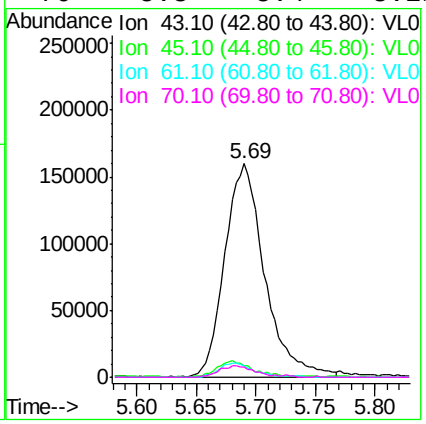


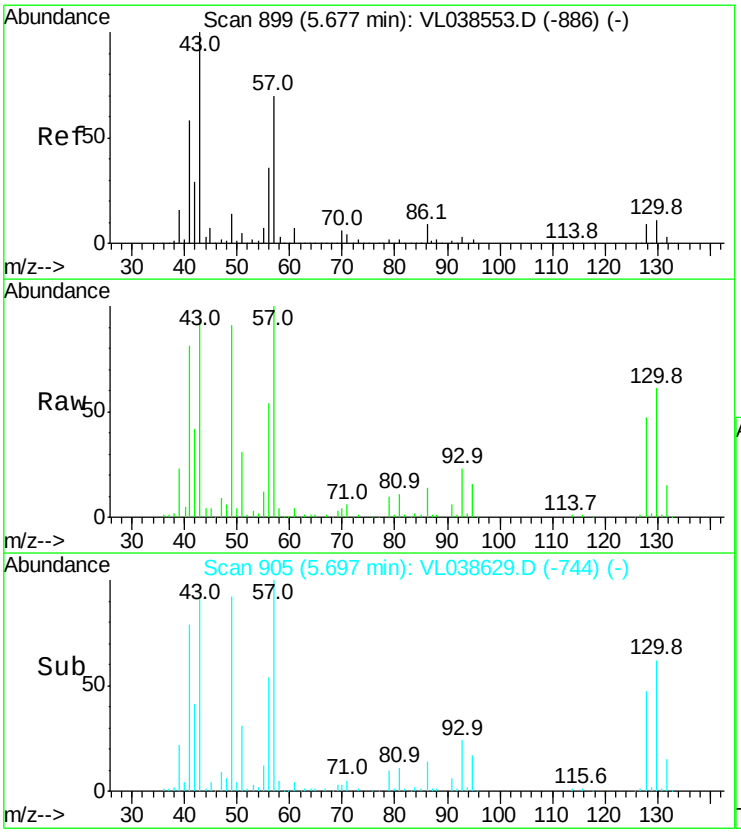
#25
Ethyl Acetate
Concen: 1.77 ppbv
RT: 5.69
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 43 Resp: 368531

Ion	Ratio	Lower	Upper
43	100		
45	6.8	8.0	12.0#
61	6.2	8.2	12.4#
70	5.3	5.4	8.2#

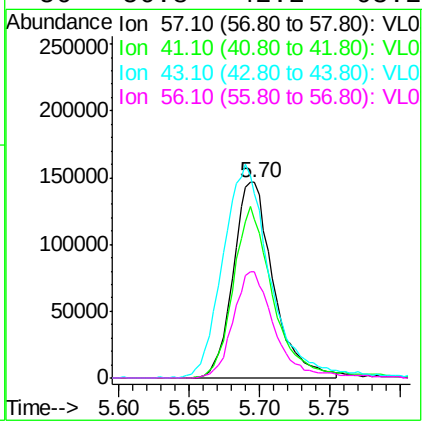


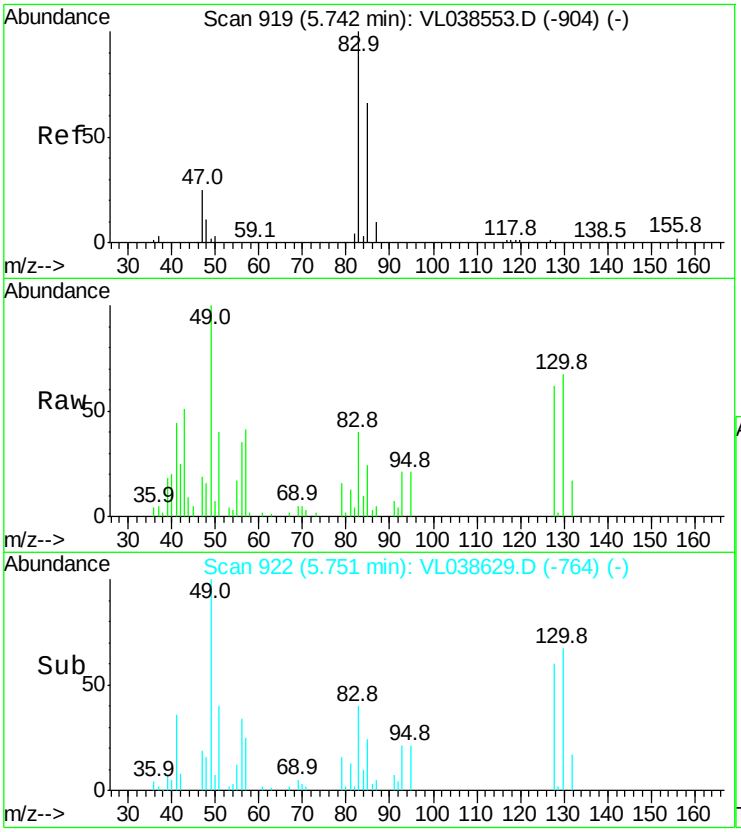


#26
Hexane
Concen: 2.99 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 57 Resp: 291984

Ion	Ratio	Lower	Upper
57	100		
41	88.2	67.8	101.6
43	129.5	173.6	260.4#
56	56.8	42.2	63.2



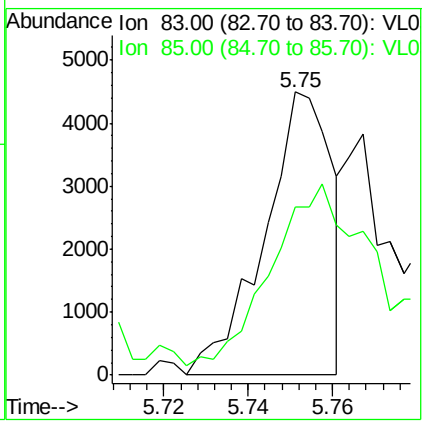


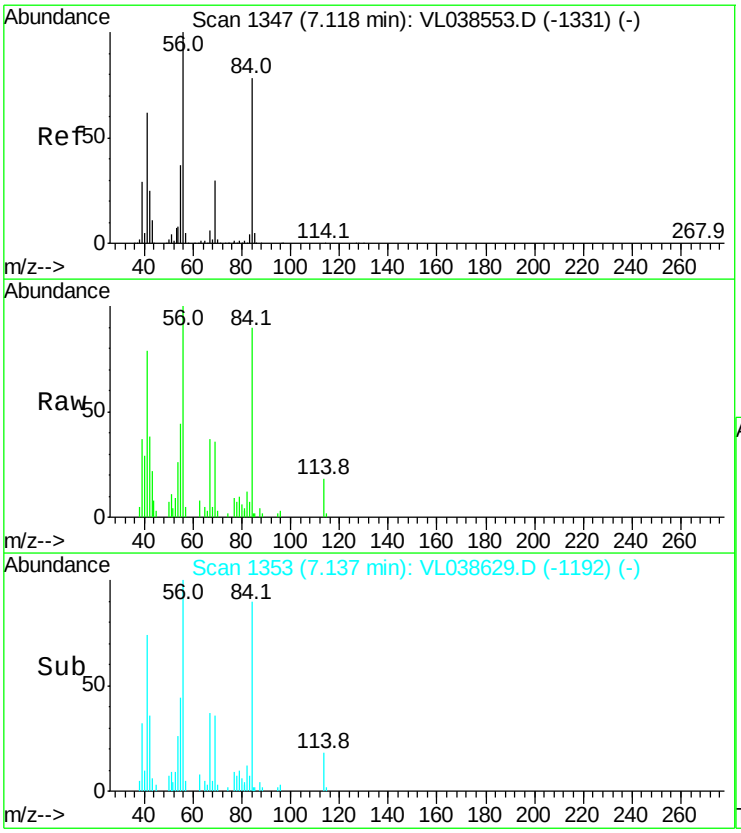
#29
Chloroform
Concen: 0.03 ppbv
RT: 5.75
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 83 Resp: 5001

Ion	Ratio	Lower	Upper
83	100		
85	55.9	52.8	79.2

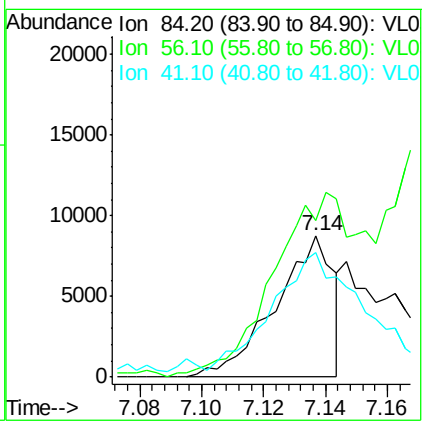


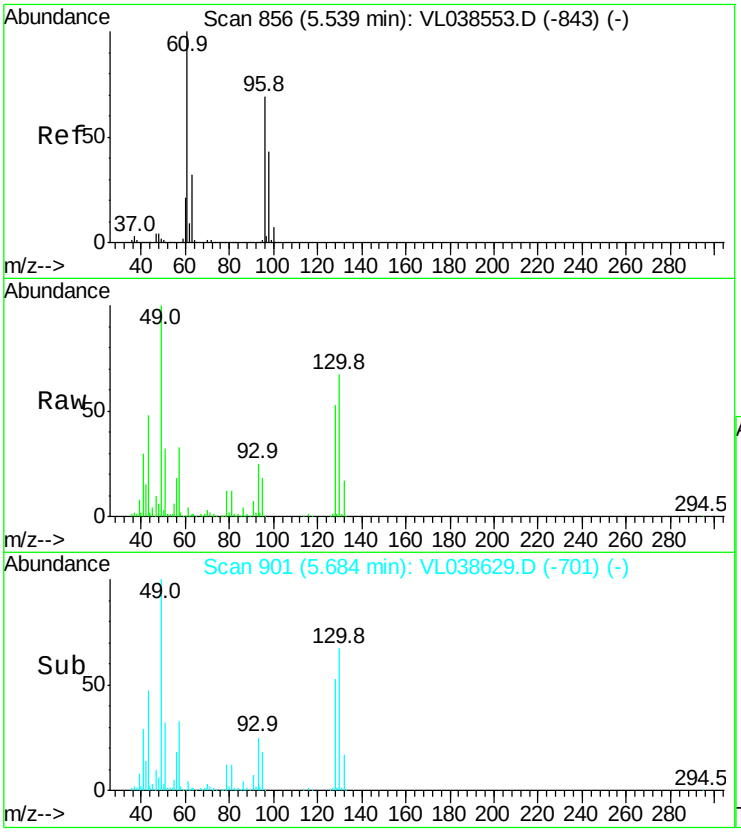


#30
Cyclohexane
Concen: 0.13 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 84 Resp: 11324

Ion	Ratio	Lower	Upper
84	100		
56	0.0	111.4	167.0#
41	151.2	65.5	98.3#



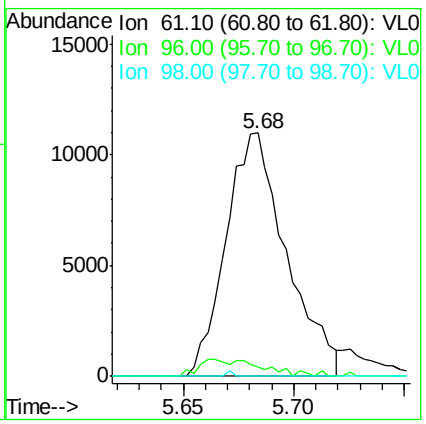


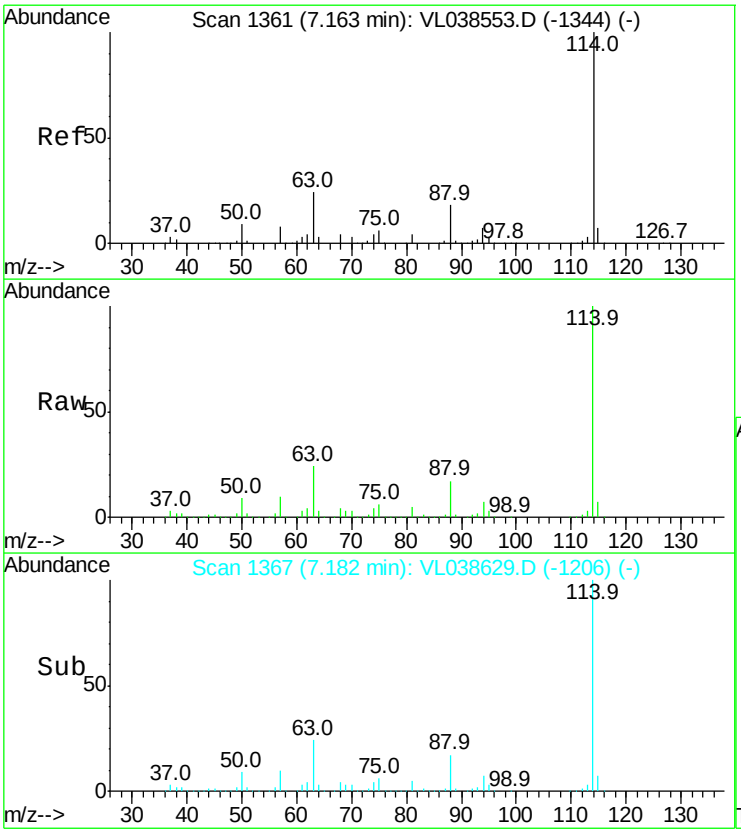
#31
cis-1,2-Dichloroethene
Concen: 0.22 ppbv
RT: 5.68
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 61 Resp: 20910

Ion	Ratio	Lower	Upper
61	100		
96	4.0	55.2	82.8#
98	0.0	34.2	51.4#

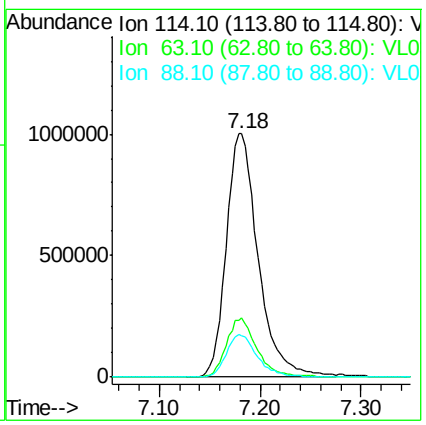


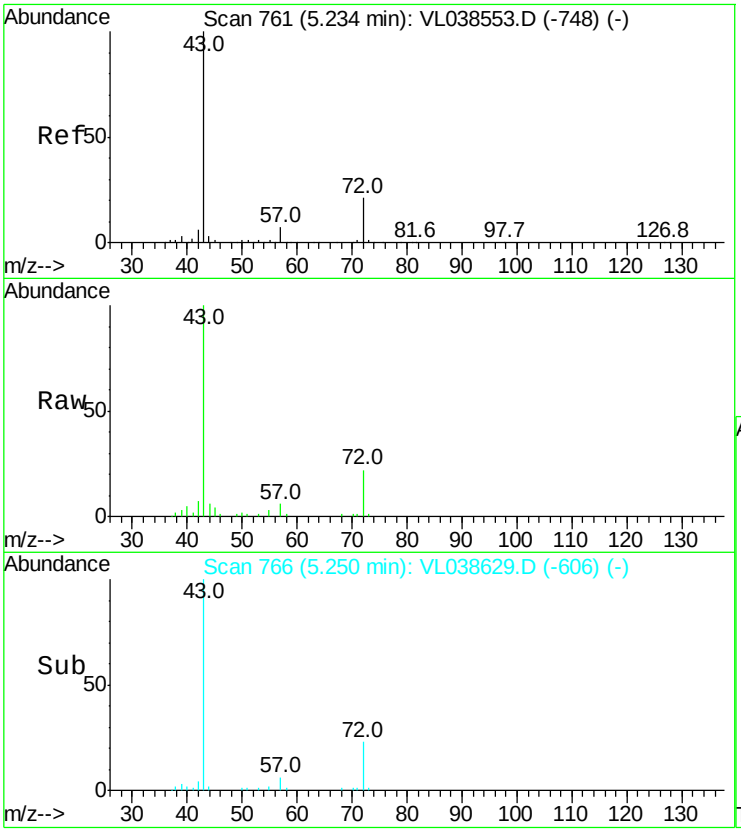


#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion:114 Resp: 2210770

Ion	Ratio	Lower	Upper
114	100		
63	23.6	19.6	29.4
88	17.2	13.9	20.9



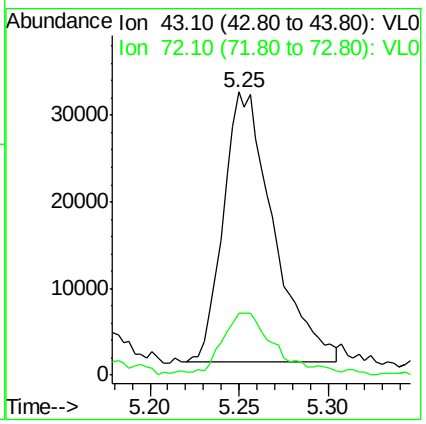


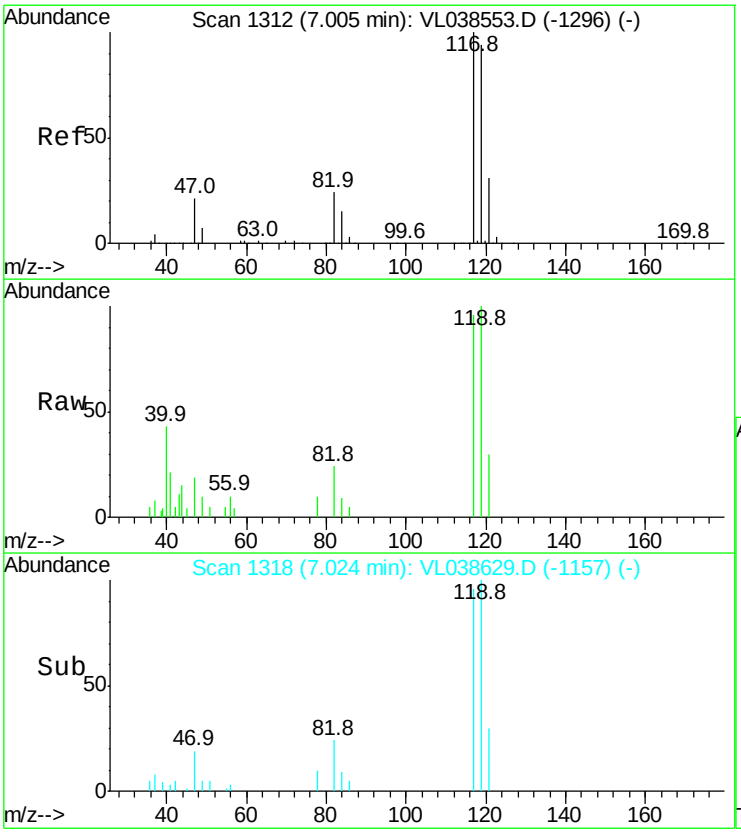
#34
2-Butanone
Concen: 1.07 ppbv
RT: 5.25
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 43 Resp: 61043

Ion	Ratio	Lower	Upper
43	100		
72	25.5	17.8	26.6

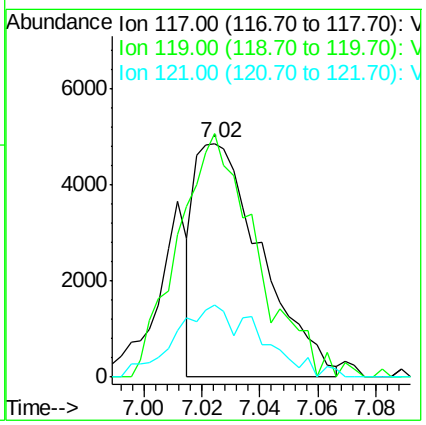


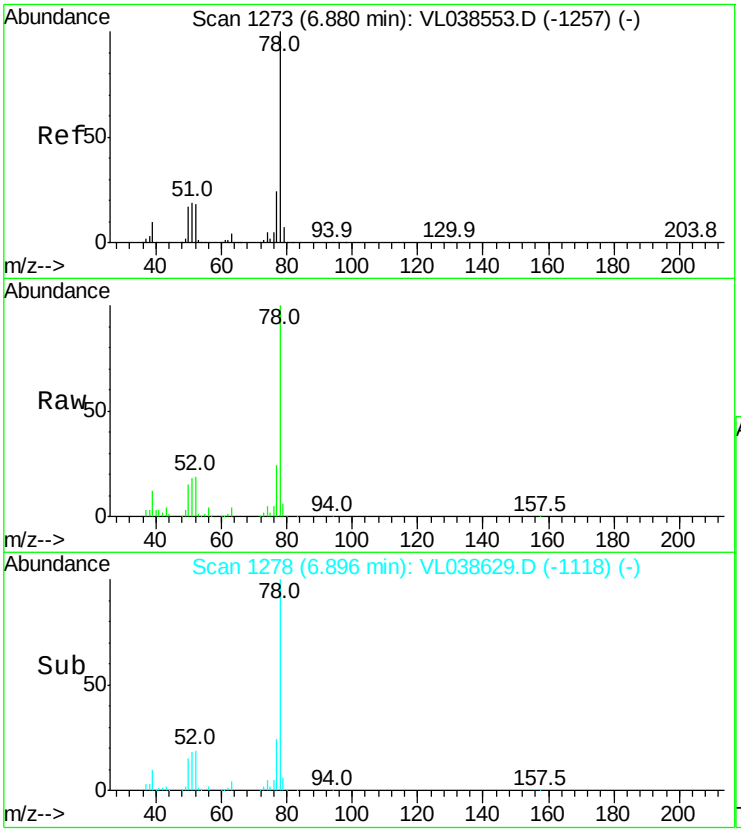


#35
Carbon Tetrachloride
Concen: 0.05 ppbv
RT: 7.02 min Scan# 1318
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion:117 Resp: 7775

Ion	Ratio	Lower	Upper
117	100		
119	109.0	75.2	112.8
121	28.7	24.8	37.2



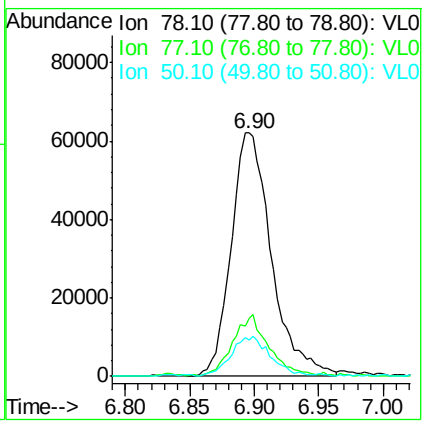


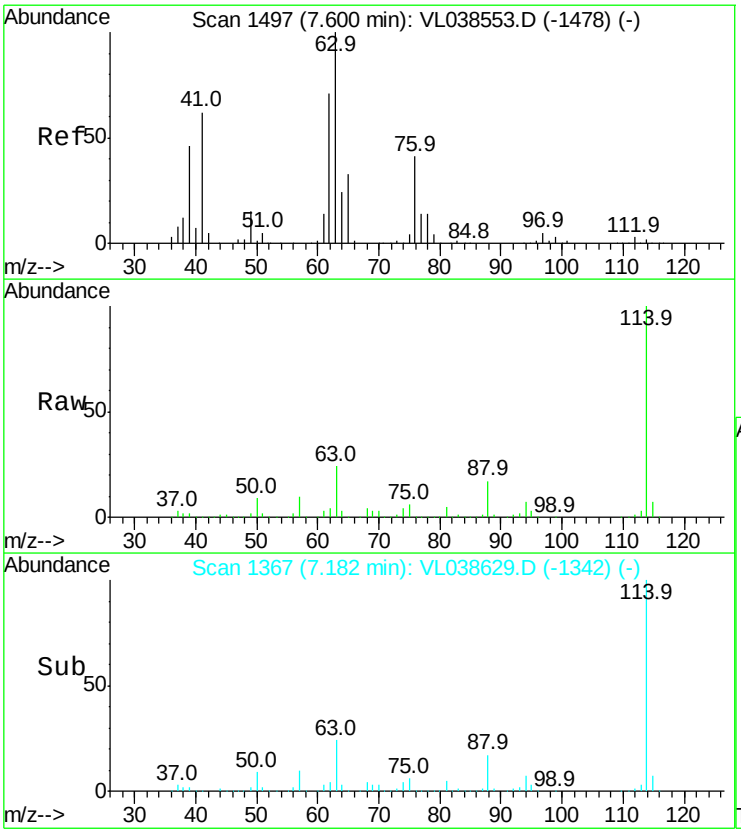
#36
Benzene
Concen: 0.68 ppbv
RT: 6.90
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 78 Resp: 135045

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4
50	14.8	13.9	20.9

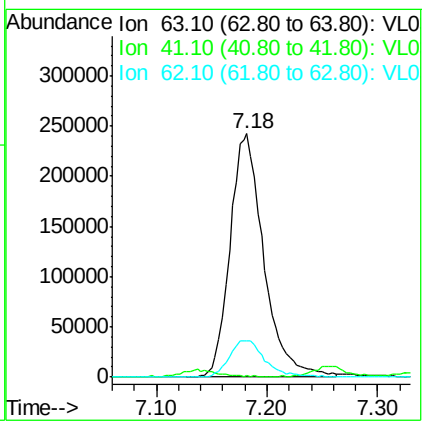


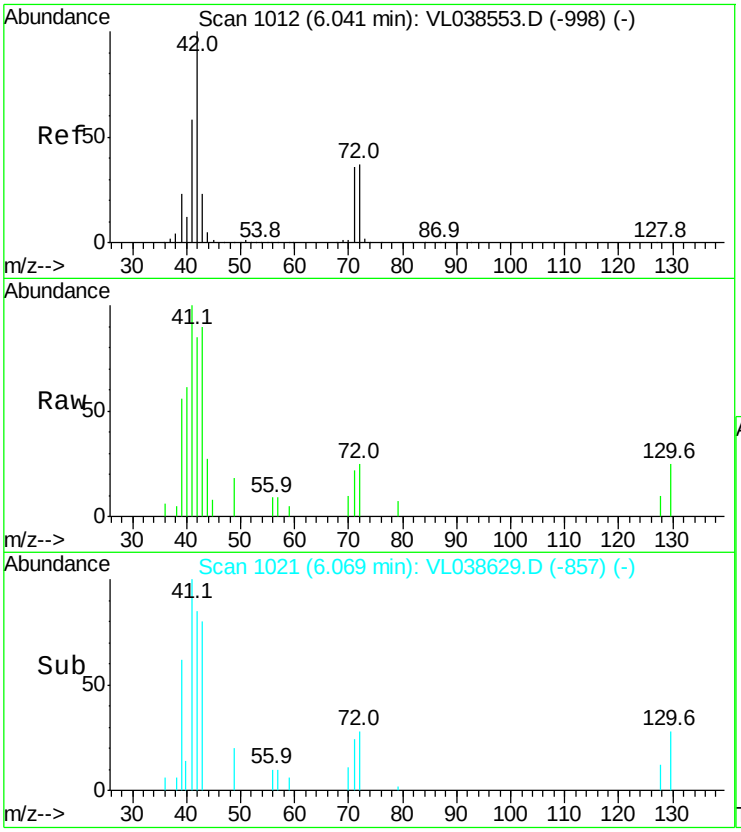


#39
1,2-Dichloropropane
Concen: 6.69 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.42 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 63 Resp: 513650

Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.8	74.6#
62	14.8	56.7	85.1#



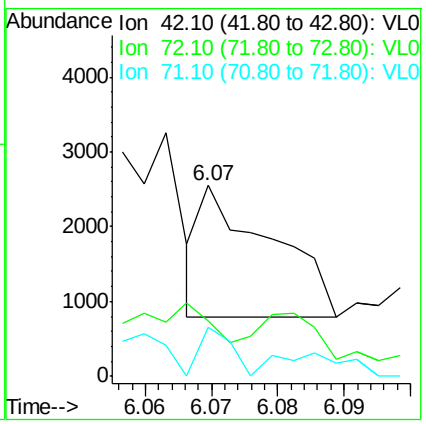


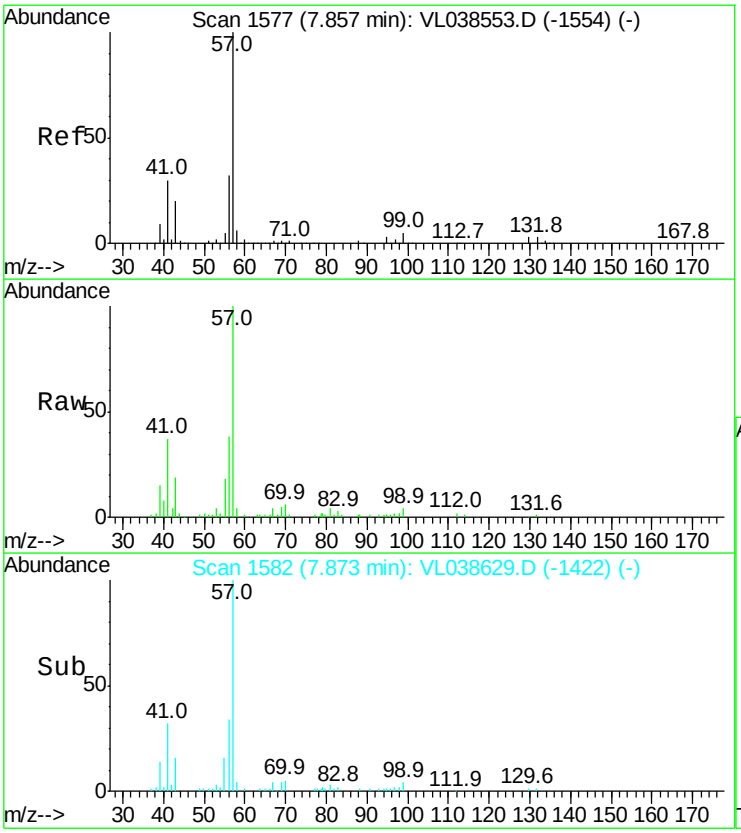
#41
Tetrahydrofuran
Concen: 0.03 ppbv
RT: 6.07
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 42 Resp: 1315

Ion	Ratio	Lower	Upper
42	100		
72	222.9	30.9	46.3#
71	45.2	29.1	43.7#

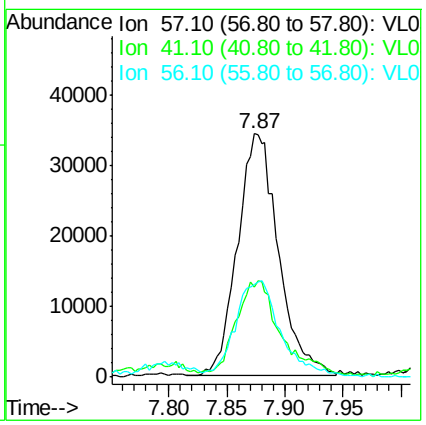


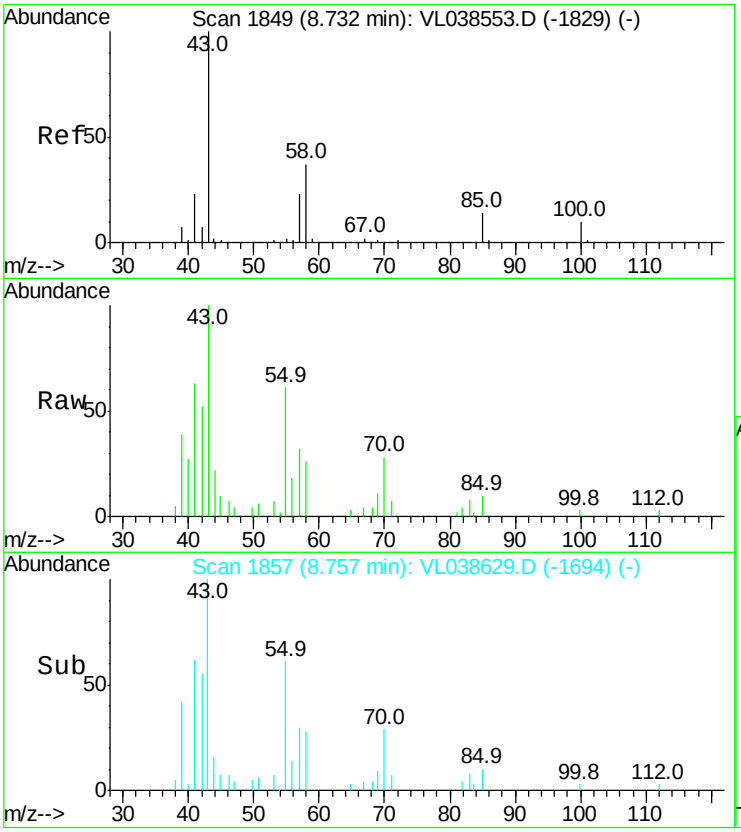


#44
2,2,4-Trimethylpentane
Concen: 0.25 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 57 Resp: 84923

Ion	Ratio	Lower	Upper
57	100		
41	45.4	24.0	36.0#
56	44.2	25.6	38.4#



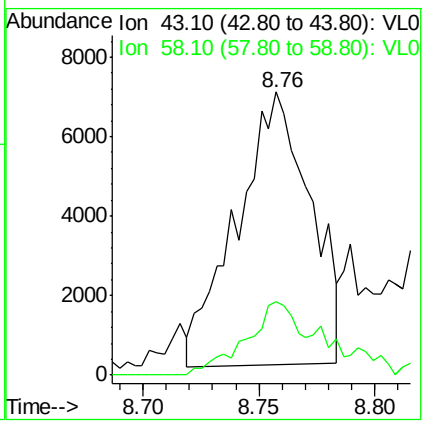


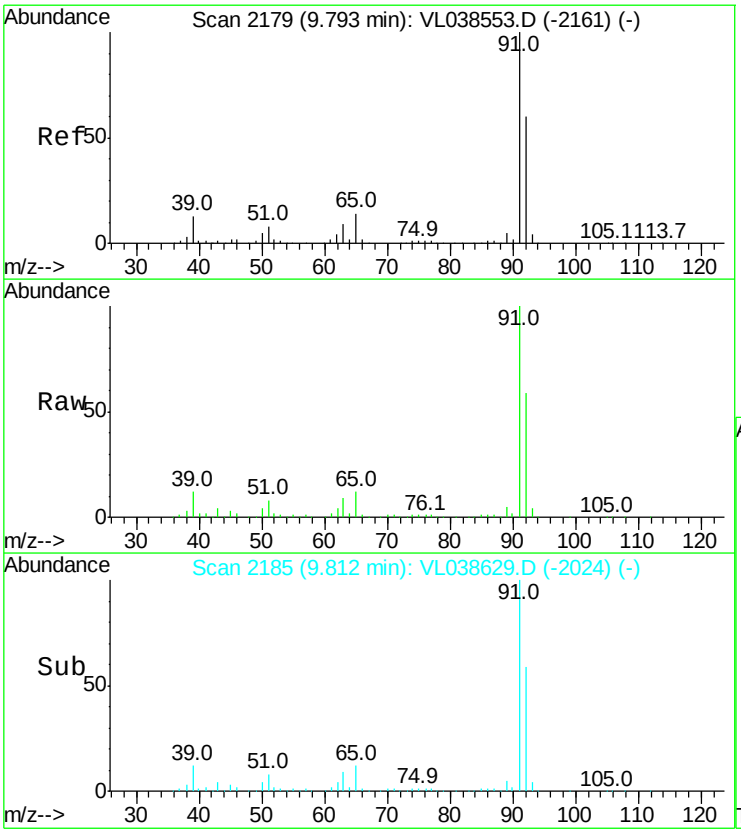
#50
4-Methyl-2-Pentanone
Concen: 0.13 ppbv
RT: 8.76
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 43 Resp: 15162

Ion	Ratio	Lower	Upper
43	100		
58	29.5	29.2	43.8

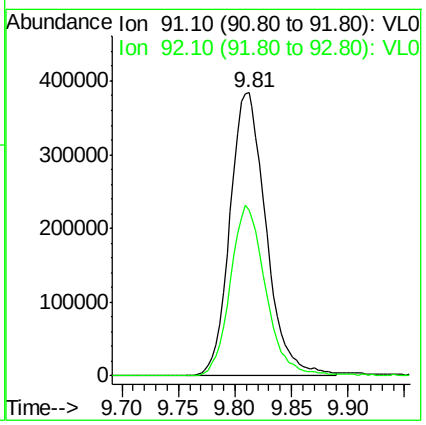


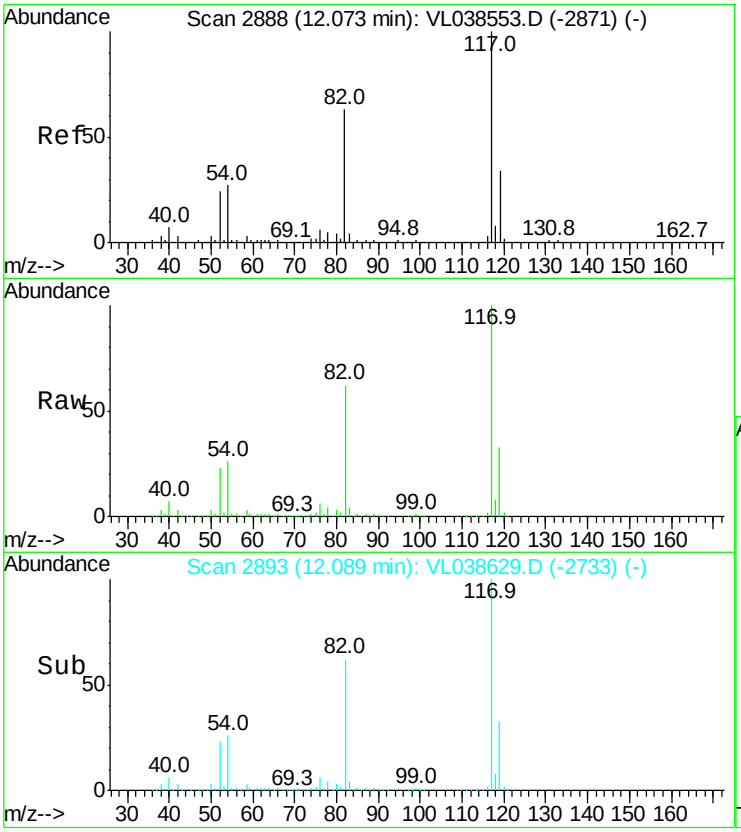


#53
Toluene
Concen: 4.01 ppbv
RT: 9.81 min Scan# 2185
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 91 Resp: 853369

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.1	72.1



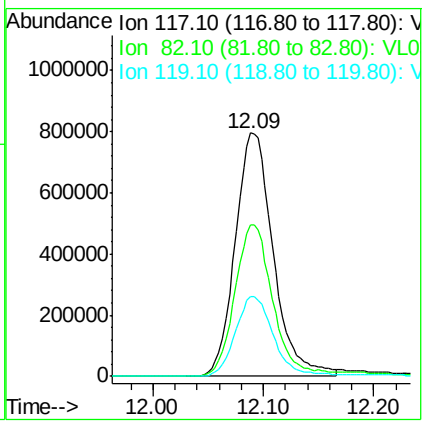


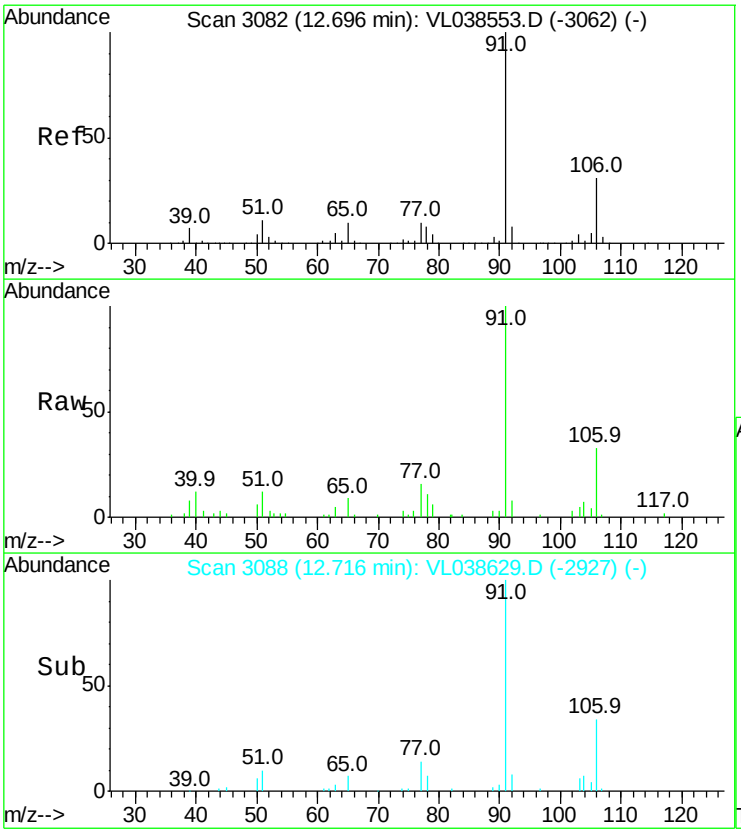
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.09
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion:117 Resp: 1905109

Ion	Ratio	Lower	Upper
117	100		
82	65.8	52.5	78.7
119	34.0	46.4	69.6#

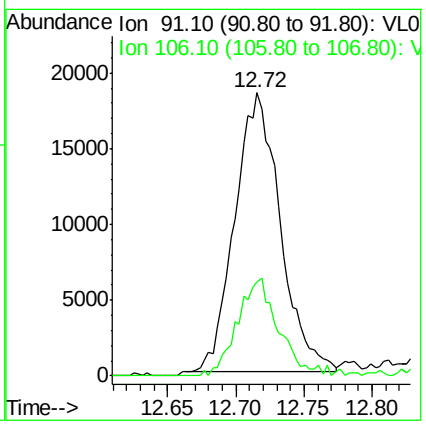


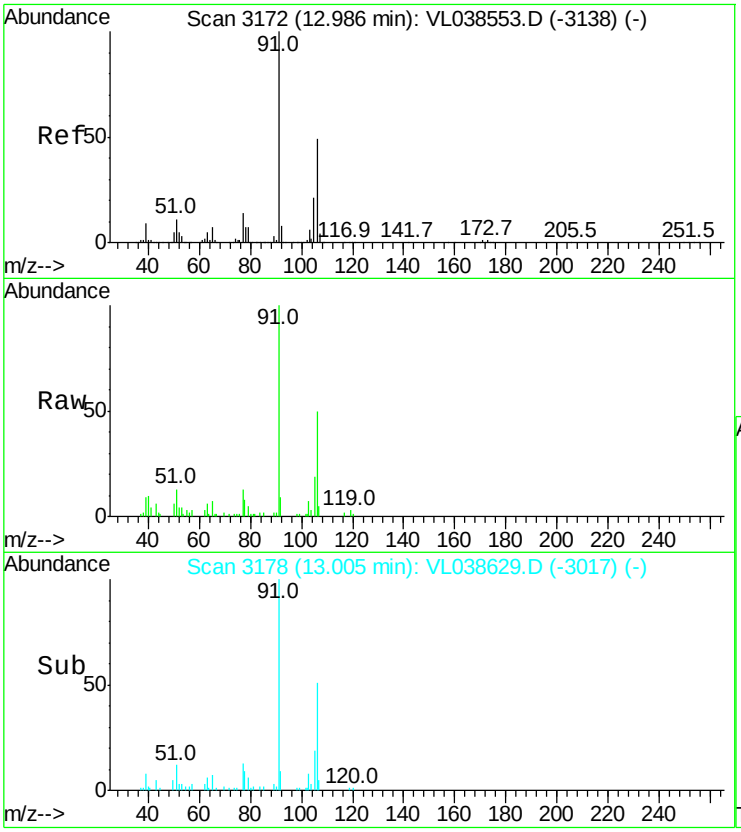


#58
Ethyl Benzene
Concen: 0.17 ppbv
RT: 12.72 min Scan# 3088
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 91 Resp: 42798

Ion	Ratio	Lower	Upper
91	100		
106	34.5	24.6	37.0



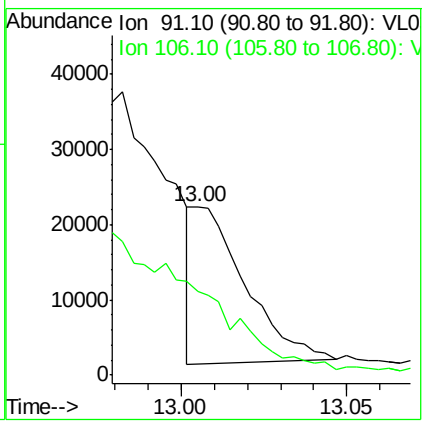


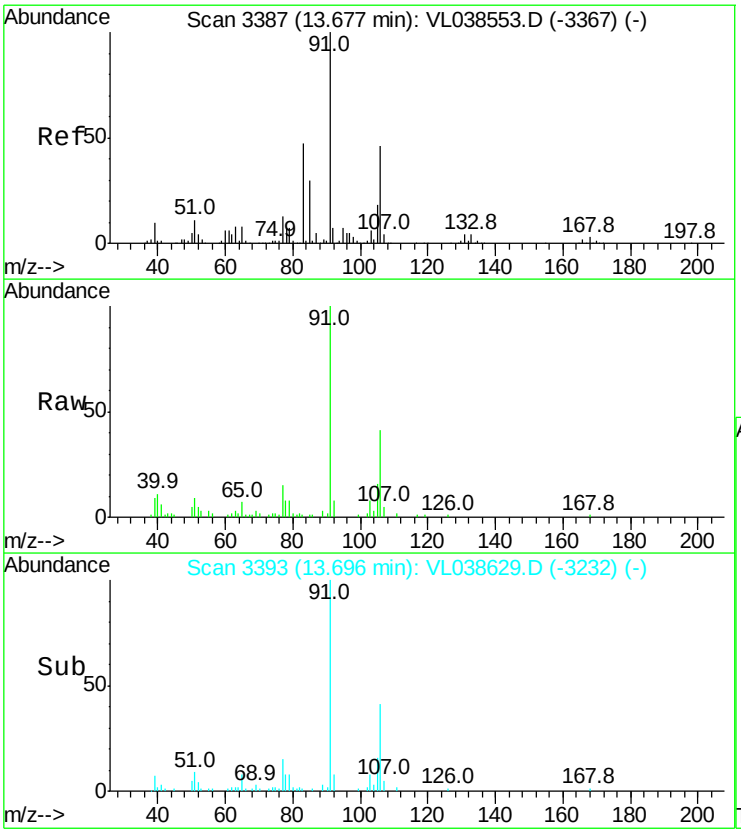
#59
m/p-Xylene
Concen: 0.11 ppbv
RT: 13.00
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 91 Resp: 22665

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.1	55.7#

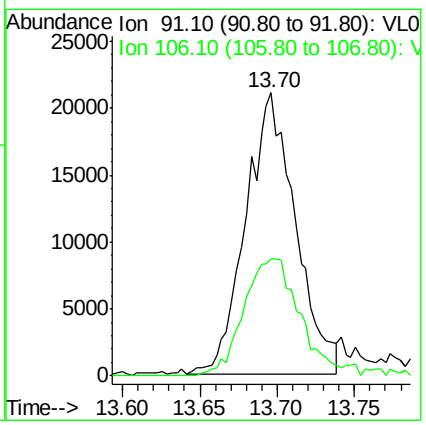


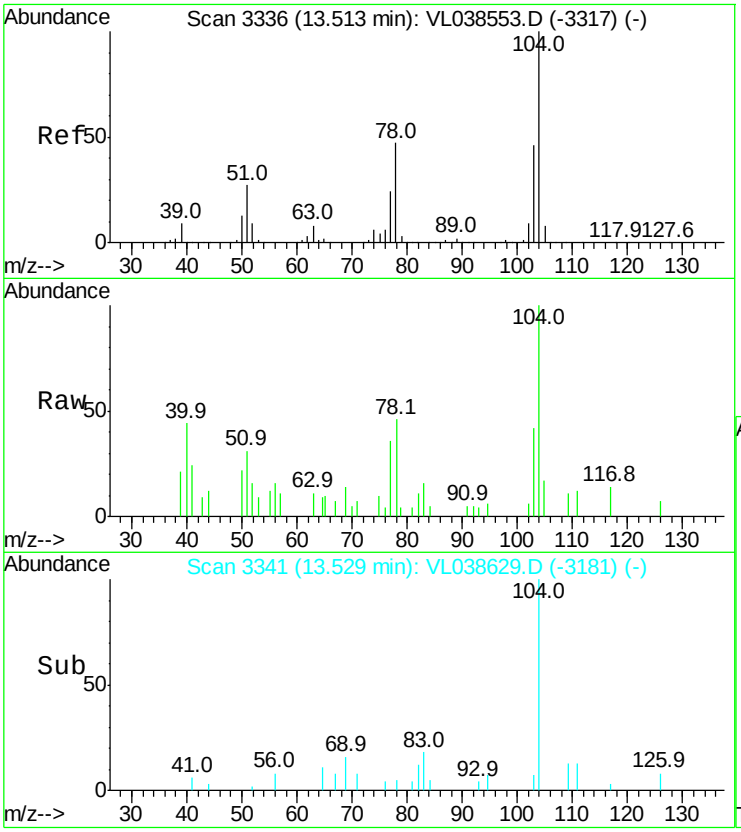


#60
o-Xylene
Concen: 0.24 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion: 91 Resp: 46936

Ion	Ratio	Lower	Upper
91	100		
106	47.4	23.5	70.6



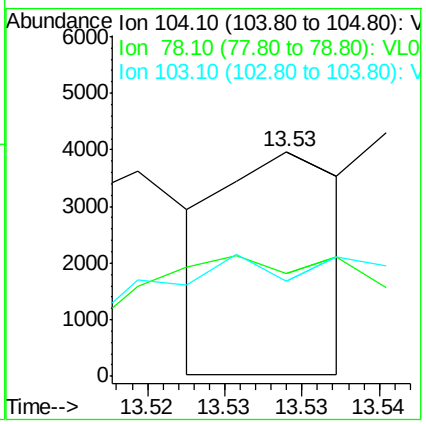


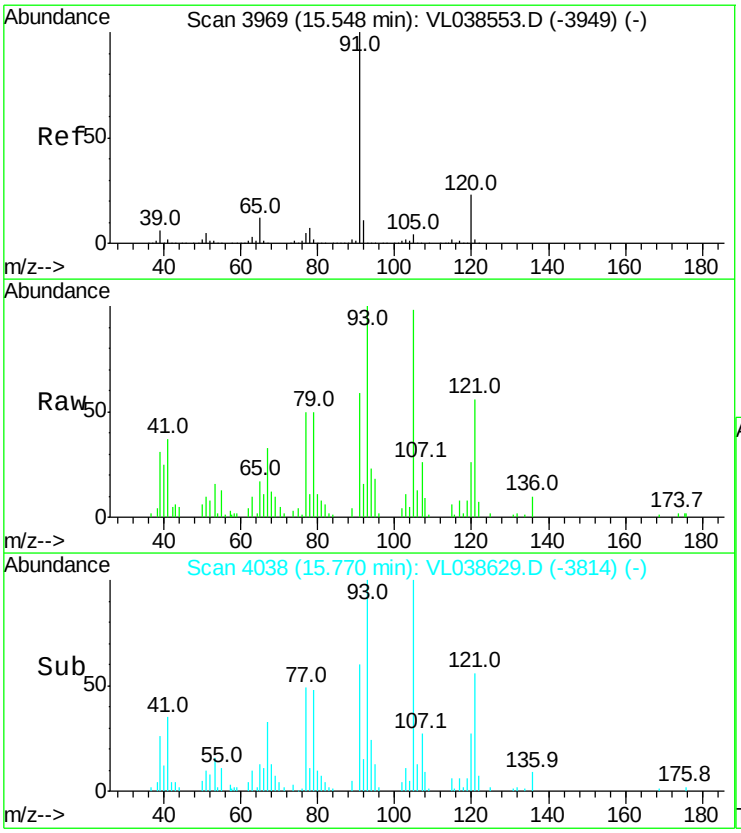
#61
Styrene
Concen: 0.02 ppbv
RT: 13.53
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion:104 Resp: 2103

Ion	Ratio	Lower	Upper
104	100		
78	294.9	39.0	58.4#
103	0.0	38.0	57.0#

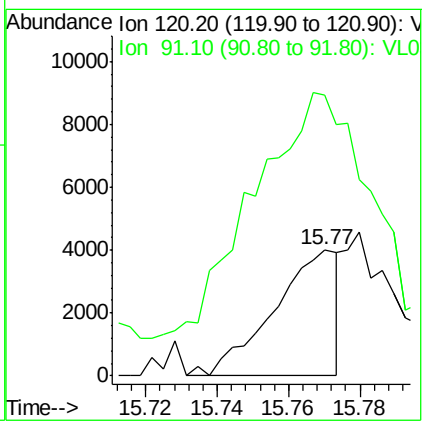


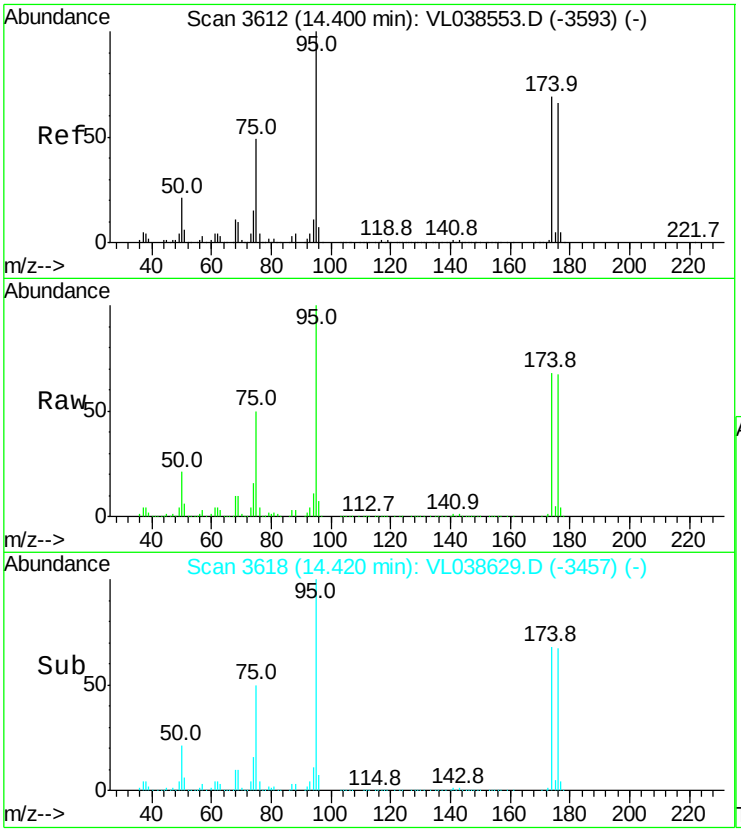


#64
n-propylbenzene
Concen: 0.07 ppbv
RT: 15.77 min Scan# 4038
Delta R.T. 0.22 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion:120 Resp: 5016

Ion	Ratio	Lower	Upper
120	100		
91	459.7	374.2	561.2



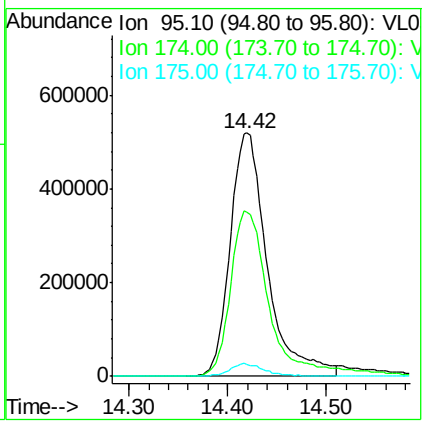


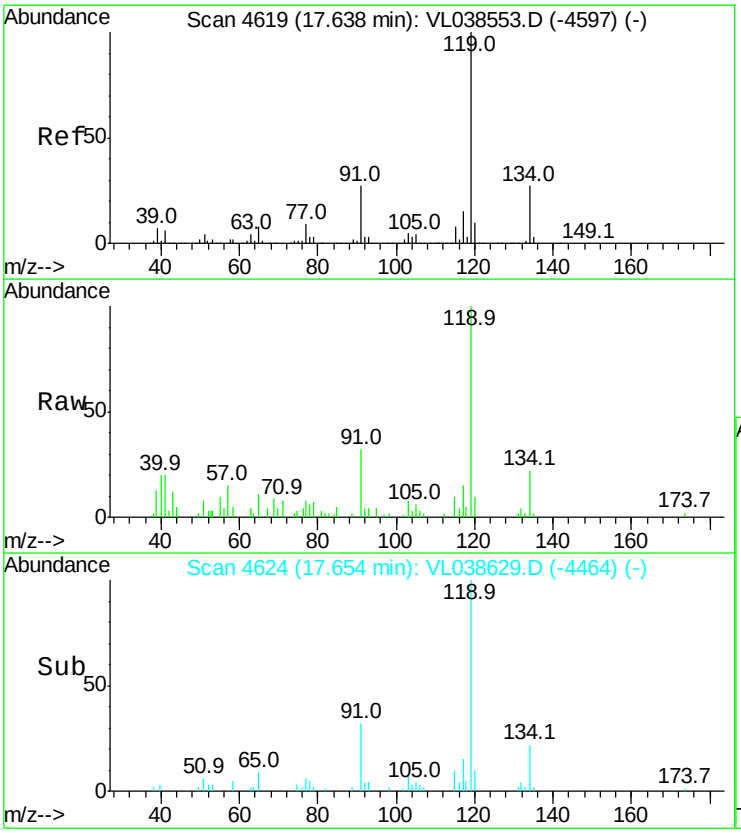
#68
1-Bromo-4-Fluorobenzene
Concen: 9.39 ppbv
RT: 14.42
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion: 95 Resp: 1360168

Ion	Ratio	Lower	Upper
95	100		
174	72.9	56.2	84.4
175	5.1	4.2	6.2

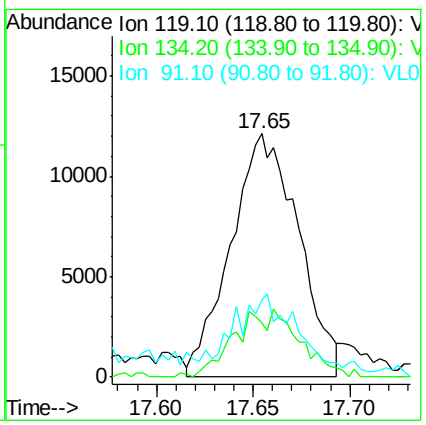


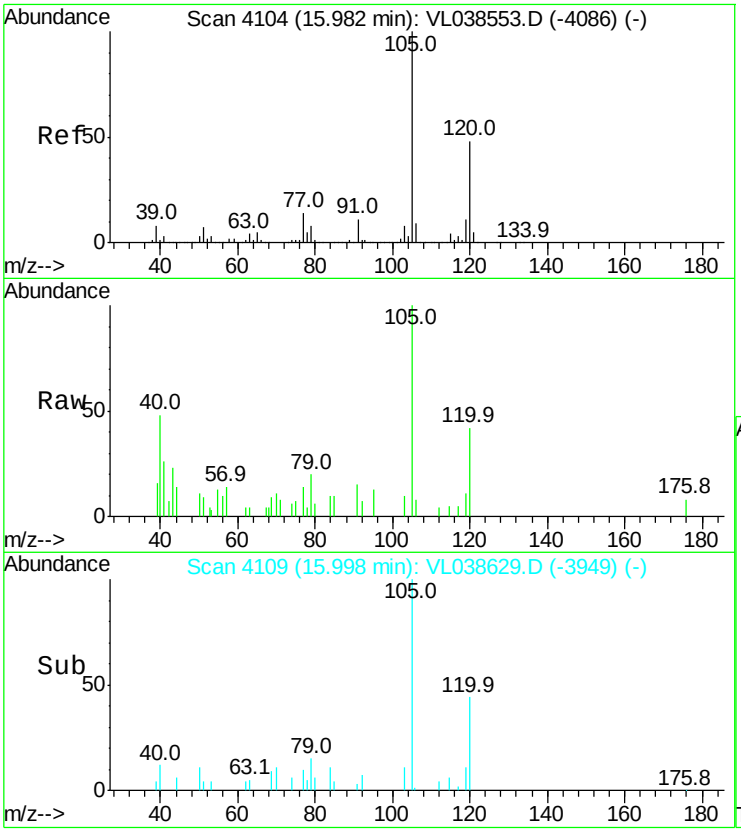


#69
p-Isopropyltoluene
Concen: 0.10 ppbv
RT: 17.65 min Scan# 4624
Delta R.T. 0.02 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion:119 Resp: 29497

Ion	Ratio	Lower	Upper
119	100		
134	26.8	20.9	31.3
91	38.3	21.1	31.7#



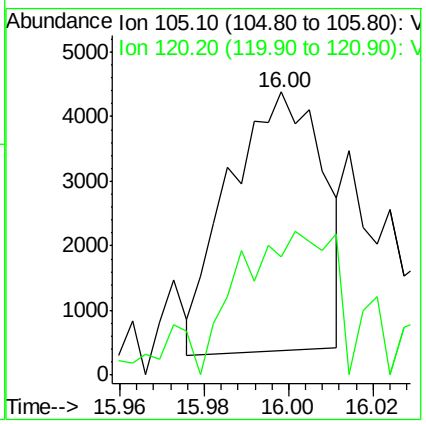


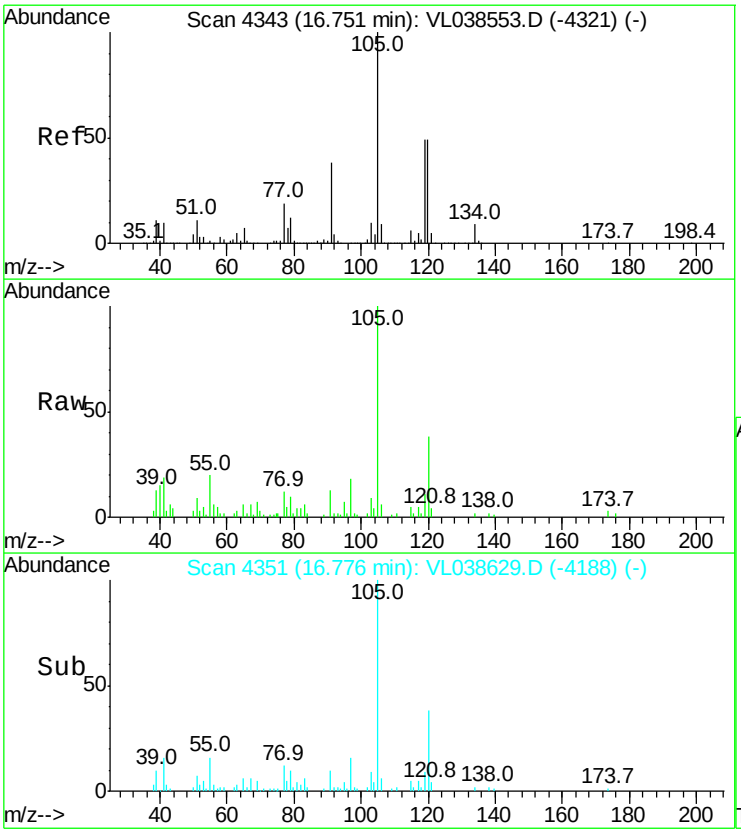
#73
1,3,5-Trimethylbenzene
Concen: 0.03 ppbv
RT: 16.00
Delta R.T
Lab File:
Acq: 17 Mar 2022 16:54

Instrument :
MSVOA_L
ClientSampleId :
IA-2A

Tgt Ion:105 Resp: 6186

Ion	Ratio	Lower	Upper
105	100		
120	34.8	38.3	57.5#





#74
1,2,4-Trimethylbenzene
Concen: 0.06 ppbv
RT: 16.78 min Scan# 4351
Delta R.T. 0.03 min
Lab File: VL038629.D
Acq: 17 Mar 2022 16:54

Tgt Ion:105 Resp: 12674

Ion	Ratio	Lower	Upper
105	100		
120	41.1	38.9	58.3
91	12.7	30.6	46.0#
77	6.9	15.2	22.8#