Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042862.D
Acq On : 13 Aug 2025 21:26
Operator : SY/MD
Sample : Q2834-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Aug 14 02:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	126696	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.968	114	384213	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	328630	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.387	95	250839	10.178	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 101.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	1200	0.065	ppbv		91
3) Chlorodifluoromethane	1.479	51	606	0.030	ppbv	#	90
4) Chloromethane	1.534	50	237	0.032	ppbv	#	44
6) Bromomethane	1.657	94	68	0.023	ppbv	#	73
7) Chloroethane	1.709	64	105	0.036	ppbv	#	39
9) Propene	1.489	41	1229	0.139	ppbv	#	79
10) Heptane	4.991	43	3107	0.131	ppbv	#	74
11) Trichlorofluoromethane	1.877	101	567	0.031	ppbv		89
13) Ethanol	1.722	45	96985	119.666	ppbv		90
15) Acetone	1.839	43	87245	5.206	ppbv		97
16) 1,3-Butadiene	1.625	39	450	0.059	ppbv	#	10
17) tert-Butyl alcohol	2.049	59	8016	0.403	ppbv	#	87
19) Isopropyl Alcohol	1.890	45	3151	0.315	ppbv	#	1
20) Methylene Chloride	2.065	84	2362	0.336	ppbv		94
23) Vinyl Acetate	2.463	43	489	0.021	ppbv	#	1
25) Ethyl Acetate	2.832	43	15674	0.386	ppbv	#	78
26) Hexane	2.832	57	23928	1.278	ppbv	#	43
27) Carbon Disulfide	2.156	76	582	0.032	ppbv	#	1
29) Chloroform	2.852	83	2537	0.095	ppbv	#	81
30) Cyclohexane	3.871	84	417	0.025	ppbv	#	1
34) 2-Butanone	2.567	43	9355	0.361	ppbv		94
36) Benzene	3.658	78	1204	0.033	ppbv		99
39) 1,2-Dichloropropane	3.965	63	95390	7.099	ppbv	#	27
41) Tetrahydrofuran	3.075	42	2121	0.147	ppbv	#	87
51) 2-Hexanone	7.448	43	828	0.030	ppbv	#	27
52) Tetrachloroethene	8.234	164	577	0.043	ppbv	#	54
53) Toluene	6.949	91	23951	0.548	ppbv		99
57) Chlorobenzene	8.979	112	949	0.030	ppbv	#	41
59) m/p-Xylene	9.545	91	1535	0.034	ppbv	#	100
74) 1,2,4-Trimethylbenzene	11.542	105	1758	0.034	ppbv	#	61

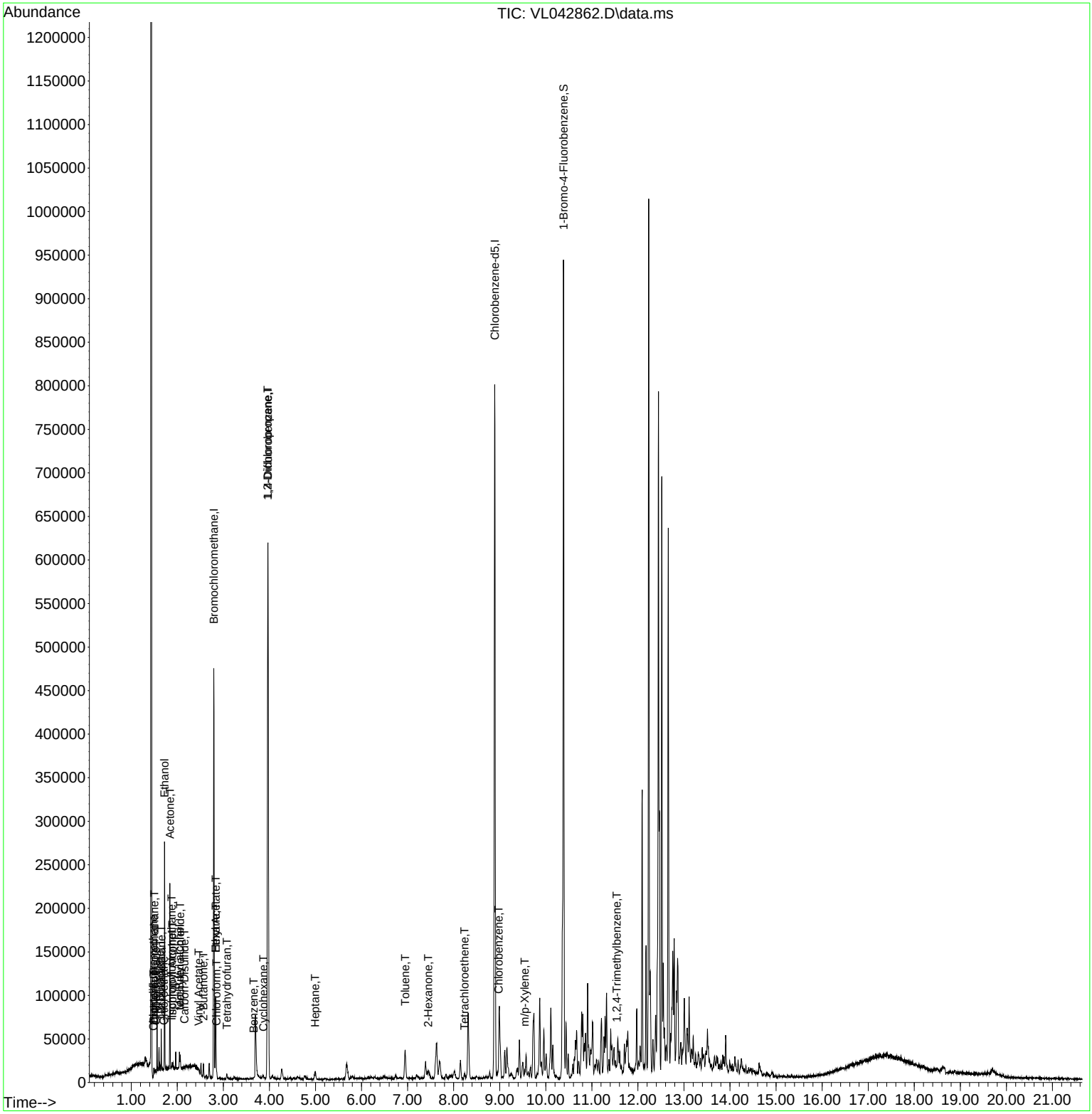
(#) = qualifier out of range (m) = manual integration (+) = signals summed

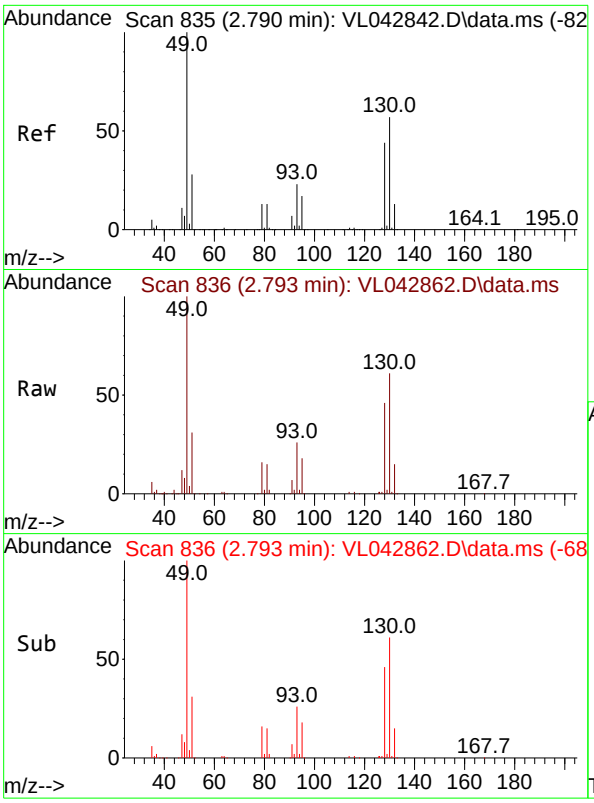
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042862.D
Acq On : 13 Aug 2025 21:26
Operator : SY/MD
Sample : Q2834-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Aug 14 02:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration



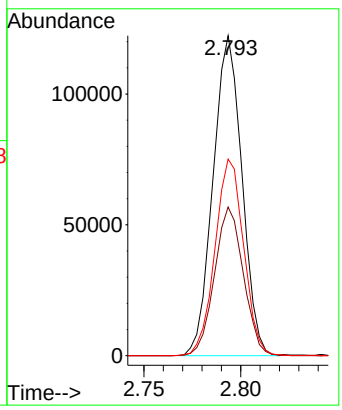


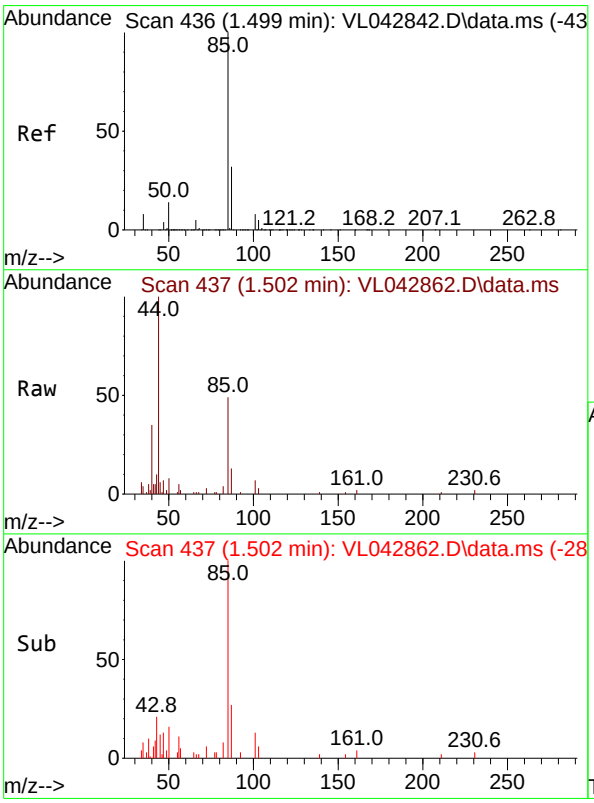
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 8
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 126696

Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.7	71.1
130	61.2	30.6	91.6

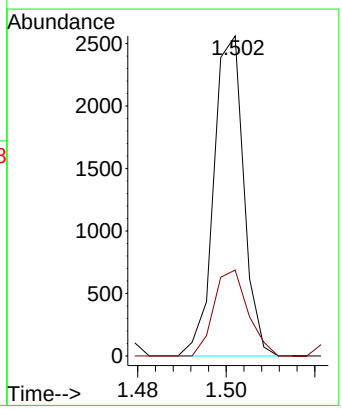


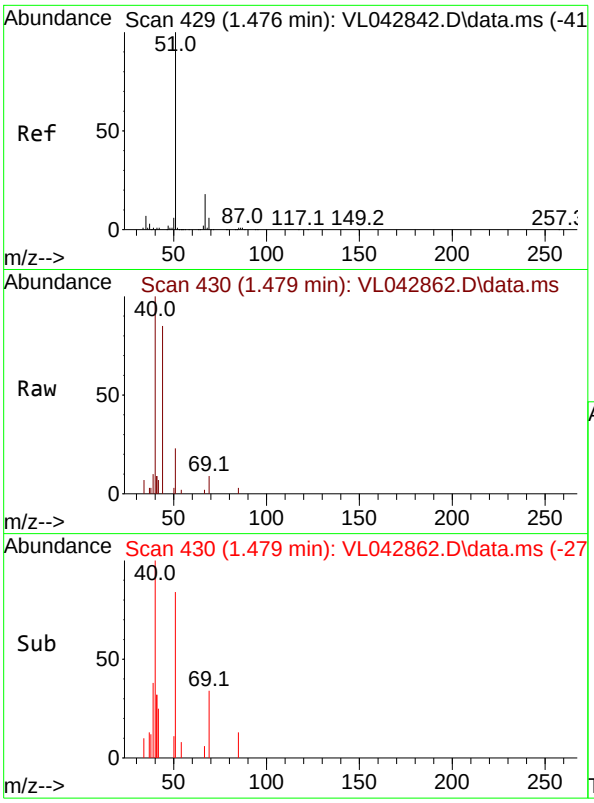


#2
Dichlorodifluoromethane
Concen: 0.065 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 85 Resp: 1200

Ion	Ratio	Lower	Upper
85	100		
87	26.9	25.3	37.9



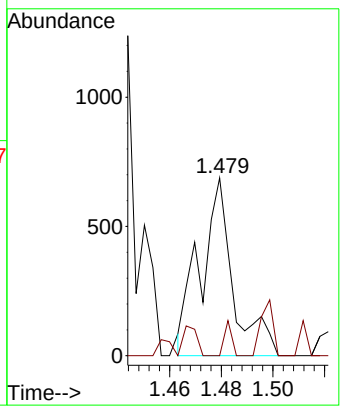


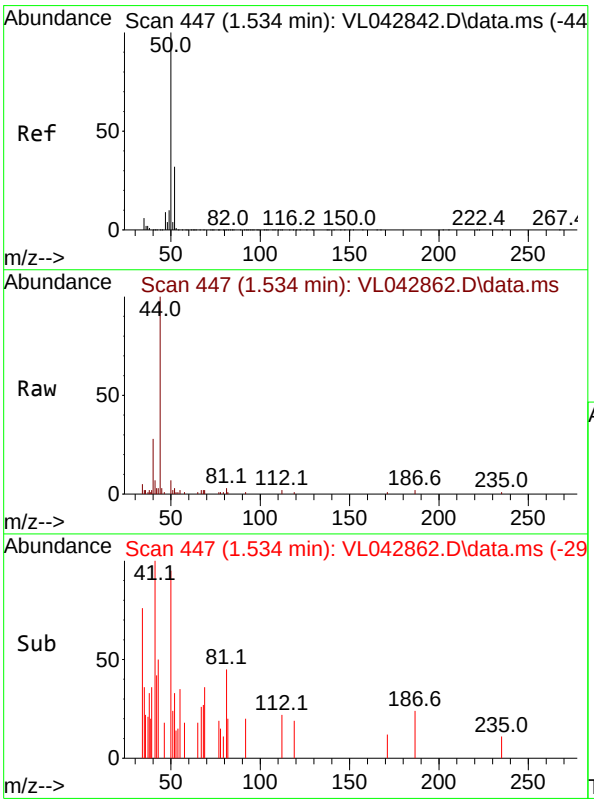
#3
Chlorodifluoromethane
Concen: 0.030 ppbv
RT: 1.479 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 606

Ion	Ratio	Lower	Upper
51	100		
67	23.1	14.9	22.3#

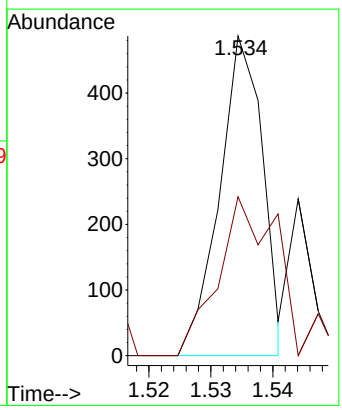


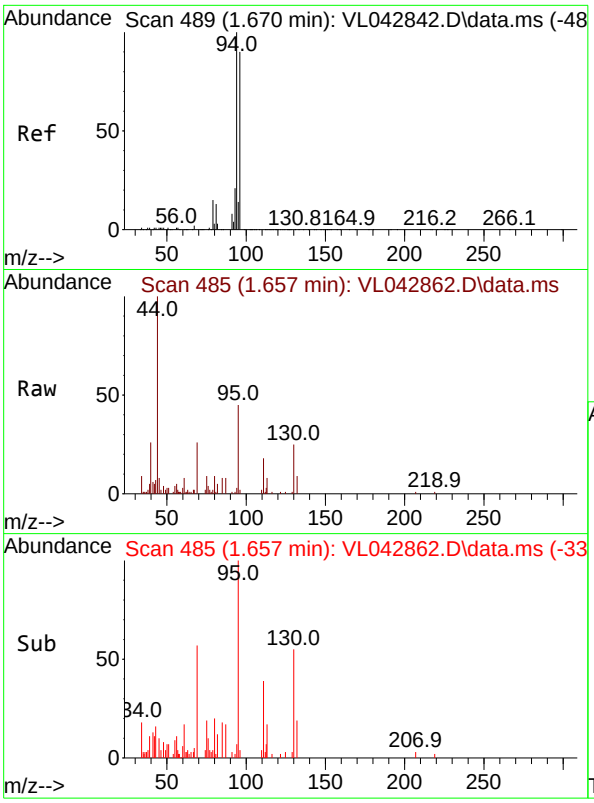


#4
Chloromethane
Concen: 0.032 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 50 Resp: 237

Ion	Ratio	Lower	Upper
50	100		
52	64.1	25.9	38.9#



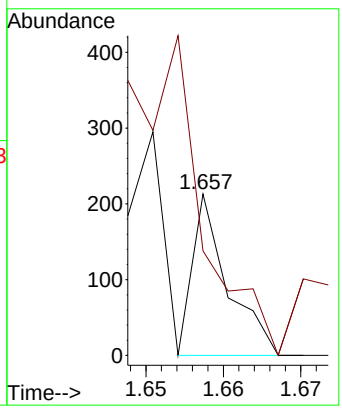


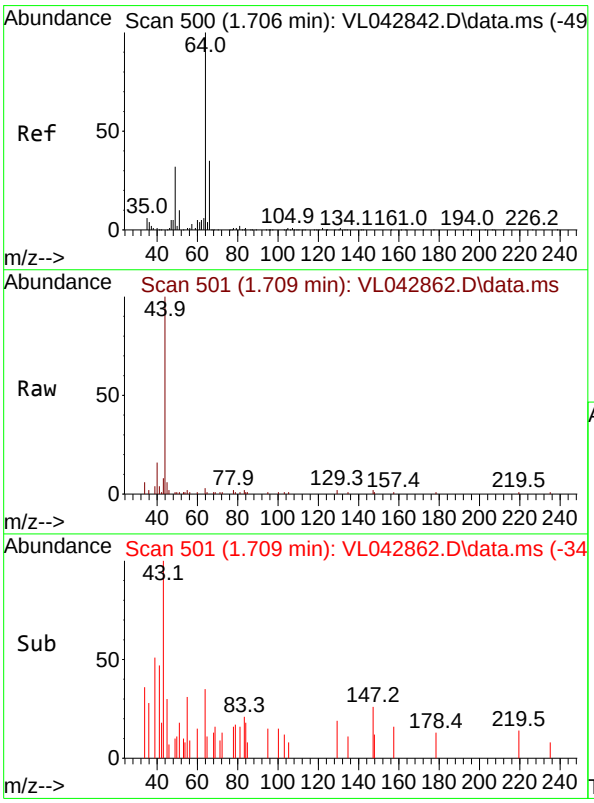
#6
Bromomethane
Concen: 0.023 ppbv
RT: 1.657 min Scan# 4
Delta R.T. -0.013 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 94 Resp: 68

Ion	Ratio	Lower	Upper
94	100		
96	64.8	72.1	108.1#

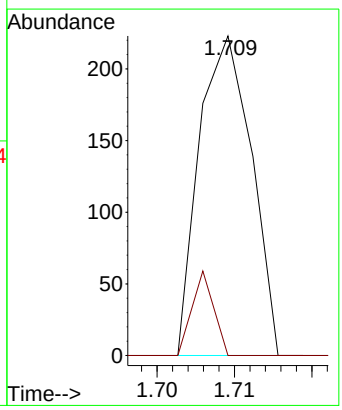


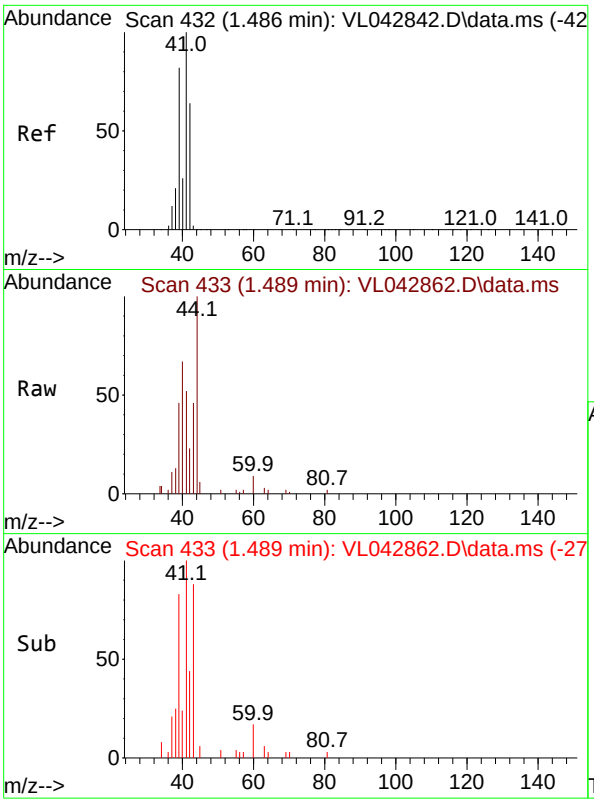


#7
Chloroethane
Concen: 0.036 ppbv
RT: 1.709 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 64 Resp: 105

Ion	Ratio	Lower	Upper
64	100		
66	0.0	28.6	42.8#



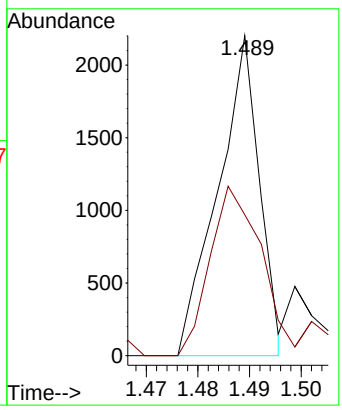


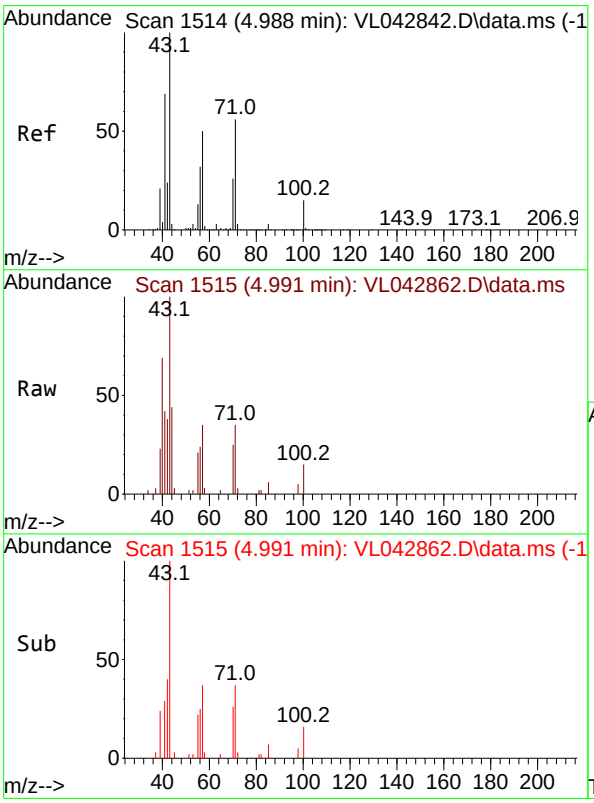
#9
Propene
Concen: 0.139 ppbv
RT: 1.489 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 41 Resp: 1229

Ion	Ratio	Lower	Upper
41	100		
42	82.6	53.0	79.4#

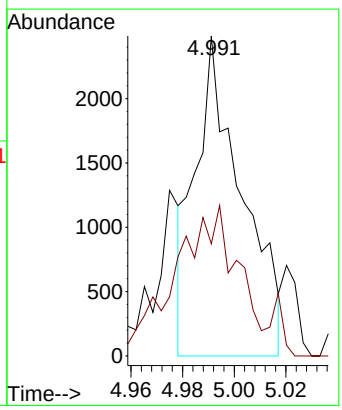


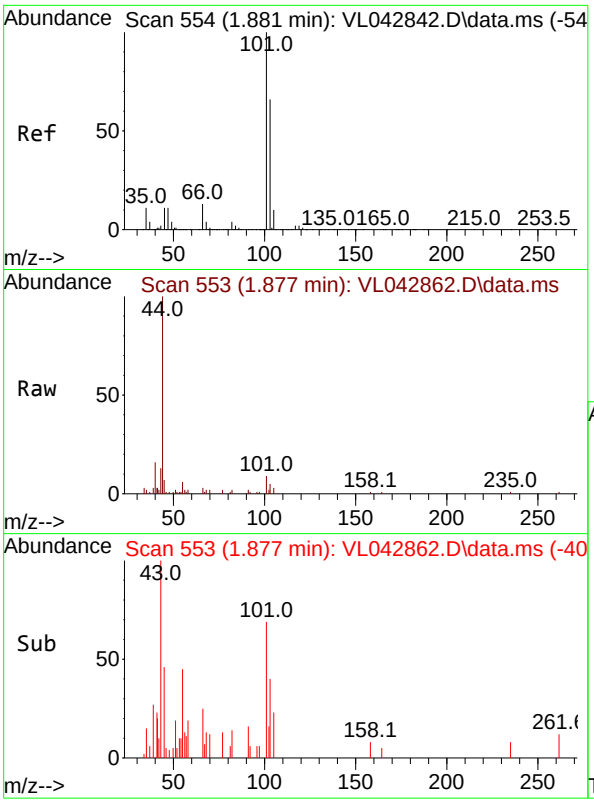


#10
Heptane
Concen: 0.131 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 43 Resp: 3107

Ion	Ratio	Lower	Upper
43	100		
57	69.7	41.4	62.0#



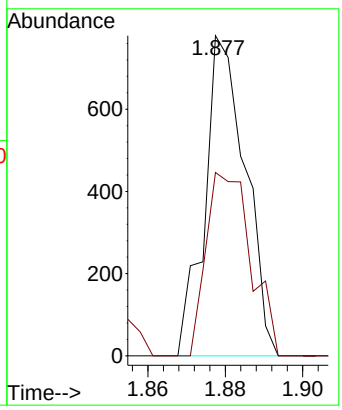


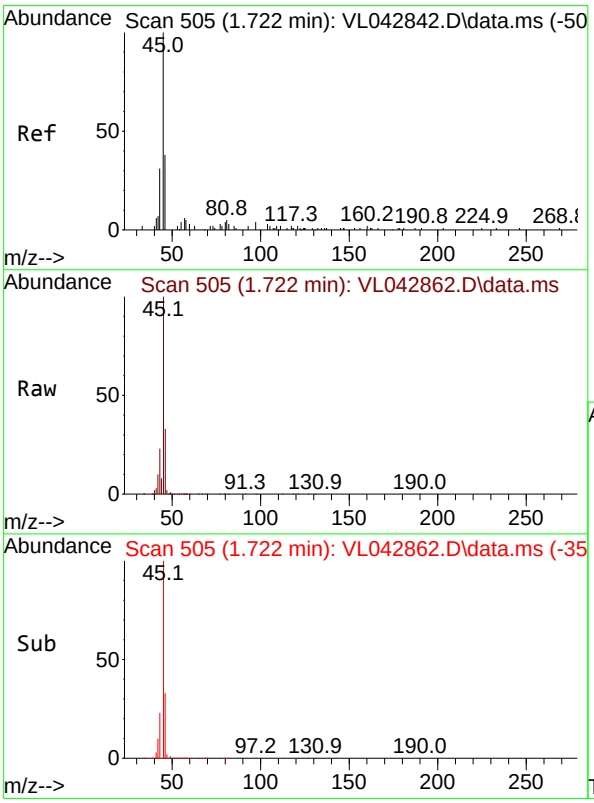
#11
Trichlorofluoromethane
Concen: 0.031 ppbv
RT: 1.877 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:101 Resp: 567

Ion	Ratio	Lower	Upper
101	100		
103	57.3	52.5	78.7

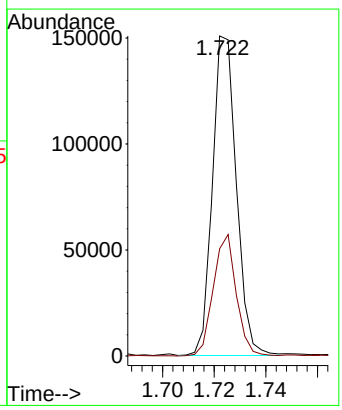


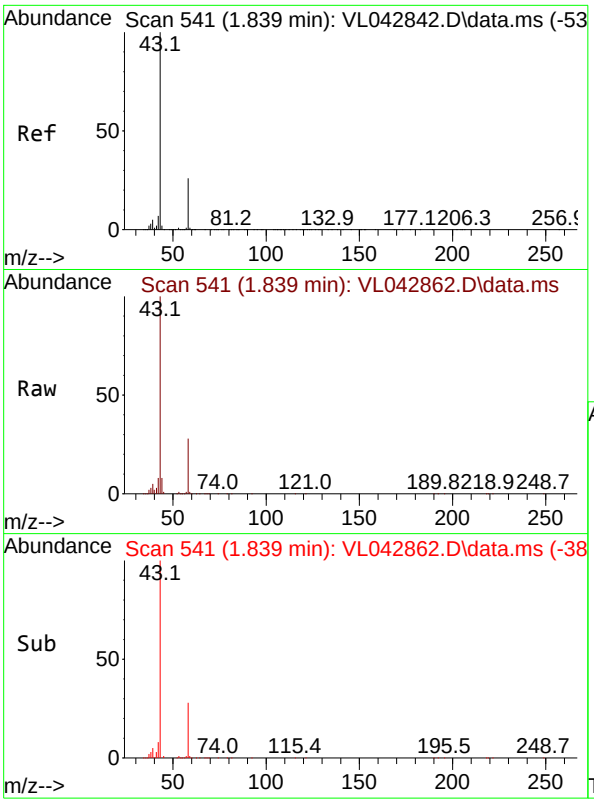


#13
Ethanol
Concen: 119.666 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 45 Resp: 96985

Ion	Ratio	Lower	Upper
45	100		
46	37.1	17.5	69.9



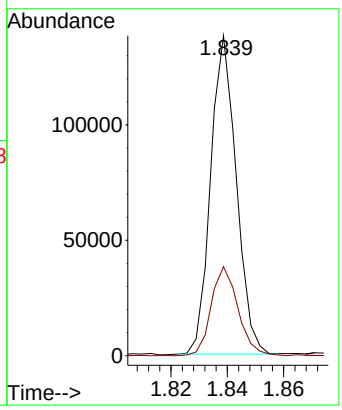


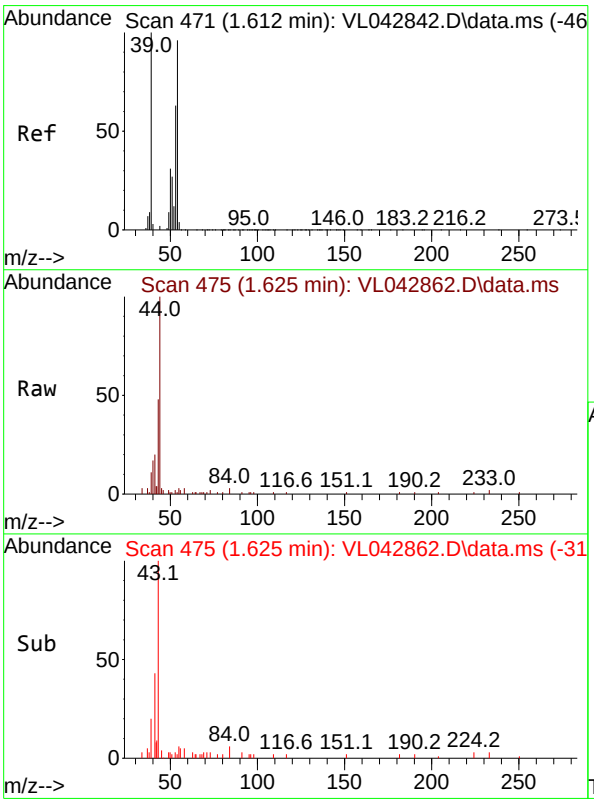
#15
Acetone
Concen: 5.206 ppbv
RT: 1.839 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 87245

Ion	Ratio	Lower	Upper
43	100		
58	29.5	22.4	33.6

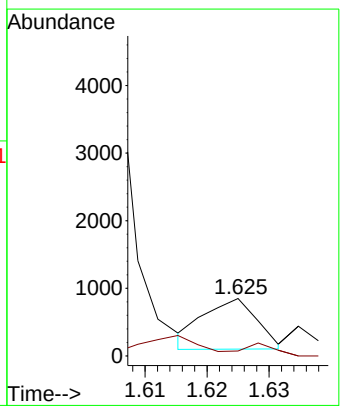


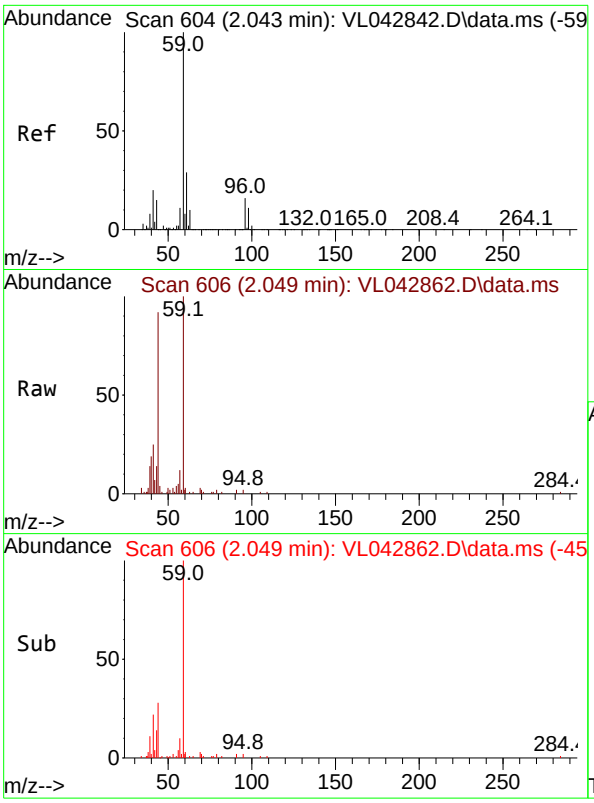


#16
1,3-Butadiene
Concen: 0.059 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.013 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 39 Resp: 450

Ion	Ratio	Lower	Upper
39	100		
54	0.0	63.6	95.4#



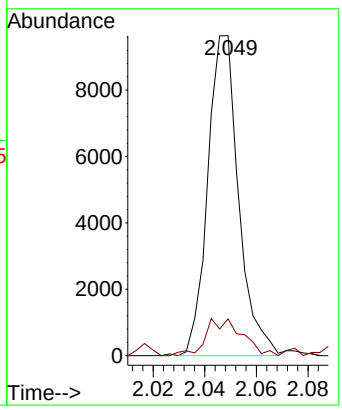


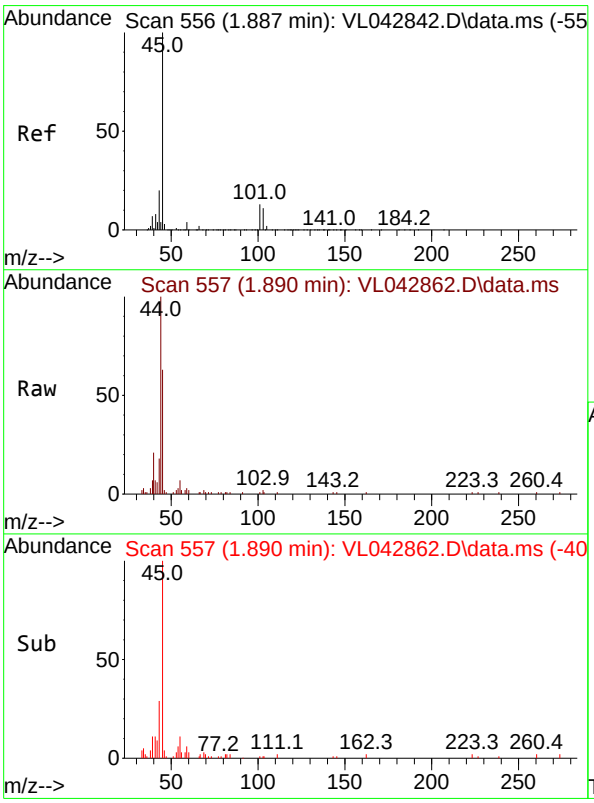
#17
tert-Butyl alcohol
Concen: 0.403 ppbv
RT: 2.049 min Scan# 6
Delta R.T. 0.006 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 59 Resp: 8016

Ion	Ratio	Lower	Upper
59	100		
57	16.3	9.0	13.4#

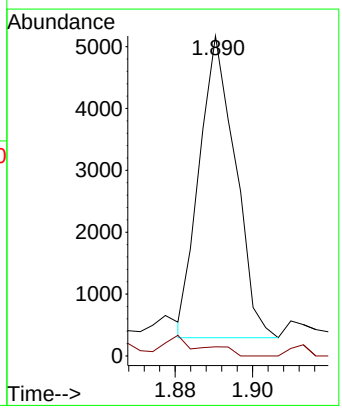


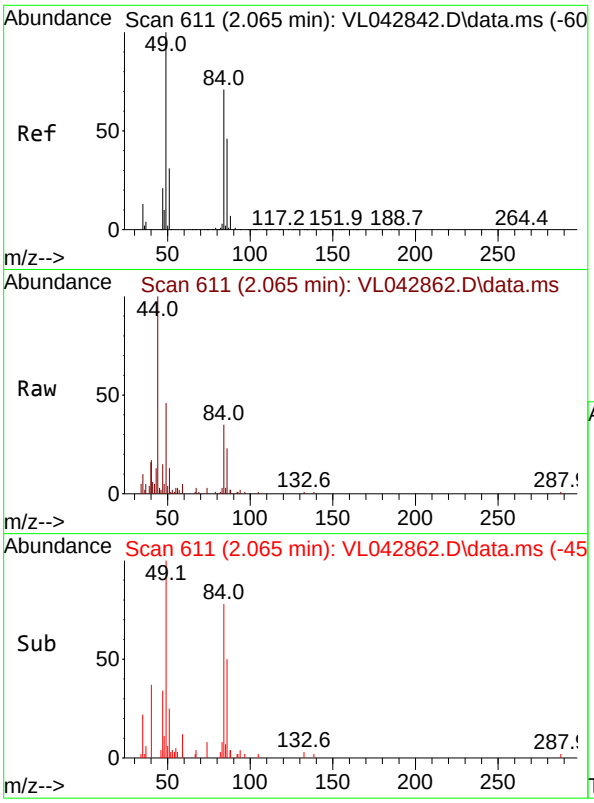


#19
Isopropyl Alcohol
Concen: 0.315 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 45 Resp: 3151

Ion	Ratio	Lower	Upper
45	100		
58	818.1	32.7	49.1#



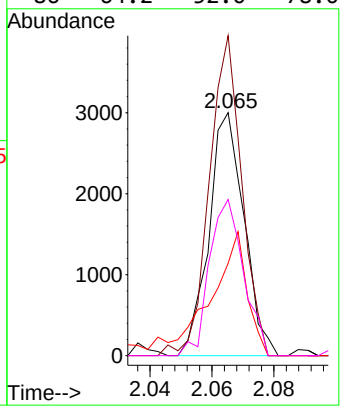


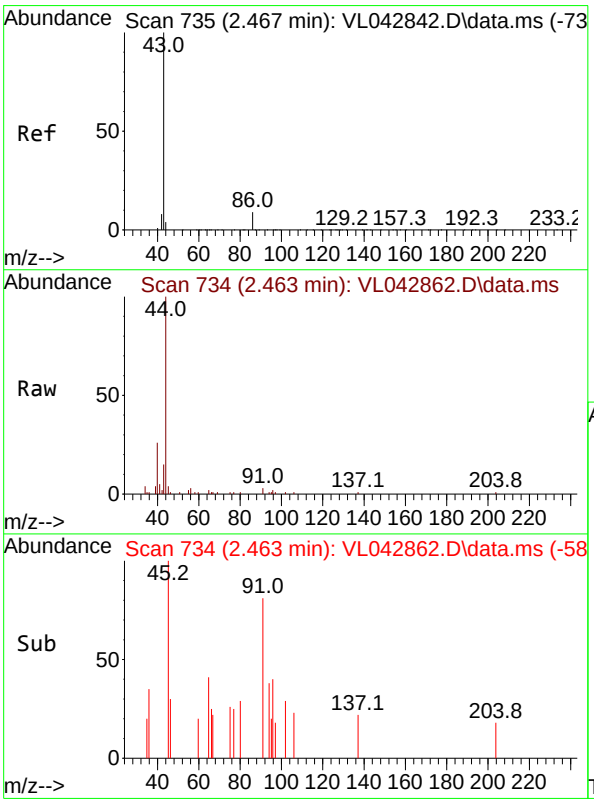
#20
Methylene Chloride
Concen: 0.336 ppbv
RT: 2.065 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 2362

Ion	Ratio	Lower	Upper
84	100		
49	131.6	112.3	168.5
51	38.0	36.0	54.0
86	64.2	52.0	78.0

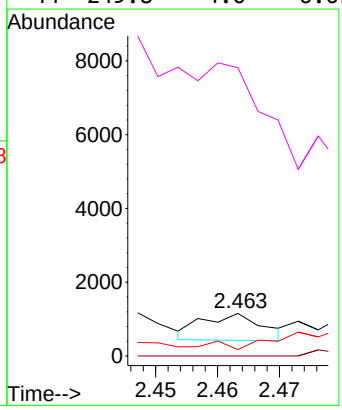


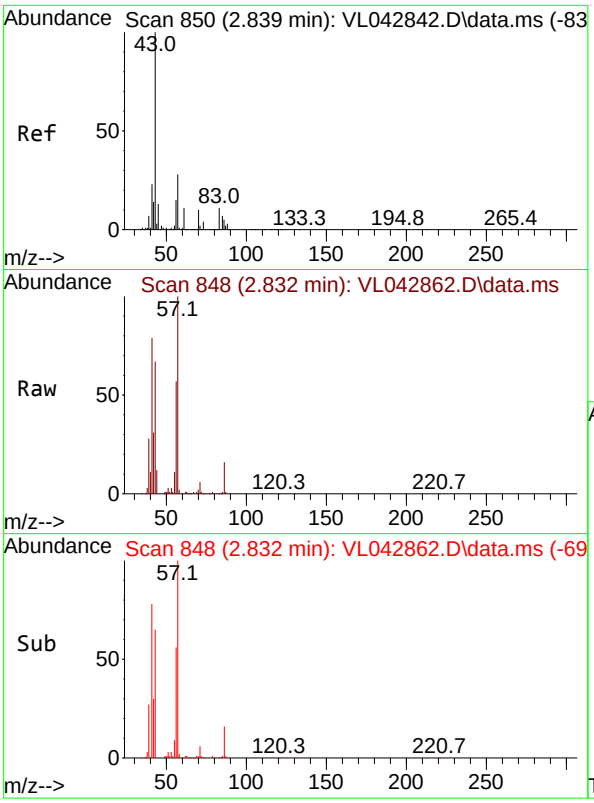


#23
Vinyl Acetate
Concen: 0.021 ppbv
RT: 2.463 min Scan# 734
Delta R.T. -0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 43 Resp: 489

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	0.0	7.0	10.6#
44	249.8	4.0	6.0#



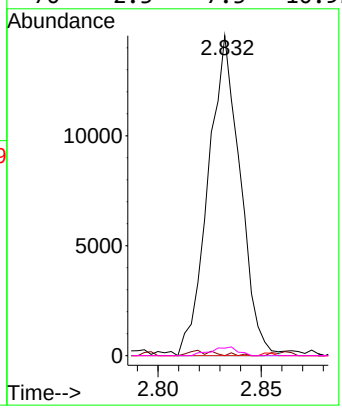


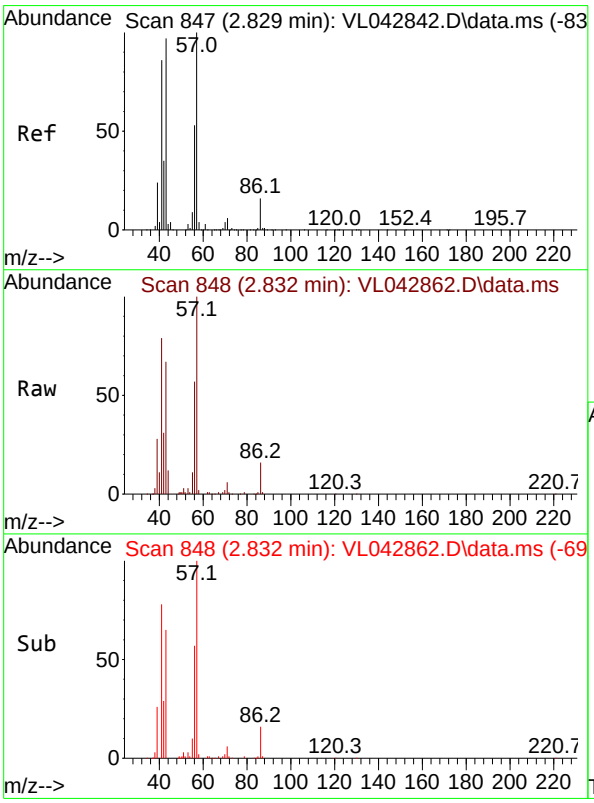
#25
Ethyl Acetate
Concen: 0.386 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 15674

Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.1	12.1#
61	0.0	7.4	11.2#
70	2.3	7.3	10.9#

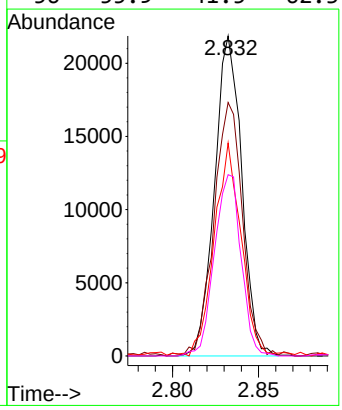


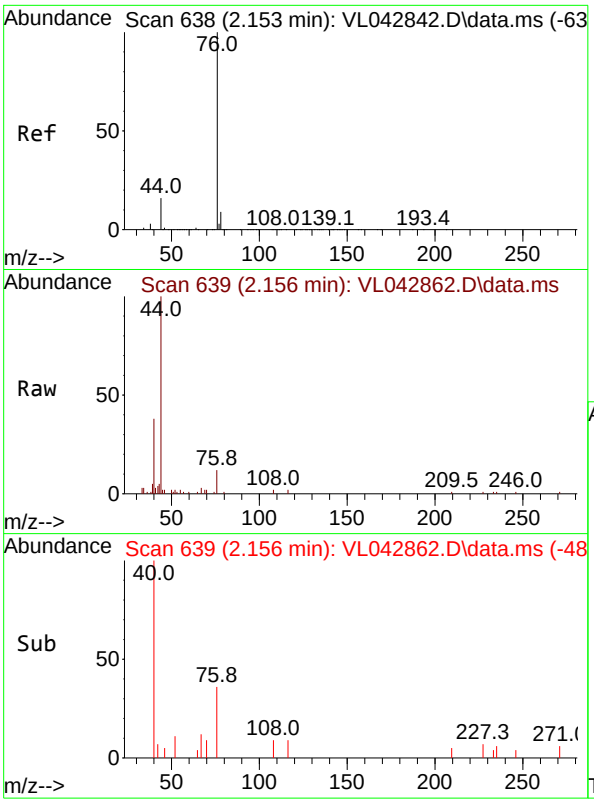


#26
Hexane
Concen: 1.278 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 57 Resp: 23928

Ion	Ratio	Lower	Upper
57	100		
41	84.1	68.6	103.0
43	66.4	168.5	252.7#
56	55.9	41.5	62.3



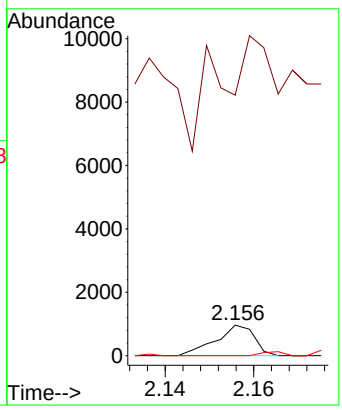


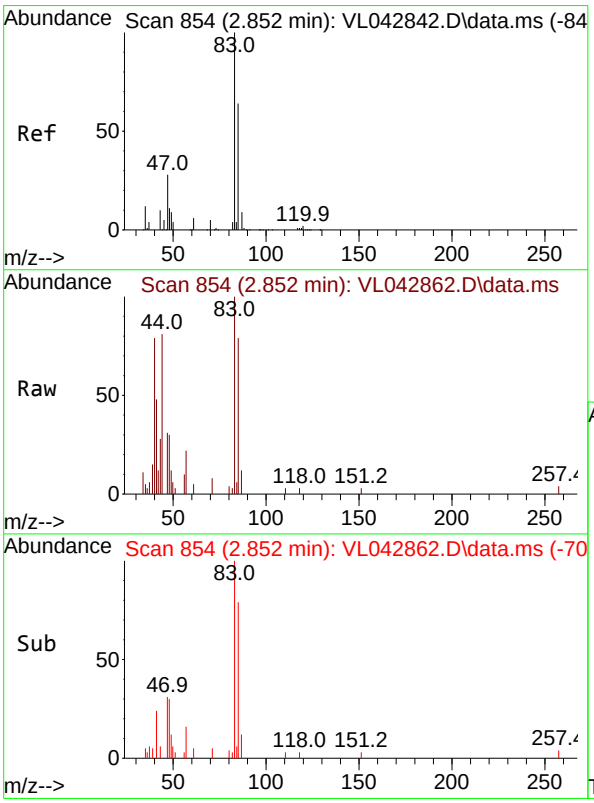
#27
Carbon Disulfide
Concen: 0.032 ppbv
RT: 2.156 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 76 Resp: 582

Ion	Ratio	Lower	Upper
76	100		
44	2835.9	15.9	23.9#
78	34.5	9.5	14.3#

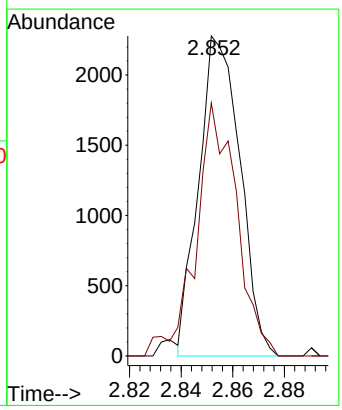


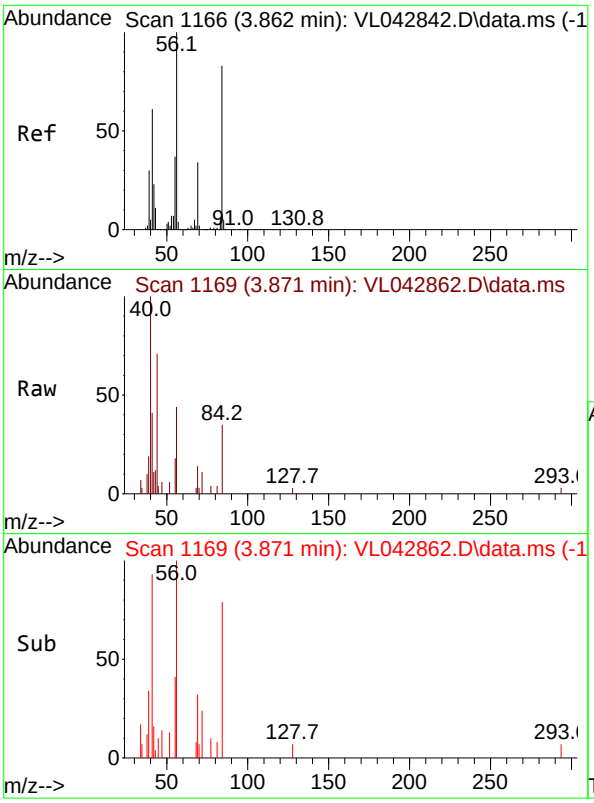


#29
Chloroform
Concen: 0.095 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 83 Resp: 2537

Ion	Ratio	Lower	Upper
83	100		
85	79.1	51.1	76.7#



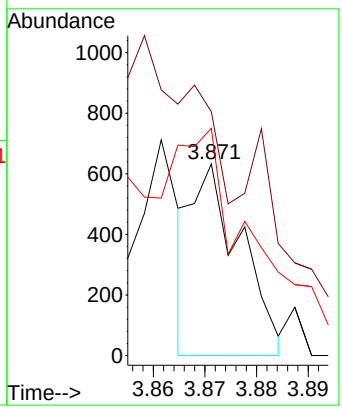


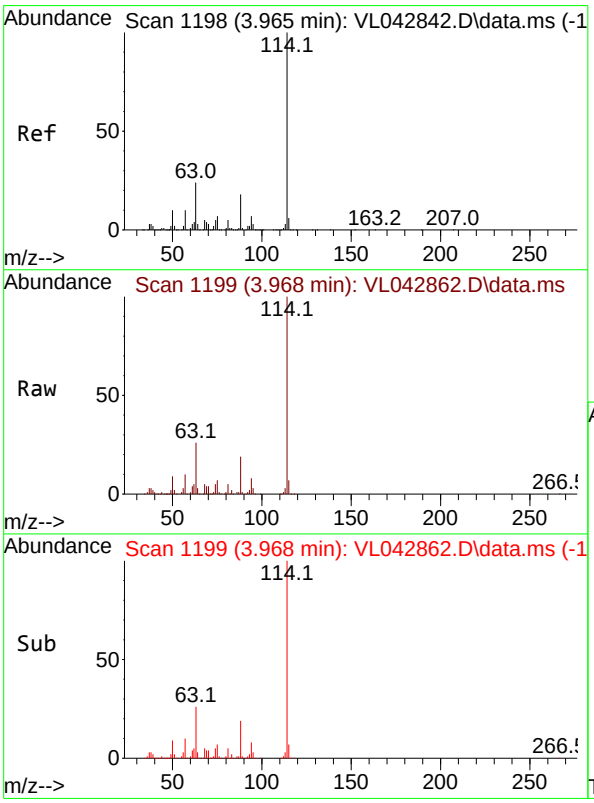
#30
Cyclohexane
Concen: 0.025 ppbv
RT: 3.871 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 417

Ion	Ratio	Lower	Upper
84	100		
56	0.0	98.8	148.2#
41	0.0	61.3	91.9#

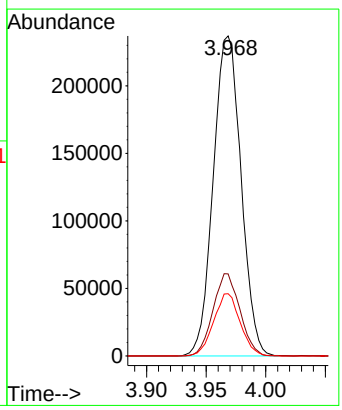


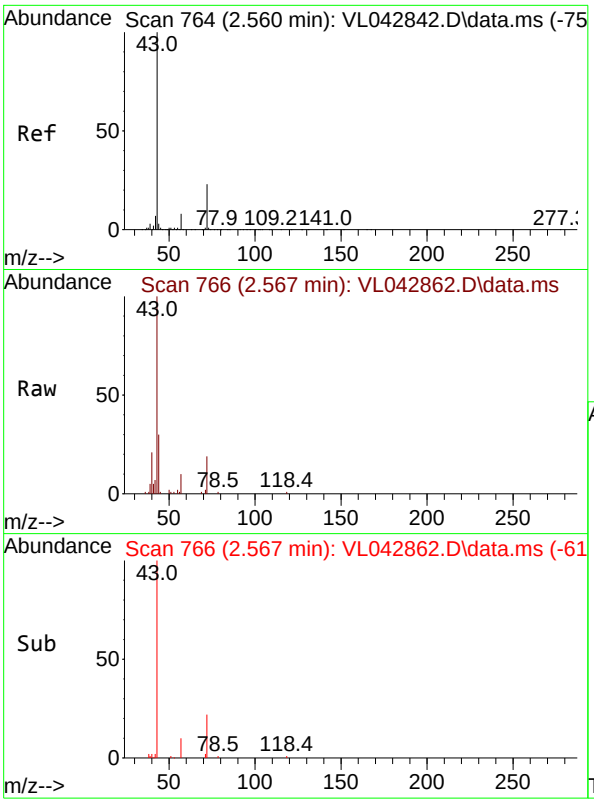


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion:114 Resp: 384213

Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.7	29.5
88	18.6	14.4	21.6



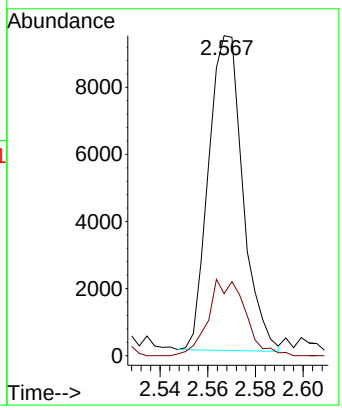


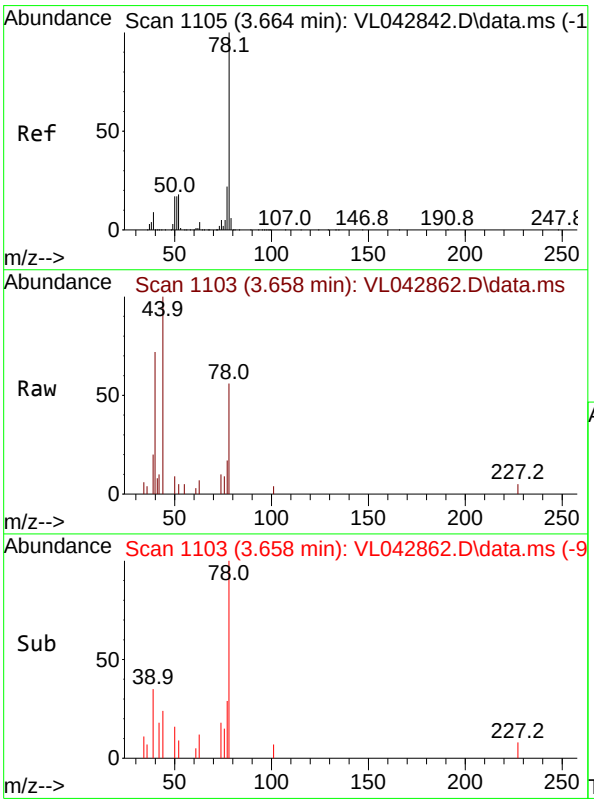
#34
2-Butanone
Concen: 0.361 ppbv
RT: 2.567 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 9355

Ion	Ratio	Lower	Upper
43	100		
72	26.2	18.6	28.0

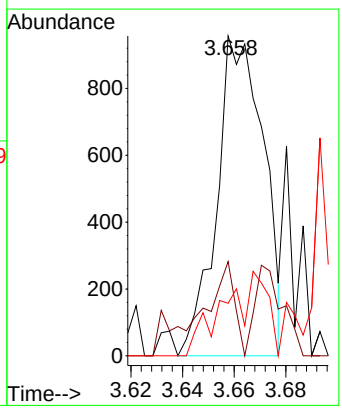


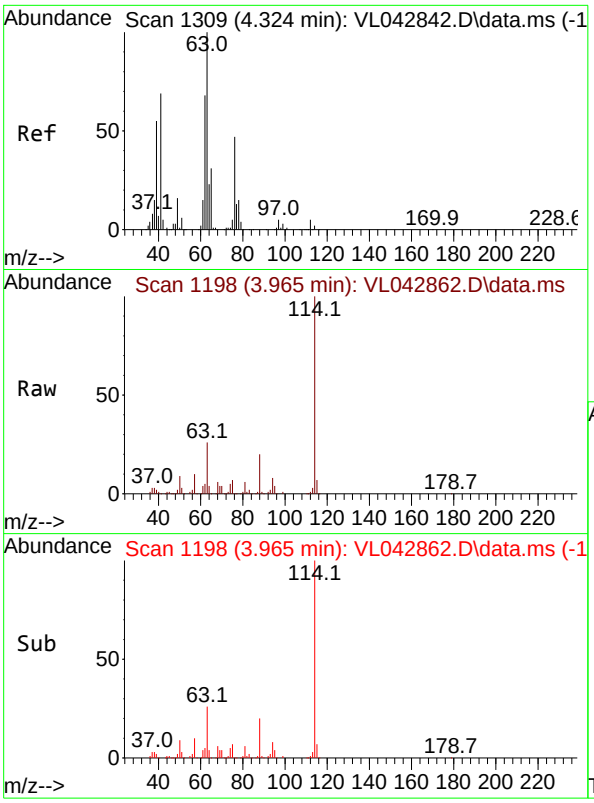


#36
Benzene
Concen: 0.033 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. -0.007 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 78 Resp: 1204

Ion	Ratio	Lower	Upper
78	100		
77	22.3	17.7	26.5
50	18.1	13.9	20.9



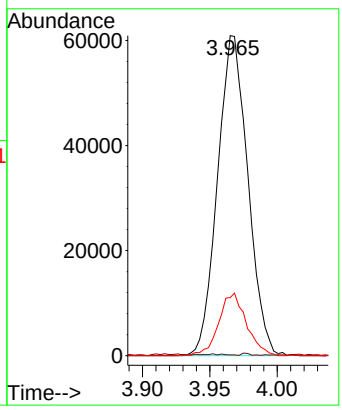


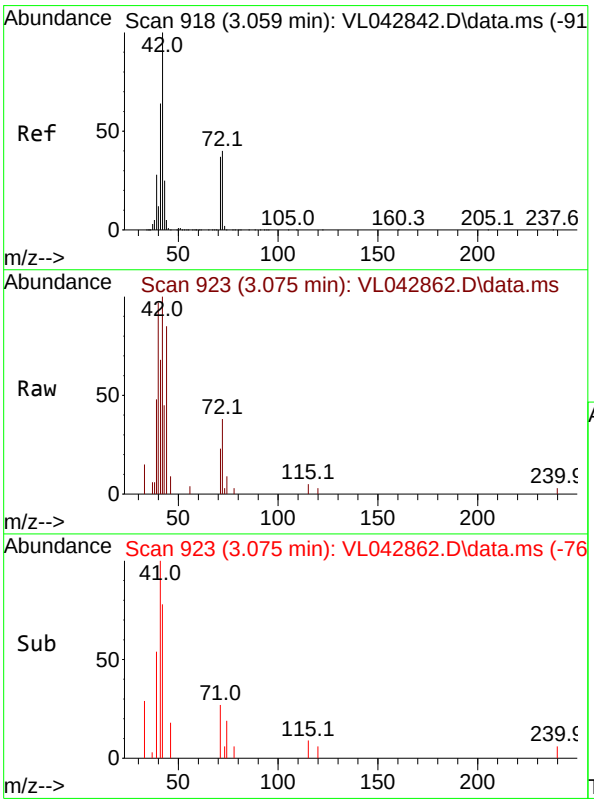
#39
1,2-Dichloropropane
Concen: 7.099 ppbv
RT: 3.965 min Scan# 11
Delta R.T. -0.359 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 63 Resp: 95390

Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.0	82.4#
62	18.2	54.4	81.6#

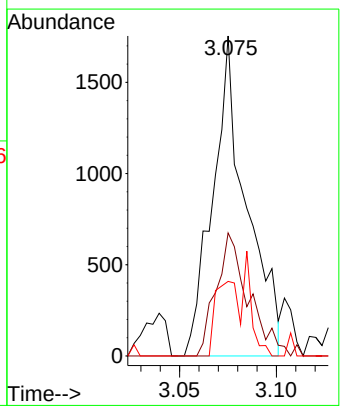


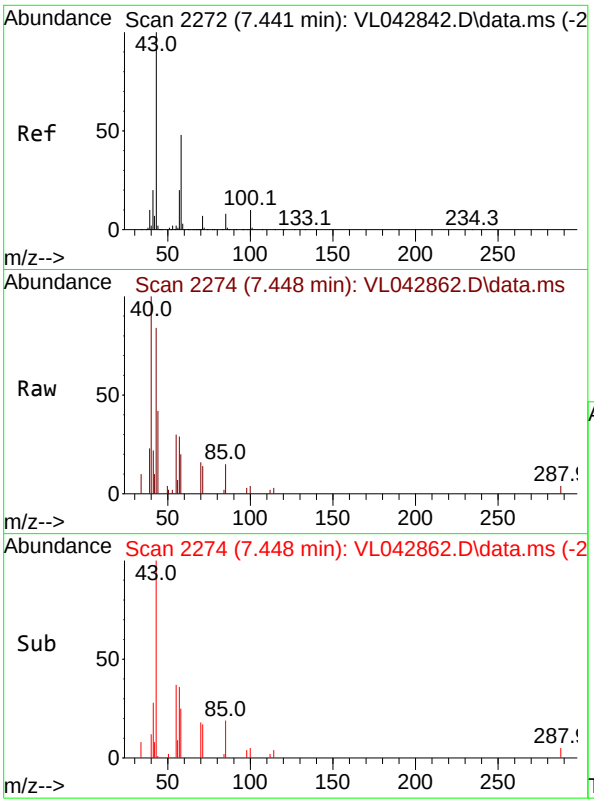


#41
Tetrahydrofuran
Concen: 0.147 ppbv
RT: 3.075 min Scan# 923
Delta R.T. 0.016 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 42 Resp: 2121

Ion	Ratio	Lower	Upper
42	100		
72	37.3	32.6	48.8
71	24.6	30.0	45.0#



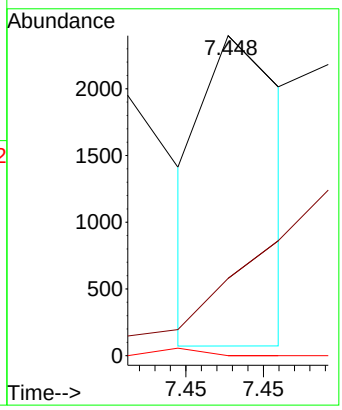


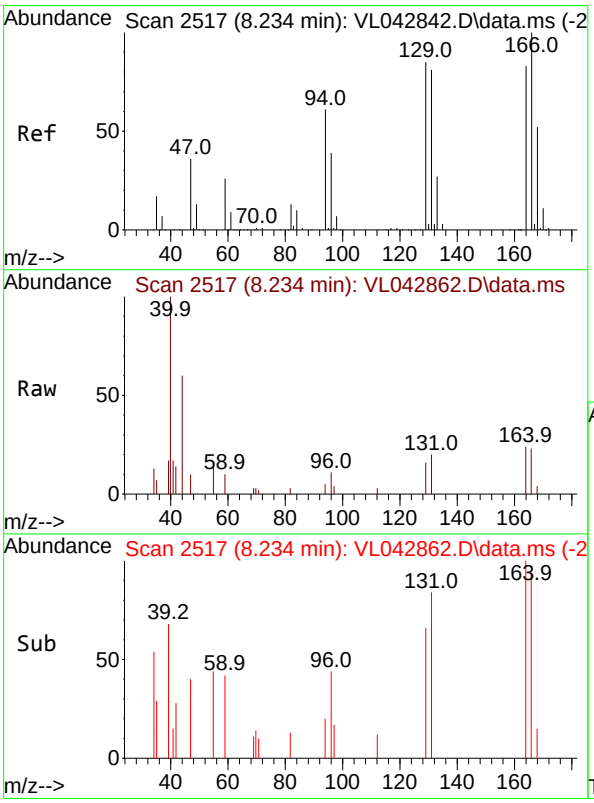
#51
2-Hexanone
Concen: 0.030 ppbv
RT: 7.448 min Scan# 2
Delta R.T. 0.006 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 828

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.6#
98	0.0	0.1	0.1#

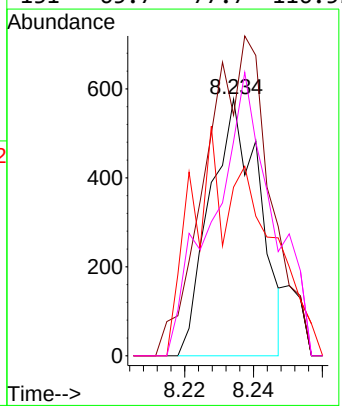


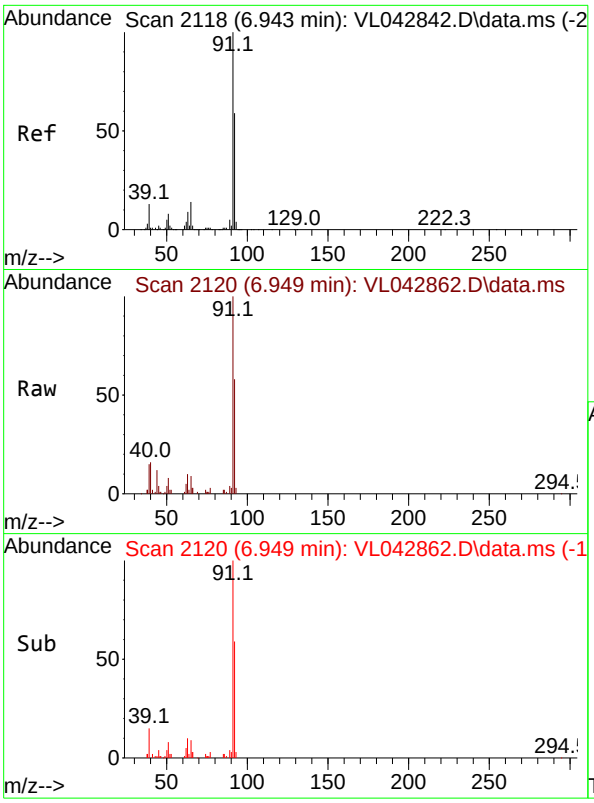


#52
Tetrachloroethene
Concen: 0.043 ppbv
RT: 8.234 min Scan# 2517
Delta R.T. -0.000 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion:164 Resp: 577

Ion	Ratio	Lower	Upper
164	100		
166	78.2	96.5	144.7#
129	34.0	81.8	122.6#
131	65.7	77.7	116.5#



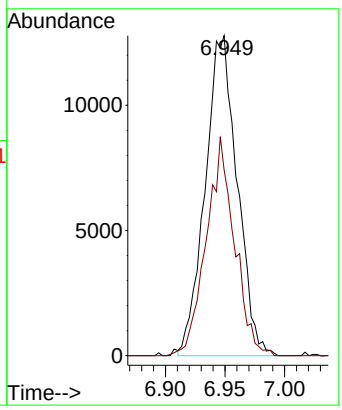


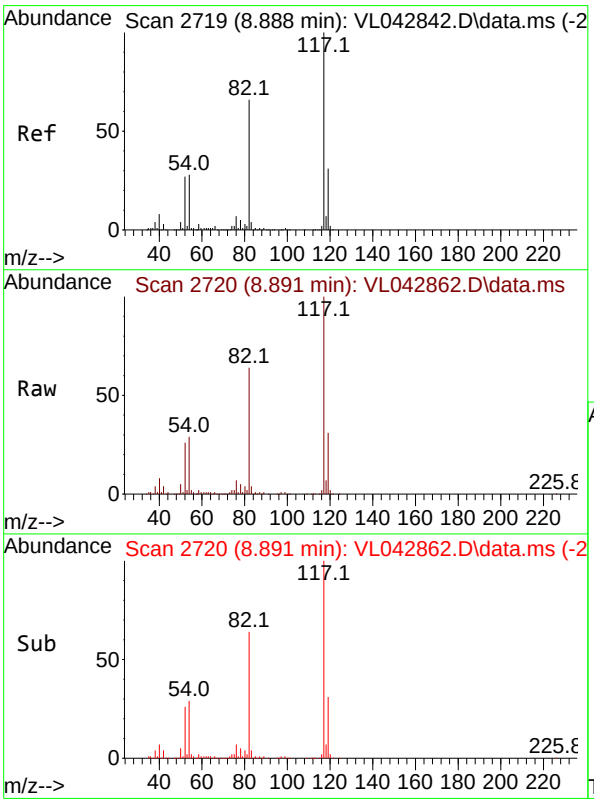
#53
Toluene
Concen: 0.548 ppbv
RT: 6.949 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 23951

Ion	Ratio	Lower	Upper
91	100		
92	60.2	47.8	71.6

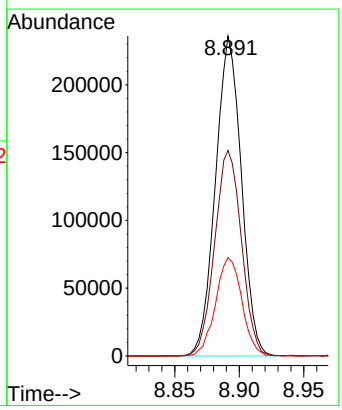


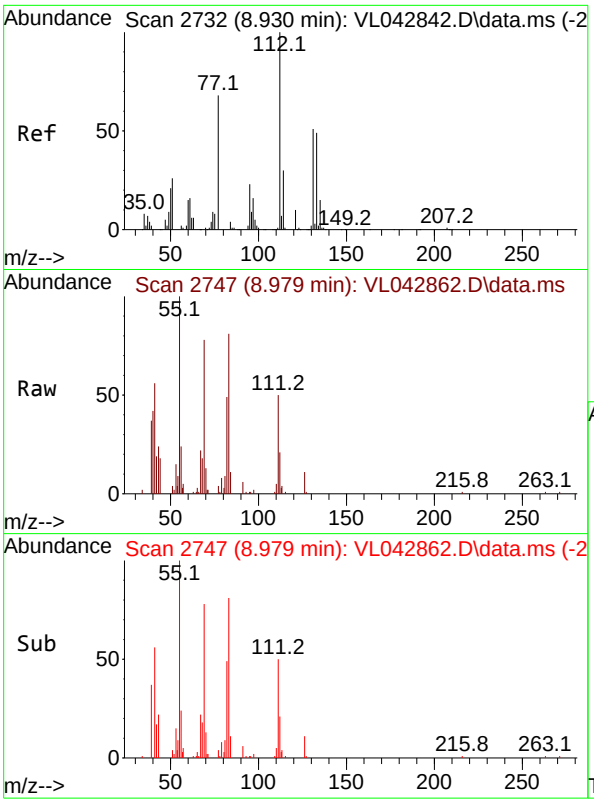


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion:117 Resp: 328630

Ion	Ratio	Lower	Upper
117	100		
82	66.5	54.6	81.8
119	31.3	25.9	38.9



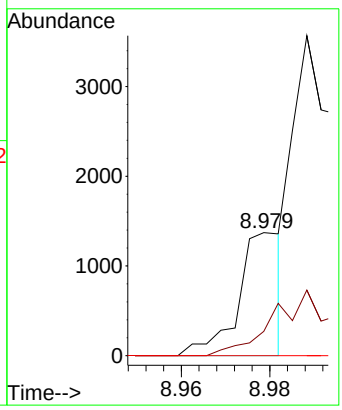


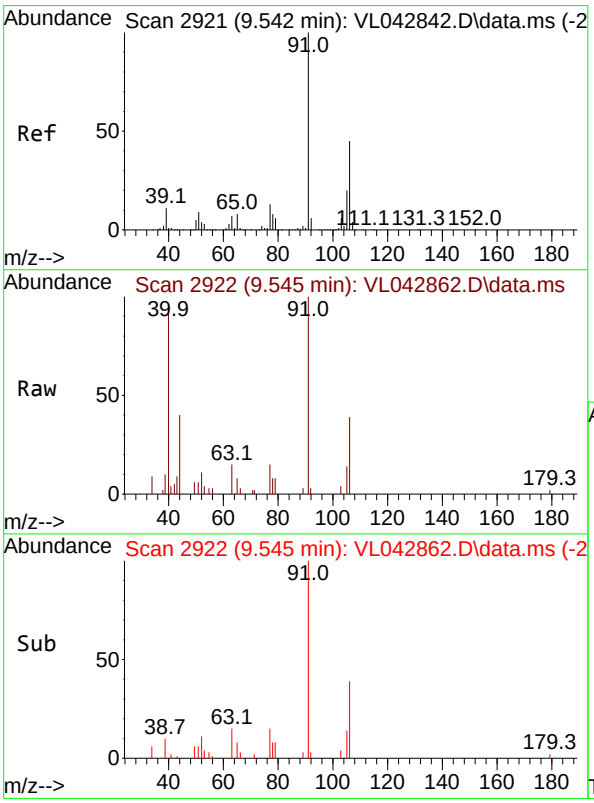
#57
Chlorobenzene
Concen: 0.030 ppbv
RT: 8.979 min Scan# 2
Delta R.T. 0.048 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:112 Resp: 949

Ion	Ratio	Lower	Upper
112	100		
77	19.8	55.5	83.3#
114	0.0	27.2	33.2#

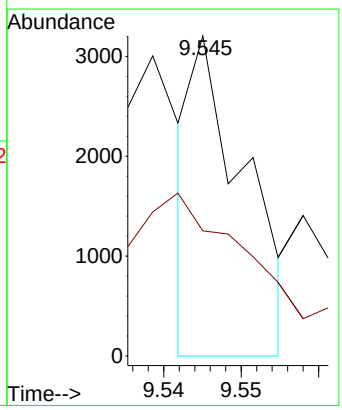


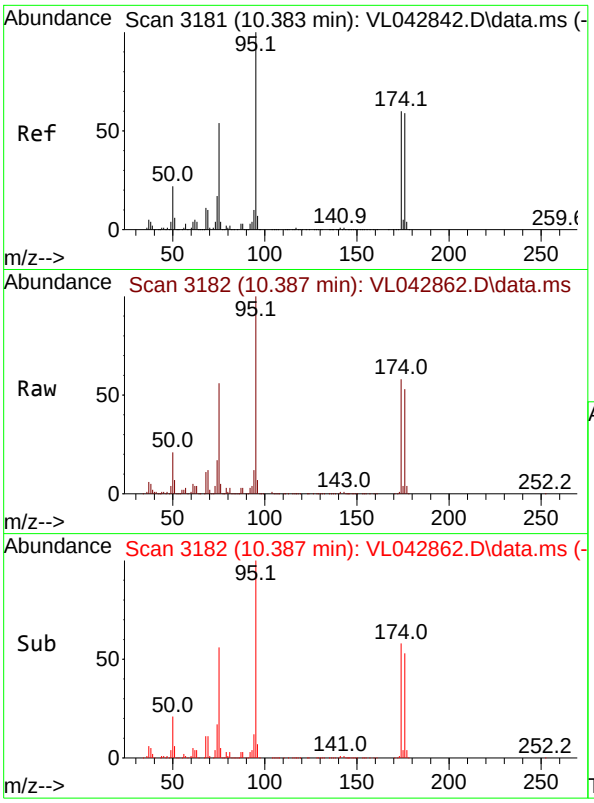


#59
m/p-Xylene
Concen: 0.034 ppbv
RT: 9.545 min Scan# 2922
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion: 91 Resp: 1535

Ion	Ratio	Lower	Upper
91	100		
106	172.0	0.0	0.0#



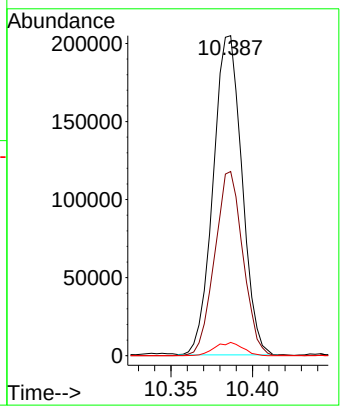


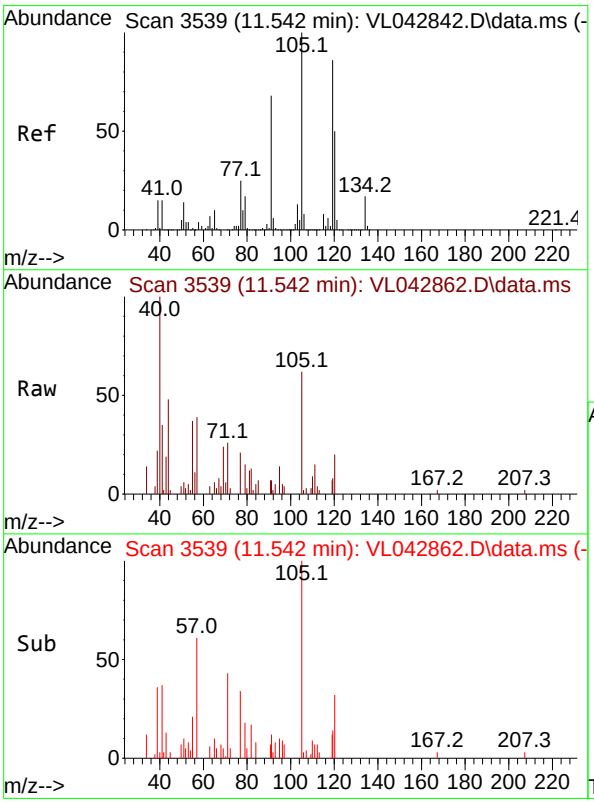
#68
1-Bromo-4-Fluorobenzene
Concen: 10.178 ppbv
RT: 10.387 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 250839

Ion	Ratio	Lower	Upper
95	100		
174	56.7	48.4	72.6
175	4.1	3.8	5.8





#74
1,2,4-Trimethylbenzene
Concen: 0.034 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.000 min
Lab File: VL042862.D
Acq: 13 Aug 2025 21:26

Tgt Ion:105 Resp: 1758

Ion	Ratio	Lower	Upper
105	100		
120	32.1	39.8	59.6#
91	18.7	54.2	81.4#
77	27.3	19.8	29.6