Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
Data File : VL043095.D
Acq On : 09 Oct 2025 19:29
Operator : SY/MD
Sample : Q3320-08 8X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV4

Quant Time: Oct 09 22:20:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.774	49	172723	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.939	114	465309	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.859	117	484936	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.357	95	397319	11.373	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 113.700%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.492	85	2042	0.070	ppbv		99
3) Chlorodifluoromethane	1.470	51	1643	0.058	ppbv	#	79
4) Chloromethane	1.528	50	502	0.047	ppbv		99
7) Chloroethane	1.693	64	151	0.036	ppbv	#	41
8) Dichlorotetrafluoroethane	1.492	85	2042	0.086	ppbv	#	14
9) Propene	1.476	41	804	0.071	ppbv	#	17
10) Heptane	4.949	43	6538	0.234	ppbv	#	52
11) Trichlorofluoromethane	1.868	101	3668	0.123	ppbv		86
13) Ethanol	1.712	45	3950	8.330	ppbv	#	31
15) Acetone	1.826	43	633247	26.184	ppbv		97
16) 1,3-Butadiene	1.596	39	1283	0.129	ppbv	#	11
17) tert-Butyl alcohol	2.033	59	1734	0.068	ppbv	#	74
19) Isopropyl Alcohol	1.877	45	5270	0.455	ppbv	#	1
20) Methylene Chloride	2.052	84	4225	0.400	ppbv	#	82
21) Allyl Chloride	2.036	41	545	0.035	ppbv	#	19
23) Vinyl Acetate	2.463	43	2177	0.424	ppbv	#	40
25) Ethyl Acetate	2.813	43	53349	0.879	ppbv	#	76
26) Hexane	2.813	57	75020	3.214	ppbv	#	33
27) Carbon Disulfide	2.143	76	3775	0.137	ppbv	#	1
30) Cyclohexane	3.832	84	1946	0.101	ppbv	#	74
34) 2-Butanone	2.547	43	16309	0.517	ppbv		94
36) Benzene	3.635	78	2127	0.048	ppbv	#	72
38) Trichloroethene	4.525	130	1429	0.077	ppbv	#	86
39) 1,2-Dichloropropane	3.936	63	118879	7.214	ppbv	#	22
41) Tetrahydrofuran	3.049	42	2521	0.154	ppbv	#	77
51) 2-Hexanone	7.415	43	6335	0.231	ppbv	#	29
52) Tetrachloroethene	8.202	164	3384	0.206	ppbv	#	89
53) Toluene	6.904	91	25103	0.559	ppbv		100
59) m/p-Xylene	9.532	91	4432	0.070	ppbv	#	30
60) o-Xylene	9.943	91	15543	0.246	ppbv		92
63) 1,1,2,2-Tetrachloroethane	9.927	83	5557	0.123	ppbv	#	91
66) Benzyl Chloride	11.604	91	279	0.085	ppbv	#	93
71) 2-Chlorotoluene	10.976	91	5453	0.078	ppbv		94
73) 1,3,5-Trimethylbenzene	11.186	105	3695	0.057	ppbv	#	80
74) 1,2,4-Trimethylbenzene	11.519	105	5510	0.075	ppbv	#	46
79) Naphthalene	13.497	128	422	0.241	ppbv	#	49
80) Naphthalene,2-methyl-	14.455	142	744	0.686	ppbv	#	84

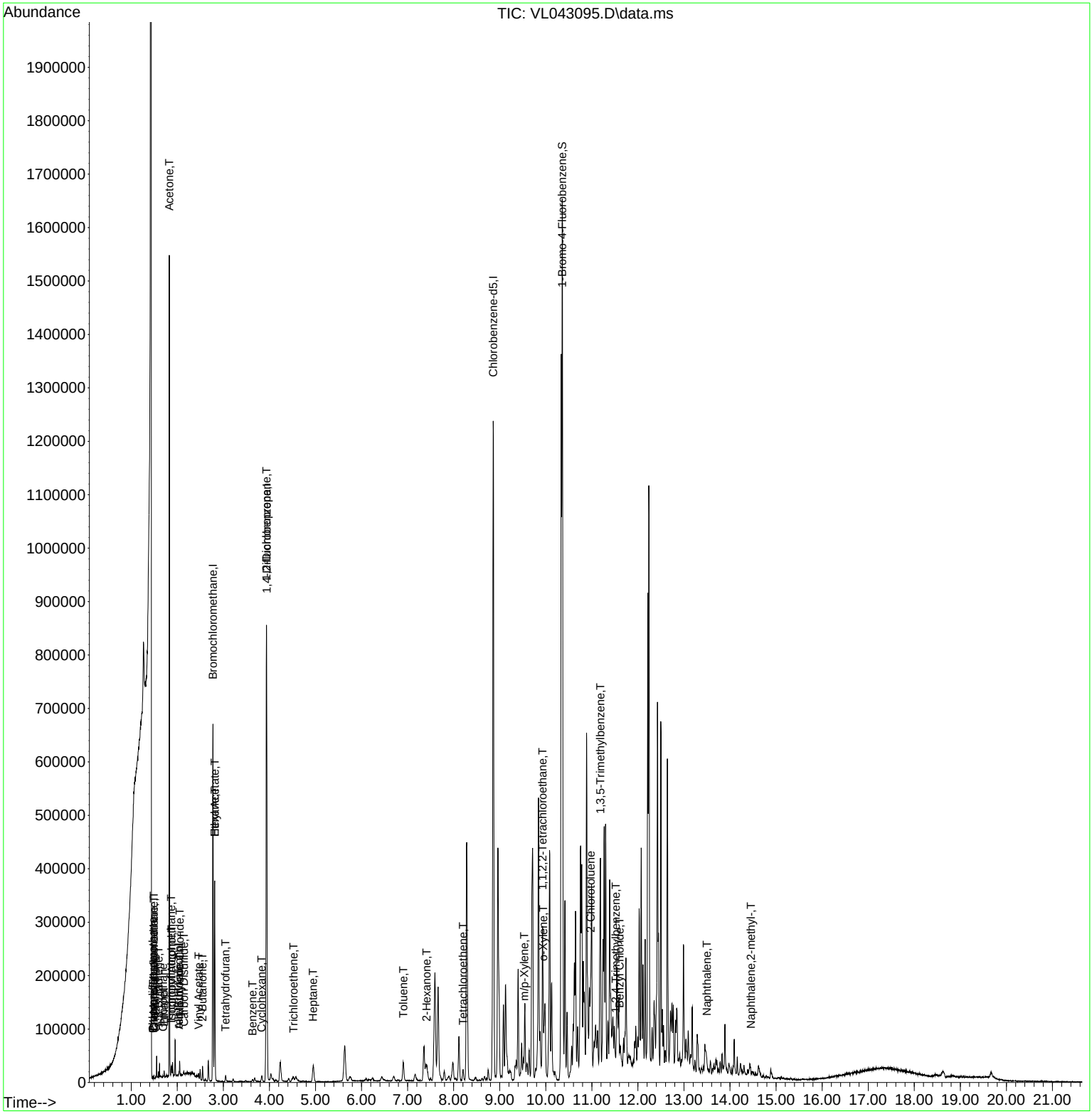
(#) = qualifier out of range (m) = manual integration (+) = signals summed

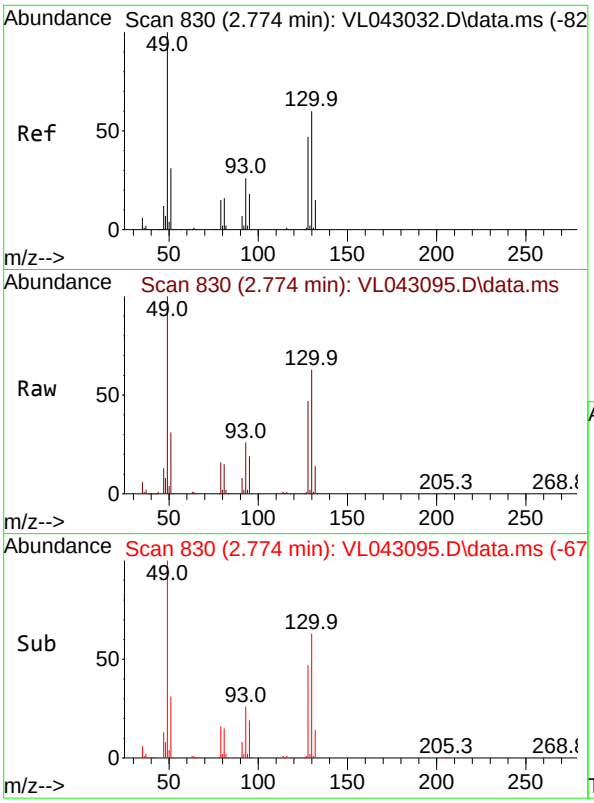
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
Data File : VL043095.D
Acq On : 09 Oct 2025 19:29
Operator : SY/MD
Sample : Q3320-08 8X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV4

Quant Time: Oct 09 22:20:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration



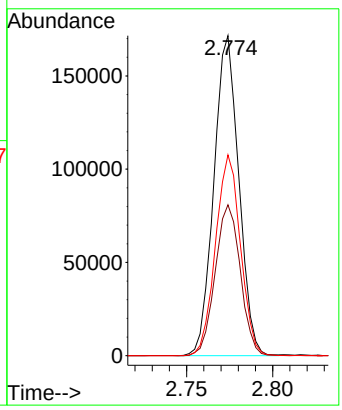


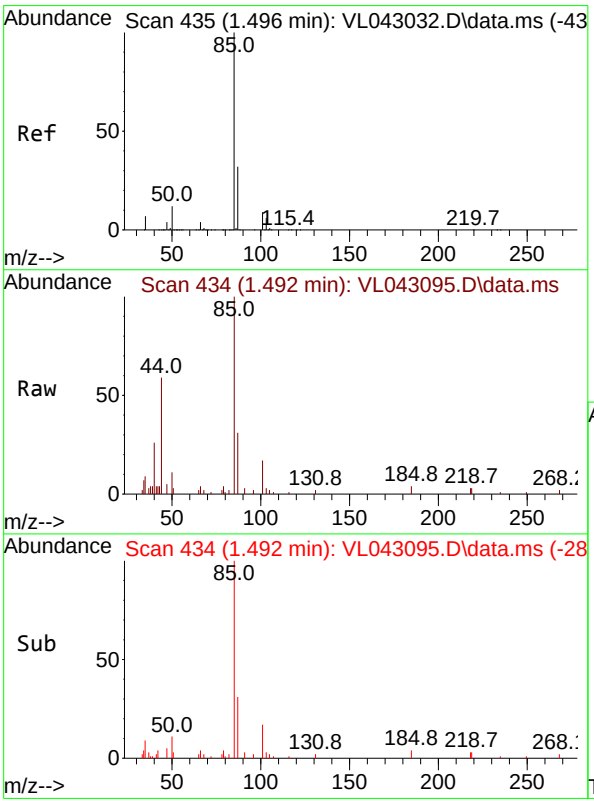
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 8
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 49 Resp: 172723

Ion	Ratio	Lower	Upper
49	100		
128	47.6	24.1	72.2
130	62.8	31.4	94.3

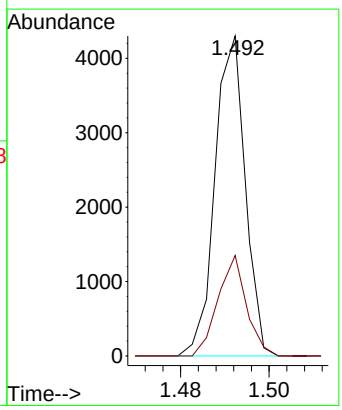


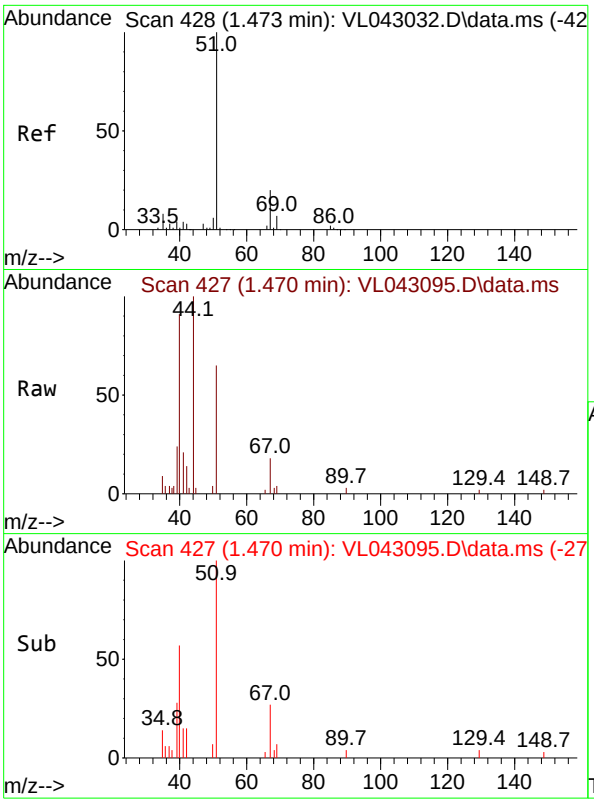


#2
Dichlorodifluoromethane
Concen: 0.070 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 85 Resp: 2042

Ion	Ratio	Lower	Upper
85	100		
87	31.4	25.8	38.6



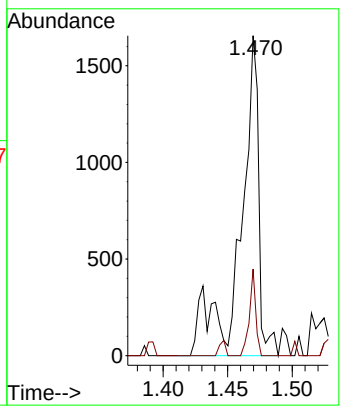


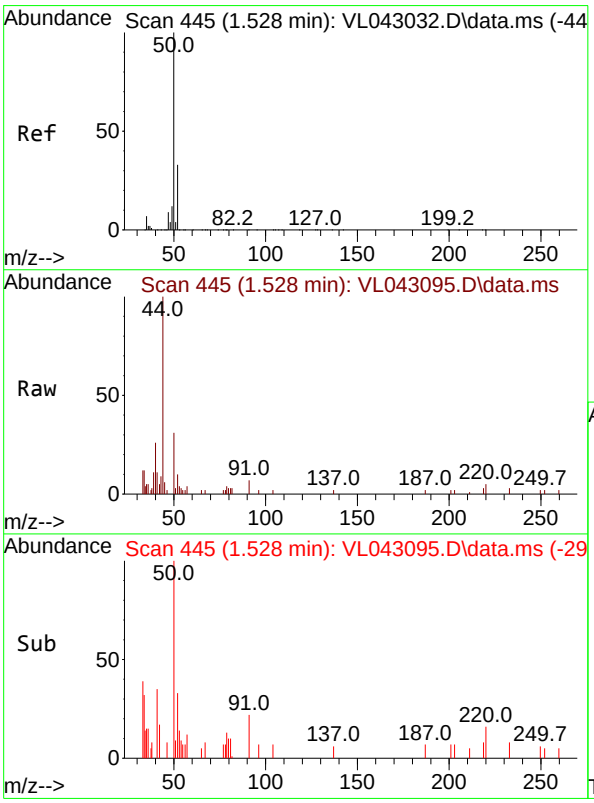
#3
Chlorodifluoromethane
Concen: 0.058 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 51 Resp: 1643

Ion	Ratio	Lower	Upper
51	100		
67	9.3	15.1	22.7#

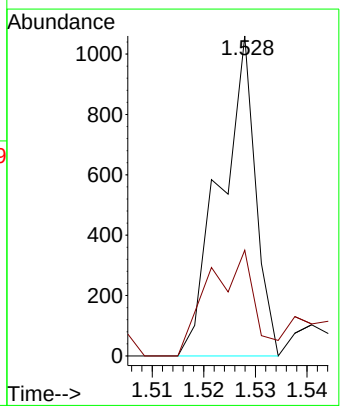


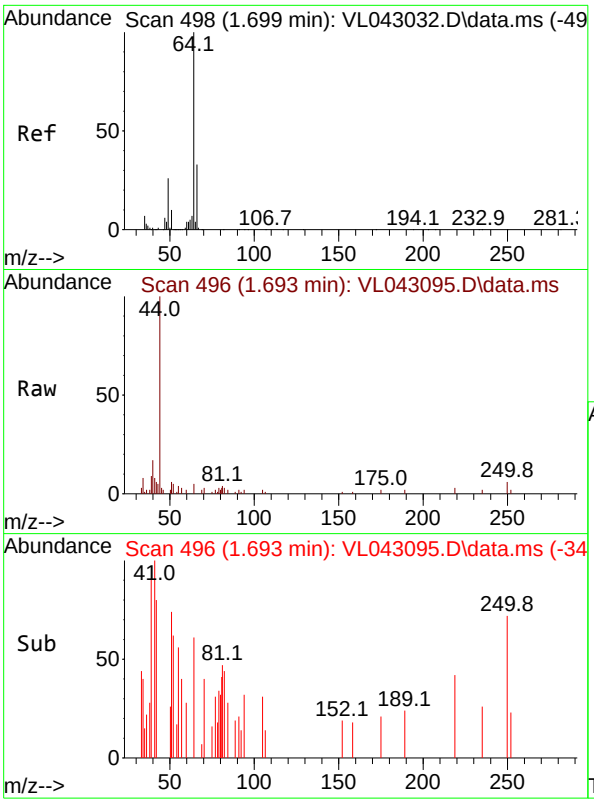


#4
Chloromethane
Concen: 0.047 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 50 Resp: 502

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.2	39.2



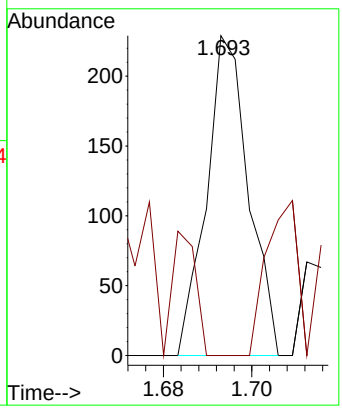


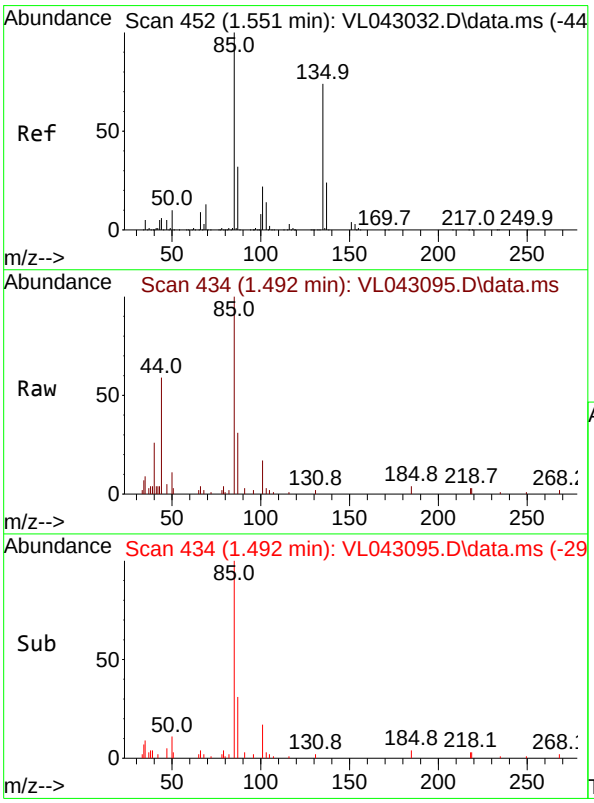
#7
Chloroethane
Concen: 0.036 ppbv
RT: 1.693 min Scan# 4
Delta R.T. -0.006 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 64 Resp: 151

Ion	Ratio	Lower	Upper
64	100		
66	0.0	26.6	39.8#

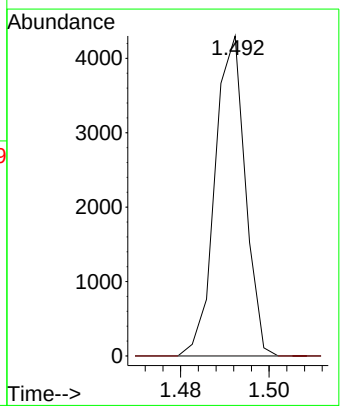


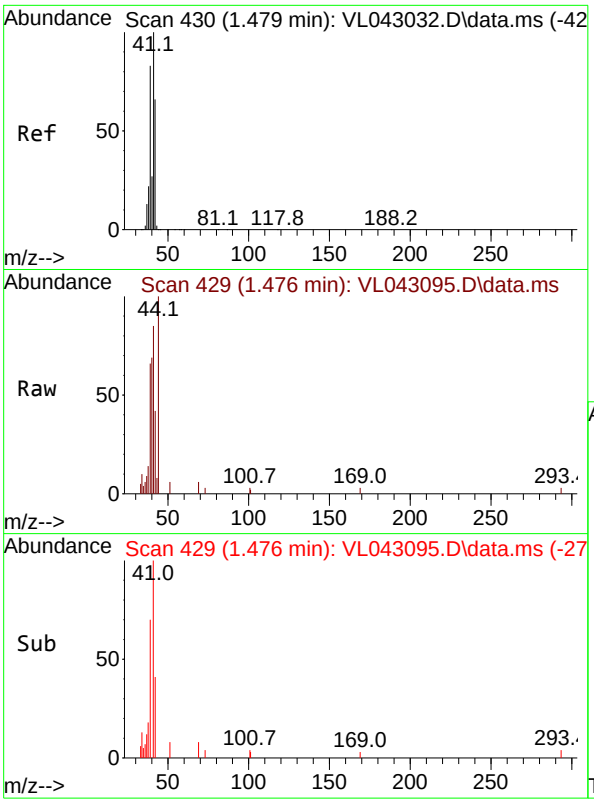


#8
Dichlorotetrafluoroethane
Concen: 0.086 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.058 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 85 Resp: 2042

Ion	Ratio	Lower	Upper
85	100		
135	0.0	56.3	84.5#



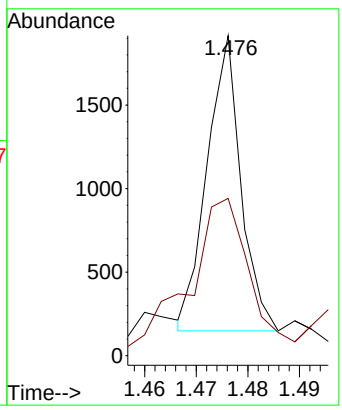


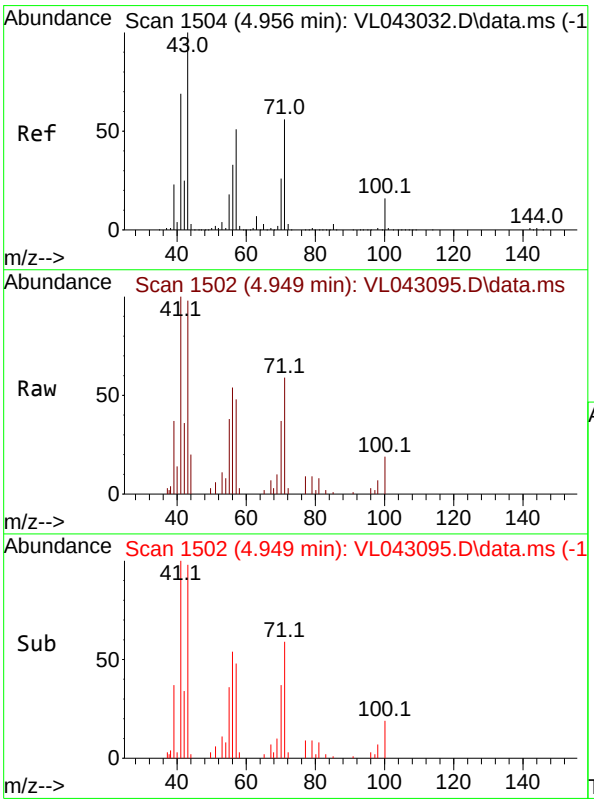
#9
Propene
Concen: 0.071 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 41 Resp: 804

Ion	Ratio	Lower	Upper
41	100		
42	0.0	53.3	79.9#

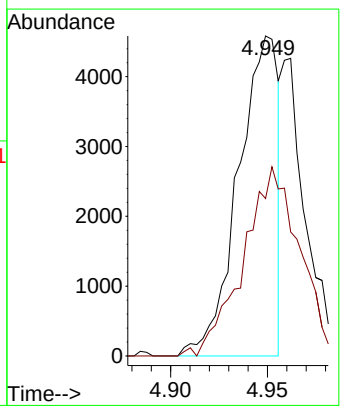


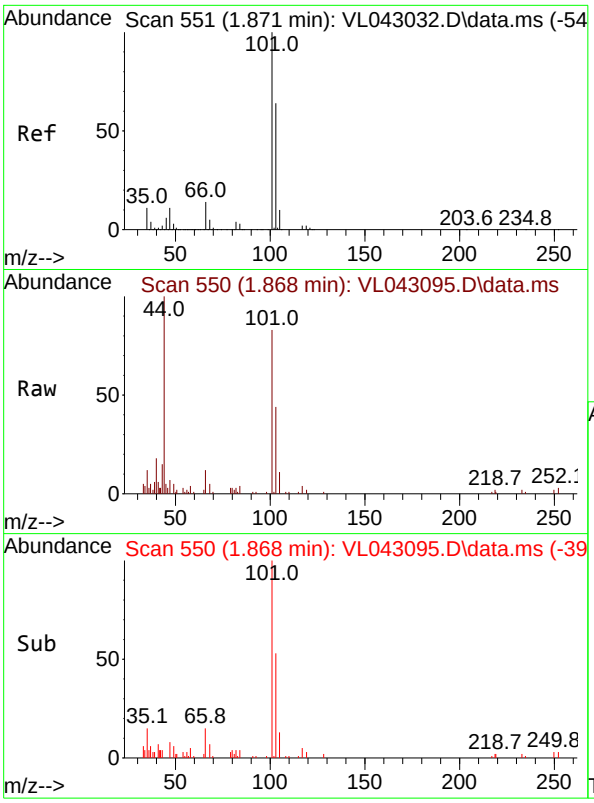


#10
Heptane
Concen: 0.234 ppbv
RT: 4.949 min Scan# 1502
Delta R.T. -0.006 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 43 Resp: 6538

Ion	Ratio	Lower	Upper
43	100		
57	83.4	40.3	60.5#



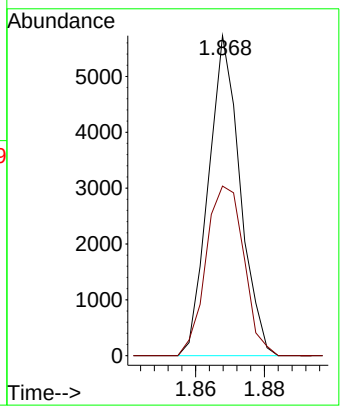


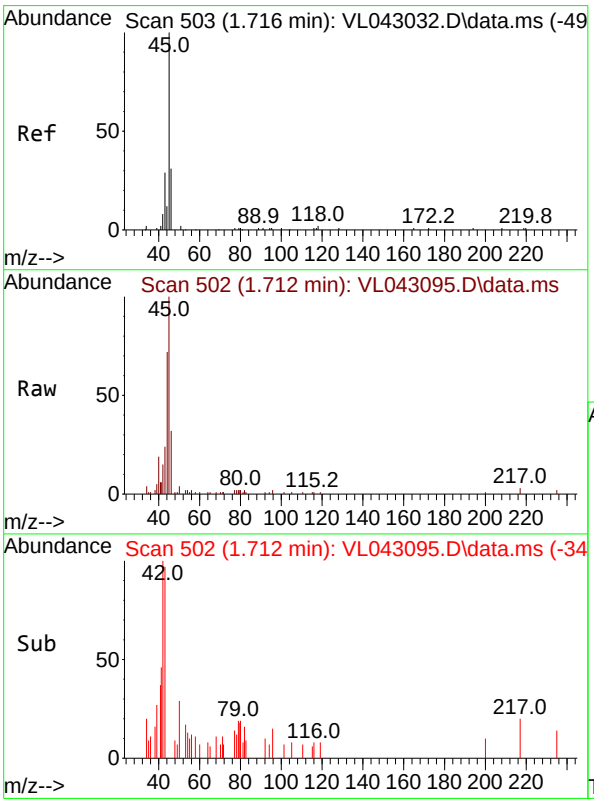
#11
Trichlorofluoromethane
Concen: 0.123 ppbv
RT: 1.868 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion:101 Resp: 3668

Ion	Ratio	Lower	Upper
101	100		
103	53.0	51.1	76.7

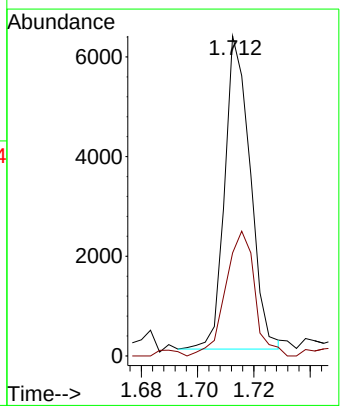


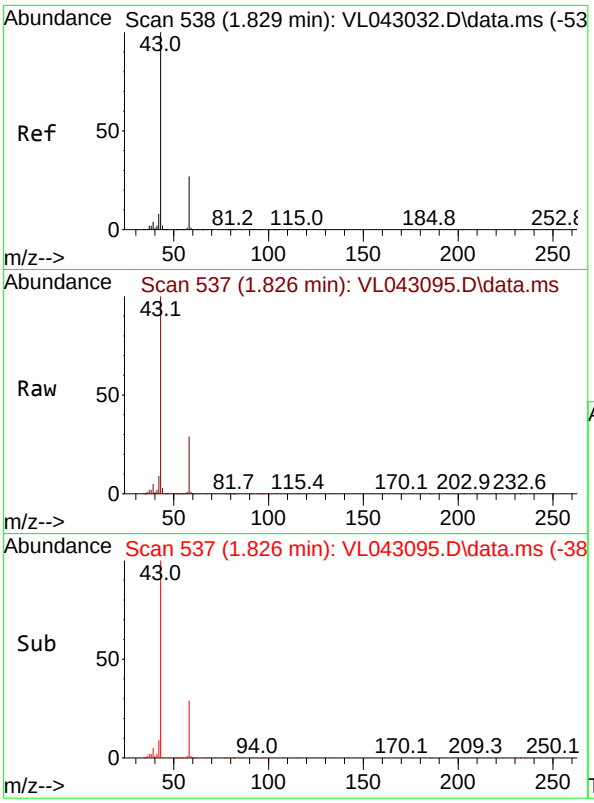


#13
Ethanol
Concen: 8.330 ppbv
RT: 1.712 min Scan# 502
Delta R.T. -0.004 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 45 Resp: 3950

Ion	Ratio	Lower	Upper
45	100		
46	0.0	17.8	71.4#



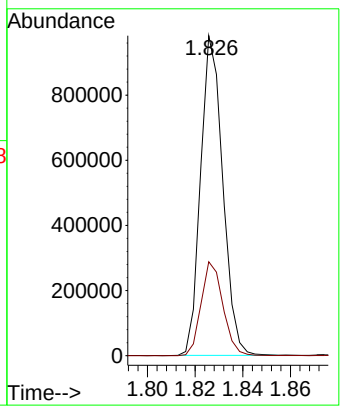


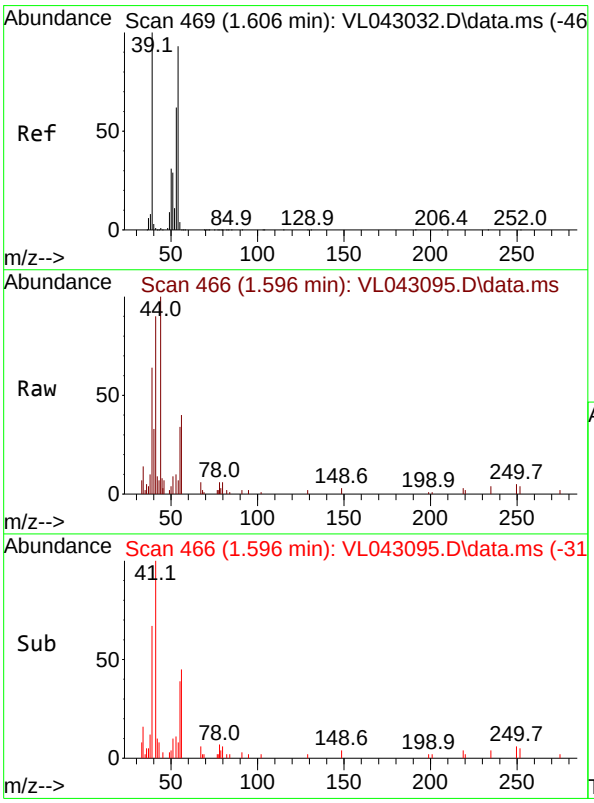
#15
Acetone
Concen: 26.184 ppbv
RT: 1.826 min Scan# 5
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 43 Resp: 633247

Ion	Ratio	Lower	Upper
43	100		
58	29.2	22.2	33.4

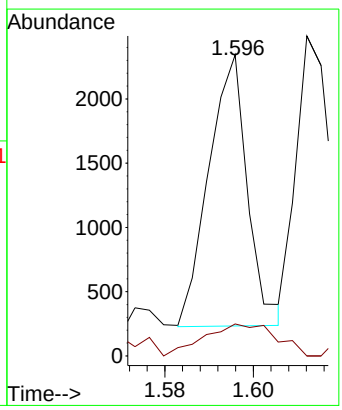


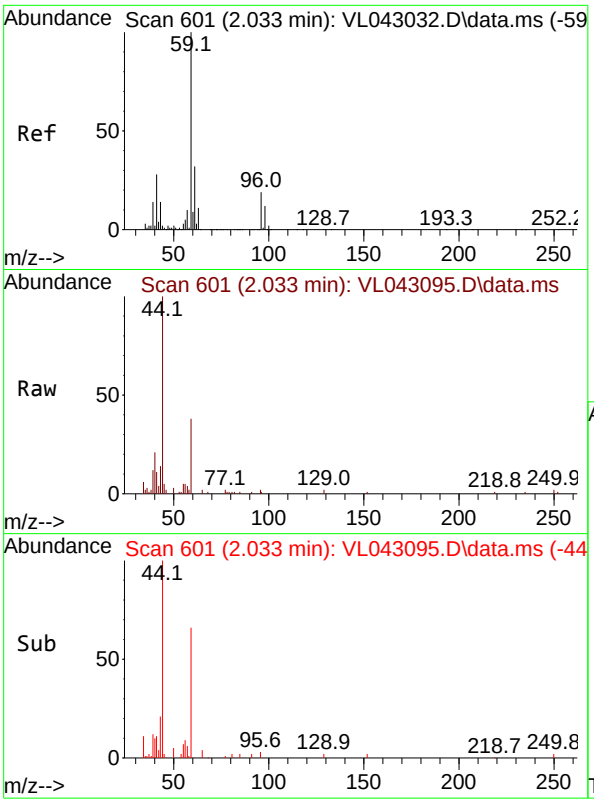


#16
1,3-Butadiene
Concen: 0.129 ppbv
RT: 1.596 min Scan# 466
Delta R.T. -0.010 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 39 Resp: 1283

Ion	Ratio	Lower	Upper
39	100		
54	0.0	61.4	92.2#



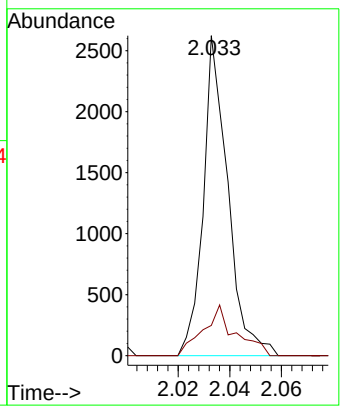


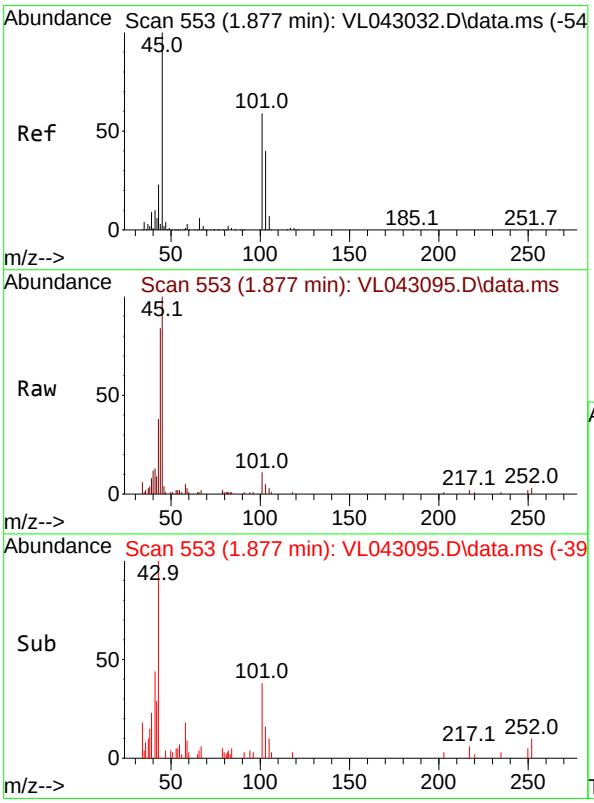
#17
tert-Butyl alcohol
Concen: 0.068 ppbv
RT: 2.033 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 59 Resp: 1734

Ion	Ratio	Lower	Upper
59	100		
57	20.5	8.5	12.7#

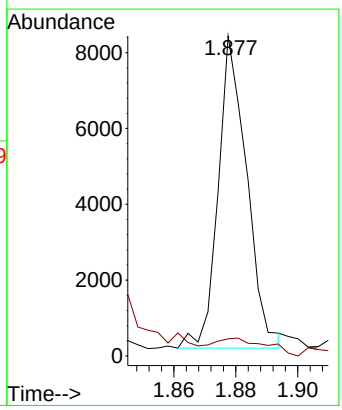


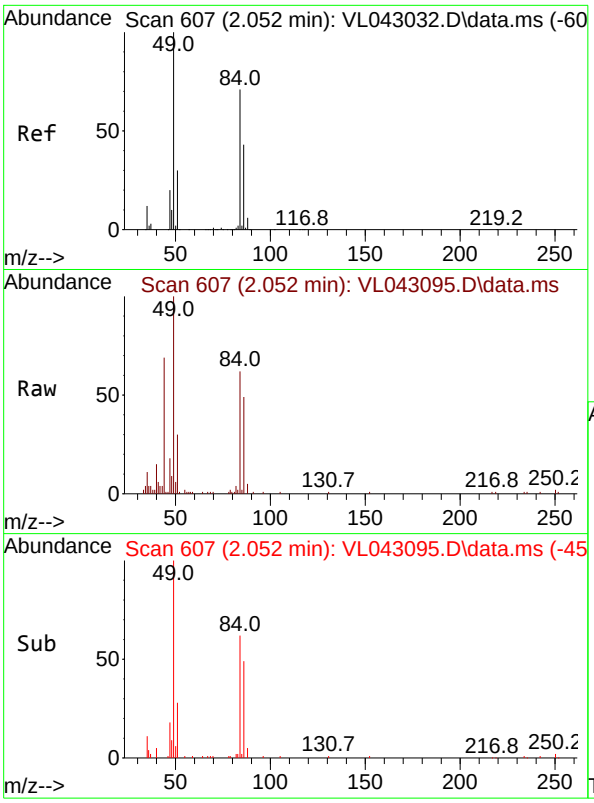


#19
Isopropyl Alcohol
Concen: 0.455 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 45 Resp: 5270

Ion	Ratio	Lower	Upper
45	100		
58	3505.6	42.3	63.5#



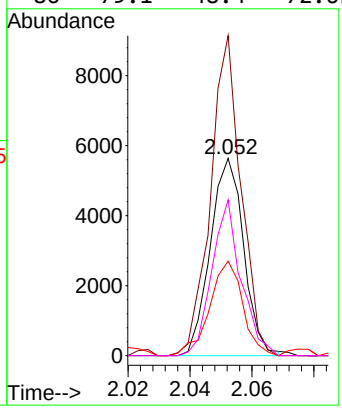


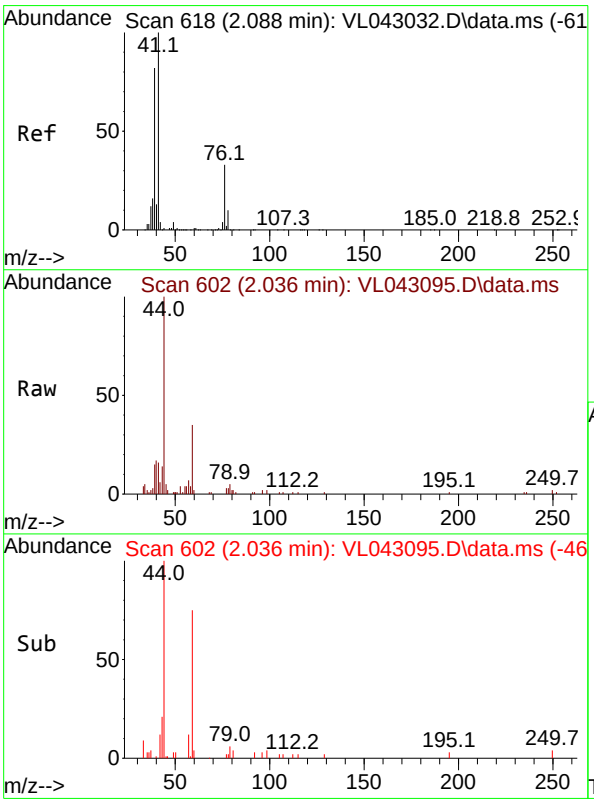
#20
Methylene Chloride
Concen: 0.400 ppbv
RT: 2.052 min Scan# 6
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 84 Resp: 4225

Ion	Ratio	Lower	Upper
84	100		
49	162.3	112.5	168.7
51	48.0	34.2	51.2
86	79.1	48.4	72.6#

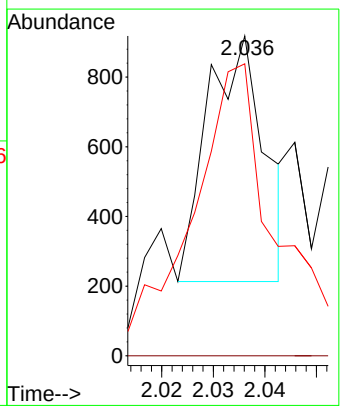


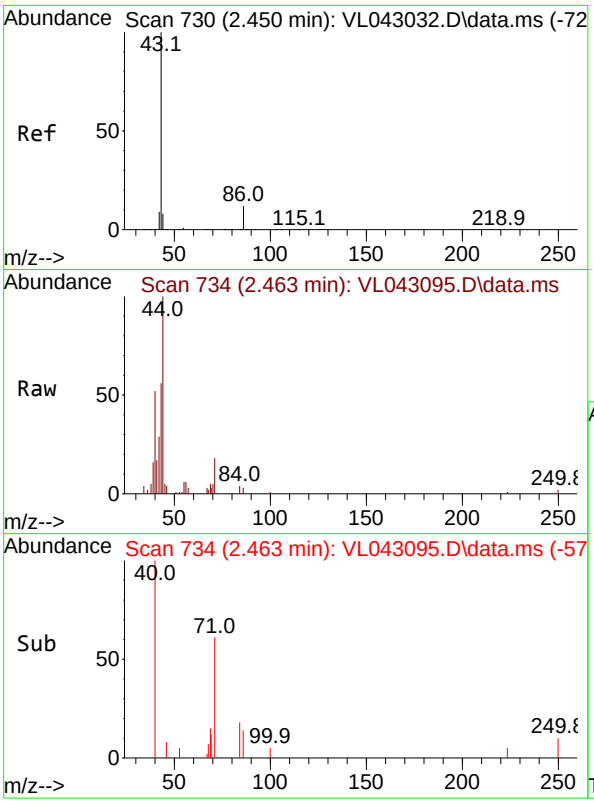


#21
Allyl Chloride
Concen: 0.035 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.052 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 41 Resp: 545

Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.9	38.9#
39	0.0	63.0	94.4#



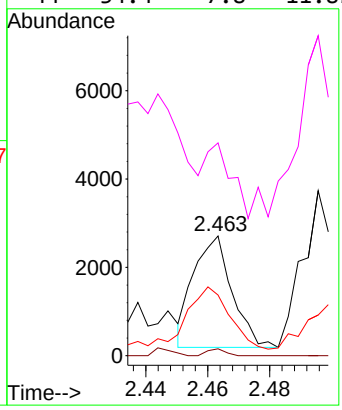


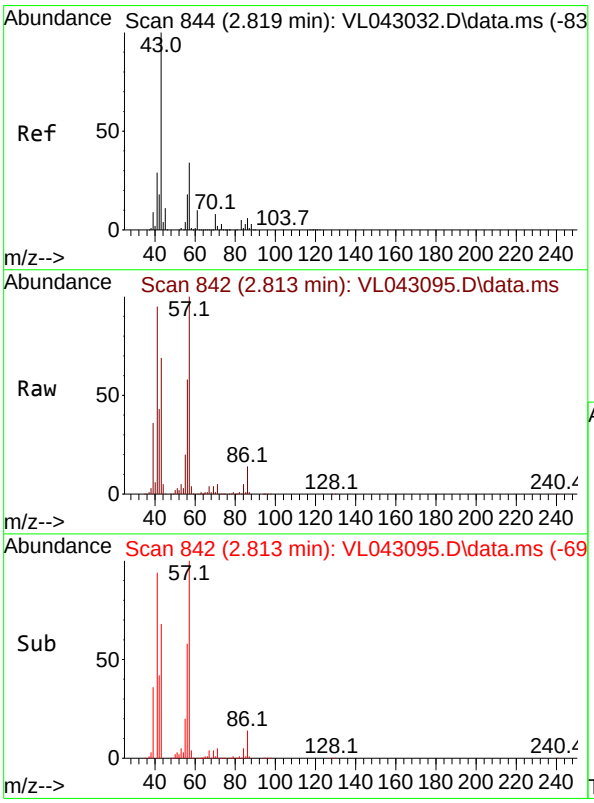
#23
Vinyl Acetate
Concen: 0.424 ppbv
RT: 2.463 min Scan# 7
Delta R.T. 0.013 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 43 Resp: 2177

Ion	Ratio	Lower	Upper
43	100		
86	6.3	7.5	11.3#
42	47.6	8.4	12.6#
44	34.4	7.8	11.8#

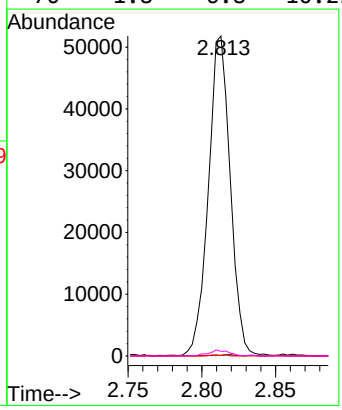


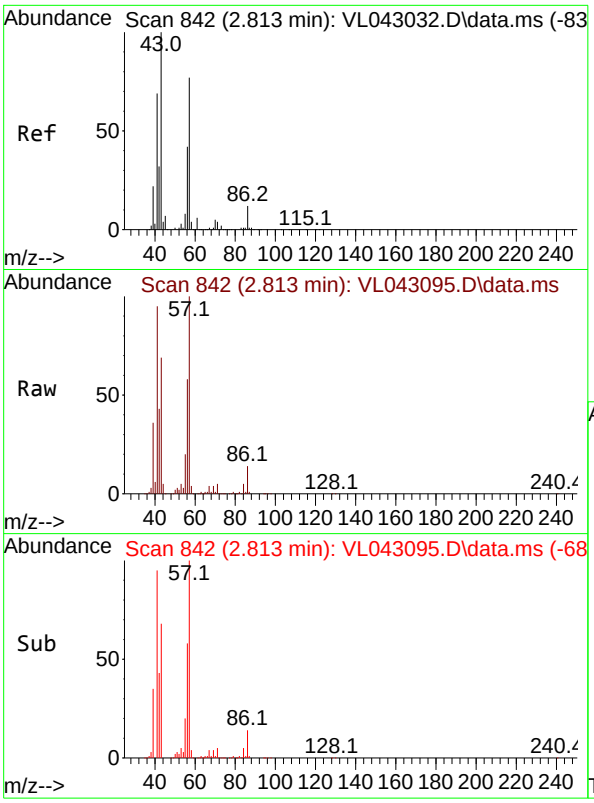


#25
Ethyl Acetate
Concen: 0.879 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.006 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 43 Resp: 53349

Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.3	12.5#
61	0.2	7.5	11.3#
70	1.8	6.8	10.2#



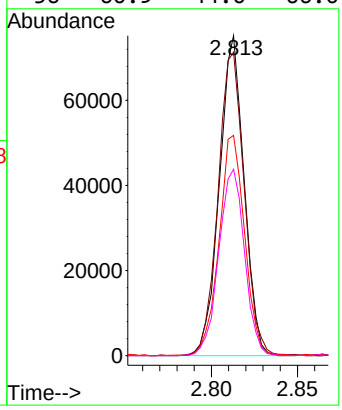


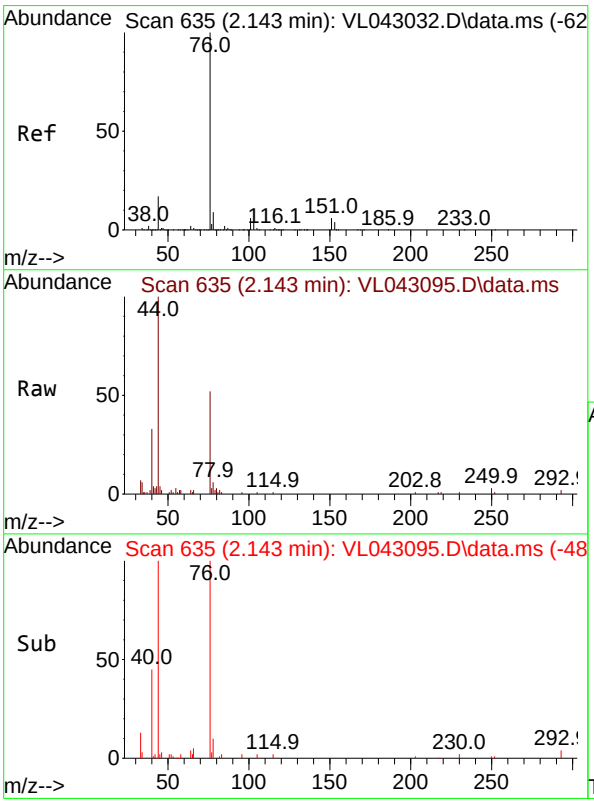
#26
Hexane
Concen: 3.214 ppbv
RT: 2.813 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 57 Resp: 75020

Ion	Ratio	Lower	Upper
57	100		
41	101.8	76.1	114.1
43	71.9	201.4	302.0#
56	60.9	44.0	66.0

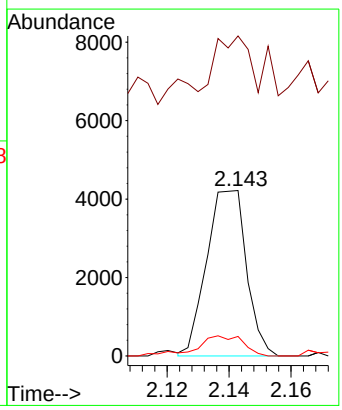


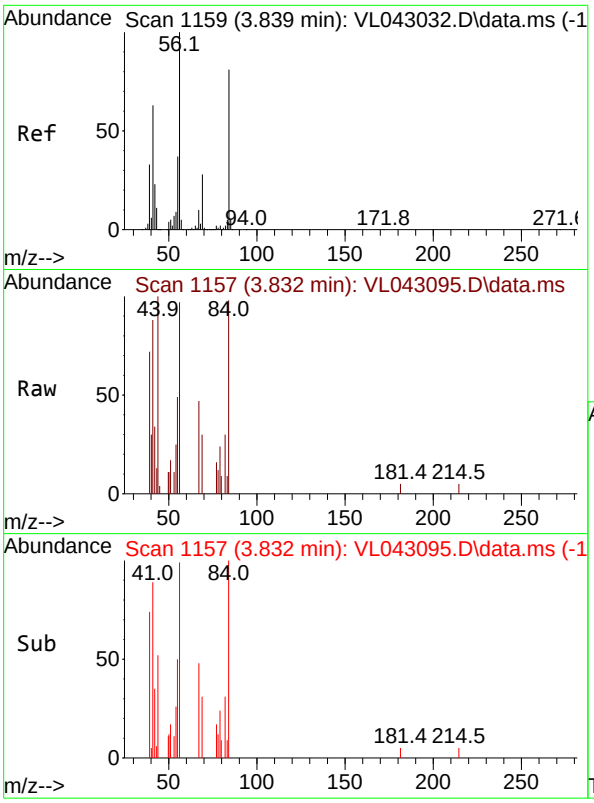


#27
Carbon Disulfide
Concen: 0.137 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 76 Resp: 3775

Ion	Ratio	Lower	Upper
76	100		
44	113.8	14.0	21.0#
78	14.2	9.4	14.0#



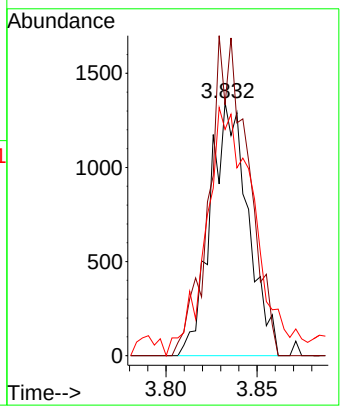


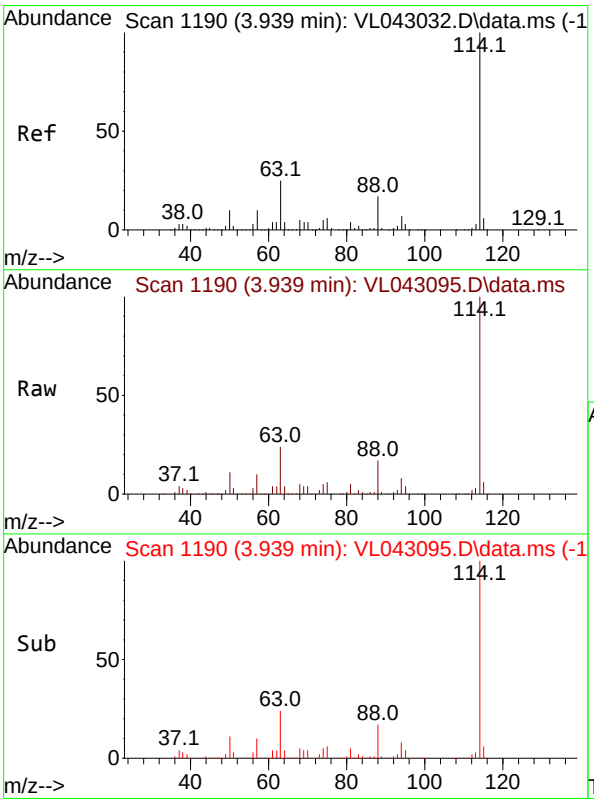
#30
Cyclohexane
Concen: 0.101 ppbv
RT: 3.832 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 84 Resp: 1946

Ion	Ratio	Lower	Upper
84	100		
56	129.9	99.9	149.9
41	133.2	64.2	96.4#

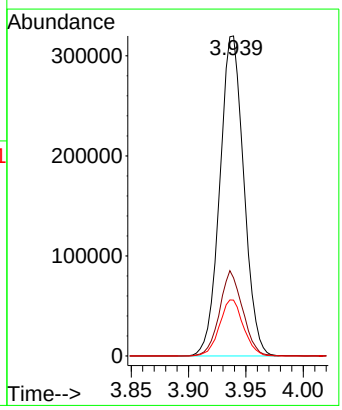


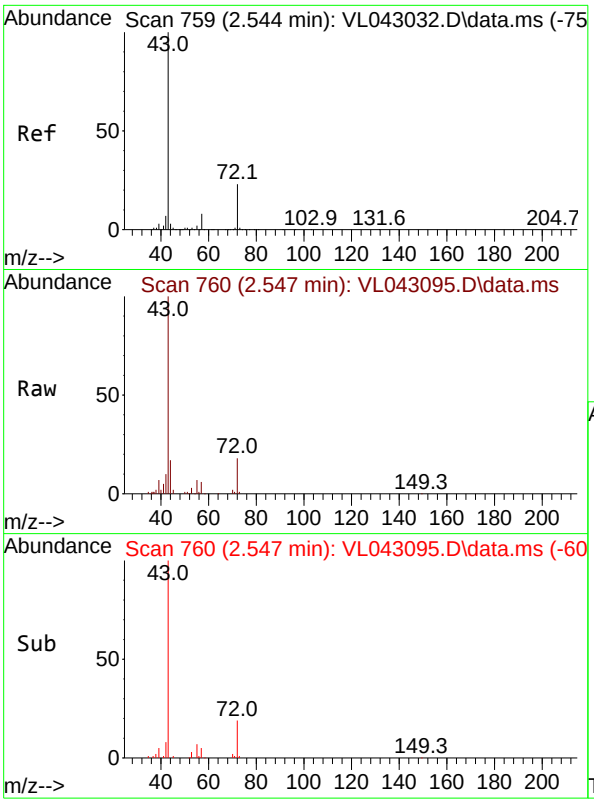


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.939 min Scan# 1190
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion:114 Resp: 465309

Ion	Ratio	Lower	Upper
114	100		
63	25.6	19.4	29.2
88	17.5	13.9	20.9



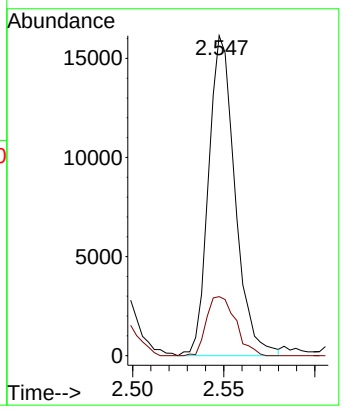


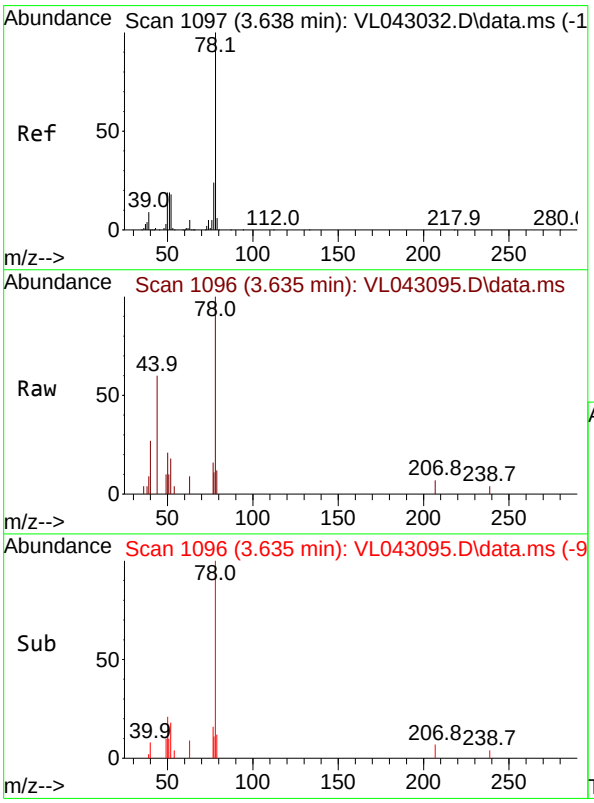
#34
2-Butanone
Concen: 0.517 ppbv
RT: 2.547 min Scan# 7
Delta R.T. 0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 43 Resp: 16309

Ion	Ratio	Lower	Upper
43	100		
72	20.3	18.4	27.6

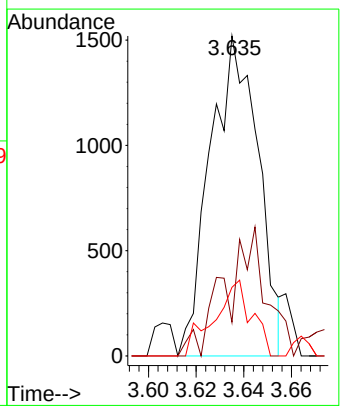


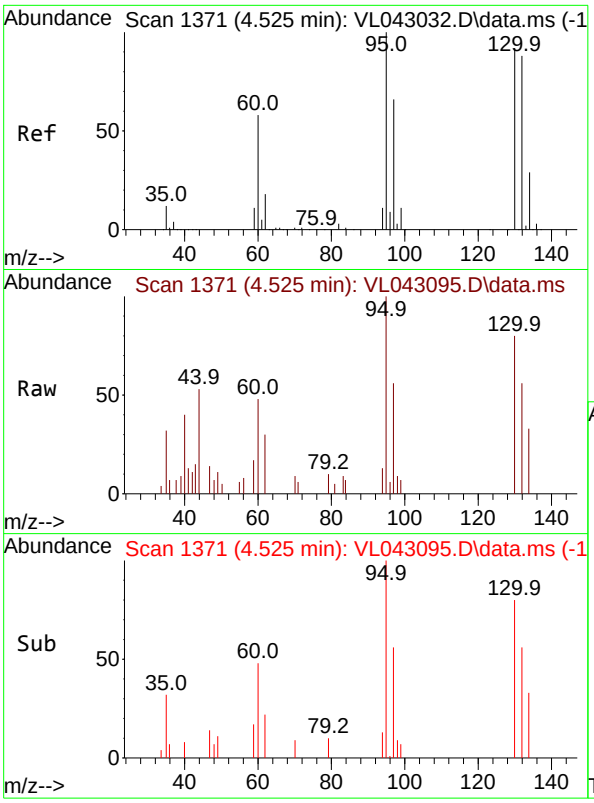


#36
Benzene
Concen: 0.048 ppbv
RT: 3.635 min Scan# 1096
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 78 Resp: 2127

Ion	Ratio	Lower	Upper
78	100		
77	10.5	19.2	28.8#
50	31.9	14.9	22.3#



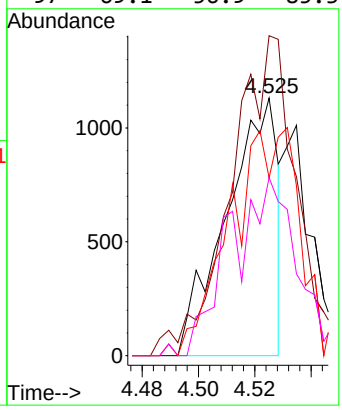


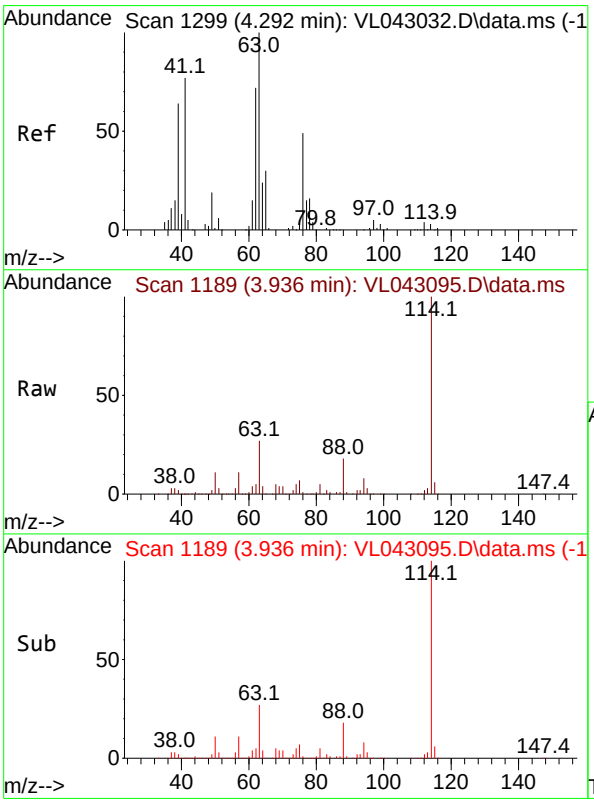
#38
Trichloroethene
Concen: 0.077 ppbv
RT: 4.525 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion:130 Resp: 1429

Ion	Ratio	Lower	Upper
130	100		
95	119.2	86.4	129.6
132	69.1	75.7	113.5#
97	69.1	56.9	85.3

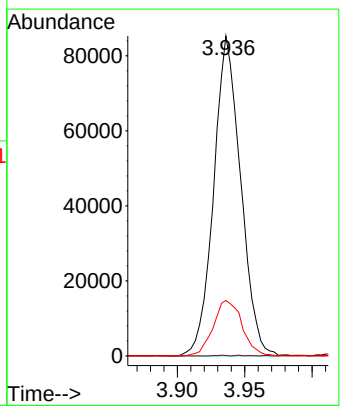


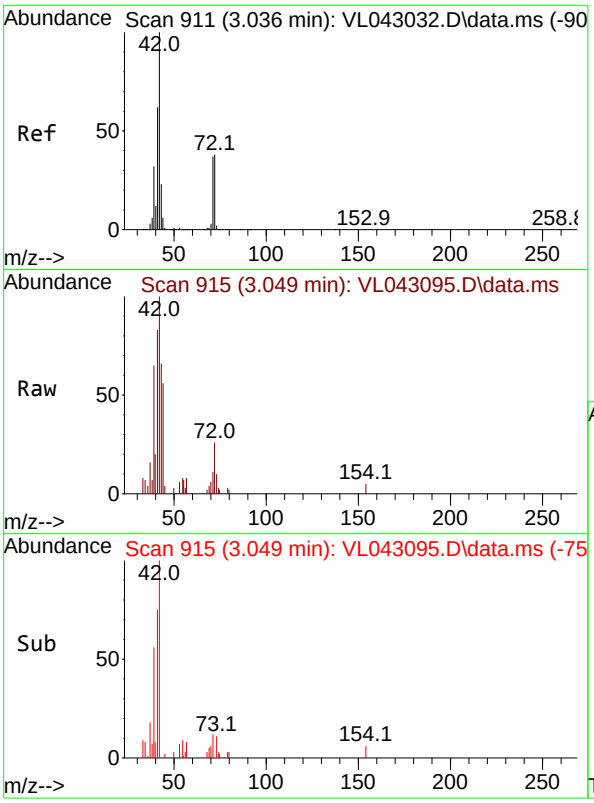


#39
1,2-Dichloropropane
Concen: 7.214 ppbv
RT: 3.936 min Scan# 1189
Delta R.T. -0.356 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 63 Resp: 118879

Ion	Ratio	Lower	Upper
63	100		
41	0.2	61.6	92.4#
62	17.4	58.1	87.1#



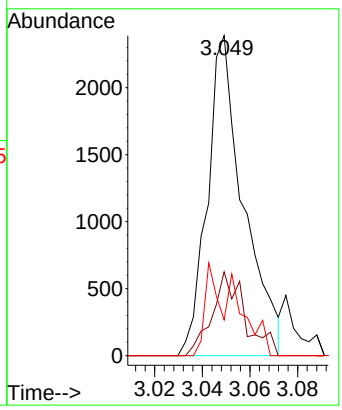


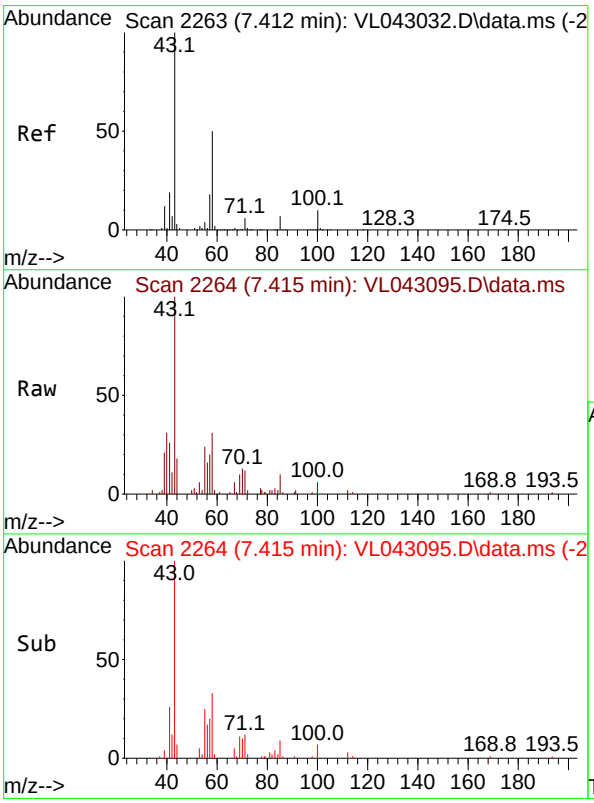
#41
Tetrahydrofuran
Concen: 0.154 ppbv
RT: 3.049 min Scan# 9
Delta R.T. 0.013 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 42 Resp: 2521

Ion	Ratio	Lower	Upper
42	100		
72	23.6	31.0	46.6#
71	24.2	29.8	44.6#

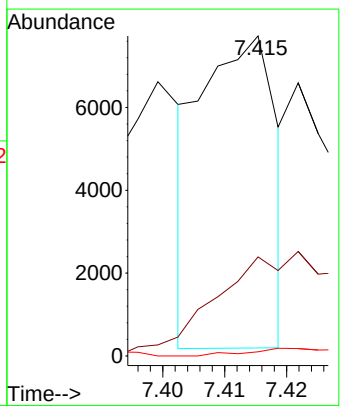


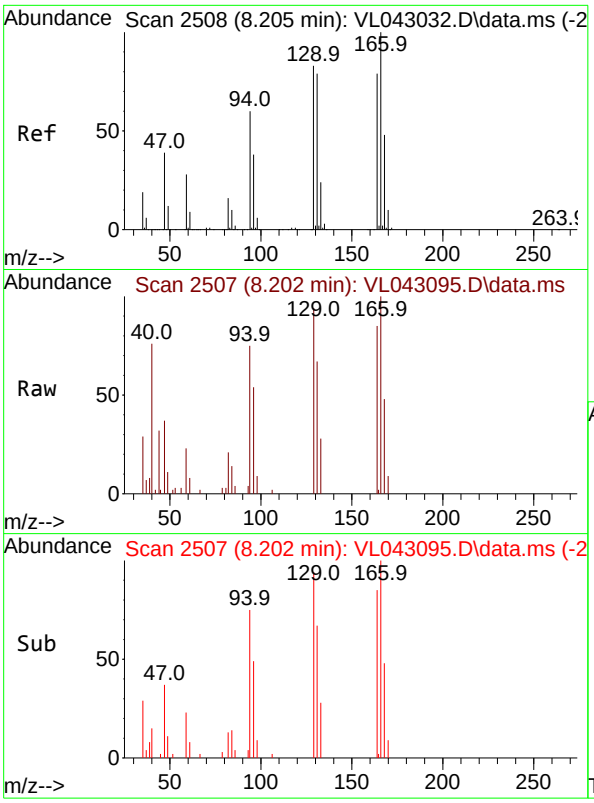


#51
2-Hexanone
Concen: 0.231 ppbv
RT: 7.415 min Scan# 2264
Delta R.T. 0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 43 Resp: 6335

Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.1	58.7#
98	0.0	0.5	0.7#



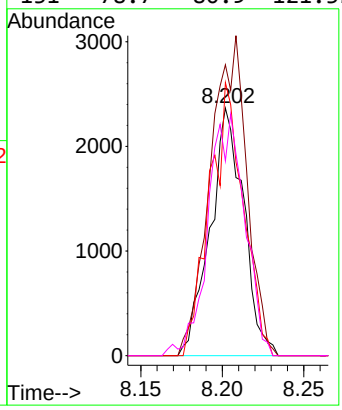


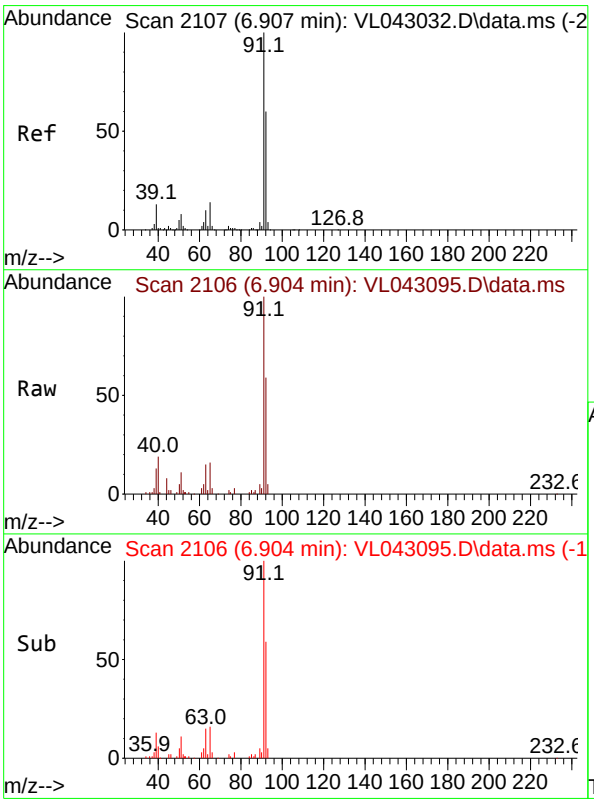
#52
Tetrachloroethene
Concen: 0.206 ppbv
RT: 8.202 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion:164 Resp: 3384

Ion	Ratio	Lower	Upper
164	100		
166	117.5	101.8	152.8
129	110.4	84.5	126.7
131	78.7	80.9	121.3#

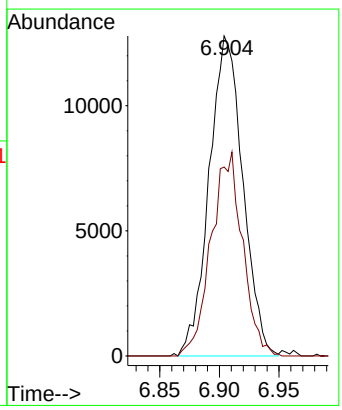


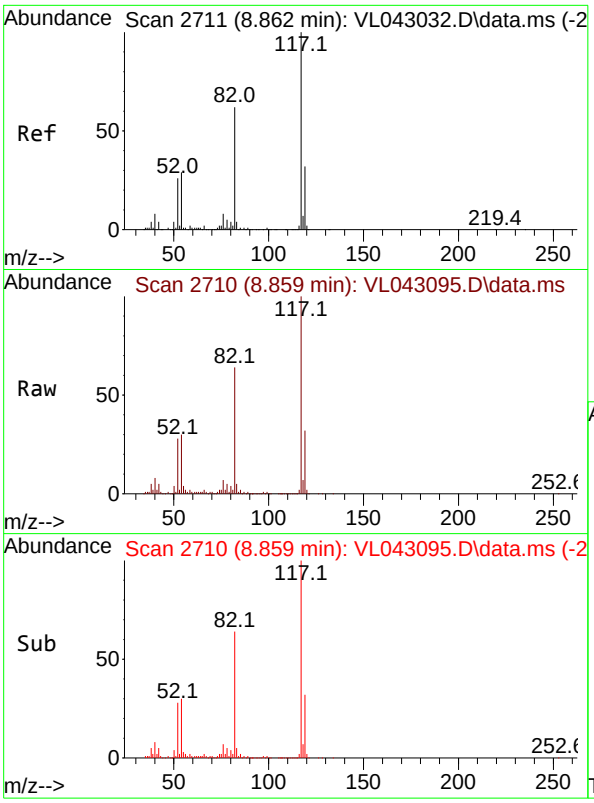


#53
Toluene
Concen: 0.559 ppbv
RT: 6.904 min Scan# 2106
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 91 Resp: 25103

Ion	Ratio	Lower	Upper
91	100		
92	59.5	47.8	71.6



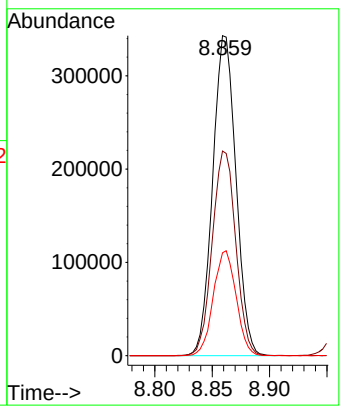


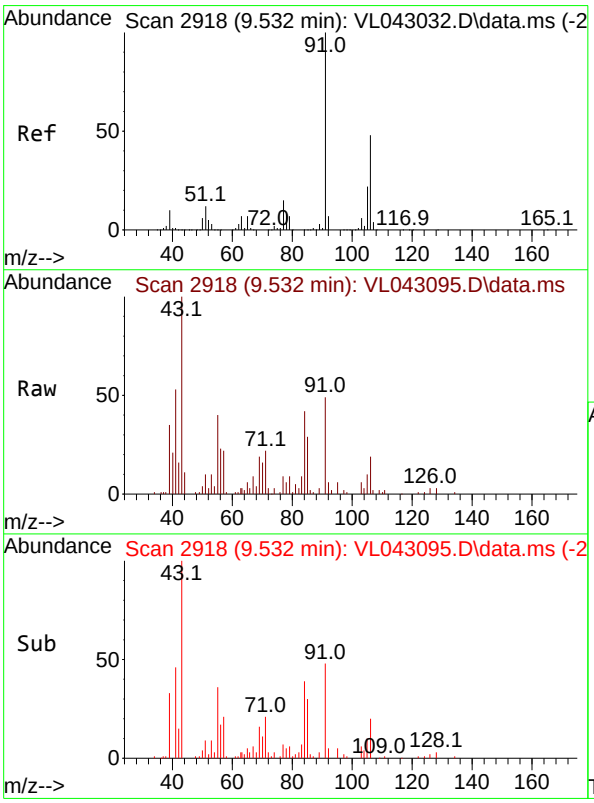
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.859 min Scan# 2
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion:117 Resp: 484936

Ion	Ratio	Lower	Upper
117	100		
82	64.6	53.0	79.6
119	32.1	25.4	38.2

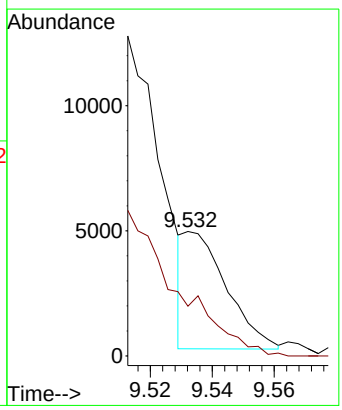


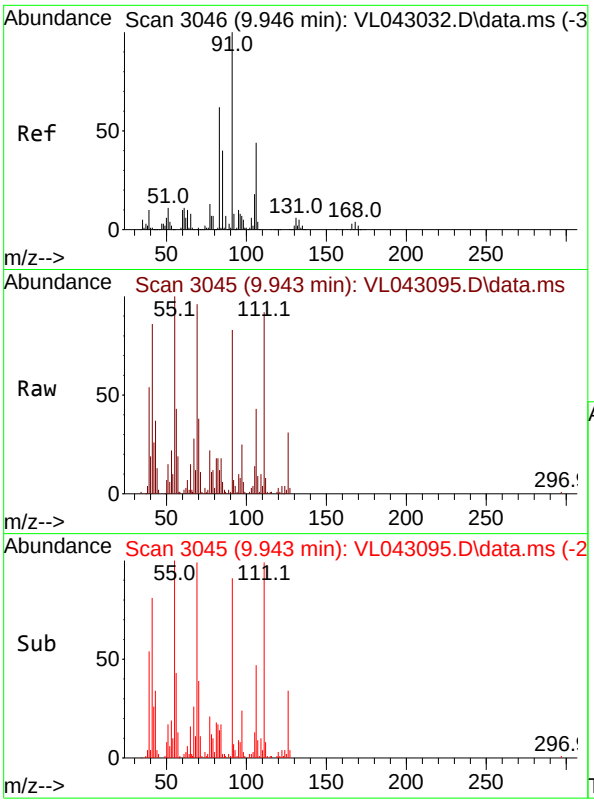


#59
m/p-Xylene
Concen: 0.070 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 91 Resp: 4432

Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.5	56.3#



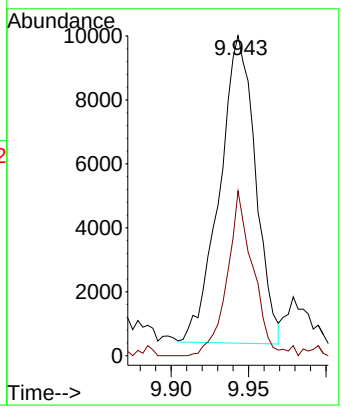


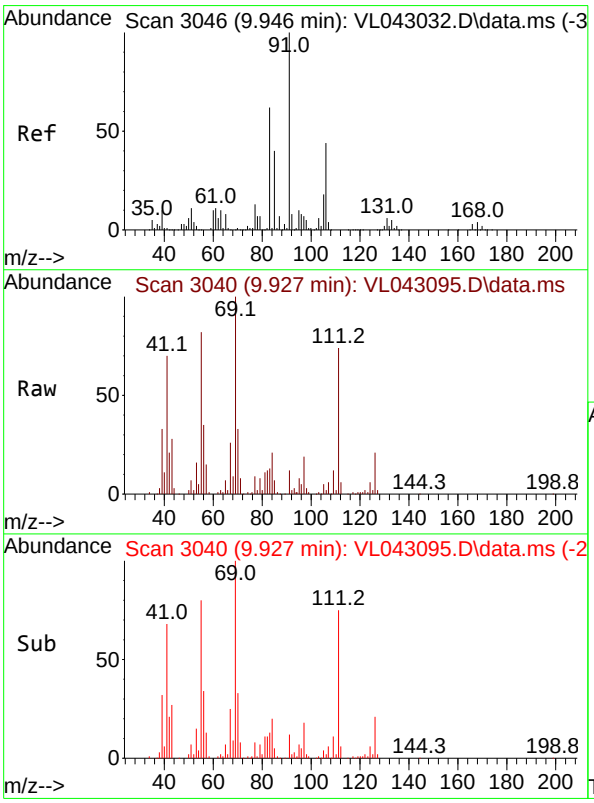
#60
o-Xylene
Concen: 0.246 ppbv
RT: 9.943 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 91 Resp: 15543

Ion	Ratio	Lower	Upper
91	100		
106	38.4	21.9	65.5

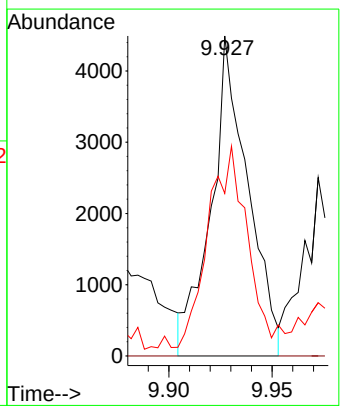


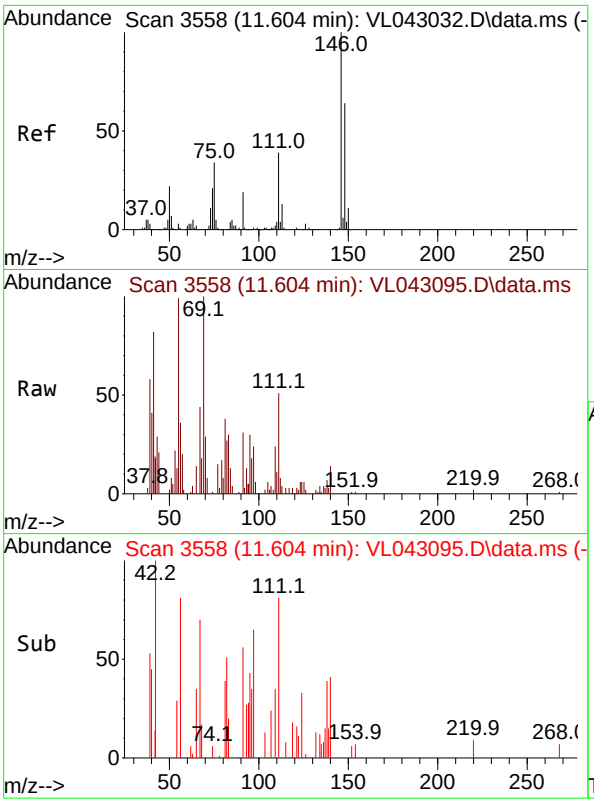


#63
1,1,2,2-Tetrachloroethane
Concen: 0.123 ppbv
RT: 9.927 min Scan# 3040
Delta R.T. -0.019 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 83 Resp: 5557

Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.7	14.1#
85	69.6	32.0	96.2



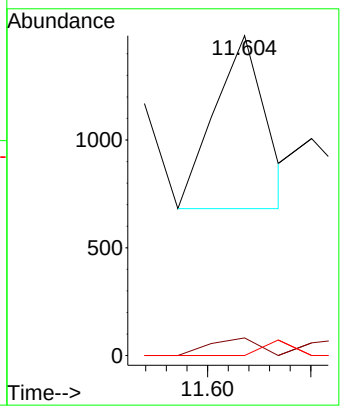


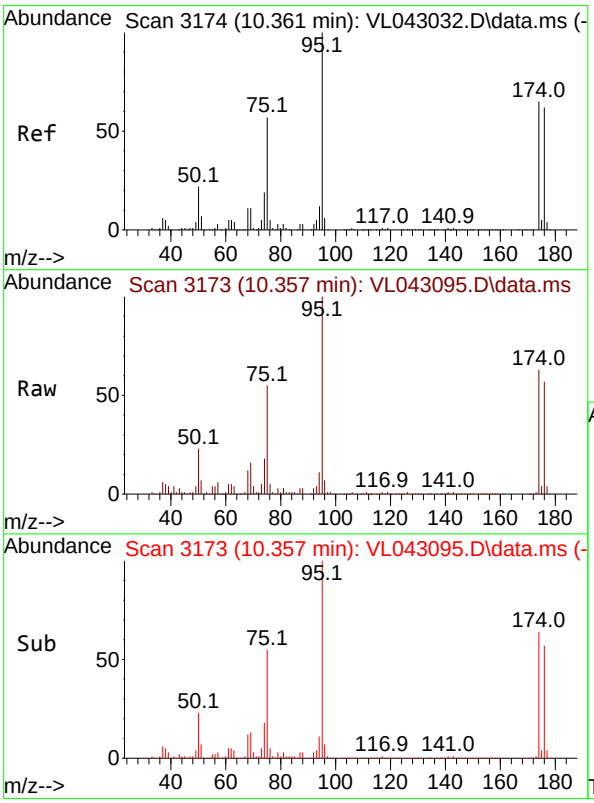
#66
Benzyl Chloride
Concen: 0.085 ppbv
RT: 11.604 min Scan# 3
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 91 Resp: 279

Ion	Ratio	Lower	Upper
91	100		
126	19.4	14.2	21.4
128	0.0	4.8	7.2#

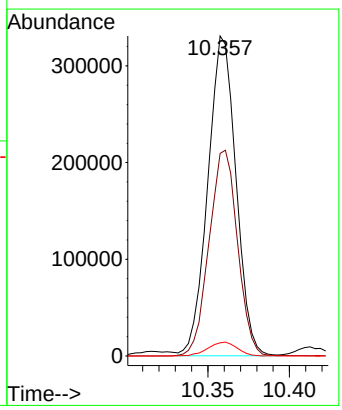


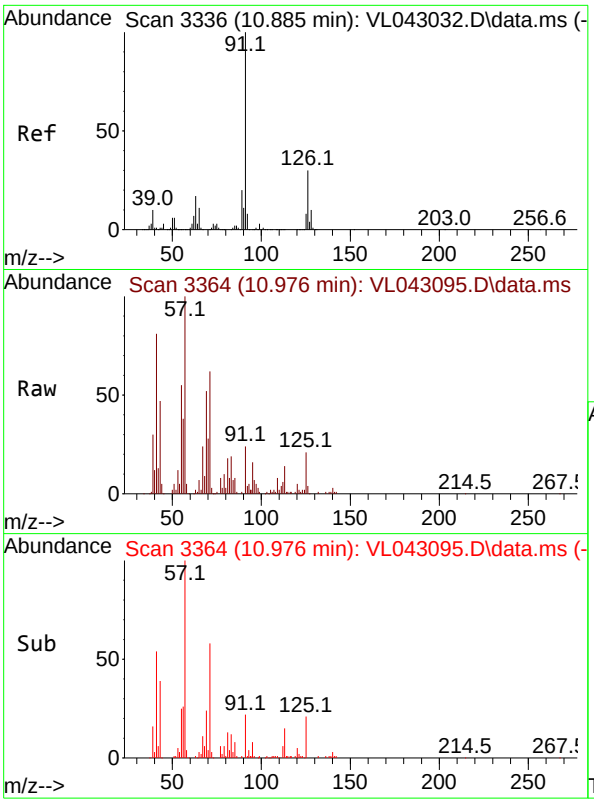


#68
1-Bromo-4-Fluorobenzene
Concen: 11.373 ppbv
RT: 10.357 min Scan# 3173
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 95 Resp: 397319

Ion	Ratio	Lower	Upper
95	100		
174	65.0	52.3	78.5
175	4.5	3.8	5.8



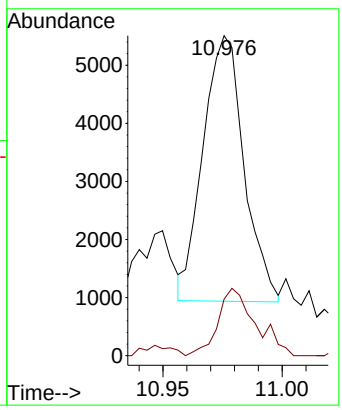


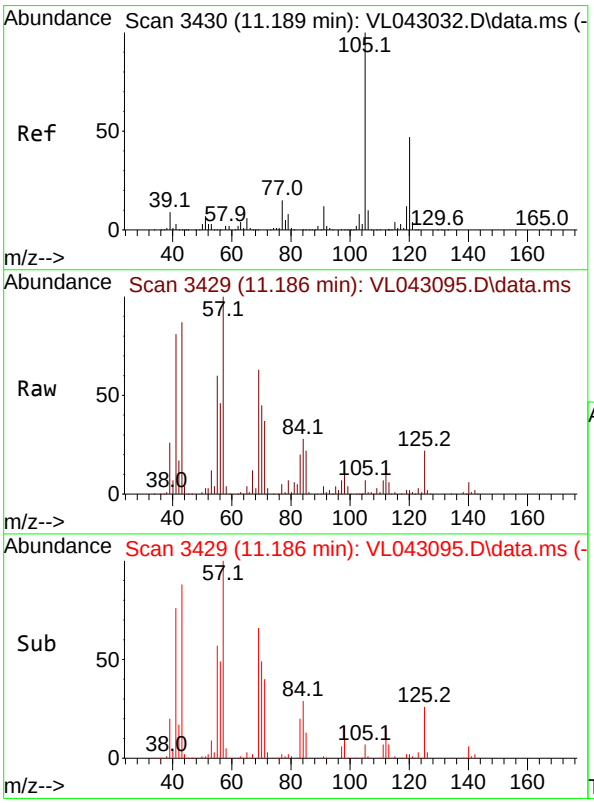
#71
2-Chlorotoluene
Concen: 0.078 ppbv
RT: 10.976 min Scan# 3
Delta R.T. 0.091 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 91 Resp: 5453

Ion	Ratio	Lower	Upper
91	100		
126	26.9	12.2	48.6

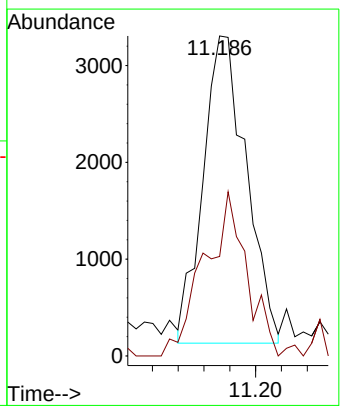


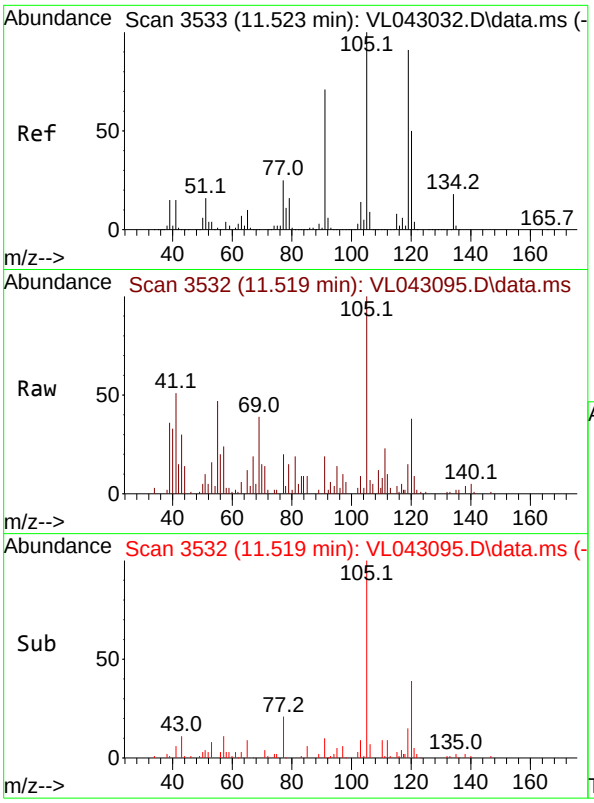


#73
1,3,5-Trimethylbenzene
Concen: 0.057 ppbv
RT: 11.186 min Scan# 3429
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion:105 Resp: 3695

Ion	Ratio	Lower	Upper
105	100		
120	33.4	37.5	56.3#



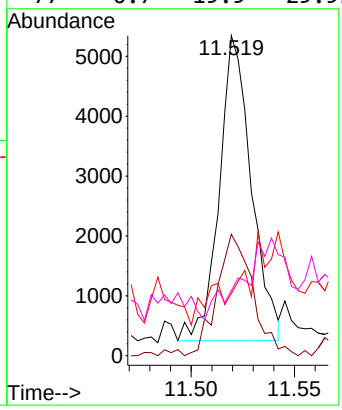


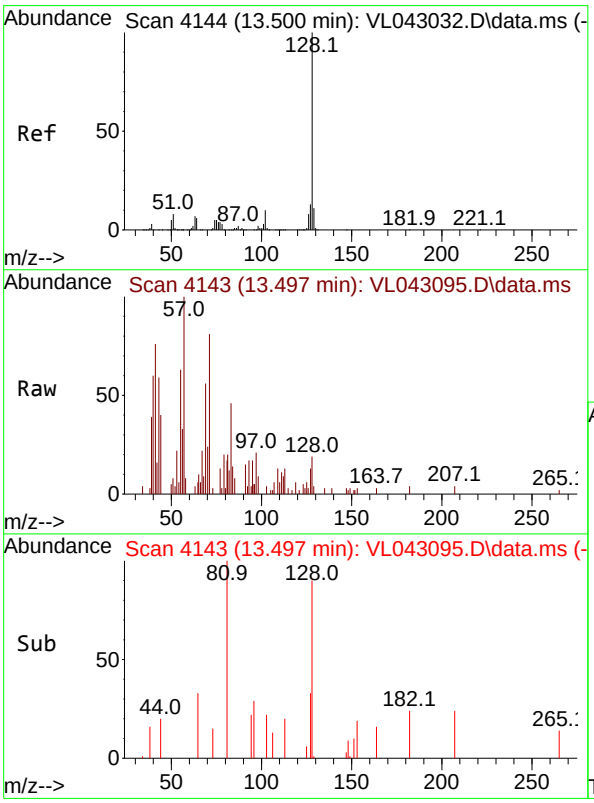
#74
1,2,4-Trimethylbenzene
Concen: 0.075 ppbv
RT: 11.519 min Scan# 3
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion:105 Resp: 5510

Ion	Ratio	Lower	Upper
105	100		
120	37.8	39.7	59.5#
91	3.9	56.5	84.7#
77	0.7	19.9	29.9#

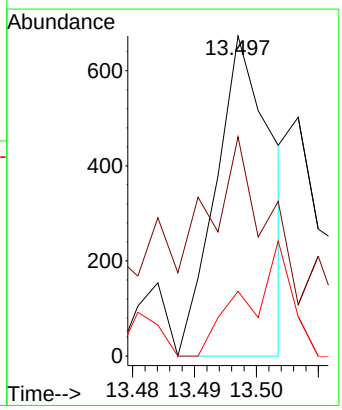


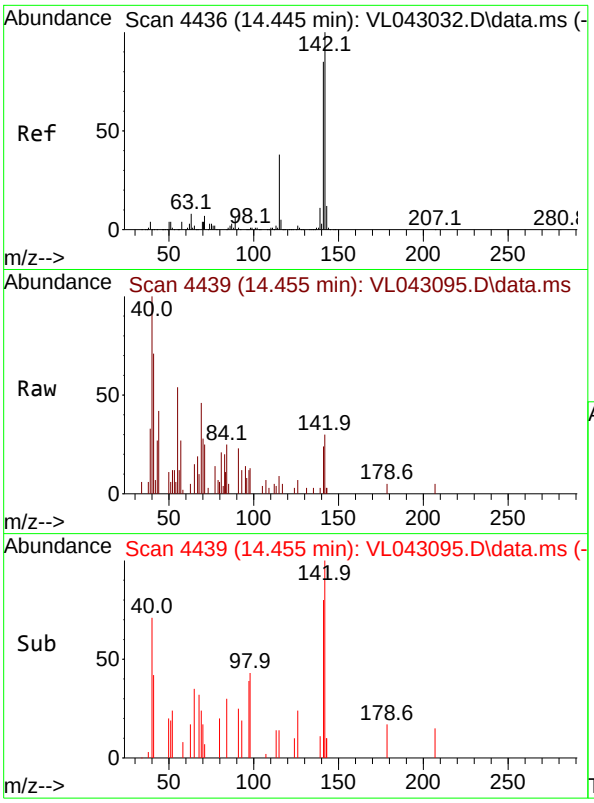


#79
Naphthalene
Concen: 0.241 ppbv
RT: 13.497 min Scan# 4143
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion:128 Resp: 422

Ion	Ratio	Lower	Upper
128	100		
127	42.5	10.6	16.0#
129	20.2	8.8	13.2#





#80
Naphthalene,2-methyl-
Concen: 0.686 ppbv
RT: 14.455 min Scan# 44
Delta R.T. 0.010 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion:142 Resp: 744

Ion	Ratio	Lower	Upper
142	100		
141	91.3	66.6	100.0
115	57.1	30.1	45.1#