Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041802.D
Acq On : 18 Dec 2024 19:58
Operator : SY/MD
Sample : P5294-01
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Dec 19 07:58:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.797	49	77034	10.000	ppbv		0.01
33) 1,4-Difluorobenzene	3.971	114	192884	10.000	ppbv		0.02
55) Chlorobenzene-d5	8.894	117	185181	10.000	ppbv		0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	150031	9.722	ppbv		0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 97.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	4687	0.342	ppbv		96
3) Chlorodifluoromethane	1.538	51	571	0.045	ppbv		99
4) Chloromethane	1.534	50	2543	0.474	ppbv		96
9) Propene	1.777	41	841	0.154	ppbv		92
10) Heptane	5.001	43	1896	0.136	ppbv	#	39
11) Trichlorofluoromethane	1.884	101	2709	0.186	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.146	101	598	0.054	ppbv		94
13) Ethanol	1.725	45	8754	19.416	ppbv		94
15) Acetone	1.842	43	46647	3.112	ppbv		93
16) 1,3-Butadiene	1.606	39	5842	0.990	ppbv	#	29
17) tert-Butyl alcohol	2.049	59	7709	0.518	ppbv		96
19) Isopropyl Alcohol	1.890	45	11560	1.285	ppbv	#	30
20) Methylene Chloride	2.068	84	1379	0.323	ppbv	#	76
21) Allyl Chloride	2.085	41	413	0.051	ppbv	#	25
23) Vinyl Acetate	2.457	43	6394	0.919	ppbv	#	88
25) Ethyl Acetate	2.852	43	11451	0.411	ppbv	#	92
26) Hexane	2.839	57	2712	0.256	ppbv	#	29
27) Carbon Disulfide	2.159	76	616	0.065	ppbv	#	1
29) Chloroform	2.855	83	796	0.049	ppbv	#	73
30) Cyclohexane	3.878	84	1001	0.111	ppbv	#	1
31) cis-1,2-Dichloroethene	2.848	61	1221	0.112	ppbv	#	28
34) 2-Butanone	2.570	43	10728	0.691	ppbv		96
36) Benzene	3.670	78	4321	0.217	ppbv		93
39) 1,2-Dichloropropane	3.975	63	53145	7.365	ppbv	#	18
41) Tetrahydrofuran	3.075	42	5402	0.621	ppbv		97
44) 2,2,4-Trimethylpentane	4.661	57	1670	0.049	ppbv	#	1
53) Toluene	6.956	91	82132	3.631	ppbv		99
57) Chlorobenzene	8.937	112	1507	0.080	ppbv		88
58) Ethyl Benzene	9.367	91	11534	0.346	ppbv		95
59) m/p-Xylene	9.564	91	8373	0.312	ppbv	#	100
60) o-Xylene	9.979	91	13407	0.499	ppbv		96
61) Styrene	9.882	104	3334	0.287	ppbv		99
74) 1,2,4-Trimethylbenzene	11.548	105	1962	0.069	ppbv	#	70

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

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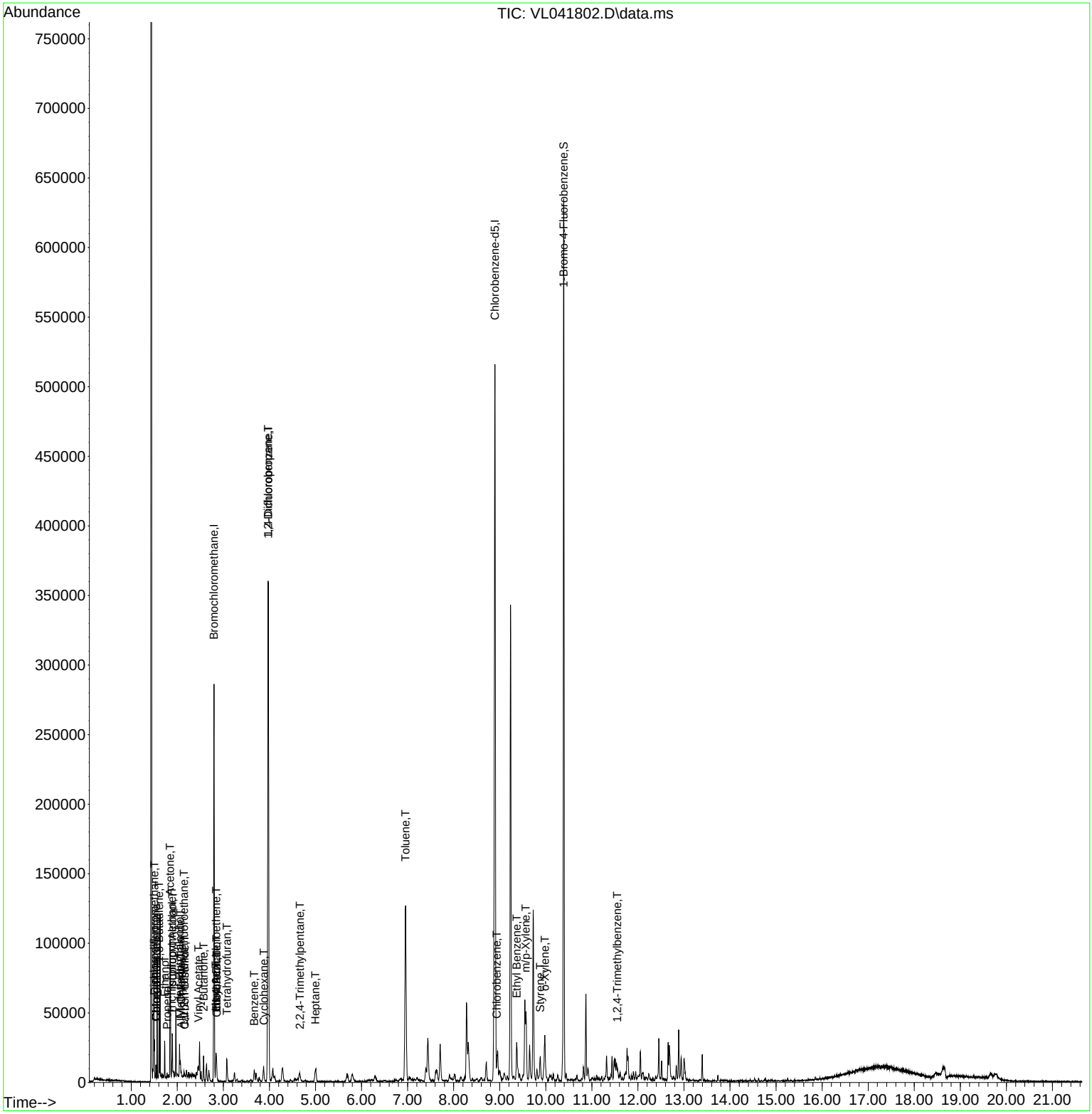
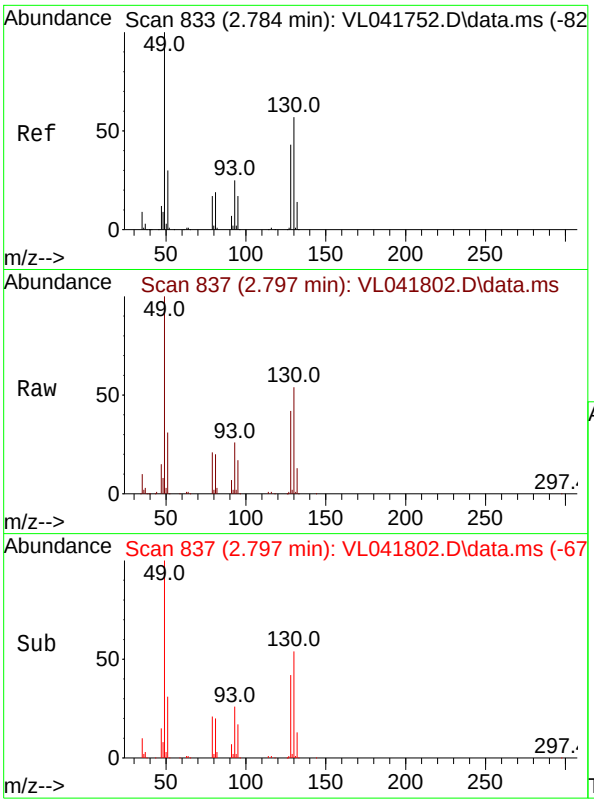
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Dec 19 07:58:37 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration



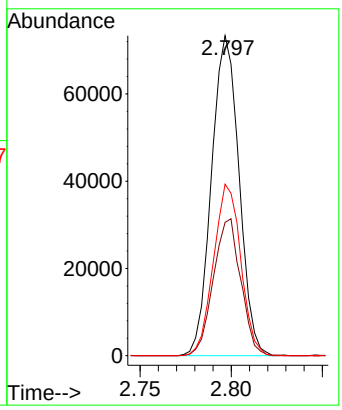


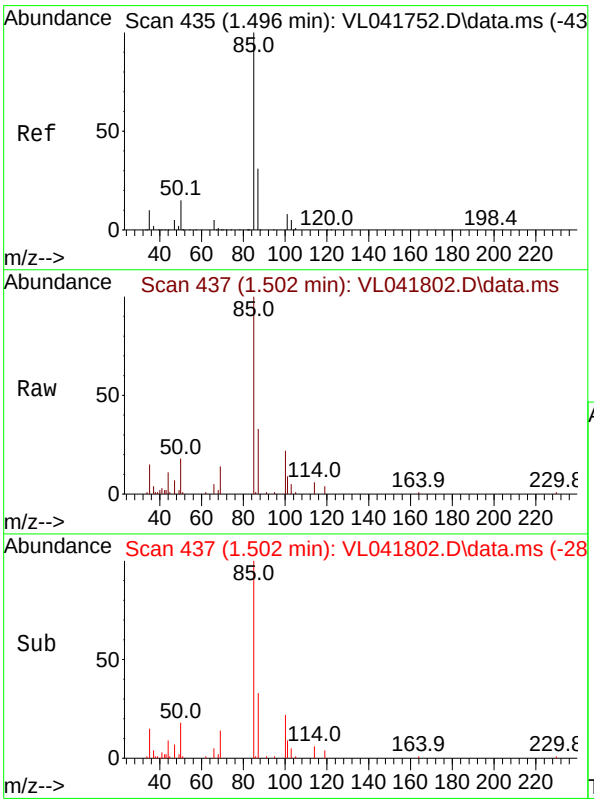
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 8
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 77034

Ion	Ratio	Lower	Upper
49	100		
128	42.5	21.6	64.6
130	53.1	28.3	85.0

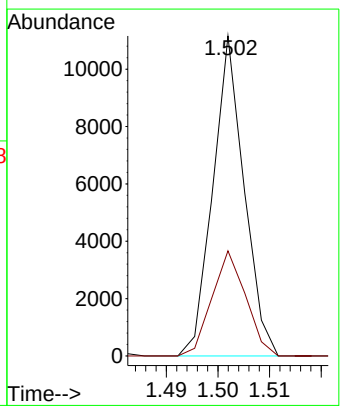


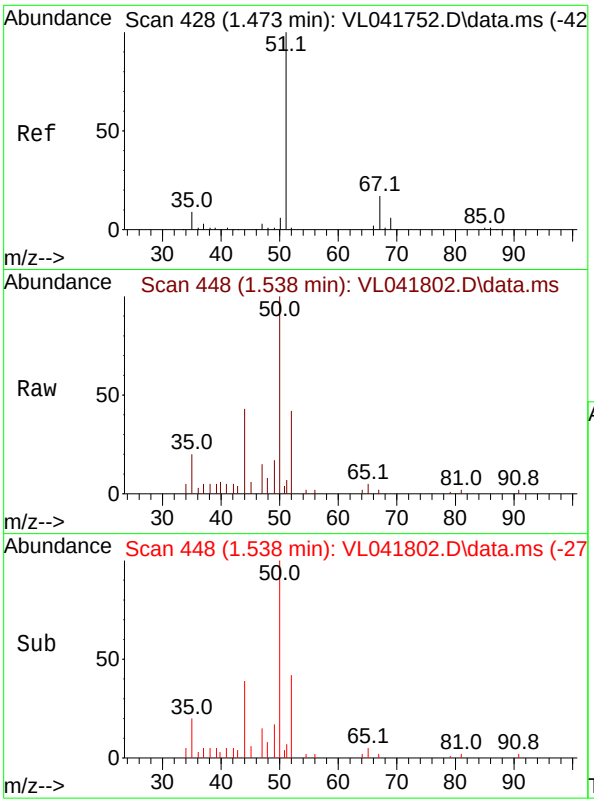


#2
Dichlorodifluoromethane
Concen: 0.342 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 85 Resp: 4687

Ion	Ratio	Lower	Upper
85	100		
87	32.8	24.5	36.7



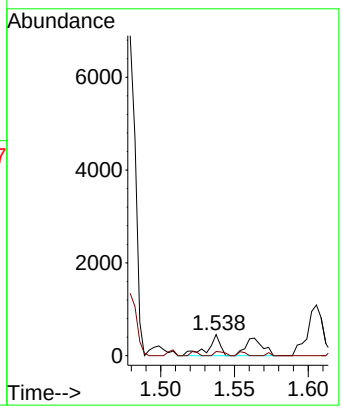


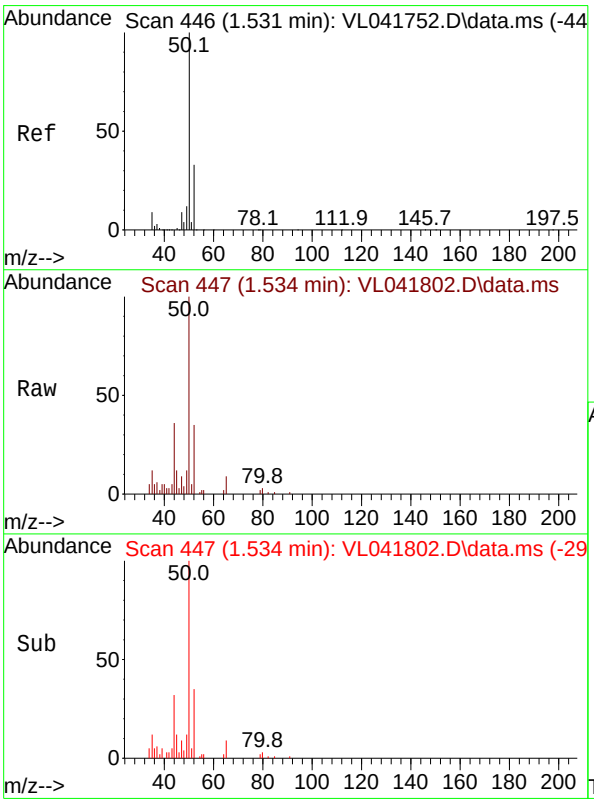
#3
Chlorodifluoromethane
Concen: 0.045 ppbv
RT: 1.538 min Scan# 4
Delta R.T. 0.064 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 571

Ion	Ratio	Lower	Upper
51	100		
67	18.2	15.0	22.4

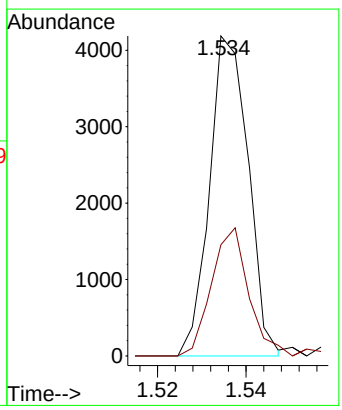


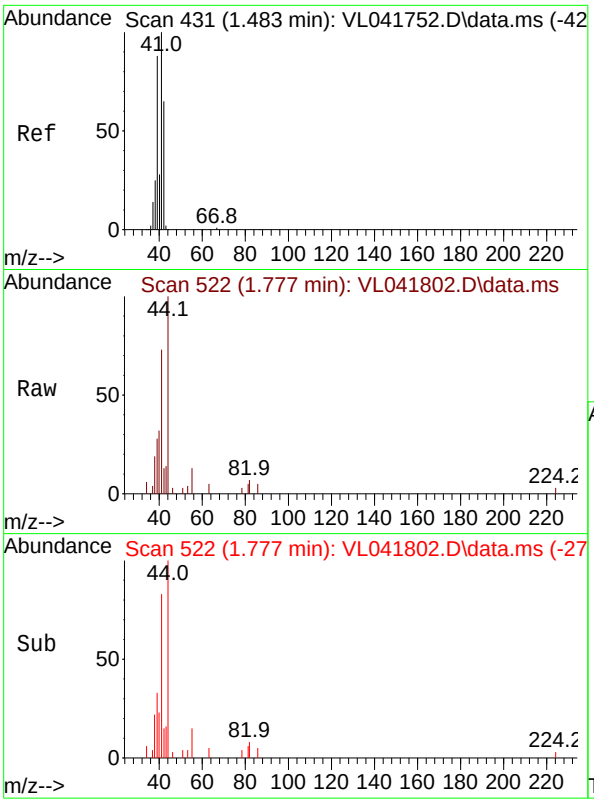


#4
Chloromethane
Concen: 0.474 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 50 Resp: 2543

Ion	Ratio	Lower	Upper
50	100		
52	34.8	26.2	39.2



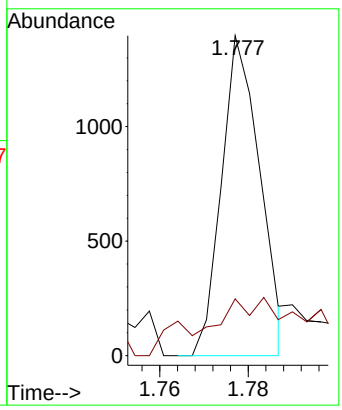


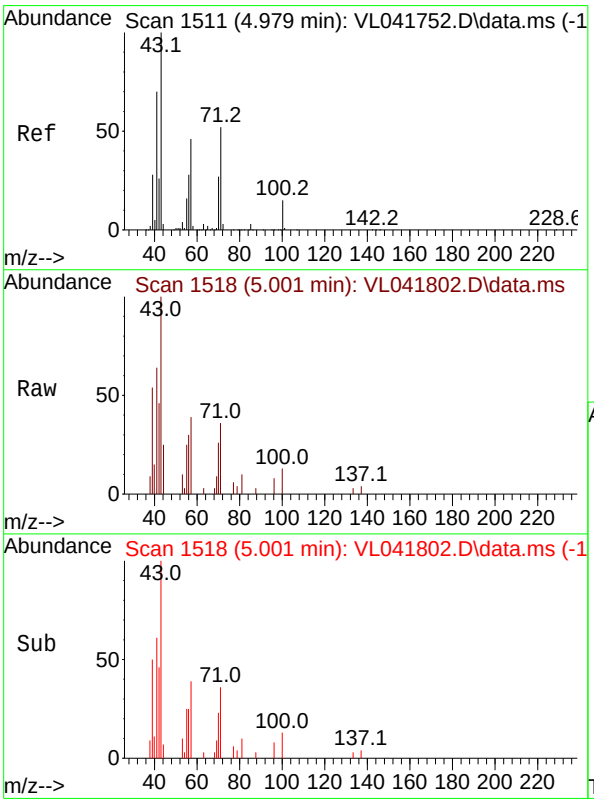
#9
Propene
Concen: 0.154 ppbv
RT: 1.777 min Scan# 5
Delta R.T. 0.294 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 41 Resp: 841

Ion	Ratio	Lower	Upper
41	100		
42	59.3	52.4	78.6

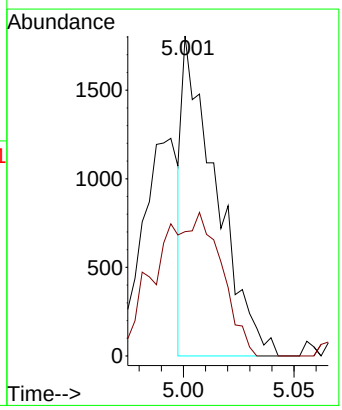


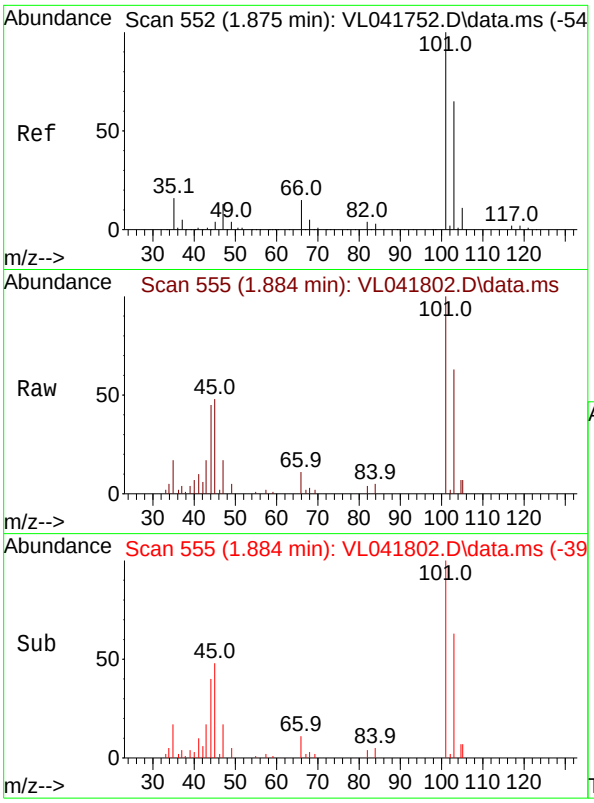


#10
Heptane
Concen: 0.136 ppbv
RT: 5.001 min Scan# 1518
Delta R.T. 0.022 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 43 Resp: 1896

Ion	Ratio	Lower	Upper
43	100		
57	89.5	38.5	57.7#



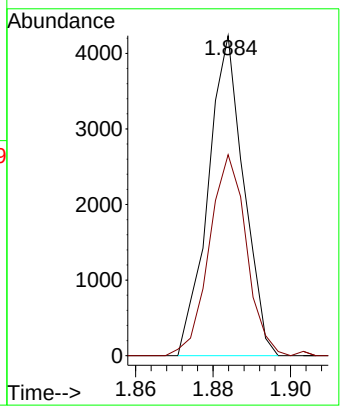


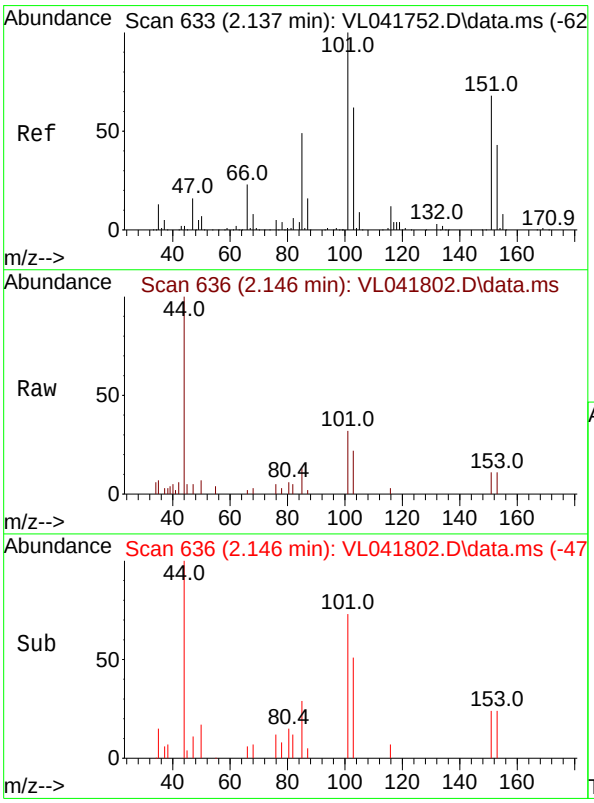
#11
Trichlorofluoromethane
Concen: 0.186 ppbv
RT: 1.884 min Scan# 5
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:101 Resp: 2709

Ion	Ratio	Lower	Upper
101	100		
103	61.5	51.8	77.8

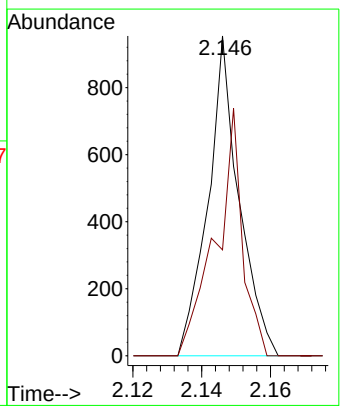


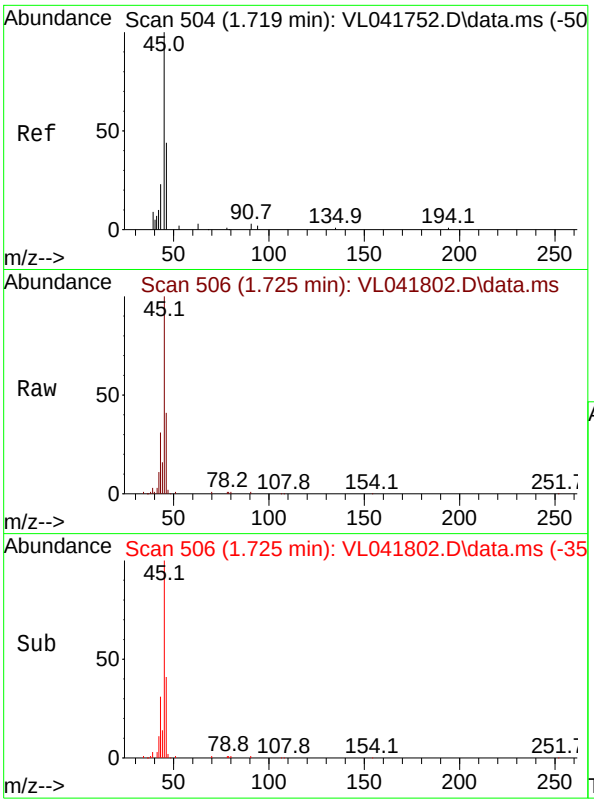


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.054 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion:101 Resp: 598

Ion	Ratio	Lower	Upper
101	100		
151	66.4	56.8	85.2



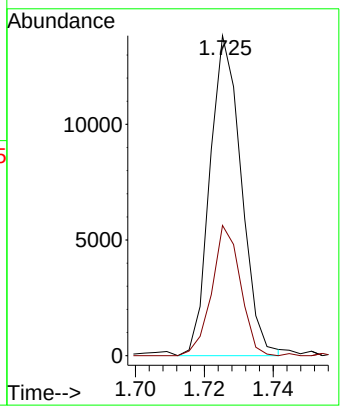


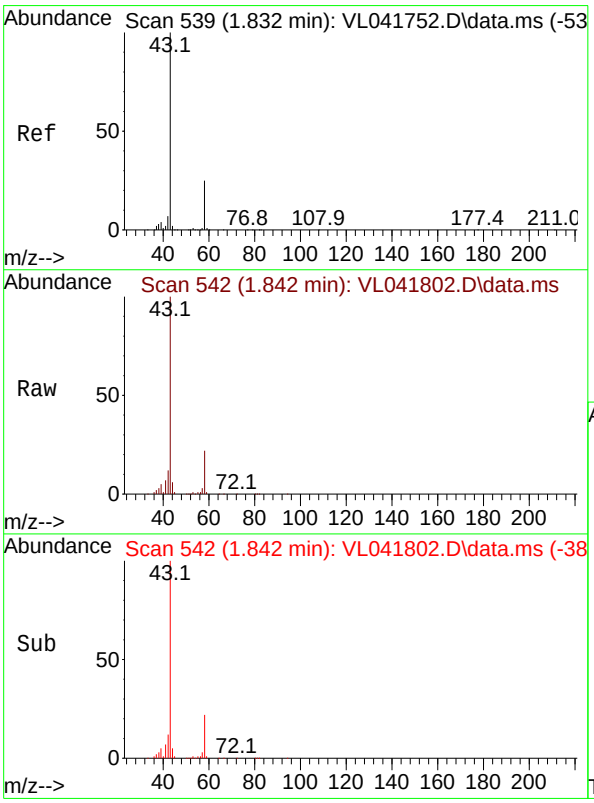
#13
Ethanol
Concen: 19.416 ppbv
RT: 1.725 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 45 Resp: 8754

Ion	Ratio	Lower	Upper
45	100		
46	37.5	16.4	65.8

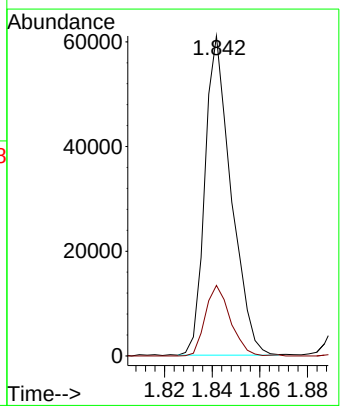


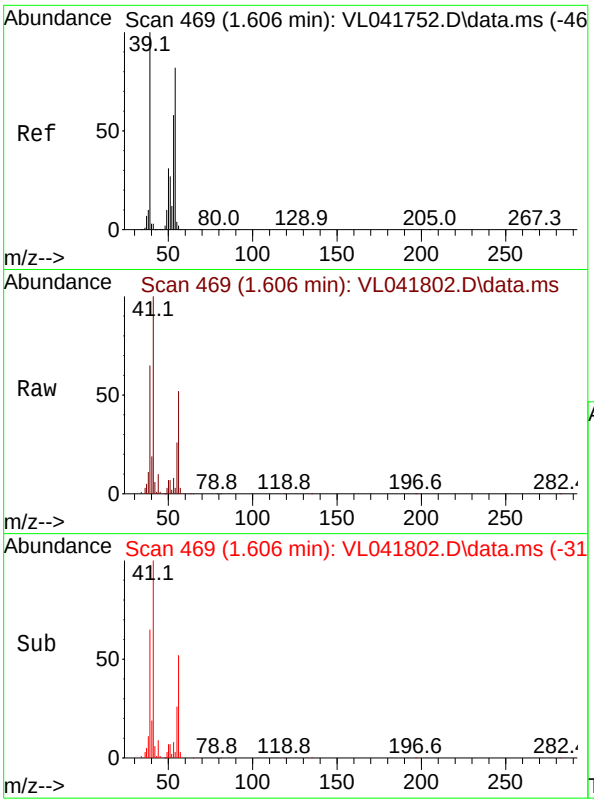


#15
Acetone
Concen: 3.112 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 43 Resp: 46647

Ion	Ratio	Lower	Upper
43	100		
58	21.2	19.7	29.5



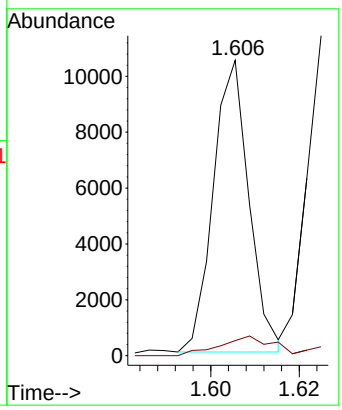


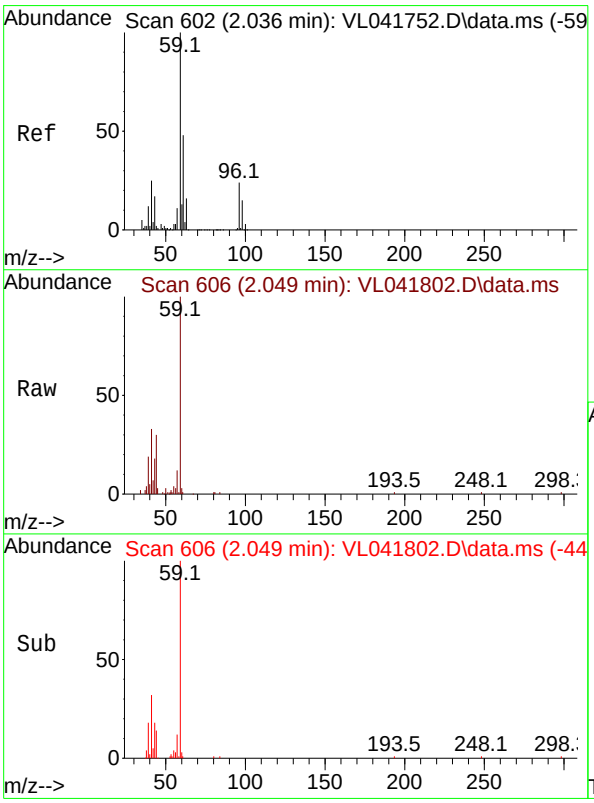
#16
1,3-Butadiene
Concen: 0.990 ppbv
RT: 1.606 min Scan# 4
Delta R.T. -0.000 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 39 Resp: 5842

Ion	Ratio	Lower	Upper
39	100		
54	13.5	58.4	87.6#

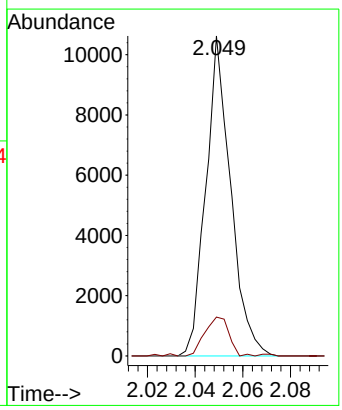


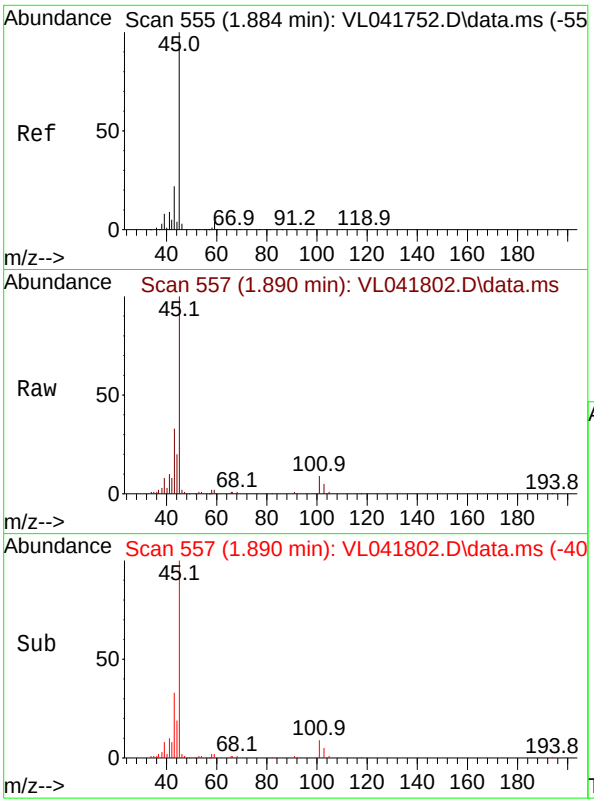


#17
tert-Butyl alcohol
Concen: 0.518 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 59 Resp: 7709

Ion	Ratio	Lower	Upper
59	100		
57	12.4	8.6	13.0



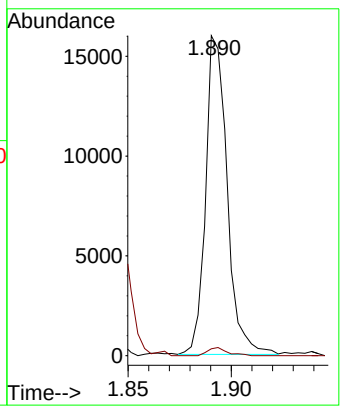


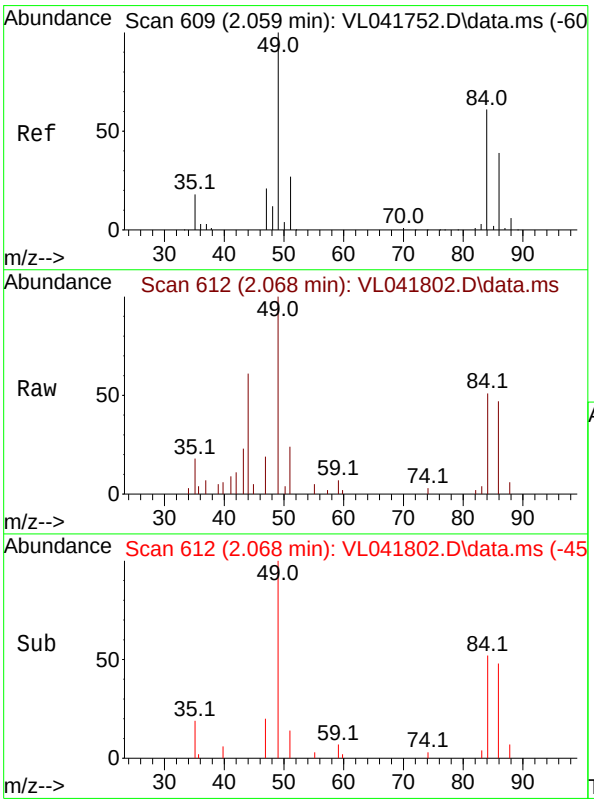
#19
Isopropyl Alcohol
Concen: 1.285 ppbv
RT: 1.890 min Scan# 5
Delta R.T. 0.006 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 45 Resp: 11560

Ion	Ratio	Lower	Upper
45	100		
58	85.6	33.3	49.9#

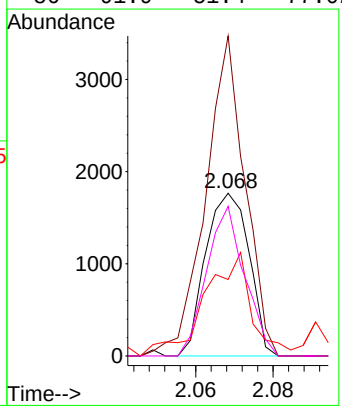


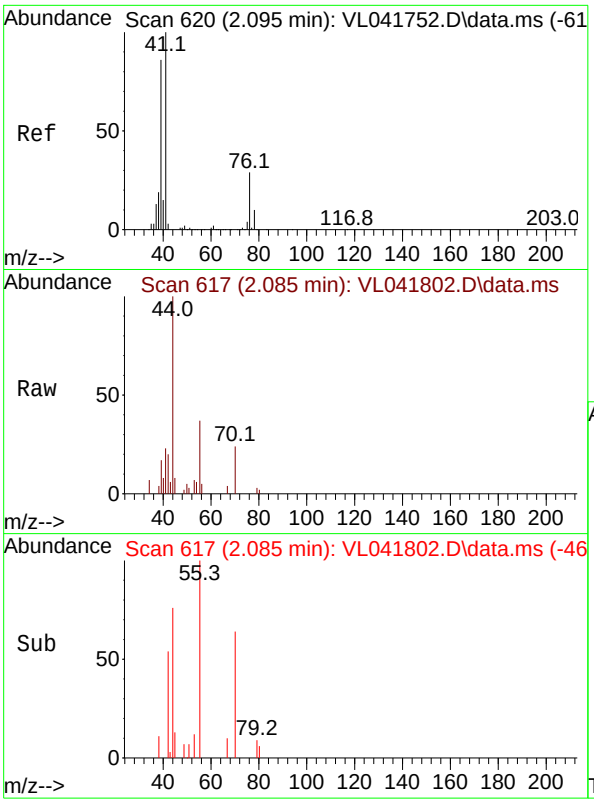


#20
Methylene Chloride
Concen: 0.323 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 84 Resp: 1379

Ion	Ratio	Lower	Upper
84	100		
49	196.6	132.6	198.8
51	38.9	37.6	56.4
86	91.9	51.4	77.0#



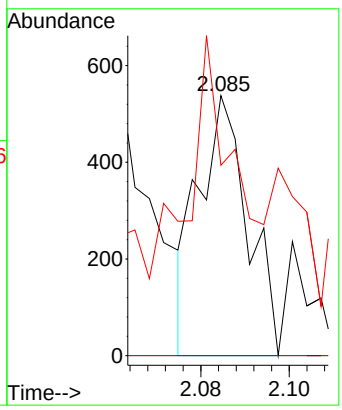


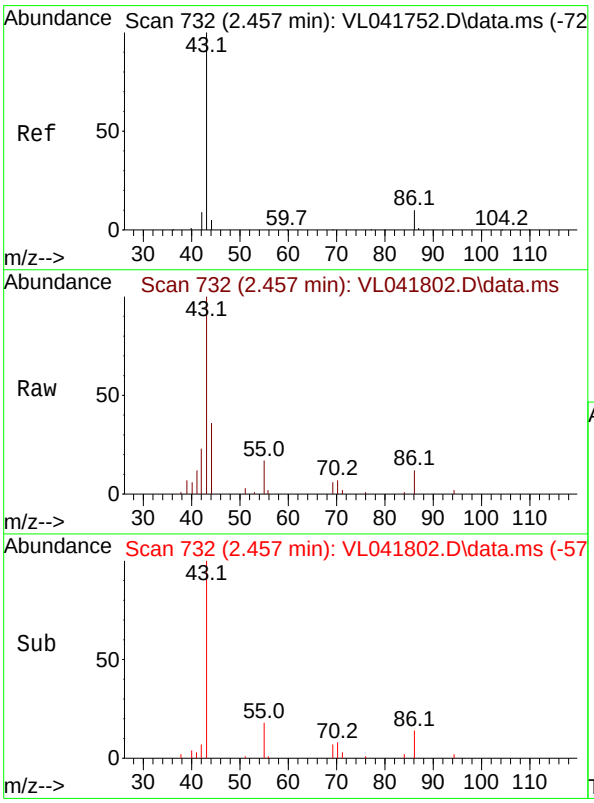
#21
Allyl Chloride
Concen: 0.051 ppbv
RT: 2.085 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 41 Resp: 413

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.3	33.5#
39	162.7	69.2	103.8#

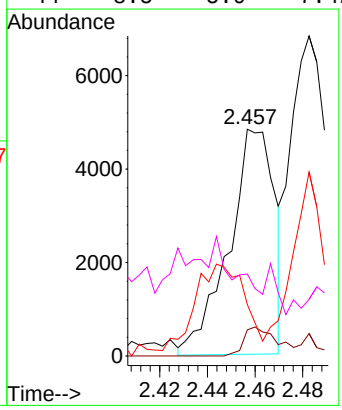


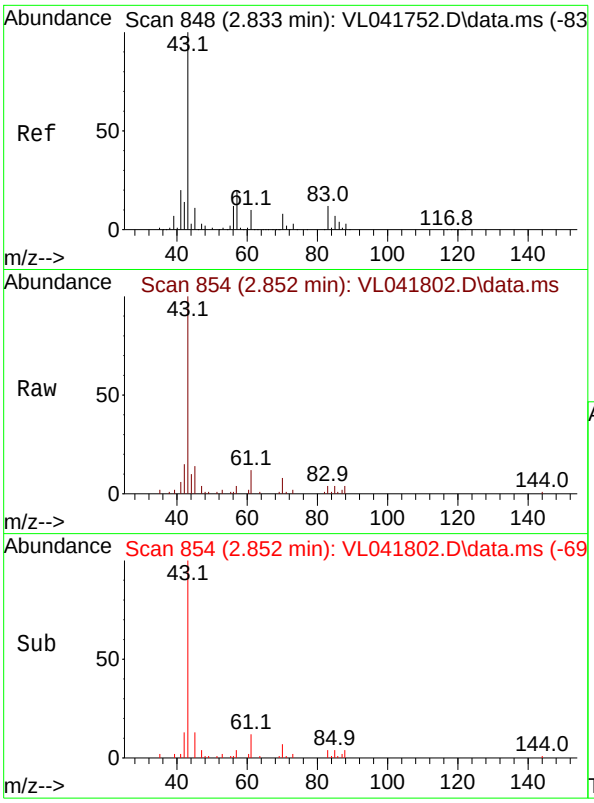


#23
Vinyl Acetate
Concen: 0.919 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.000 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 43 Resp: 6394

Ion	Ratio	Lower	Upper
43	100		
86	11.9	6.6	10.0#
42	16.0	8.2	12.2#
44	8.5	5.0	7.4#



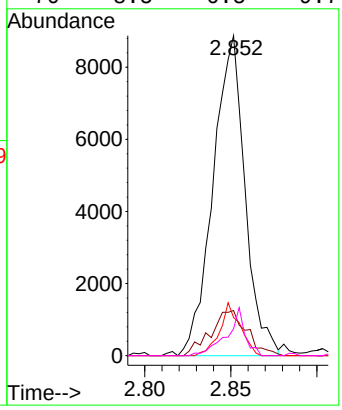


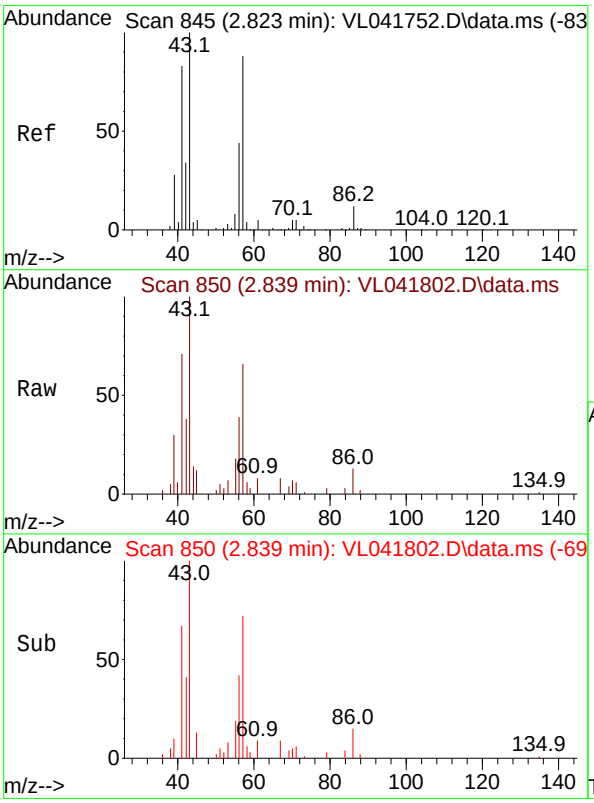
#25
Ethyl Acetate
Concen: 0.411 ppbv
RT: 2.852 min Scan# 8
Delta R.T. 0.019 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 11451

Ion	Ratio	Lower	Upper
43	100		
45	16.1	8.1	12.1#
61	10.7	7.0	10.6#
70	8.5	6.5	9.7

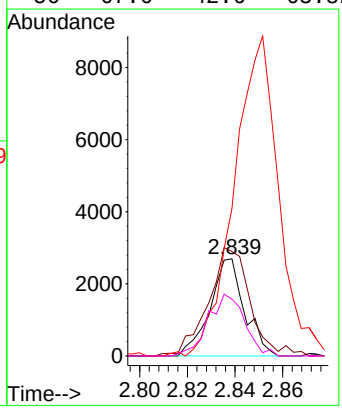


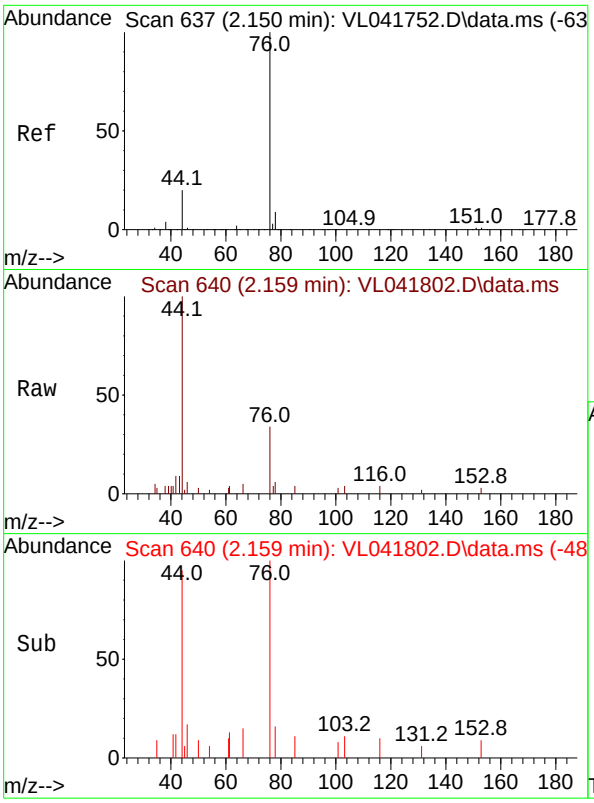


#26
Hexane
Concen: 0.256 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 57 Resp: 2712

Ion	Ratio	Lower	Upper
57	100		
41	135.1	79.6	119.4#
43	435.5	211.0	316.6#
56	67.6	42.6	63.8#



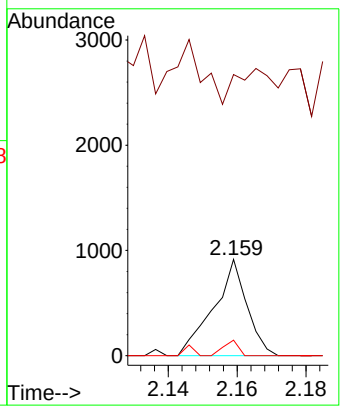


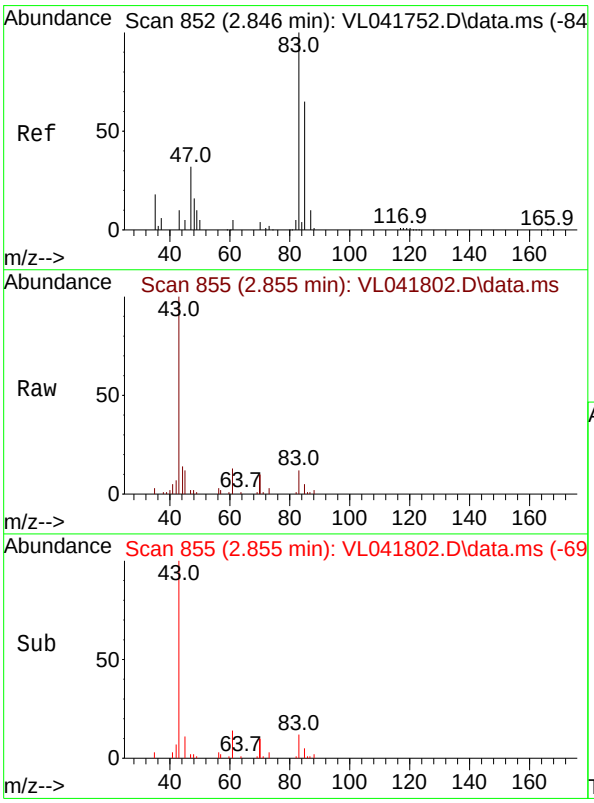
#27
Carbon Disulfide
Concen: 0.065 ppbv
RT: 2.159 min Scan# 64
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 76 Resp: 616

Ion	Ratio	Lower	Upper
76	100		
44	936.0	17.6	26.4#
78	26.1	10.2	15.4#

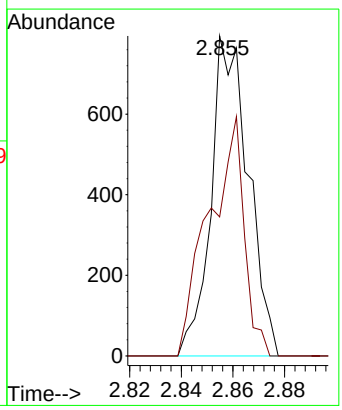


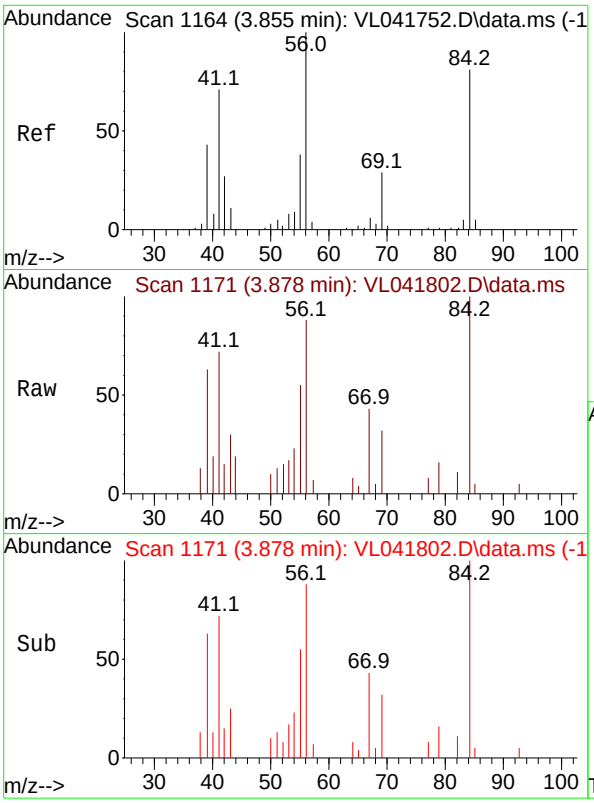


#29
Chloroform
Concen: 0.049 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.009 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 83 Resp: 796

Ion	Ratio	Lower	Upper
83	100		
85	43.5	51.8	77.6#



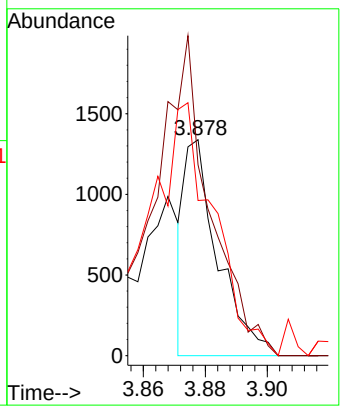


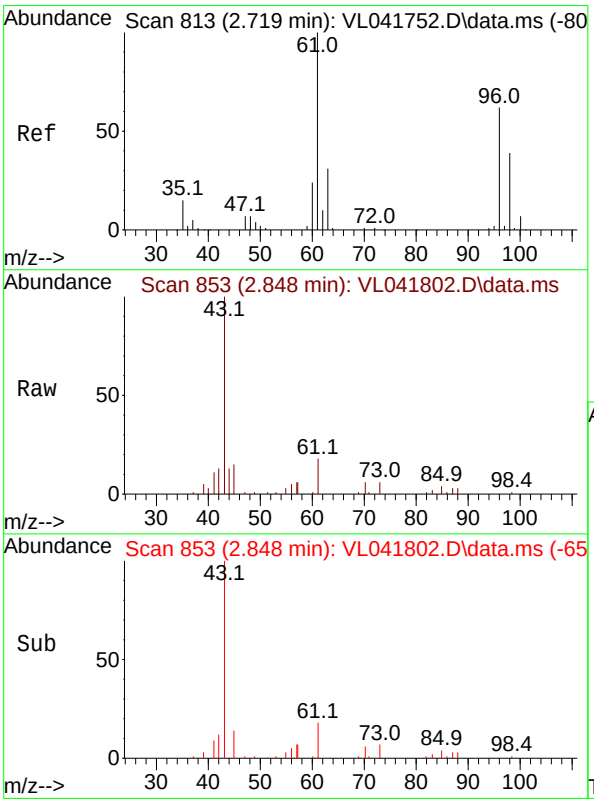
#30
Cyclohexane
Concen: 0.111 ppbv
RT: 3.878 min Scan# 1
Delta R.T. 0.022 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 1001

Ion	Ratio	Lower	Upper
84	100		
56	254.3	102.3	153.5#
41	246.5	74.0	111.0#

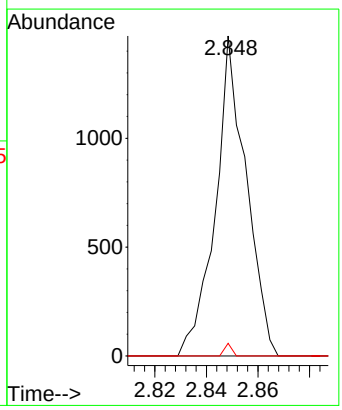


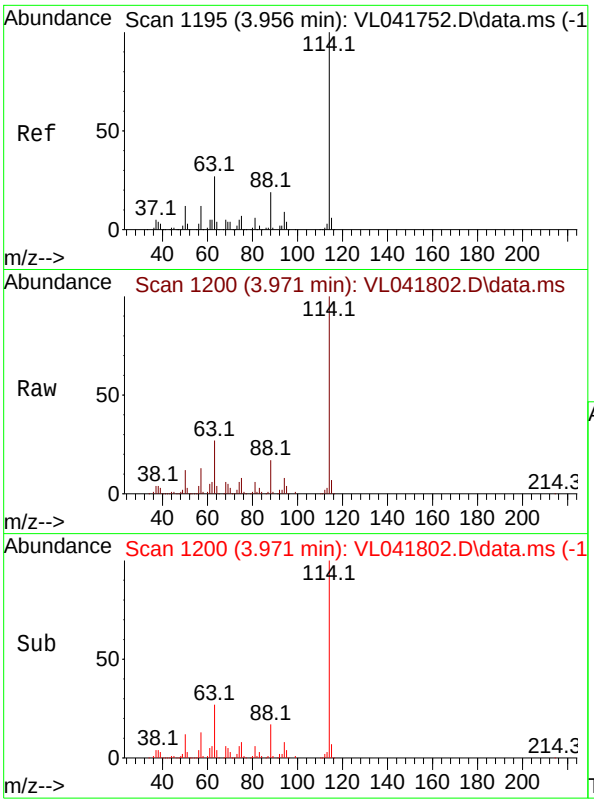


#31
cis-1,2-Dichloroethene
Concen: 0.112 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.129 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 61 Resp: 1221

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.7	74.5#
98	3.9	30.8	46.2#



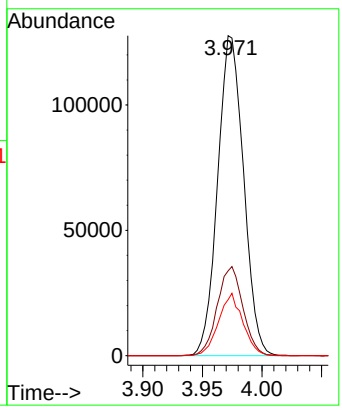


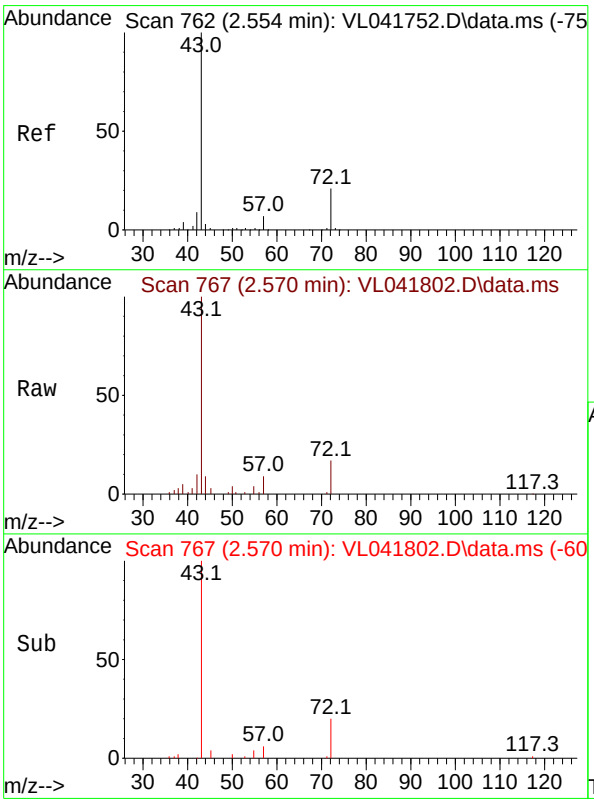
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.971 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:114 Resp: 192884

Ion	Ratio	Lower	Upper
114	100		
63	27.6	21.8	32.8
88	18.2	14.8	22.2

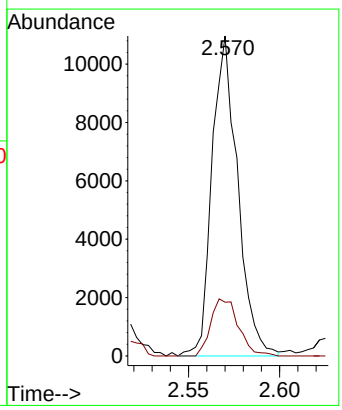


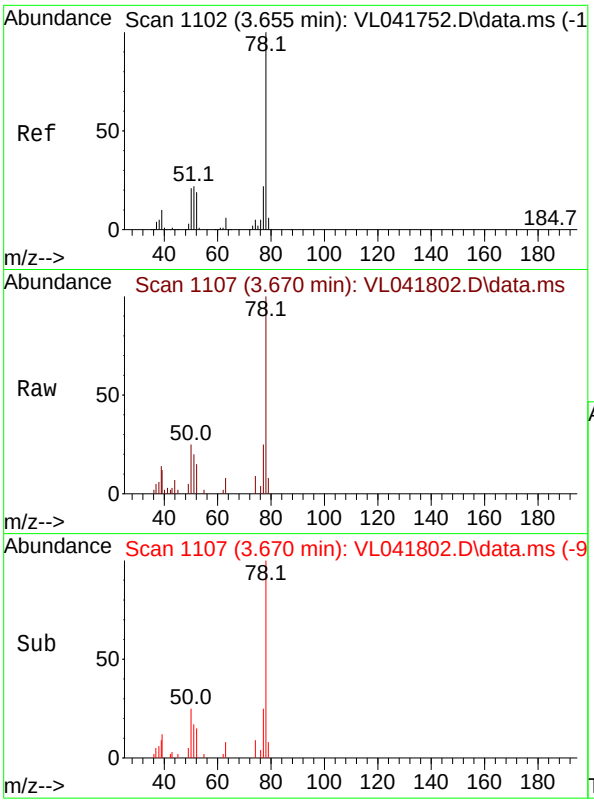


#34
2-Butanone
Concen: 0.691 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 43 Resp: 10728

Ion	Ratio	Lower	Upper
43	100		
72	19.2	16.8	25.2



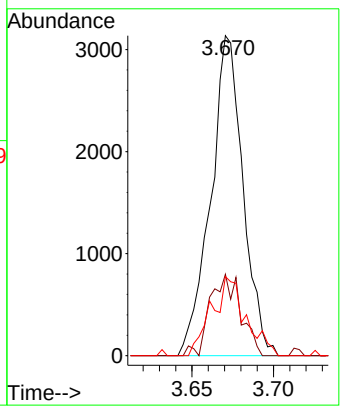


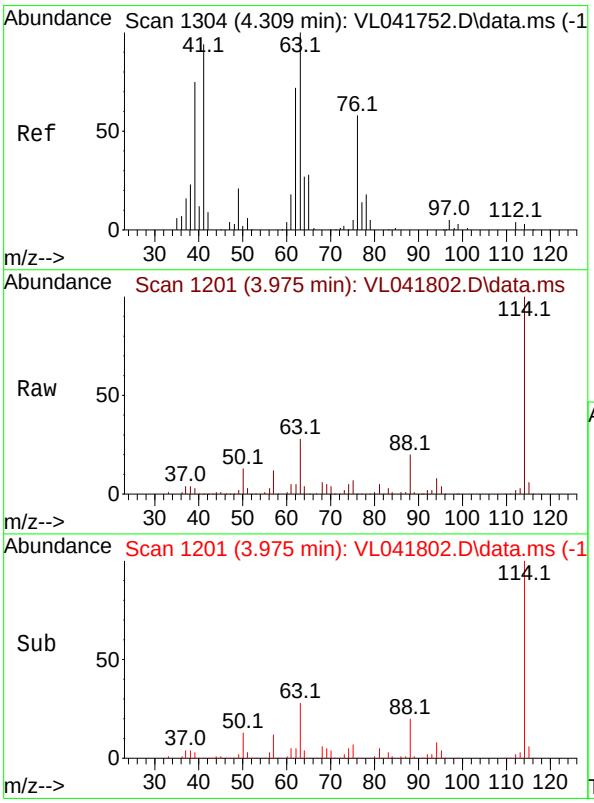
#36
Benzene
Concen: 0.217 ppbv
RT: 3.670 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 78 Resp: 4321

Ion	Ratio	Lower	Upper
78	100		
77	25.4	17.8	26.6
50	24.7	17.2	25.8

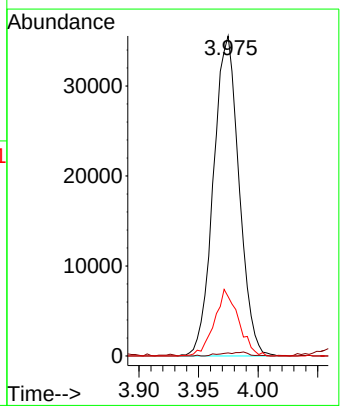


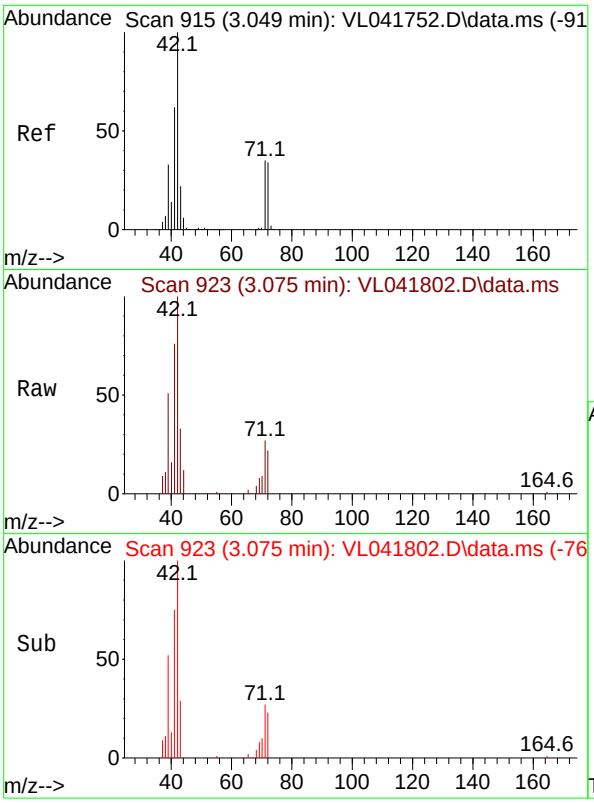


#39
1,2-Dichloropropane
Concen: 7.365 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. -0.334 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 63 Resp: 53145

Ion	Ratio	Lower	Upper
63	100		
41	0.8	75.3	112.9#
62	18.6	57.3	85.9#



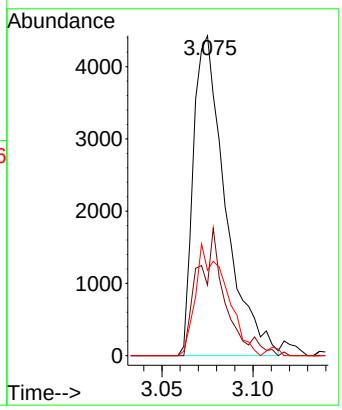


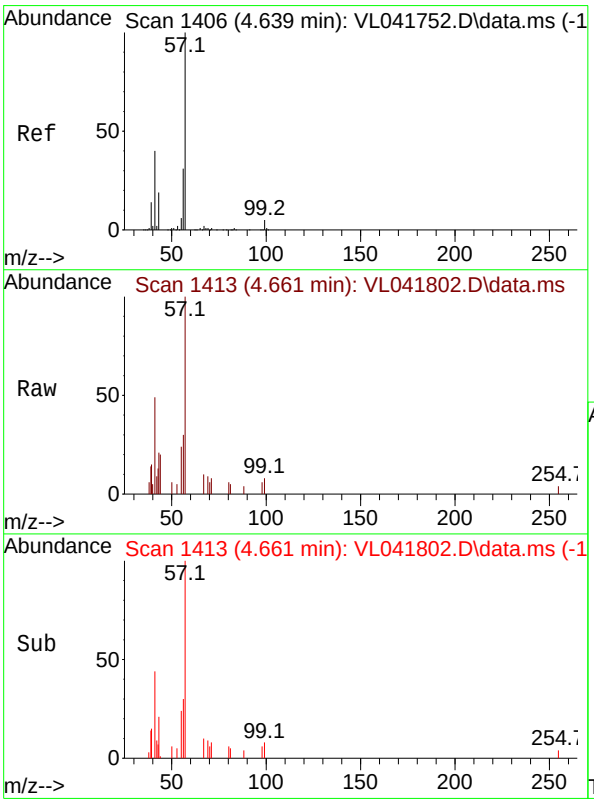
#41
Tetrahydrofuran
Concen: 0.621 ppbv
RT: 3.075 min Scan# 9
Delta R.T. 0.025 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 42 Resp: 5402

Ion	Ratio	Lower	Upper
42	100		
72	33.8	29.1	43.7
71	34.3	28.4	42.6

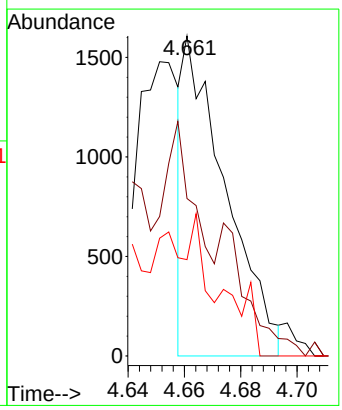


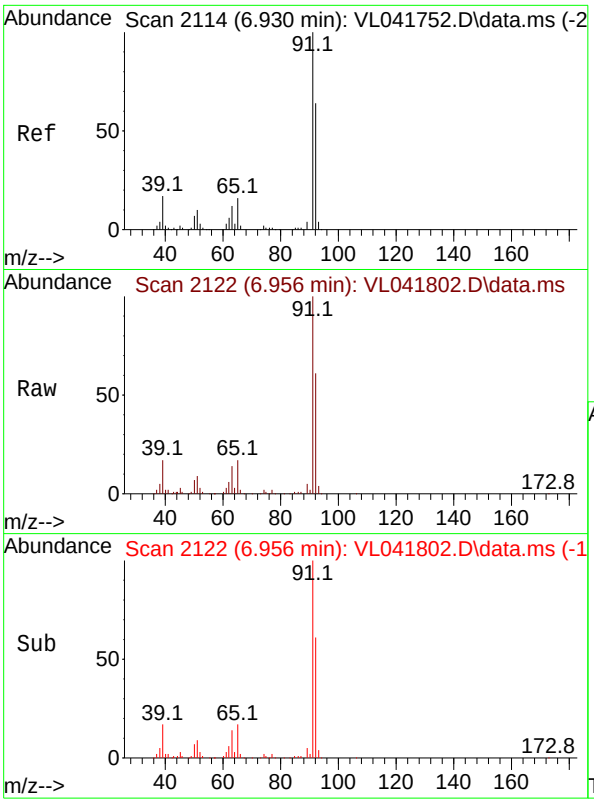


#44
2,2,4-Trimethylpentane
Concen: 0.049 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. 0.022 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 57 Resp: 1670

Ion	Ratio	Lower	Upper
57	100		
41	172.5	30.7	46.1#
56	119.9	25.4	38.0#



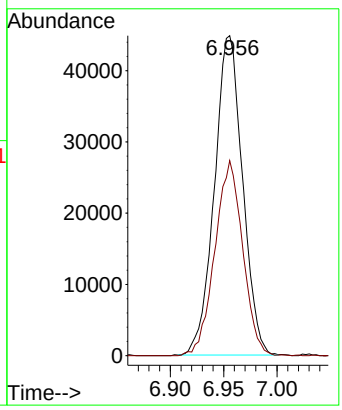


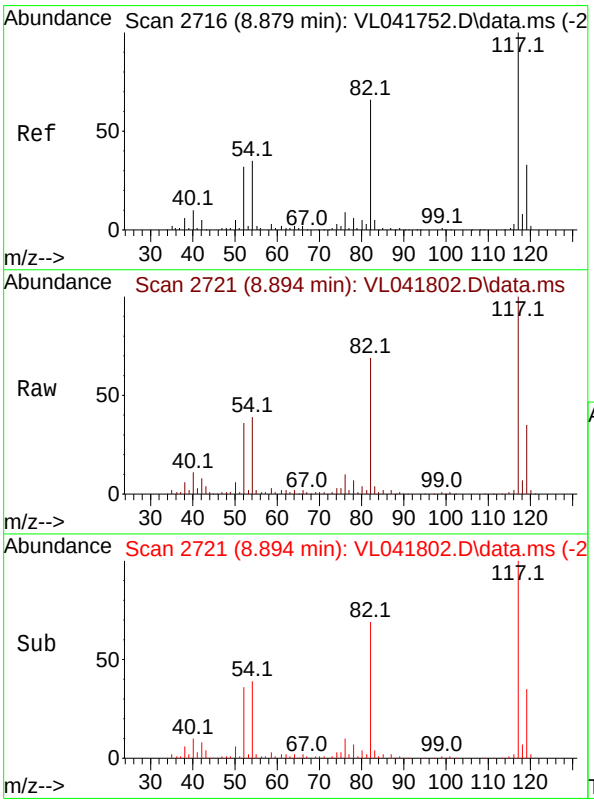
#53
Toluene
Concen: 3.631 ppbv
RT: 6.956 min Scan# 2
Delta R.T. 0.025 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 82132

Ion	Ratio	Lower	Upper
91	100		
92	60.6	47.9	71.9

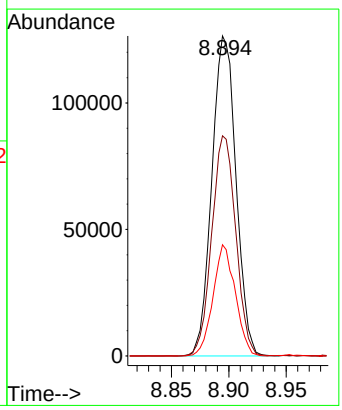


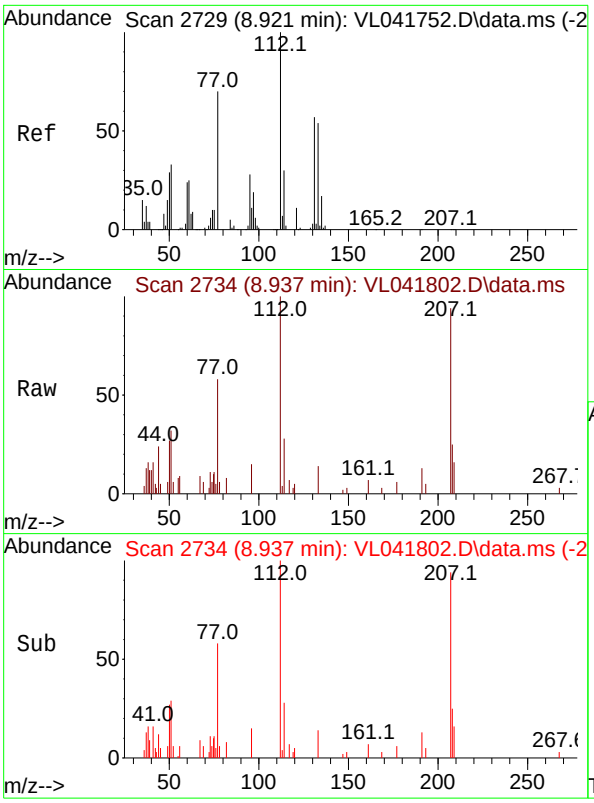


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2721
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion:117 Resp: 185181

Ion	Ratio	Lower	Upper
117	100		
82	68.5	53.8	80.8
119	32.1	26.7	40.1



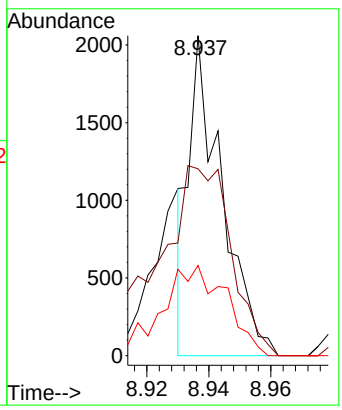


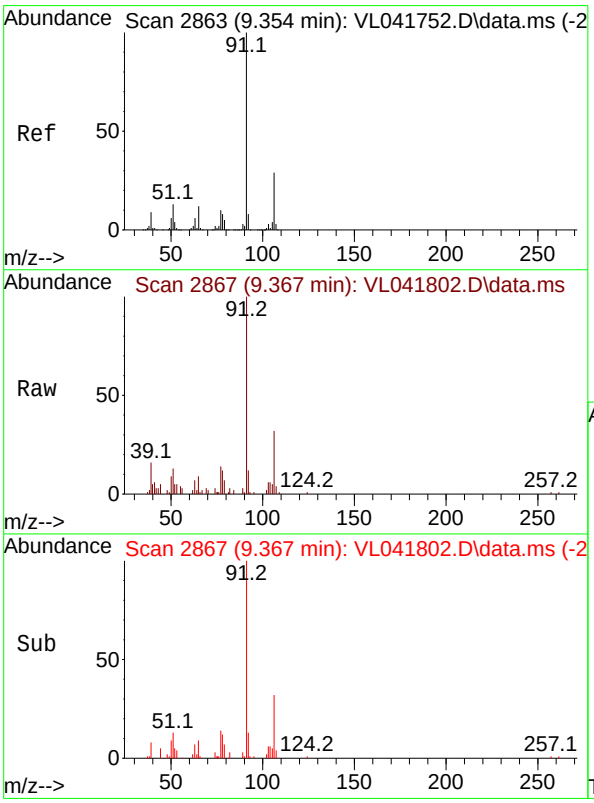
#57
Chlorobenzene
Concen: 0.080 ppbv
RT: 8.937 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:112 Resp: 1507

Ion	Ratio	Lower	Upper
112	100		
77	58.4	57.4	86.0
114	28.2	27.4	33.4

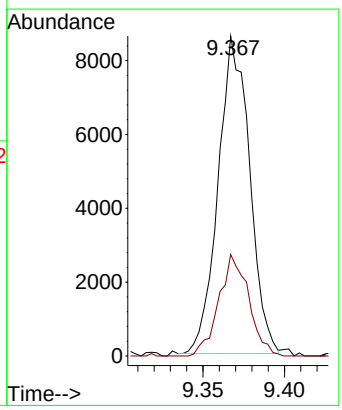


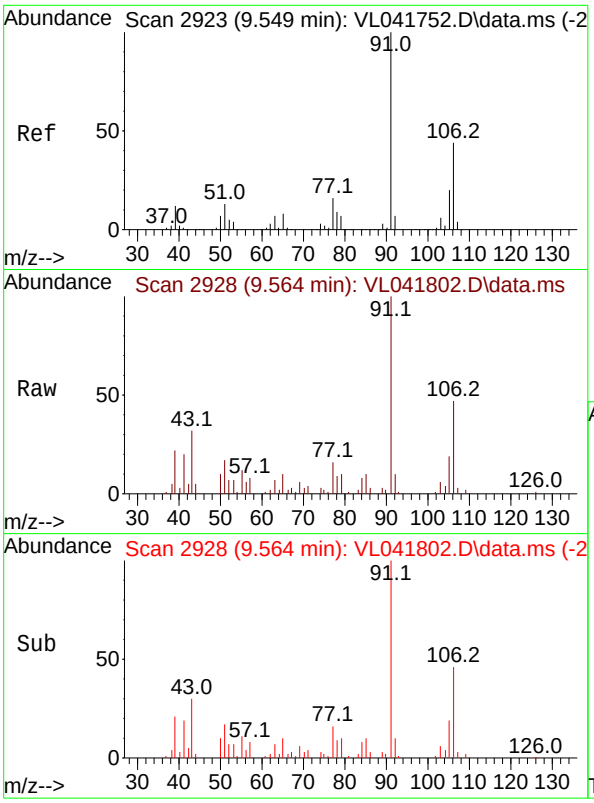


#58
Ethyl Benzene
Concen: 0.346 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 91 Resp: 11534

Ion	Ratio	Lower	Upper
91	100		
106	31.9	23.5	35.3



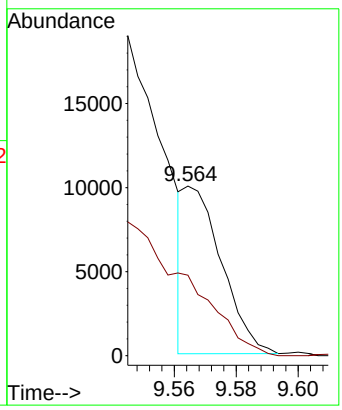


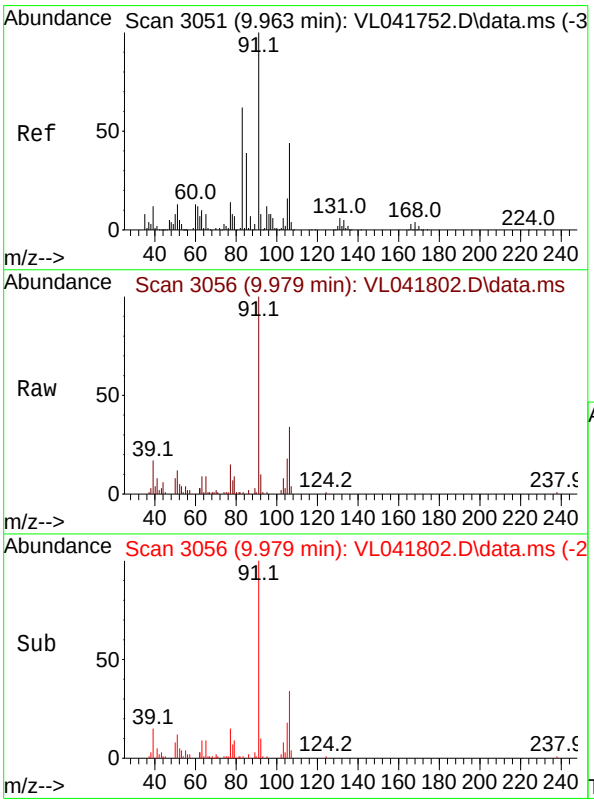
#59
m/p-Xylene
Concen: 0.312 ppbv
RT: 9.564 min Scan# 2
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 8373

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

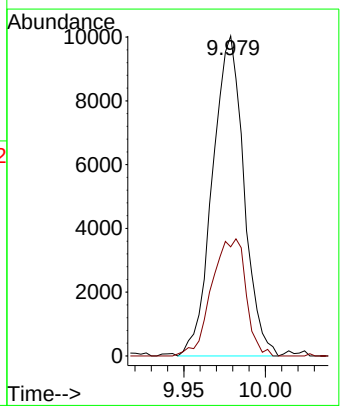


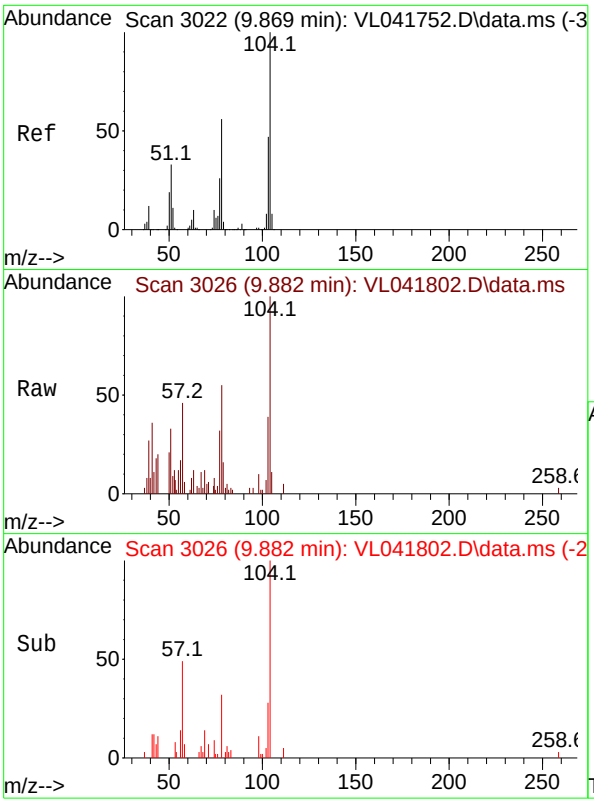


#60
o-Xylene
Concen: 0.499 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 91 Resp: 13407

Ion	Ratio	Lower	Upper
91	100		
106	39.9	21.1	63.4



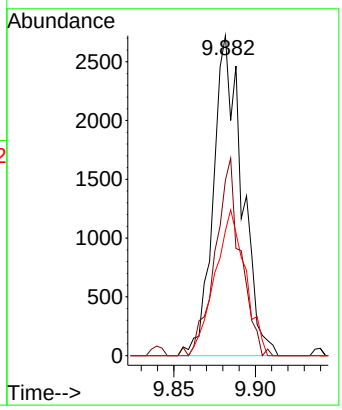


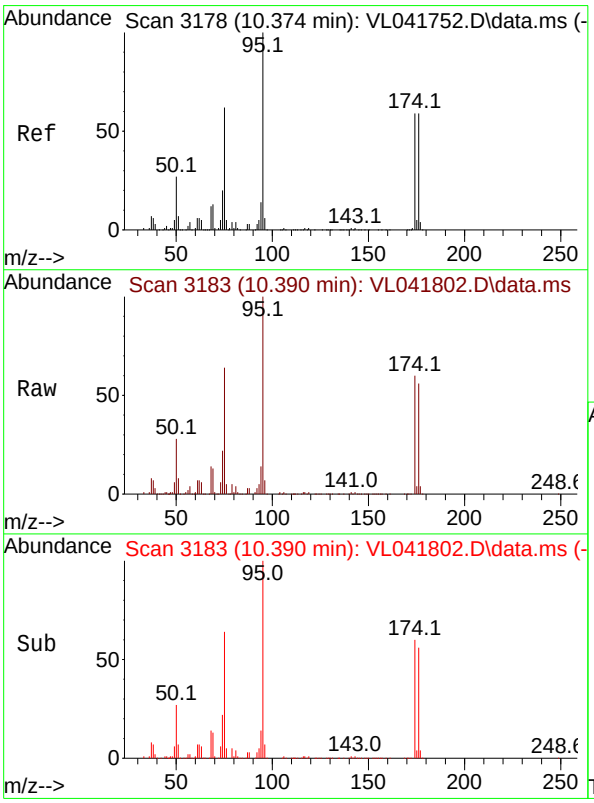
#61
Styrene
Concen: 0.287 ppbv
RT: 9.882 min Scan# 3
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:104 Resp: 3334

Ion	Ratio	Lower	Upper
104	100		
78	55.8	43.8	65.6
103	48.0	37.8	56.6

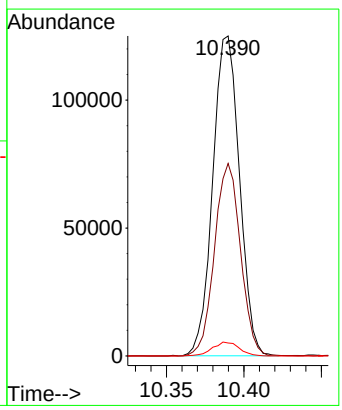


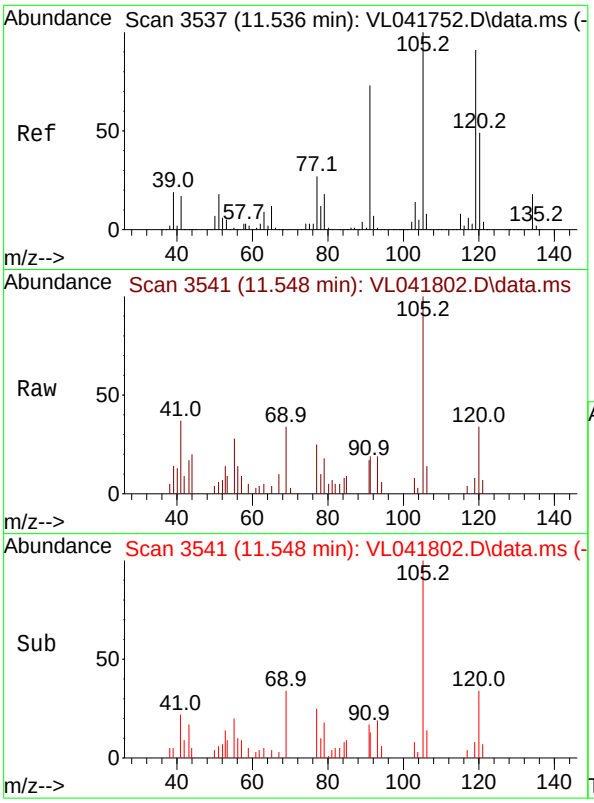


#68
1-Bromo-4-Fluorobenzene
Concen: 9.722 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.016 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Tgt Ion: 95 Resp: 150031

Ion	Ratio	Lower	Upper
95	100		
174	58.6	47.6	71.4
175	4.4	3.7	5.5





#74
1,2,4-Trimethylbenzene
Concen: 0.069 ppbv
RT: 11.548 min Scan# 3
Delta R.T. 0.013 min
Lab File: VL041802.D
Acq: 18 Dec 2024 19:58

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:105 Resp: 1962

Ion	Ratio	Lower	Upper
105	100		
120	33.9	39.0	58.4#
91	35.4	58.1	87.1#
77	25.3	21.8	32.8