

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032525\
 Data File : VL042168.D
 Acq On : 25 Mar 2025 11:02
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Mar 26 01:33:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 26 01:29:19 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	174598	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	407917	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.898	117	338792	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	265716	10.036	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	2555	0.133	ppbv #	83
3) Chlorodifluoromethane	1.480	51	2798	0.111	ppbv	96
4) Chloromethane	1.538	50	956	0.135	ppbv #	77
5) Vinyl Chloride	1.586	62	894	0.136	ppbv #	63
6) Bromomethane	1.674	94	612	0.191	ppbv	91
7) Chloroethane	1.709	64	335	0.123	ppbv #	1
8) Dichlorotetrafluoroethane	1.560	85	2220	0.142	ppbv	99
9) Propene	1.735	41	242	0.024	ppbv	98
11) Trichlorofluoromethane	1.884	101	2643	0.137	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.150	101	2379	0.153	ppbv	88
13) Ethanol	1.726	45	271	0.403	ppbv #	31
14) Bromoethene	1.790	108	407	0.076	ppbv #	7
15) Acetone	1.845	43	3478	0.214	ppbv	92
16) 1,3-Butadiene	1.612	39	1140	0.151	ppbv #	78
17) tert-Butyl alcohol	2.049	59	2455	0.125	ppbv #	94
18) 1,1-Dichloroethene	2.039	96	1005	0.146	ppbv #	82
19) Isopropyl Alcohol	1.897	45	1924	0.208	ppbv #	88
20) Methylene Chloride	2.069	84	1861	0.305	ppbv #	88
21) Allyl Chloride	2.104	41	1775	0.152	ppbv #	53
22) trans-1,2-Dichloroethene	2.353	96	1077	0.132	ppbv #	84
23) Vinyl Acetate	2.470	43	821	0.079	ppbv #	1
24) 1,1-Dichloroethane	2.418	63	1860	0.123	ppbv #	75
25) Ethyl Acetate	2.852	43	3586	0.058	ppbv #	93
26) Hexane	2.839	57	1634	0.066	ppbv #	69
27) Carbon Disulfide	2.162	76	2175	0.121	ppbv #	1
28) Methyl tert-Butyl Ether	2.457	73	1449	0.114	ppbv #	84
29) Chloroform	2.862	83	2954	0.088	ppbv	95
30) Cyclohexane	3.868	84	1091	0.055	ppbv #	77
31) cis-1,2-Dichloroethene	2.729	61	1642	0.071	ppbv #	70
32) 1,1,1-Trichloroethane	3.376	97	1269	0.040	ppbv #	1
34) 2-Butanone	2.577	43	3192	0.099	ppbv #	90
35) Carbon Tetrachloride	3.778	117	1525	0.054	ppbv	89
36) Benzene	3.674	78	2288	0.053	ppbv #	59
37) 1,2-Dichloroethane	3.237	62	920	0.039	ppbv #	60
38) Trichloroethene	4.571	130	941	0.054	ppbv #	56
39) 1,2-Dichloropropane	3.975	63	102216	6.254	ppbv #	23
42) Bromodichloromethane	4.506	83	2821	0.088	ppbv #	96
44) 2,2,4-Trimethylpentane	4.661	57	1838	0.024	ppbv #	41
46) cis-1,3-Dichloropropene	5.635	75	626	0.030	ppbv #	26
47) 1,1,2-Trichloroethane	6.613	97	992	0.059	ppbv #	41
48) Dibromochloromethane	7.412	129	871	0.034	ppbv #	1
49) Bromoform	9.503	173	1814	0.080	ppbv	94
53) Toluene	6.953	91	2563	0.054	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032525\
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 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

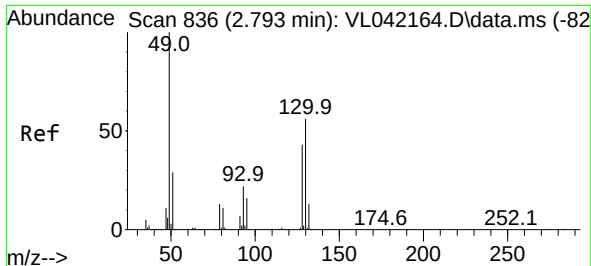
Quant Time: Mar 26 01:33:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 26 01:29:19 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
56) 1,1,1,2-Tetrachloroethane	8.940	131	1763	0.089	ppbv	#	56
57) Chlorobenzene	8.937	112	2684	0.075	ppbv	#	87
59) m/p-Xylene	9.545	91	1679	0.033	ppbv	#	100
60) o-Xylene	9.985	91	1204	0.024	ppbv	#	23
61) Styrene	9.888	104	510	0.022	ppbv	#	29
62) Isopropylbenzene	10.552	105	3504	0.046	ppbv		91
63) 1,1,2,2-Tetrachloroethane	9.976	83	3461	0.102	ppbv	#	96
64) n-propylbenzene	11.002	120	827	0.041	ppbv		97
65) tert-Butylbenzene	11.546	119	2401	0.034	ppbv		89
66) Benzyl Chloride	11.636	91	191	0.037	ppbv	#	58
67) sec-Butylbenzene	11.549	105	2794	0.028	ppbv		93
69) p-Isopropyltoluene	11.937	119	2134	0.027	ppbv	#	80
70) n-Butylbenzene	12.293	91	2859	0.035	ppbv		92
71) 2-Chlorotoluene	10.914	91	2775	0.047	ppbv		93
72) 4-Ethyltoluene	11.138	105	2190	0.035	ppbv	#	84
73) 1,3,5-Trimethylbenzene	11.219	105	1321	0.024	ppbv		98
74) 1,2,4-Trimethylbenzene	11.549	105	2794	0.045	ppbv	#	68
75) 1,3-Dichlorobenzene	11.617	146	2268	0.063	ppbv		94
76) 1,4-Dichlorobenzene	11.685	146	1816	0.051	ppbv		98
77) 1,2-Dichlorobenzene	11.960	146	2013	0.057	ppbv		94
78) Hexachloro-1,3-Butadiene	13.892	225	2612	0.094	ppbv	#	87
79) Naphthalene	13.523	128	1465	0.033	ppbv	#	82
80) Naphthalene,2-methyl-	14.475	142	522	0.039	ppbv		92

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

Quant Time: Mar 26 01:33:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Mar 26 01:29:19 2025
Response via : Initial Calibration

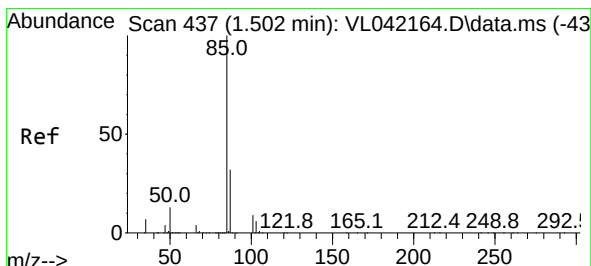
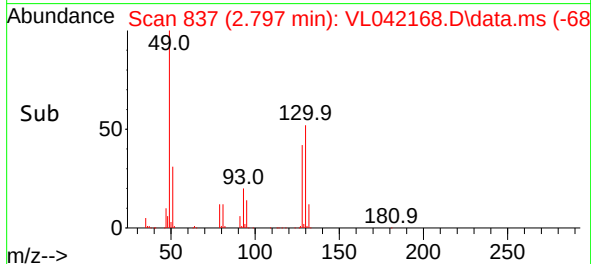
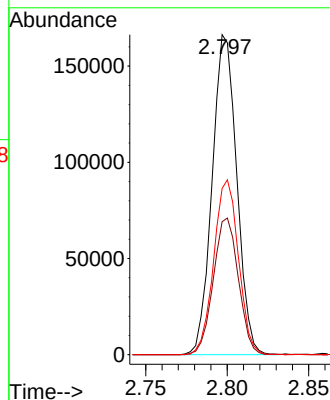
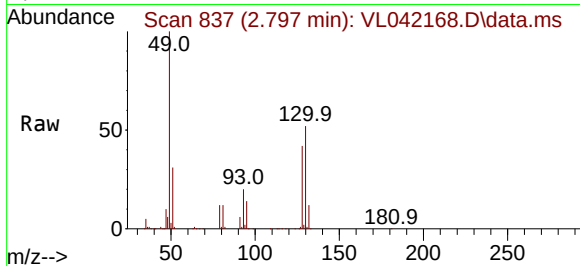




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042168.D
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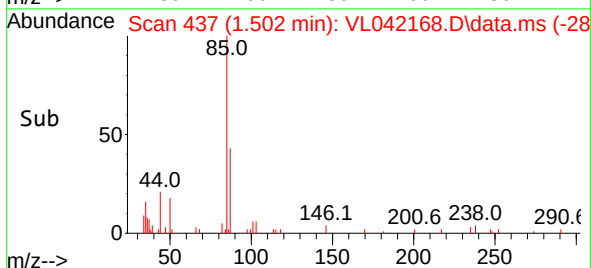
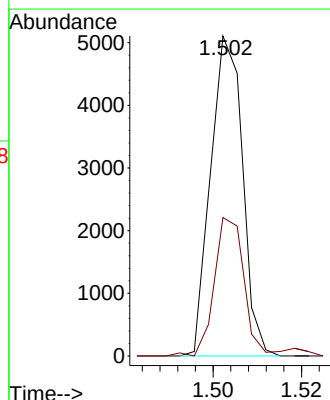
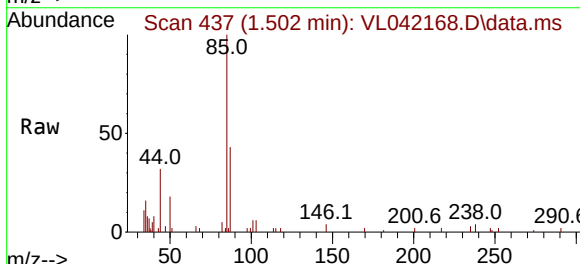
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

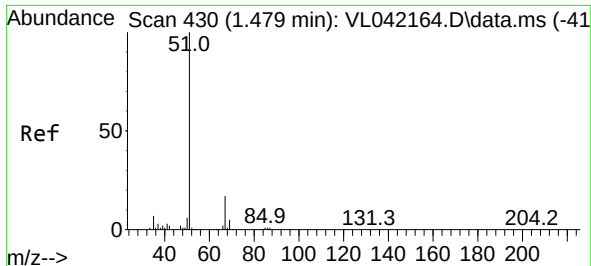
Tgt Ion: 49 Resp: 174598
Ion Ratio Lower Upper
49 100
128 43.5 21.5 64.5
130 54.8 27.3 81.9



#2
Dichlorodifluoromethane
Concen: 0.133 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 85 Resp: 2555
Ion Ratio Lower Upper
85 100
87 42.3 26.0 39.0#

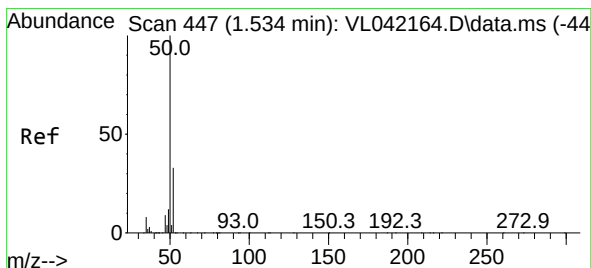
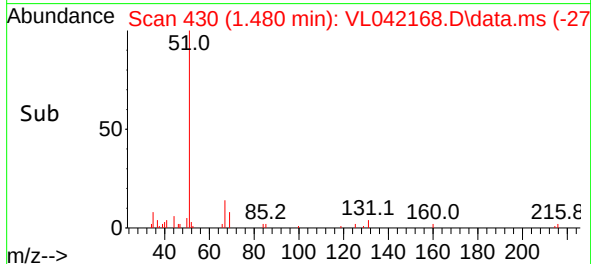
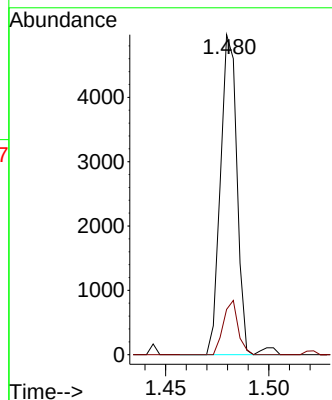
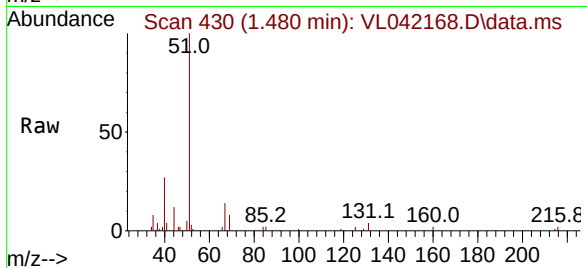




#3
Chlorodifluoromethane
Concen: 0.111 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

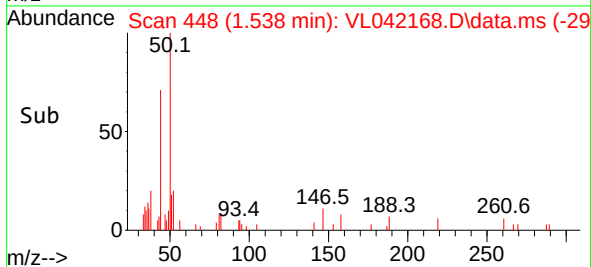
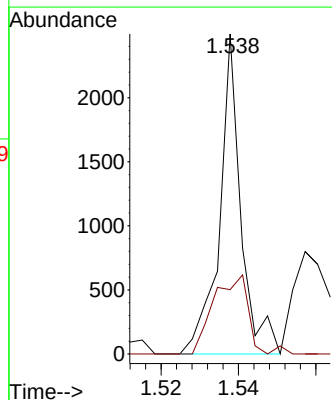
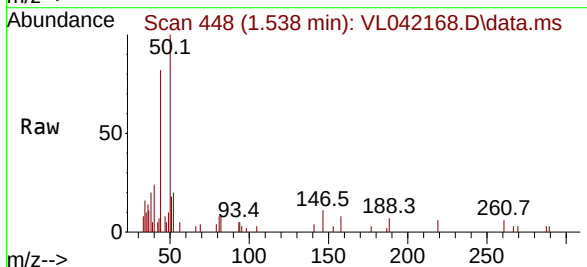
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

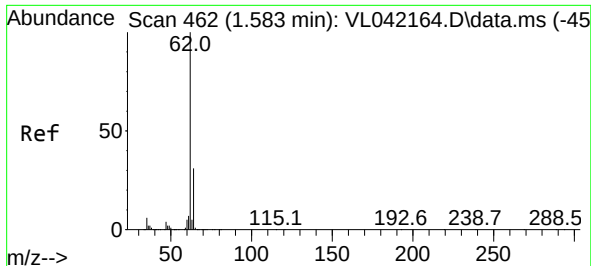
Tgt Ion: 51 Resp: 2798
Ion Ratio Lower Upper
51 100
67 14.9 13.3 19.9



#4
Chloromethane
Concen: 0.135 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 50 Resp: 956
Ion Ratio Lower Upper
50 100
52 20.1 26.4 39.6#

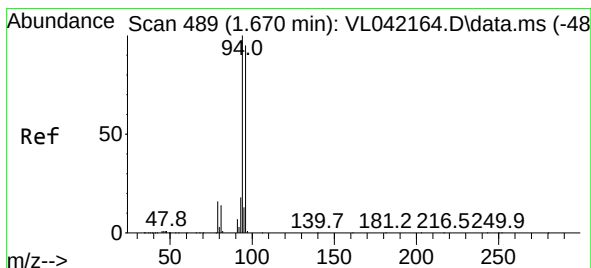
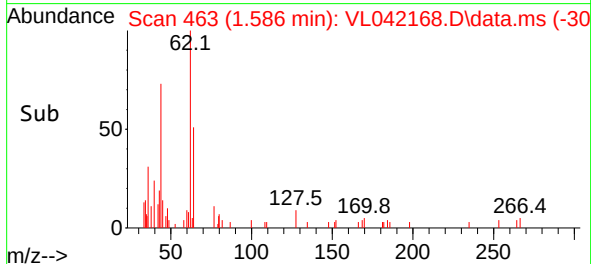
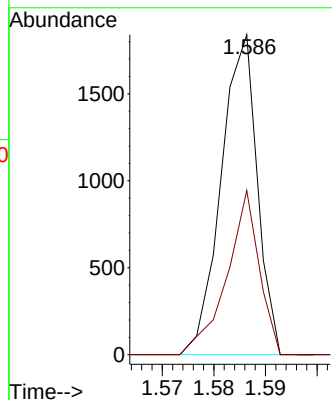
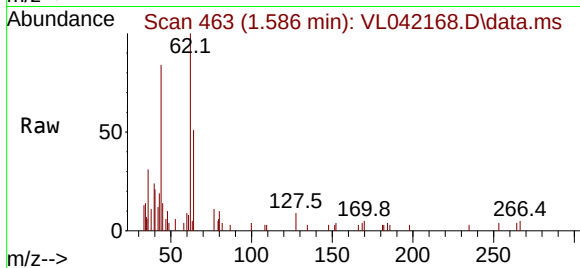




#5
 Vinyl Chloride
 Concen: 0.136 ppbv
 RT: 1.586 min Scan# 4
 Delta R.T. 0.004 min
 Lab File: VL042168.D
 Acq: 25 Mar 2025 11:02

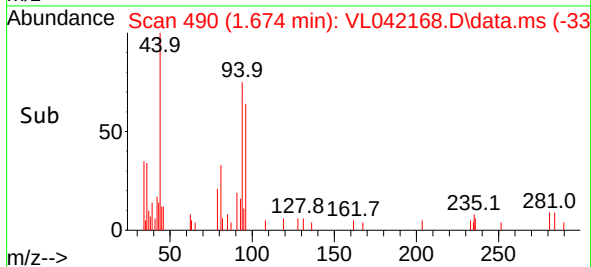
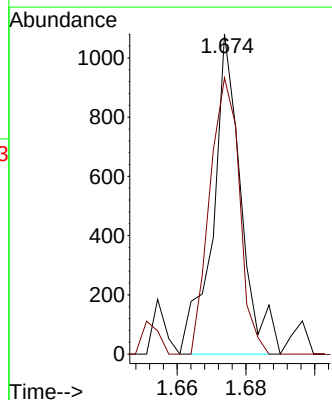
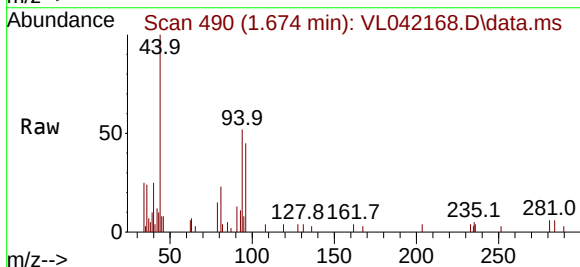
Instrument :
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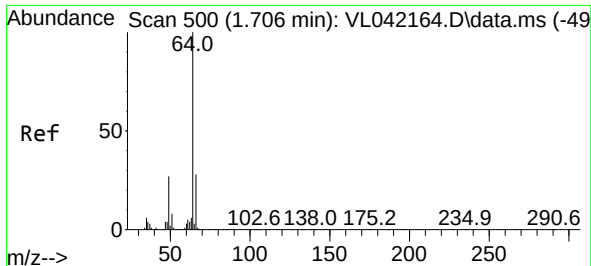
Tgt Ion: 62 Resp: 894
 Ion Ratio Lower Upper
 62 100
 64 51.3 24.8 37.2#



#6
 Bromomethane
 Concen: 0.191 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.004 min
 Lab File: VL042168.D
 Acq: 25 Mar 2025 11:02

Tgt Ion: 94 Resp: 612
 Ion Ratio Lower Upper
 94 100
 96 86.3 75.8 113.6

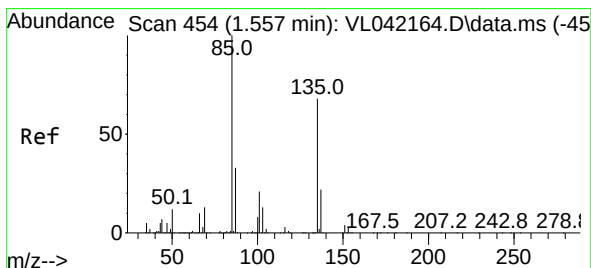
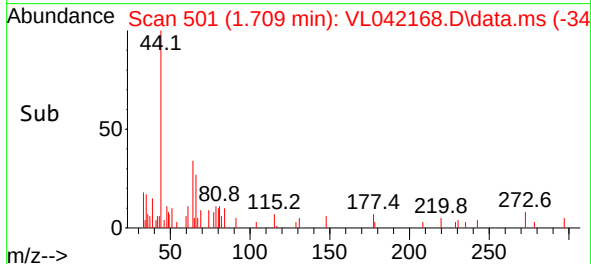
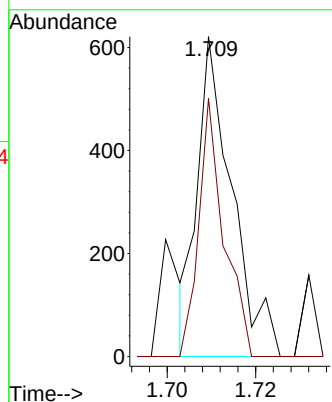
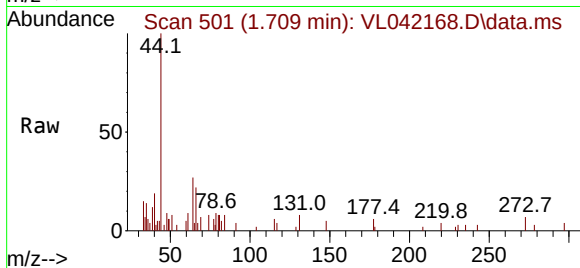




#7
Chloroethane
Concen: 0.123 ppbv
RT: 1.709 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

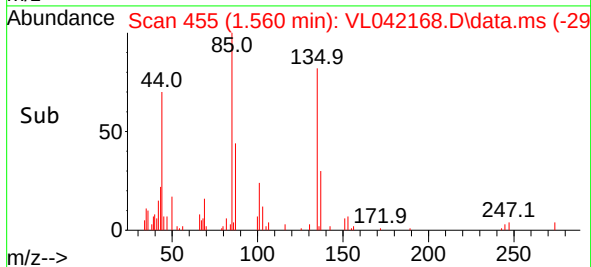
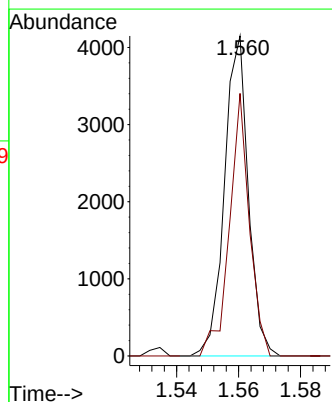
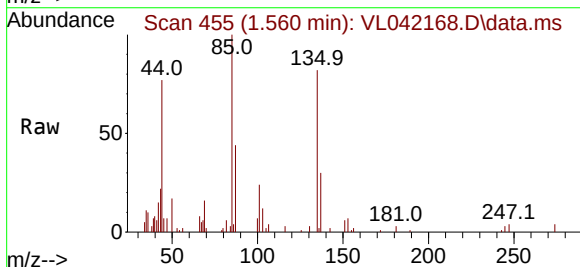
Instrument :
MSVOA_1
ClientSampleId :
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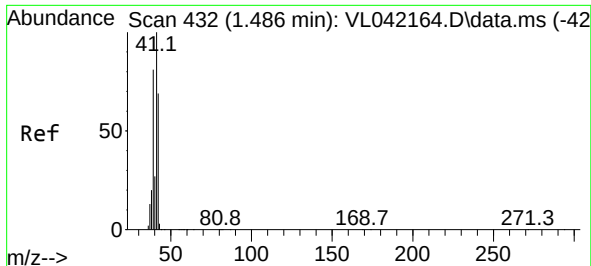
Tgt Ion: 64 Resp: 335
Ion Ratio Lower Upper
64 100
66 80.7 22.2 33.4#



#8
Dichlorotetrafluoroethane
Concen: 0.142 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 85 Resp: 2220
Ion Ratio Lower Upper
85 100
135 68.8 54.3 81.5





#9

Propene

Concen: 0.024 ppbv

RT: 1.735 min Scan# 509

Delta R.T. 0.250 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_1

ClientSampleId :

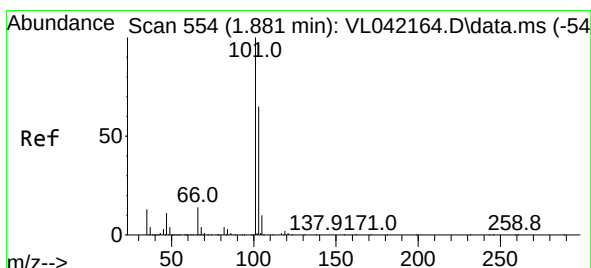
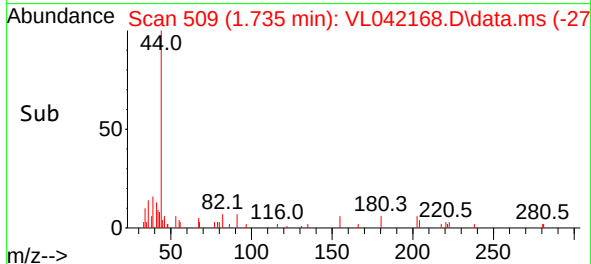
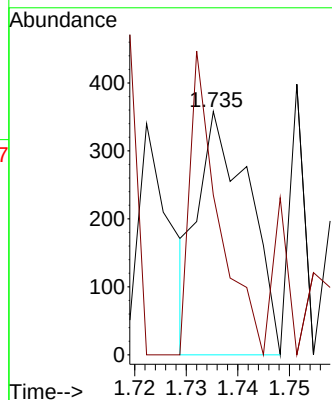
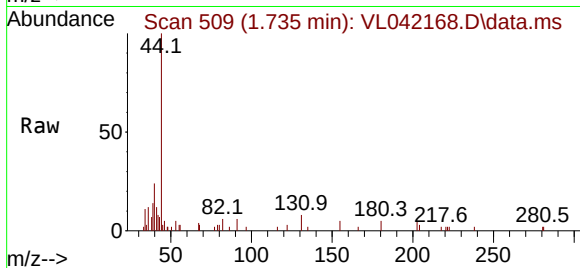
VSTDIC0.1

Tgt Ion: 41 Resp: 242

Ion Ratio Lower Upper

41 100

42 71.9 55.9 83.9



#11

Trichlorofluoromethane

Concen: 0.137 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.004 min

Lab File: VL042168.D

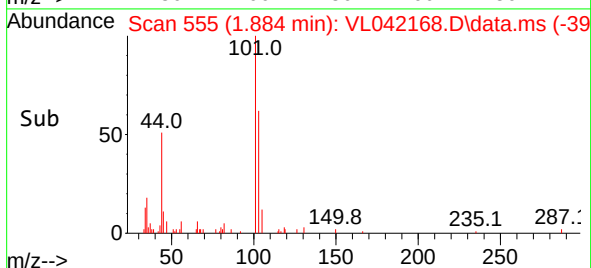
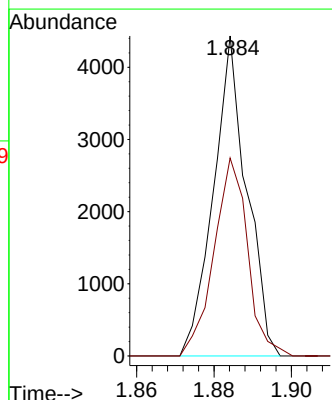
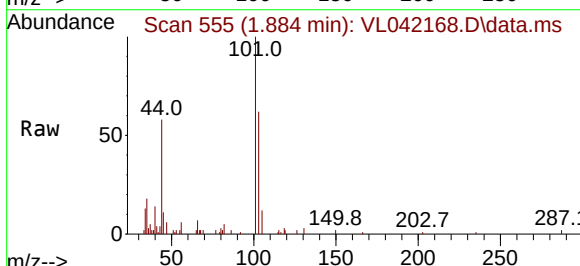
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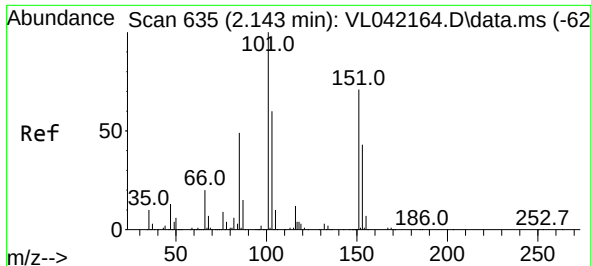
Tgt Ion: 101 Resp: 2643

Ion Ratio Lower Upper

101 100

103 61.8 51.9 77.9

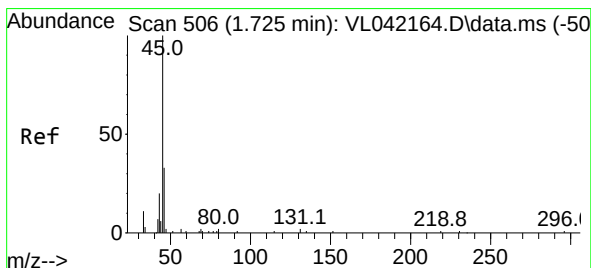
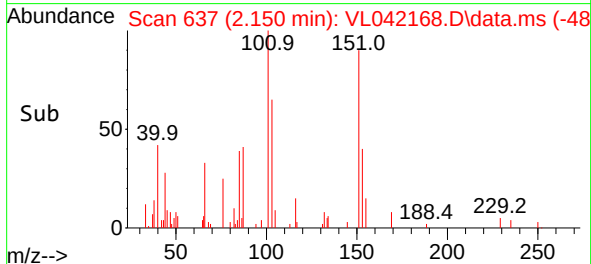
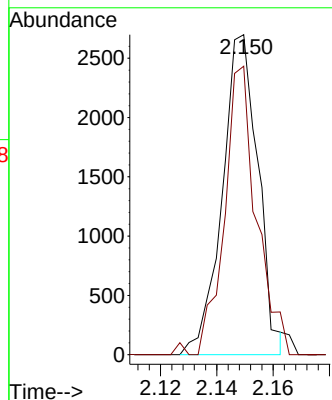
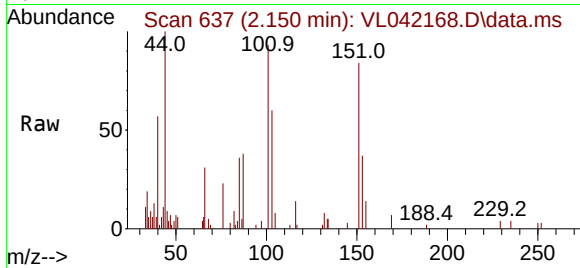




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.153 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

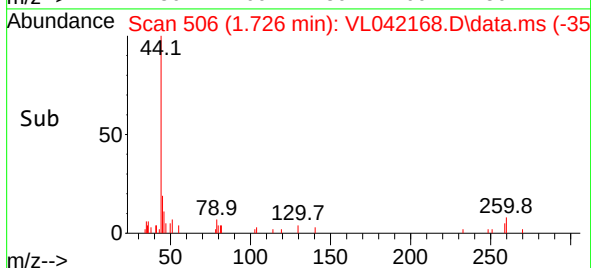
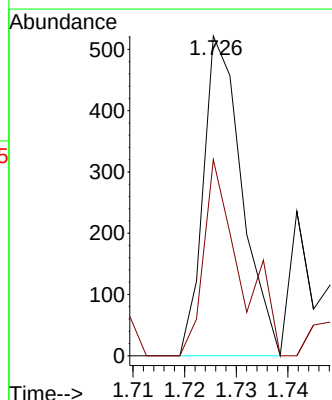
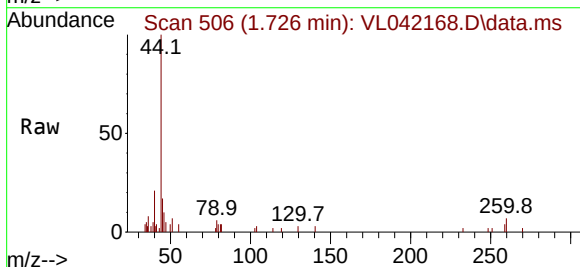
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ClientSampleId :
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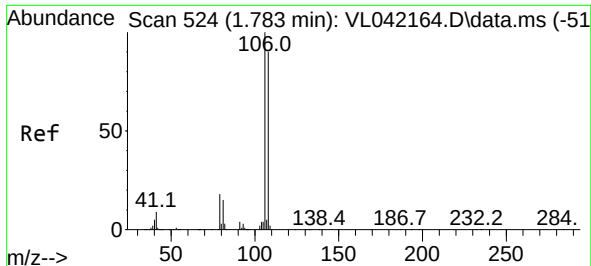
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Ion Ratio Lower Upper
101 100
151 81.3 57.0 85.4



#13
Ethanol
Concen: 0.403 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.000 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 45 Resp: 271
Ion Ratio Lower Upper
45 100
46 83.8 16.3 65.1#





#14

Bromoethene

Concen: 0.076 ppbv

RT: 1.790 min Scan# 51

Delta R.T. 0.007 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

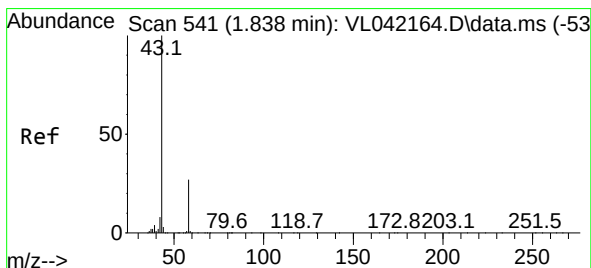
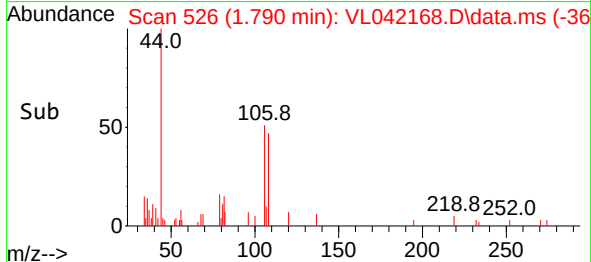
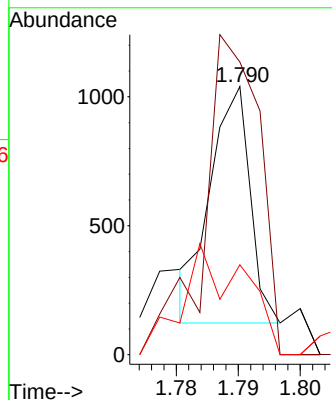
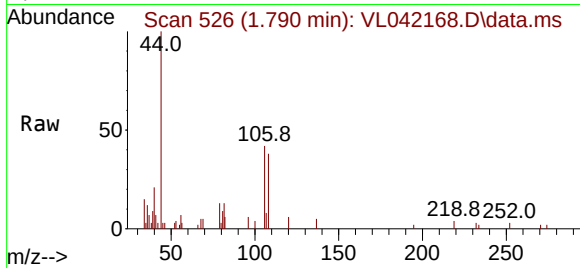
Tgt Ion:108 Resp: 407

Ion Ratio Lower Upper

108 100

106 188.2 85.8 128.8#

79 100.2 15.5 23.3#



#15

Acetone

Concen: 0.214 ppbv

RT: 1.845 min Scan# 543

Delta R.T. 0.007 min

Lab File: VL042168.D

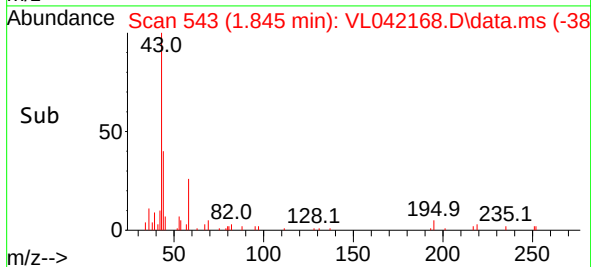
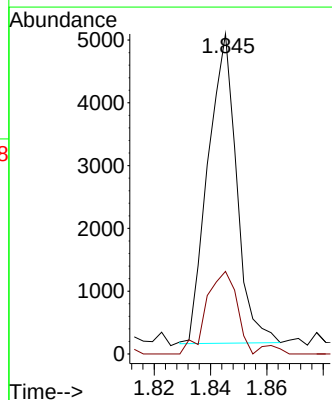
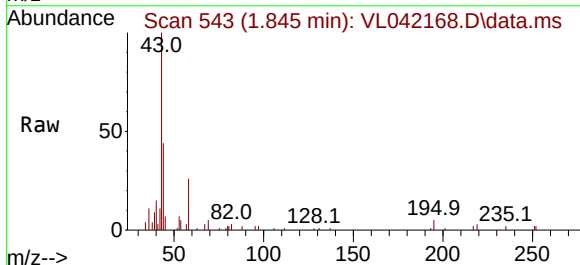
Acq: 25 Mar 2025 11:02

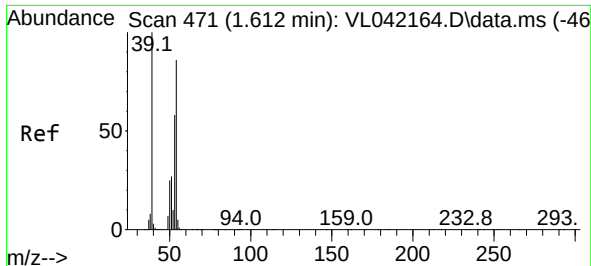
Tgt Ion: 43 Resp: 3478

Ion Ratio Lower Upper

43 100

58 30.2 20.9 31.3

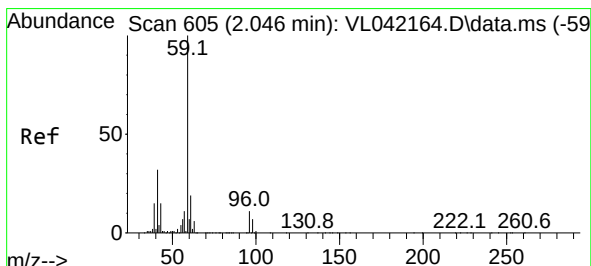
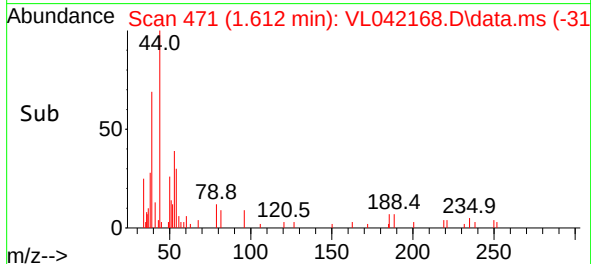
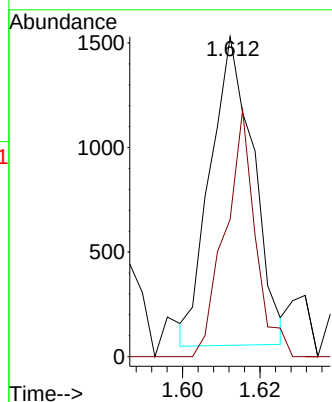
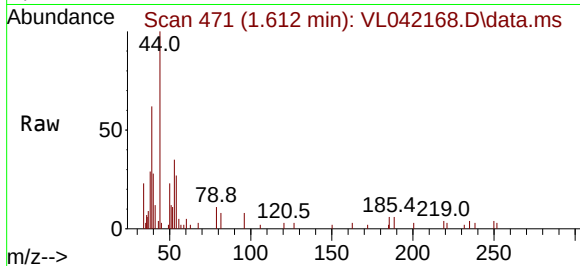




#16
1,3-Butadiene
Concen: 0.151 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

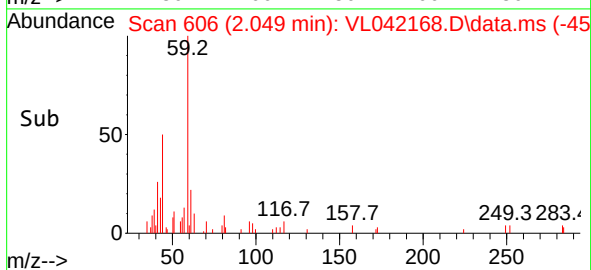
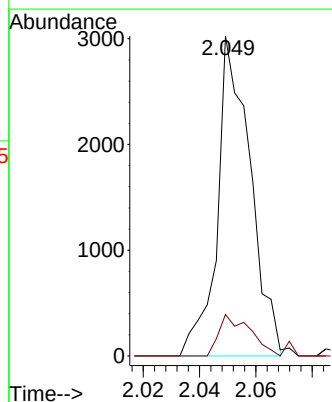
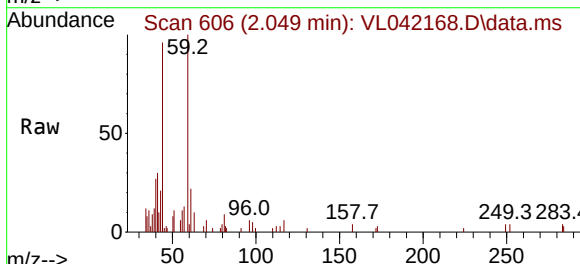
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

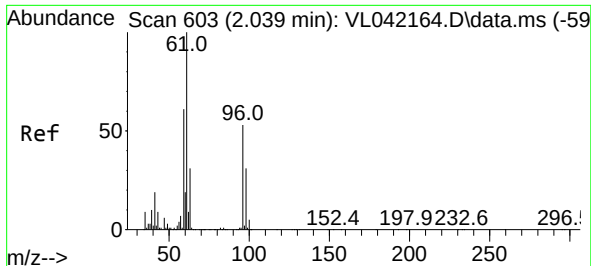
Tgt Ion: 39 Resp: 1140
Ion Ratio Lower Upper
39 100
54 56.1 60.0 90.0#



#17
tert-Butyl alcohol
Concen: 0.125 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 59 Resp: 2455
Ion Ratio Lower Upper
59 100
57 13.4 8.9 13.3#





#18

1,1-Dichloroethene

Concen: 0.146 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

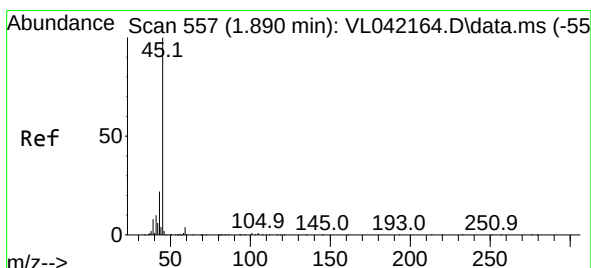
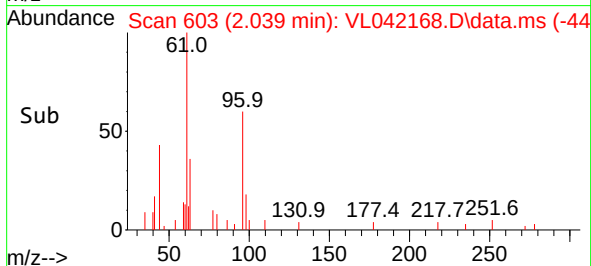
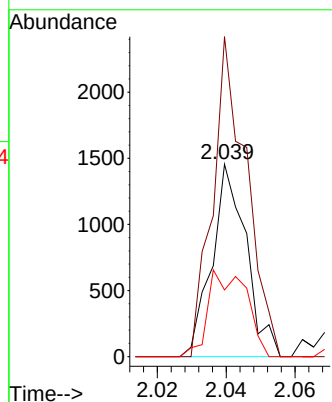
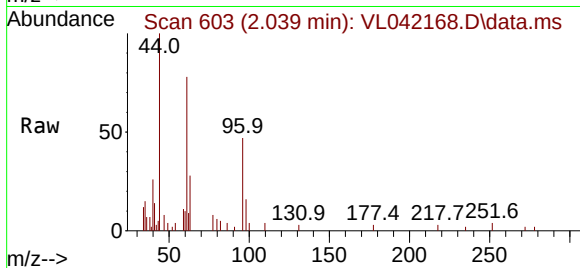
Tgt Ion: 96 Resp: 1005

Ion Ratio Lower Upper

96 100

61 166.2 150.0 225.0

98 34.6 45.7 68.5#



#19

Isopropyl Alcohol

Concen: 0.208 ppbv

RT: 1.897 min Scan# 559

Delta R.T. 0.007 min

Lab File: VL042168.D

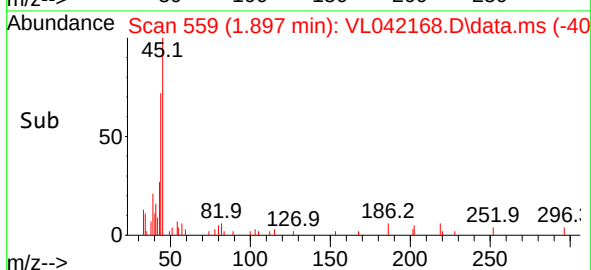
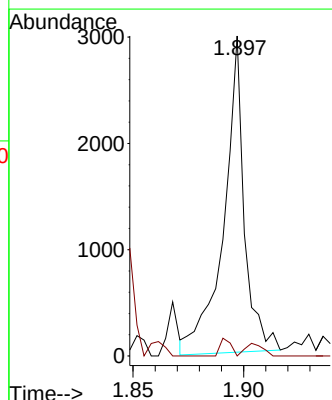
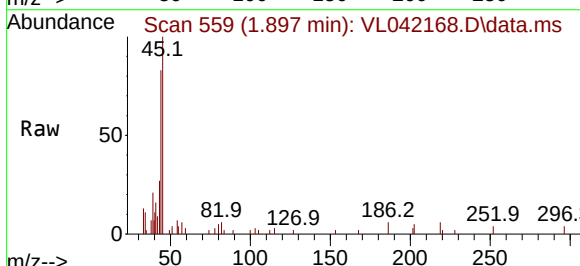
Acq: 25 Mar 2025 11:02

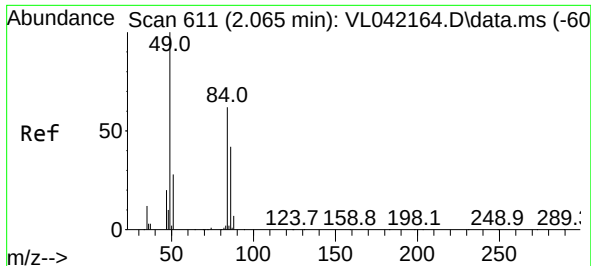
Tgt Ion: 45 Resp: 1924

Ion Ratio Lower Upper

45 100

58 6.3 1.8 2.8#

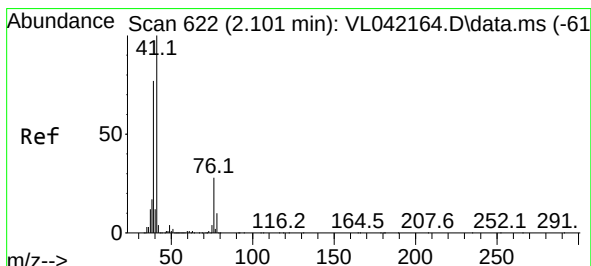
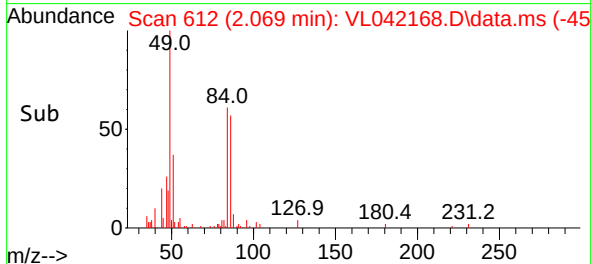
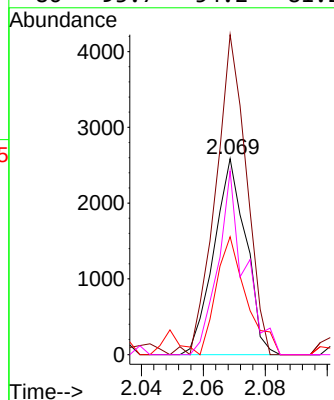
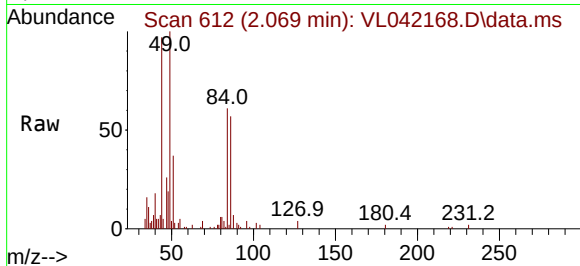




#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 2.069 min Scan# 611
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

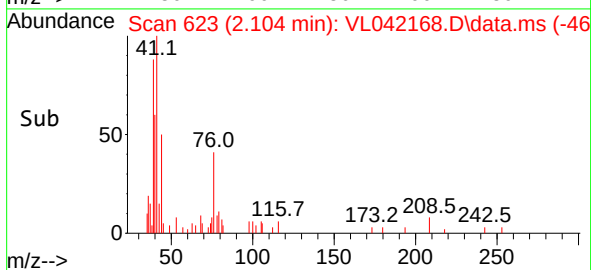
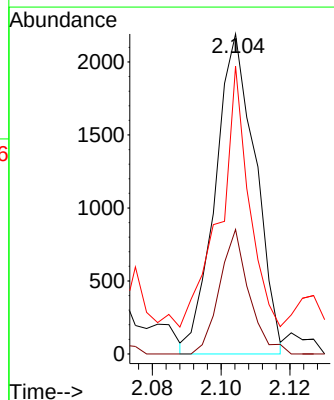
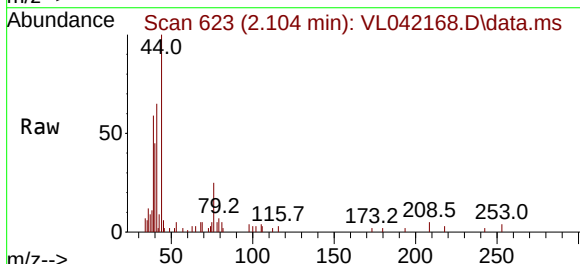
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

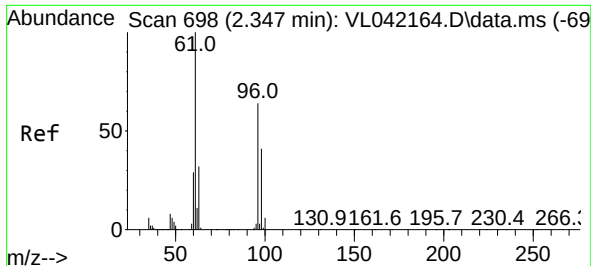
Tgt Ion:	84	Resp:	1861
Ion	Ratio	Lower	Upper
84	100		
49	163.3	129.4	194.0
51	60.1	38.2	57.2#
86	93.7	54.2	81.2#



#21
Allyl Chloride
Concen: 0.152 ppbv
RT: 2.104 min Scan# 623
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion:	41	Resp:	1775
Ion	Ratio	Lower	Upper
41	100		
76	30.5	22.2	33.4
39	130.5	61.4	92.2#

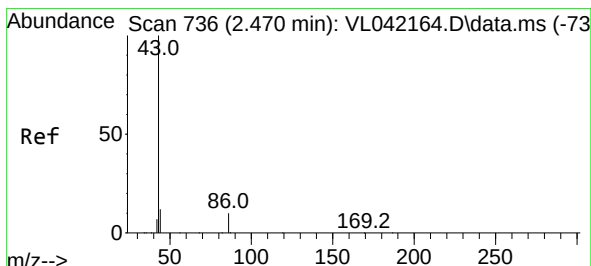
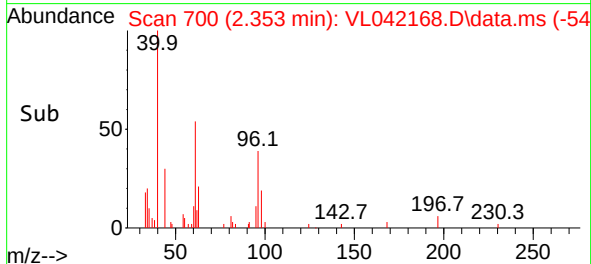
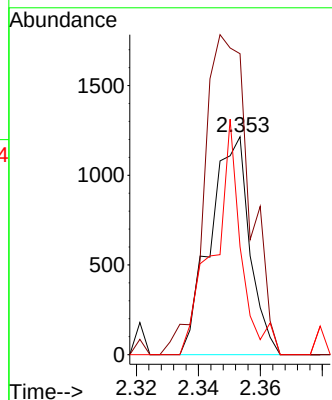
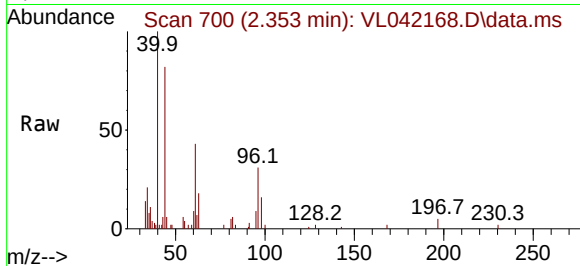




#22
trans-1,2-Dichloroethene
Concen: 0.132 ppbv
RT: 2.353 min Scan# 700
Delta R.T. 0.007 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

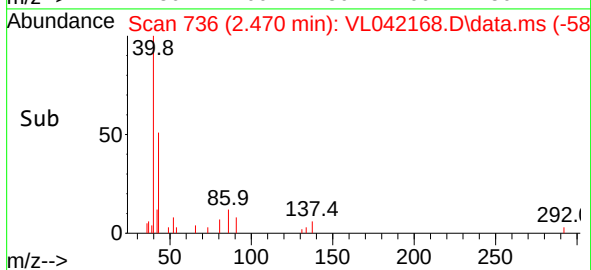
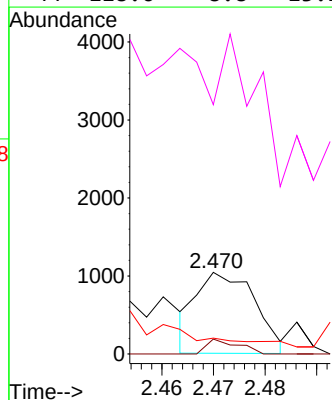
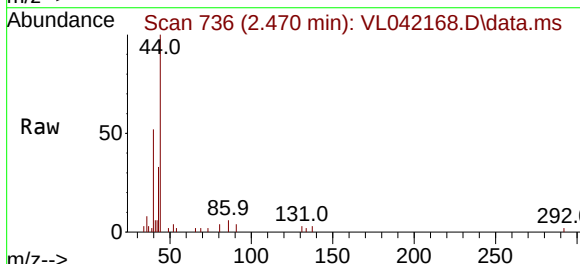
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

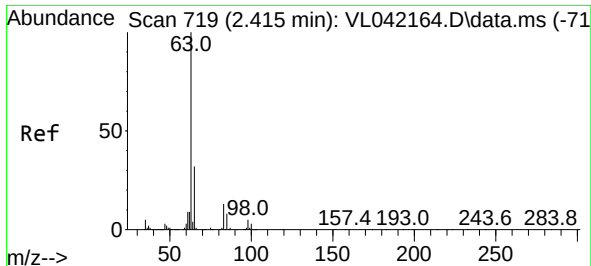
Tgt Ion: 96 Resp: 1077
Ion Ratio Lower Upper
96 100
61 138.1 125.8 188.8
98 49.5 51.4 77.2#



#23
Vinyl Acetate
Concen: 0.079 ppbv
RT: 2.470 min Scan# 736
Delta R.T. 0.000 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 43 Resp: 821
Ion Ratio Lower Upper
43 100
86 21.6 6.7 10.1#
42 4.5 8.5 12.7#
44 118.6 8.8 13.2#

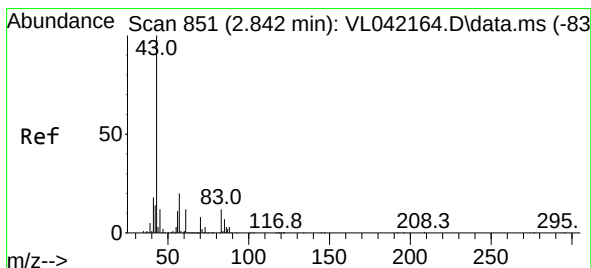
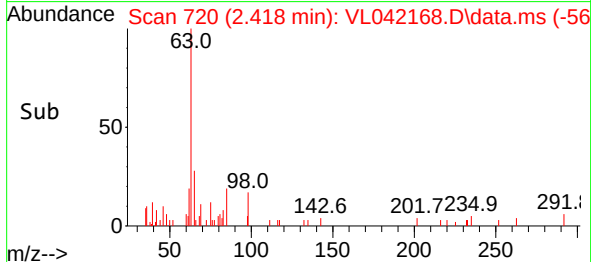
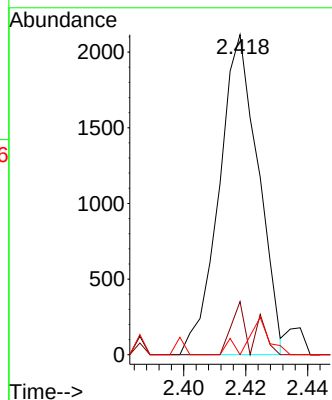
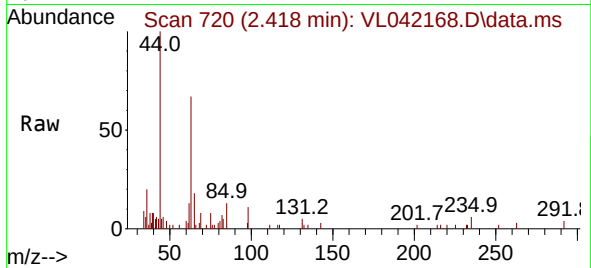




#24
1,1-Dichloroethane
Concen: 0.123 ppbv
RT: 2.418 min Scan# 719
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

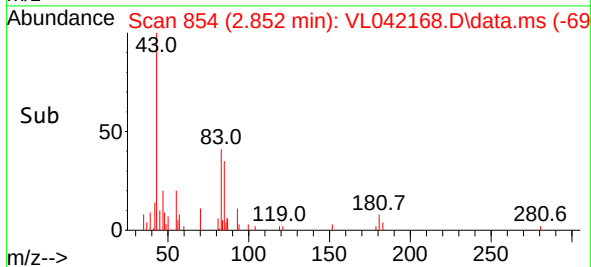
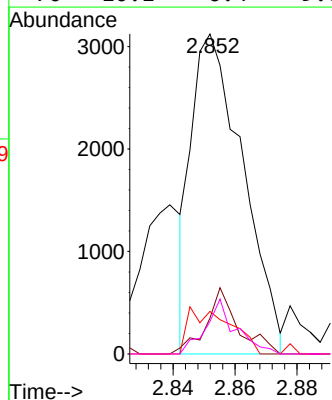
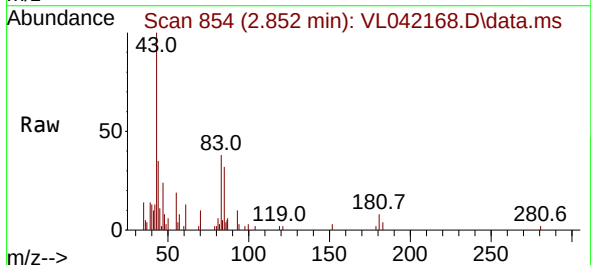
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

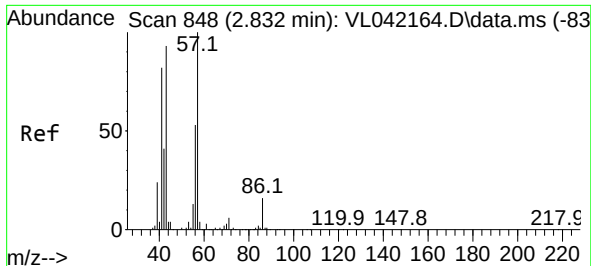
Tgt Ion: 63 Resp: 1860
Ion Ratio Lower Upper
63 100
98 16.6 2.6 7.8#
100 0.0 1.4 4.0#



#25
Ethyl Acetate
Concen: 0.058 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.010 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 43 Resp: 3586
Ion Ratio Lower Upper
43 100
45 12.8 8.4 12.6#
61 12.5 7.3 10.9#
70 10.1 6.4 9.6#

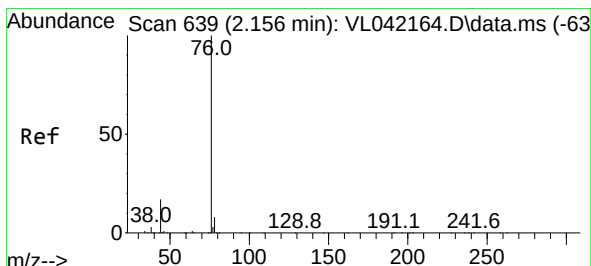
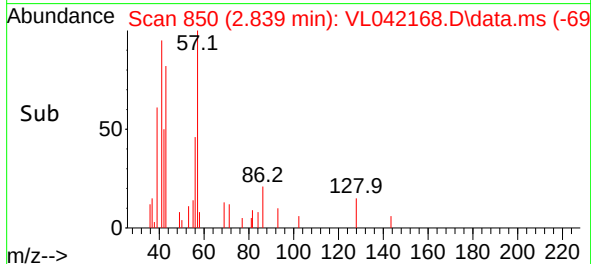
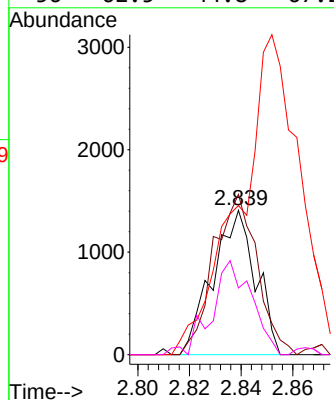
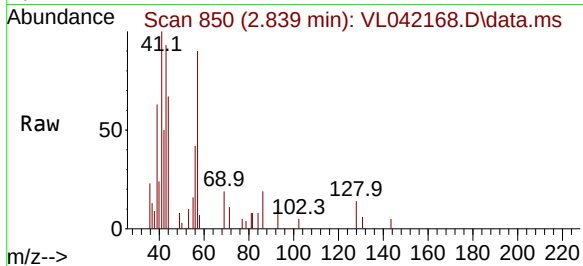




#26
Hexane
Concen: 0.066 ppbv
RT: 2.839 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

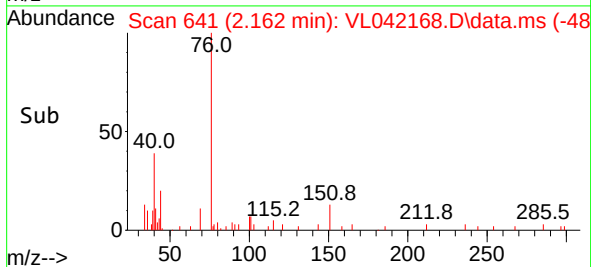
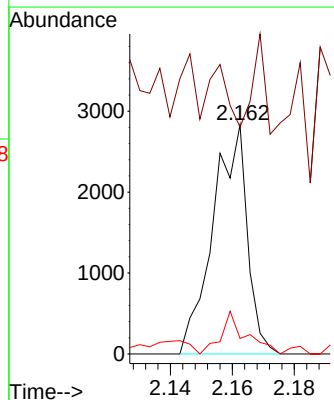
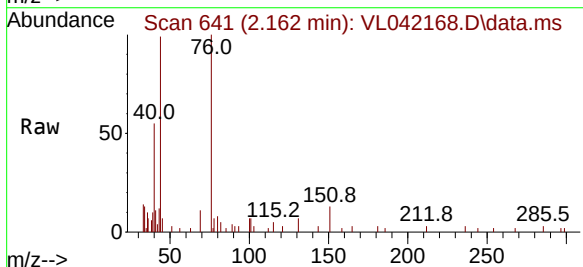
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

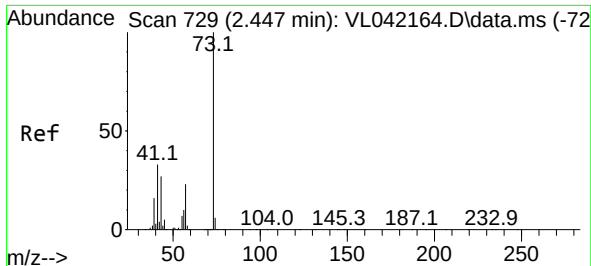
Tgt Ion: 57	Resp: 1634
Ion Ratio	Lower Upper
57	100
41	115.1 73.9 110.9#
43	332.6 210.0 315.0#
56	62.5 44.8 67.2



#27
Carbon Disulfide
Concen: 0.121 ppbv
RT: 2.162 min Scan# 641
Delta R.T. 0.007 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 76	Resp: 2175
Ion Ratio	Lower Upper
76	100
44	203.8 17.0 25.4#
78	29.9 9.0 13.6#

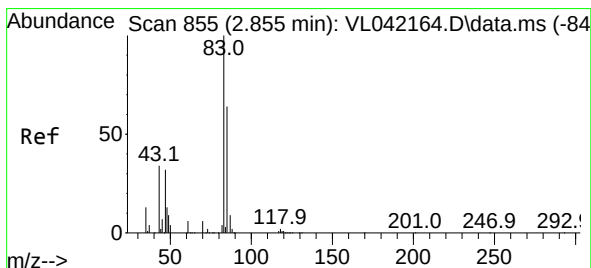
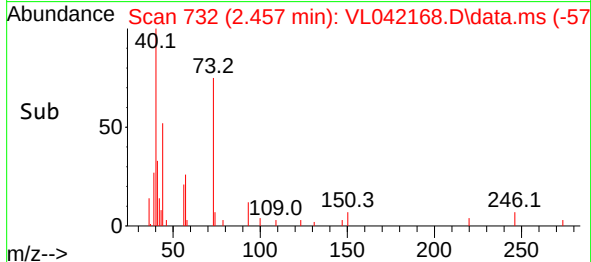
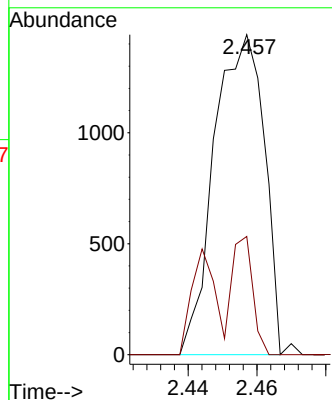
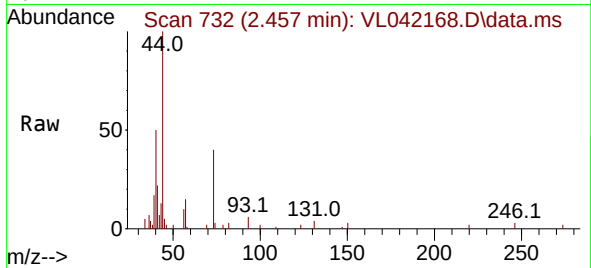




#28
Methyl tert-Butyl Ether
Concen: 0.114 ppbv
RT: 2.457 min Scan# 71
Delta R.T. 0.010 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

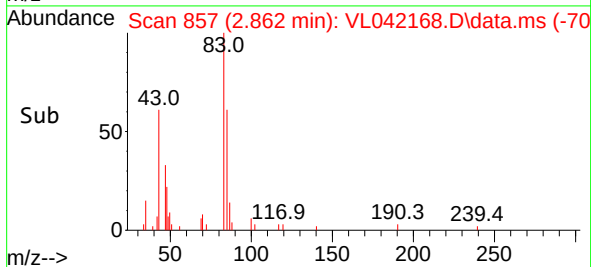
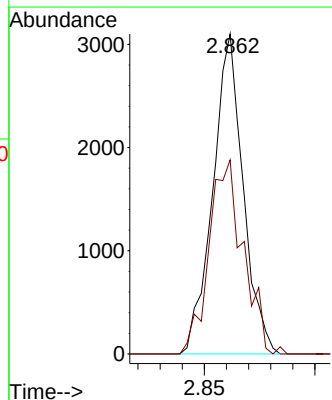
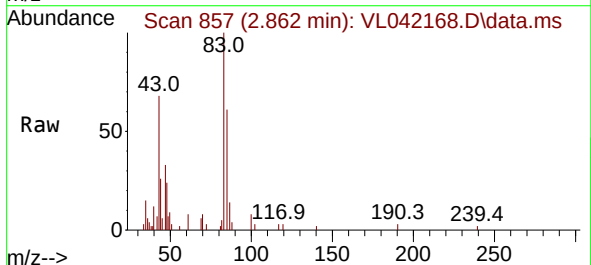
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

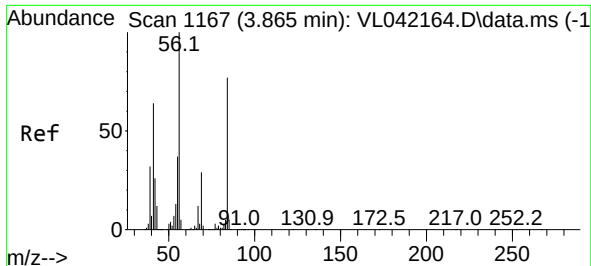
Tgt Ion: 73 Resp: 1449
Ion Ratio Lower Upper
73 100
57 30.9 18.6 28.0#



#29
Chloroform
Concen: 0.088 ppbv
RT: 2.862 min Scan# 857
Delta R.T. 0.007 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 83 Resp: 2954
Ion Ratio Lower Upper
83 100
85 60.7 51.4 77.0

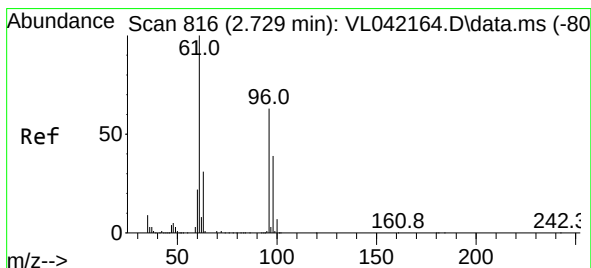
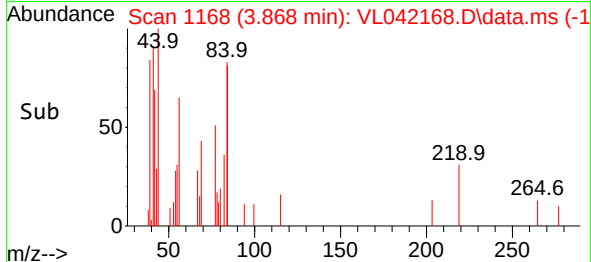
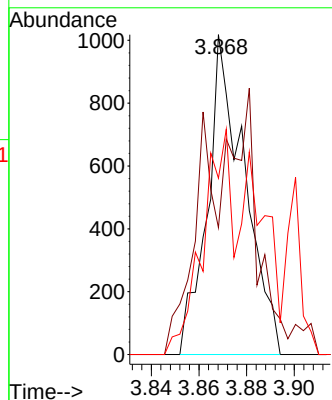
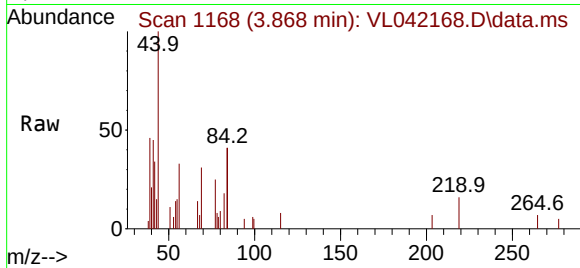




#30
Cyclohexane
Concen: 0.055 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

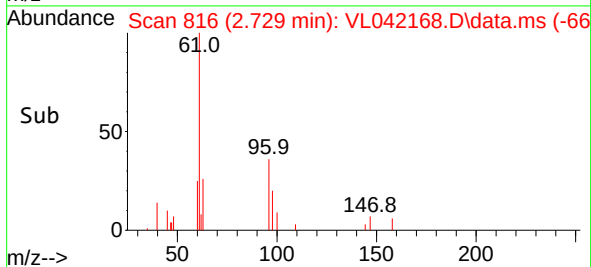
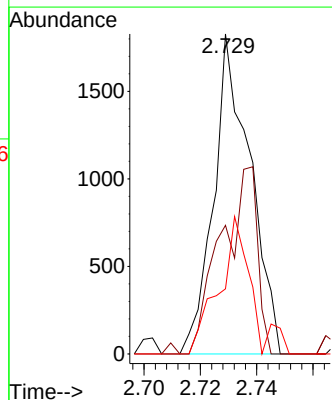
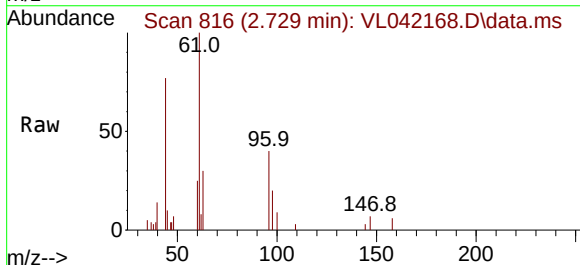
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

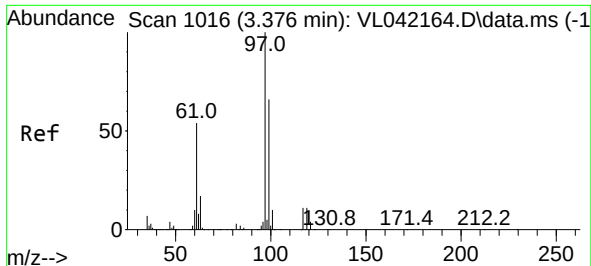
Tgt Ion: 84 Resp: 1091
Ion Ratio Lower Upper
84 100
56 115.3 107.0 160.6
41 118.9 69.9 104.9#



#31
cis-1,2-Dichloroethene
Concen: 0.071 ppbv
RT: 2.729 min Scan# 816
Delta R.T. 0.000 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 61 Resp: 1642
Ion Ratio Lower Upper
61 100
96 40.2 50.7 76.1#
98 20.4 31.4 47.0#





#32

1,1,1-Trichloroethane

Concen: 0.040 ppbv

RT: 3.376 min Scan# 1016

Delta R.T. 0.000 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

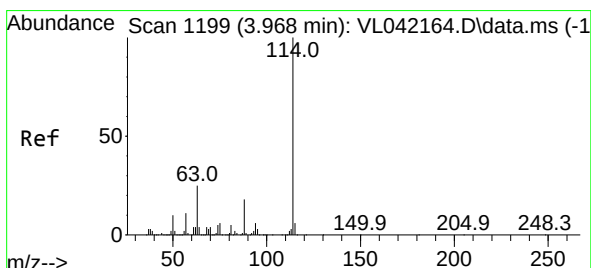
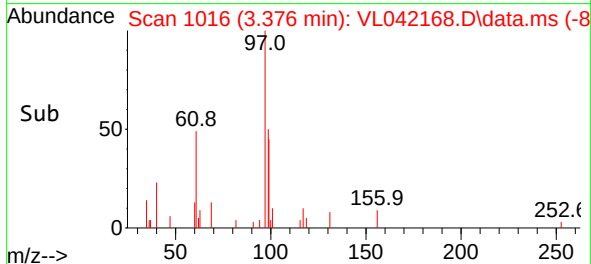
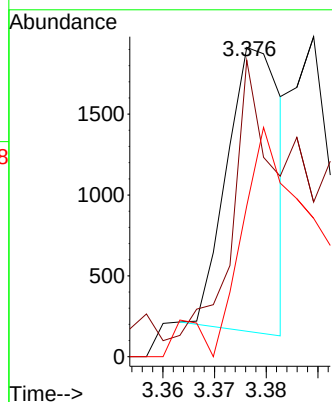
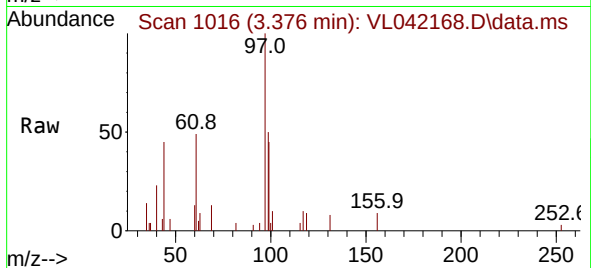
Tgt Ion: 97 Resp: 1269

Ion Ratio Lower Upper

97 100

99 166.1 50.6 75.8#

61 117.7 42.1 63.1#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1202

Delta R.T. 0.010 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

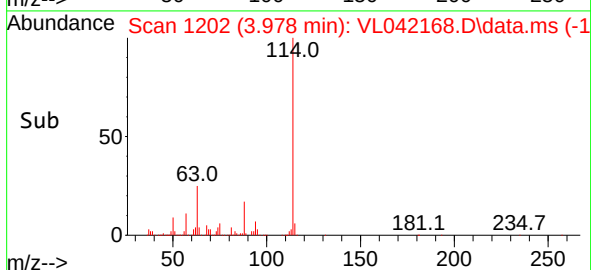
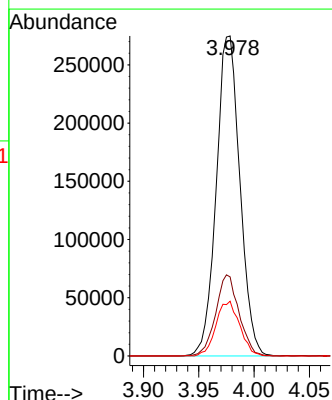
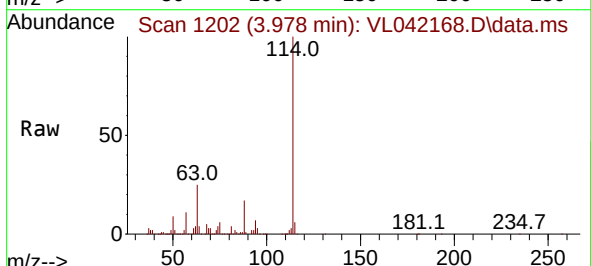
Tgt Ion: 114 Resp: 407917

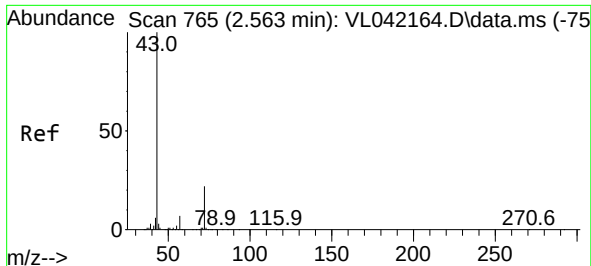
Ion Ratio Lower Upper

114 100

63 25.1 20.1 30.1

88 17.2 14.2 21.2

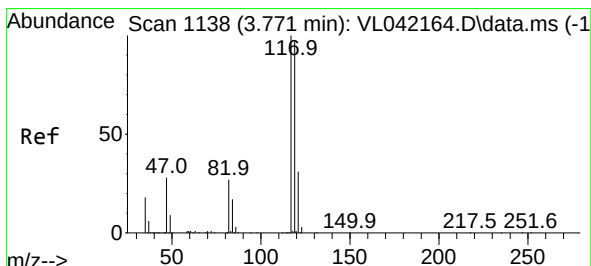
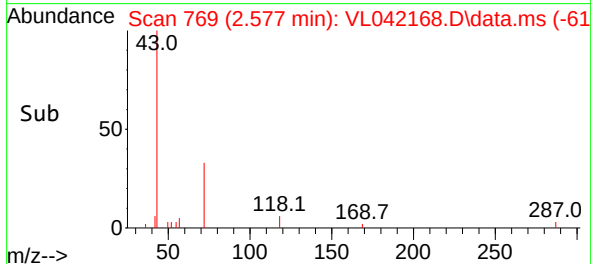
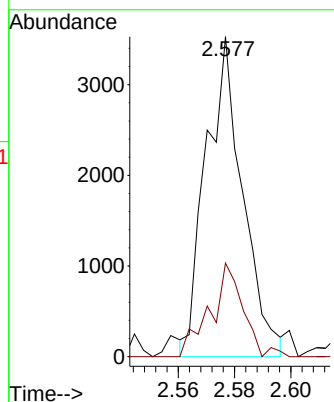
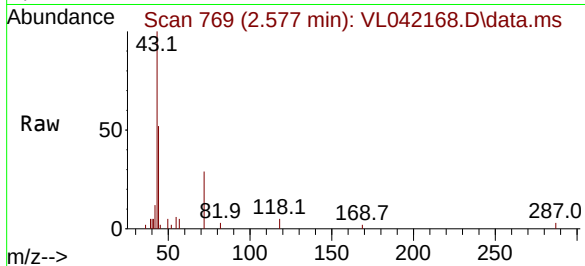




#34
2-Butanone
Concen: 0.099 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.013 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

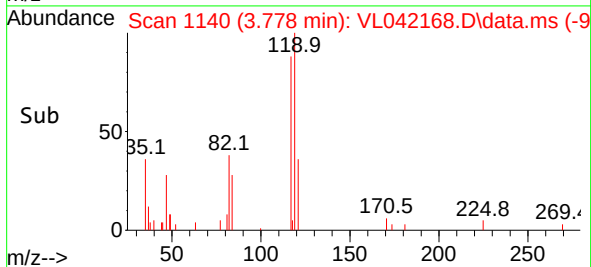
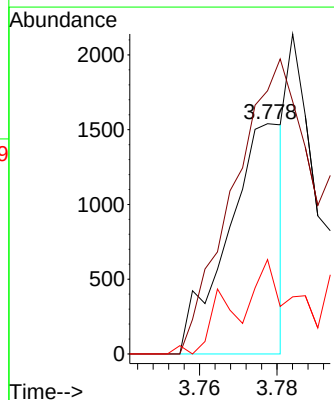
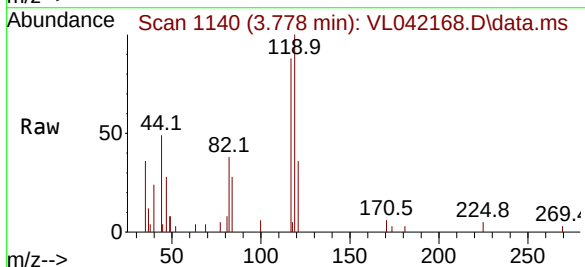
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

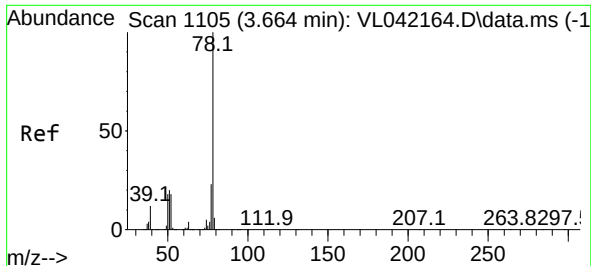
Tgt Ion: 43 Resp: 3192
Ion Ratio Lower Upper
43 100
72 26.2 17.2 25.8#



#35
Carbon Tetrachloride
Concen: 0.054 ppbv
RT: 3.778 min Scan# 1140
Delta R.T. 0.007 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 117 Resp: 1525
Ion Ratio Lower Upper
117 100
119 108.6 77.5 116.3
121 35.5 24.5 36.7

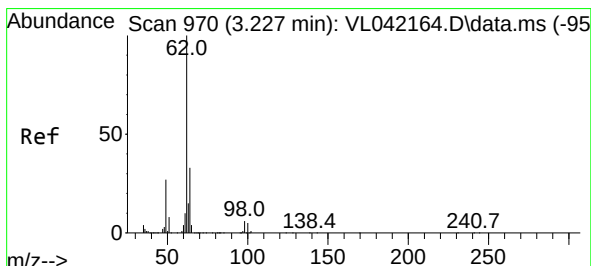
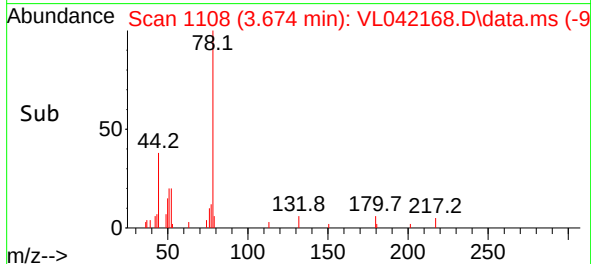
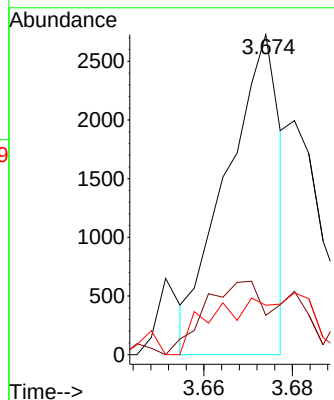
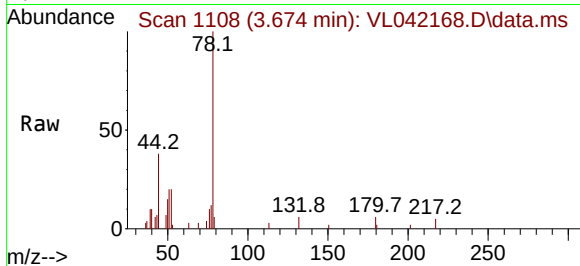




#36
Benzene
Concen: 0.053 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.010 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

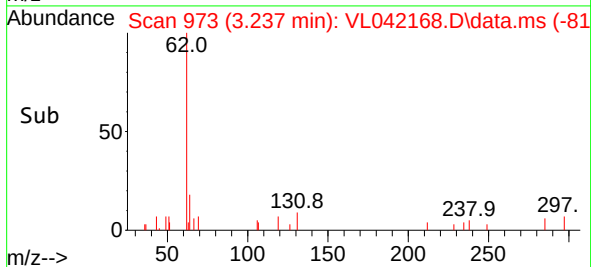
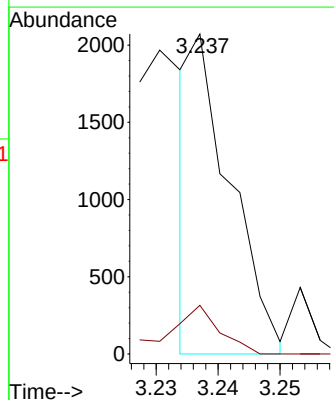
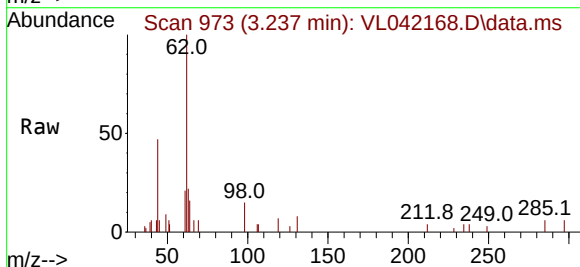
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.1

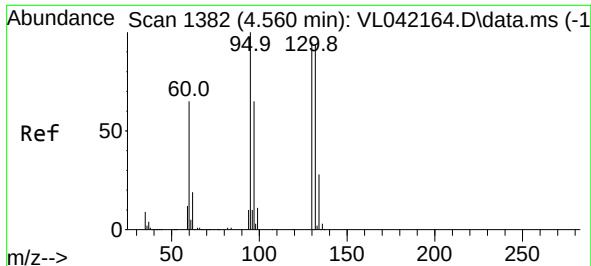
Tgt Ion: 78 Resp: 2288
Ion Ratio Lower Upper
78 100
77 8.7 18.4 27.6#
50 42.2 14.2 21.4#



#37
1,2-Dichloroethane
Concen: 0.039 ppbv
RT: 3.237 min Scan# 973
Delta R.T. 0.010 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 62 Resp: 920
Ion Ratio Lower Upper
62 100
98 20.4 5.4 8.0#





#38

Trichloroethene

Concen: 0.054 ppbv

RT: 4.571 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion:130 Resp: 941

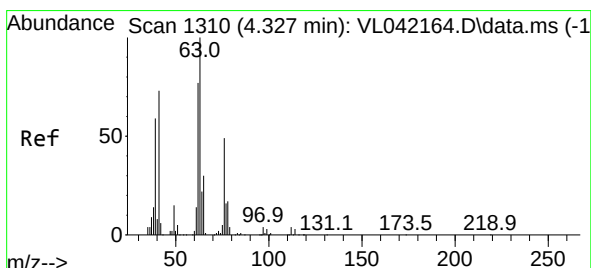
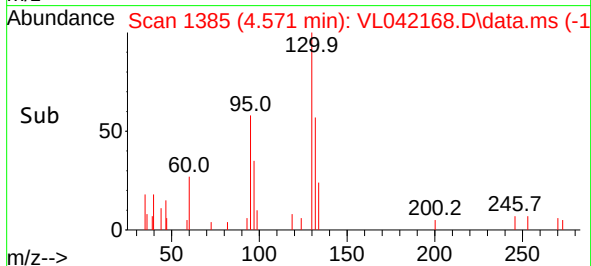
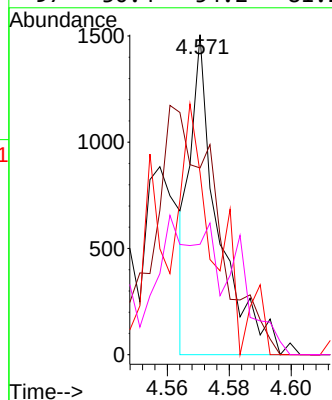
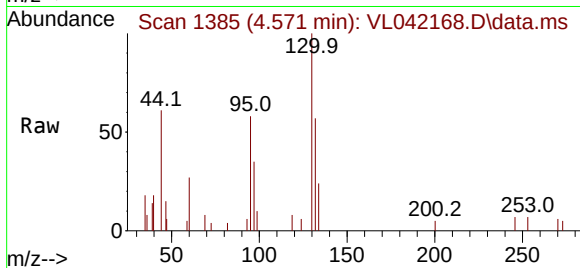
Ion Ratio Lower Upper

130 100

95 58.4 84.1 126.1#

132 56.8 79.0 118.6#

97 30.4 54.2 81.2#



#39

1,2-Dichloropropane

Concen: 6.254 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.352 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

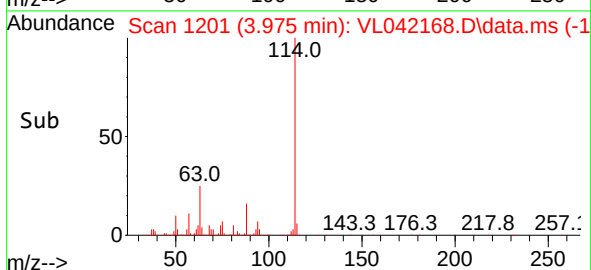
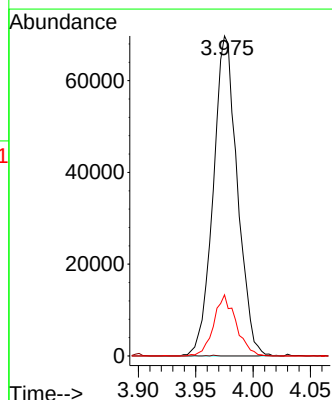
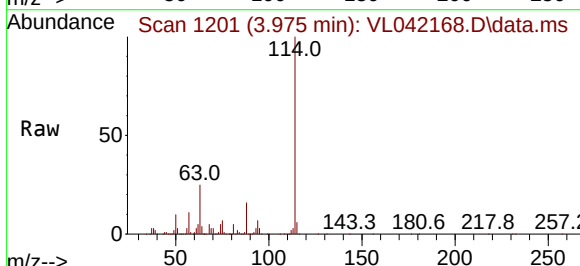
Tgt Ion: 63 Resp: 102216

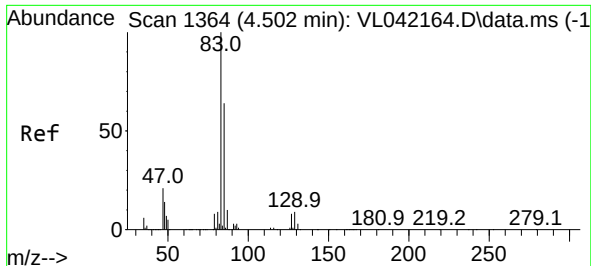
Ion Ratio Lower Upper

63 100

41 0.0 58.8 88.2#

62 19.1 61.3 91.9#

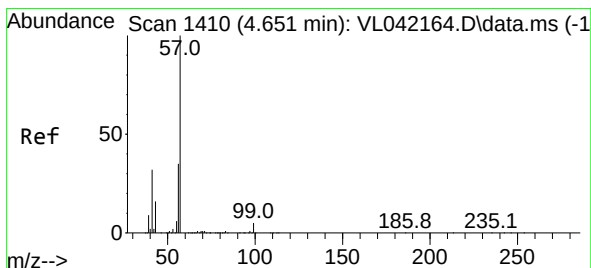
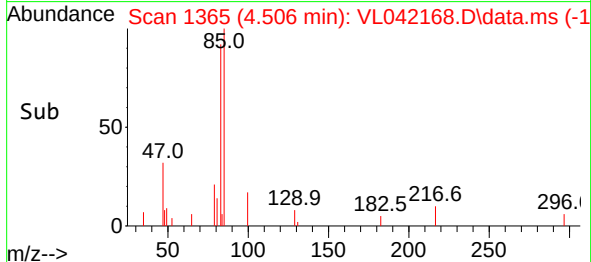
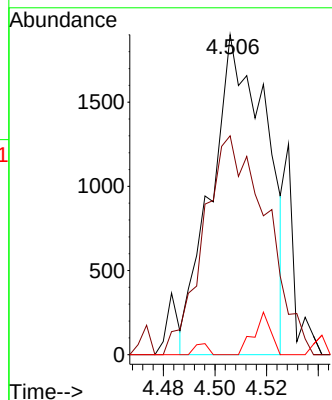
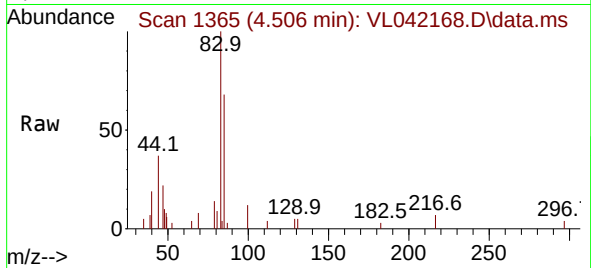




#42
Bromodichloromethane
Concen: 0.088 ppbv
RT: 4.506 min Scan# 1412
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

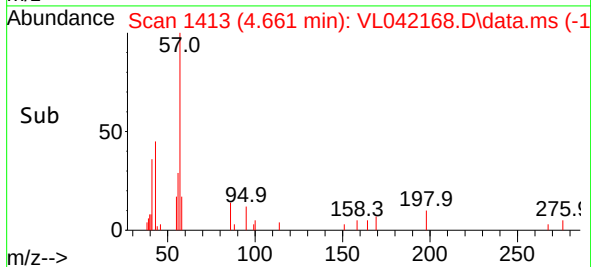
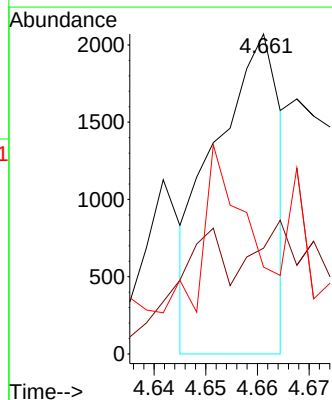
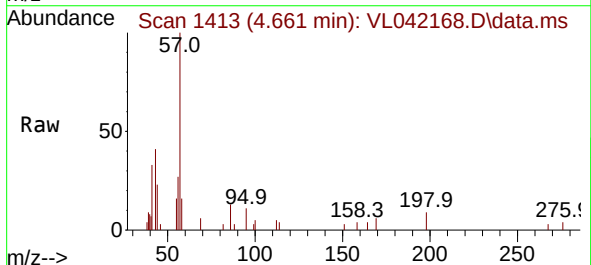
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

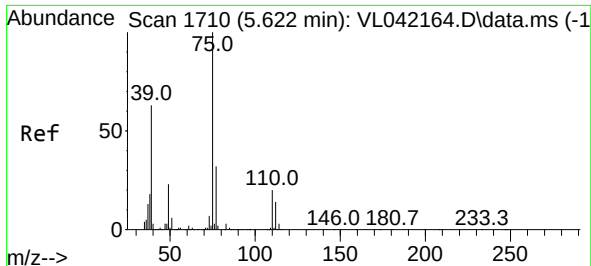
Tgt Ion: 83 Resp: 2821
Ion Ratio Lower Upper
83 100
85 62.6 51.0 76.4
127 0.0 6.6 9.8#



#44
2,2,4-Trimethylpentane
Concen: 0.024 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. 0.010 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 57 Resp: 1838
Ion Ratio Lower Upper
57 100
41 0.0 25.8 38.8#
56 0.0 27.4 41.0#

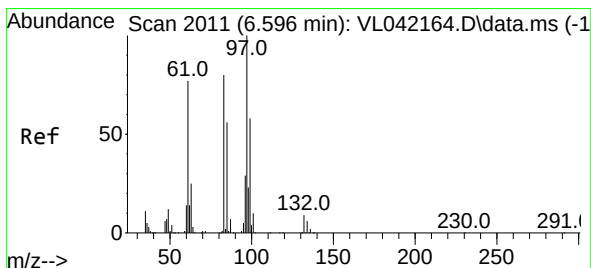
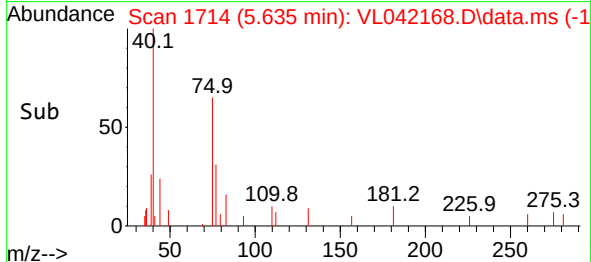
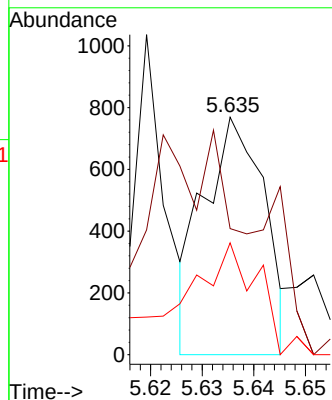
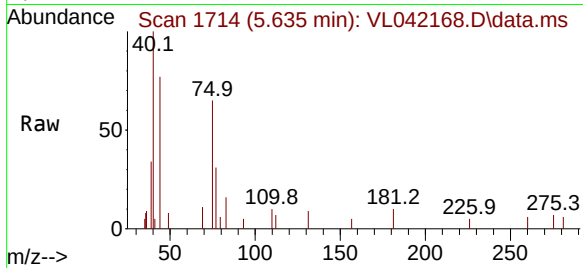




#46
 cis-1,3-Dichloropropene
 Concen: 0.030 ppbv
 RT: 5.635 min Scan# 11
 Delta R.T. 0.013 min
 Lab File: VL042168.D
 Acq: 25 Mar 2025 11:02

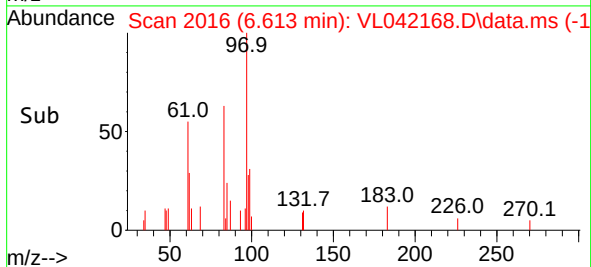
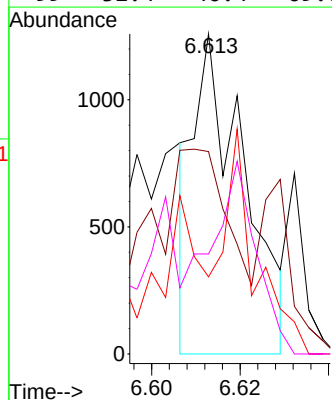
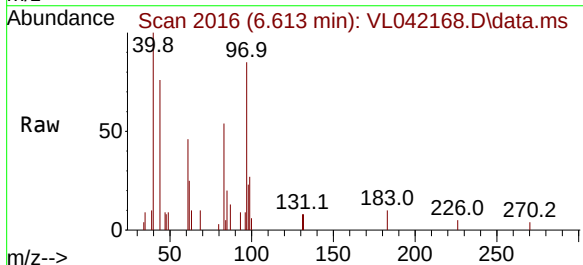
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

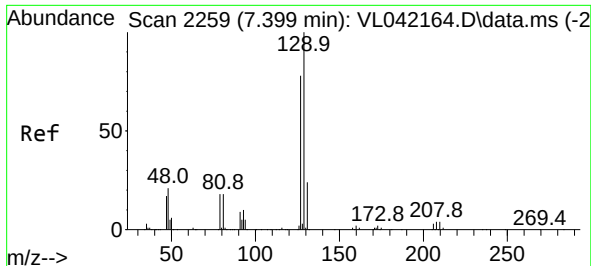
Tgt Ion: 75 Resp: 626
 Ion Ratio Lower Upper
 75 100
 39 0.0 50.4 75.6#
 77 65.2 25.8 38.8#



#47
 1,1,2-Trichloroethane
 Concen: 0.059 ppbv
 RT: 6.613 min Scan# 2016
 Delta R.T. 0.017 min
 Lab File: VL042168.D
 Acq: 25 Mar 2025 11:02

Tgt Ion: 97 Resp: 992
 Ion Ratio Lower Upper
 97 100
 83 11.7 64.2 96.4#
 85 13.5 44.5 66.7#
 99 32.4 46.4 69.6#

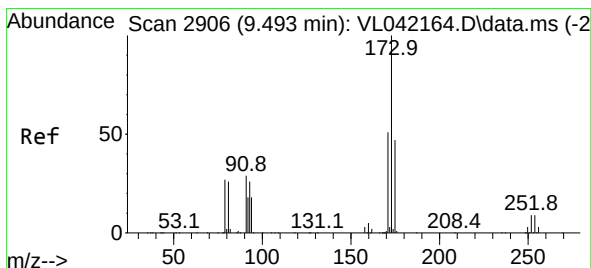
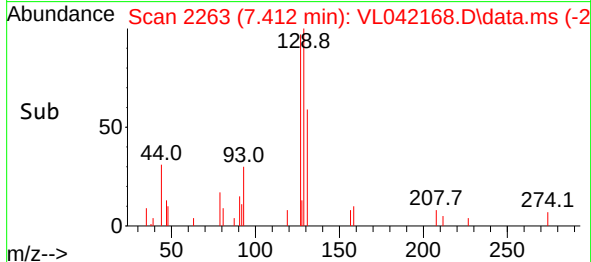
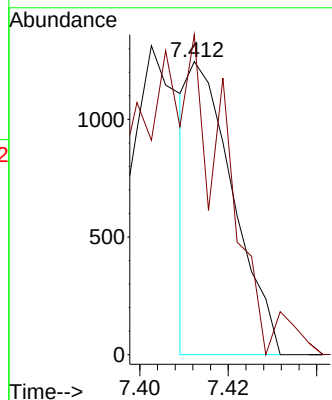
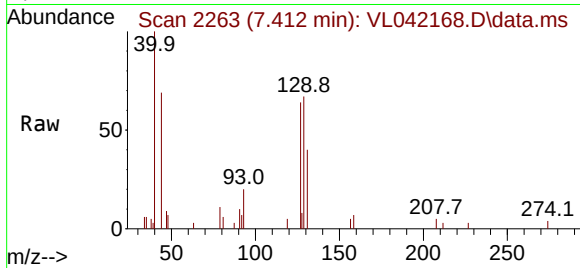




#48
 Dibromochloromethane
 Concen: 0.034 ppbv
 RT: 7.412 min Scan# 21
 Delta R.T. 0.013 min
 Lab File: VL042168.D
 Acq: 25 Mar 2025 11:02

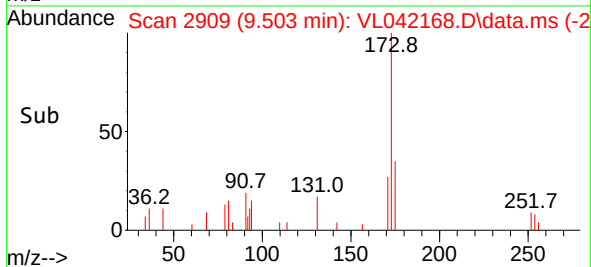
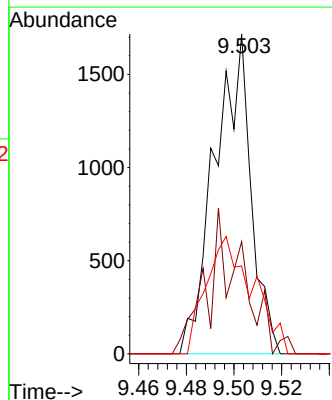
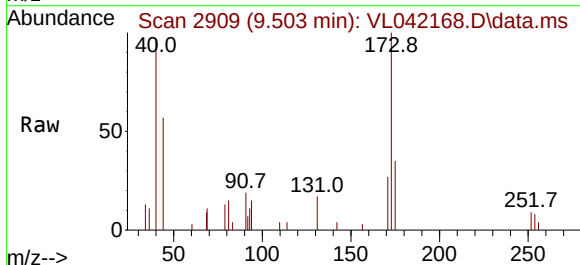
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

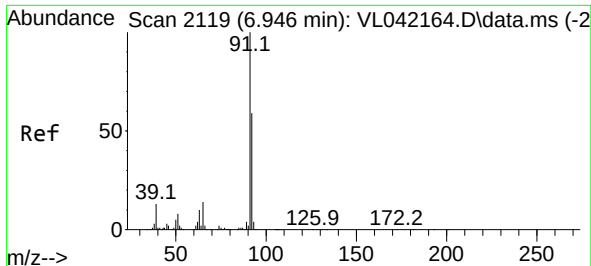
Tgt Ion:129 Resp: 871
 Ion Ratio Lower Upper
 129 100
 127 238.0 38.7 116.1#



#49
 Bromoform
 Concen: 0.080 ppbv
 RT: 9.503 min Scan# 2909
 Delta R.T. 0.010 min
 Lab File: VL042168.D
 Acq: 25 Mar 2025 11:02

Tgt Ion:173 Resp: 1814
 Ion Ratio Lower Upper
 173 100
 175 44.7 38.5 57.7
 171 47.2 41.1 61.7

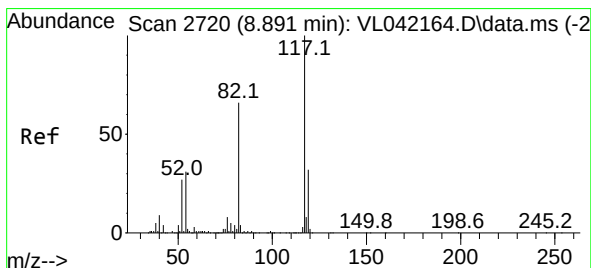
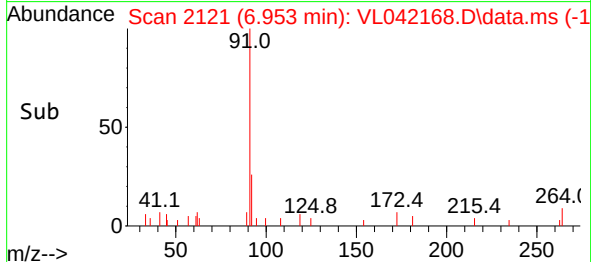
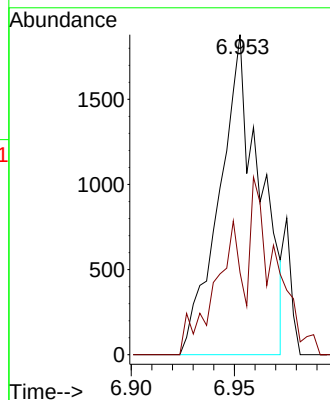
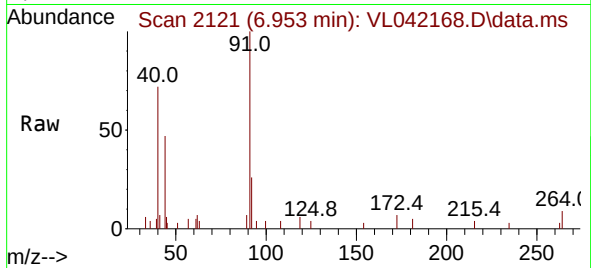




#53
Toluene
Concen: 0.054 ppbv
RT: 6.953 min Scan# 2119
Delta R.T. 0.007 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

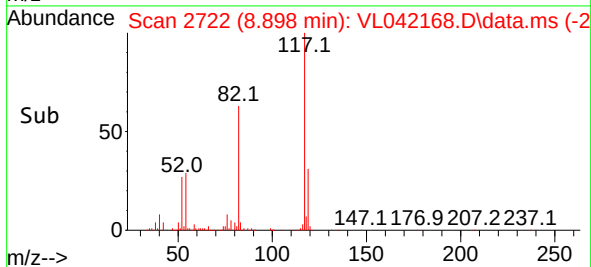
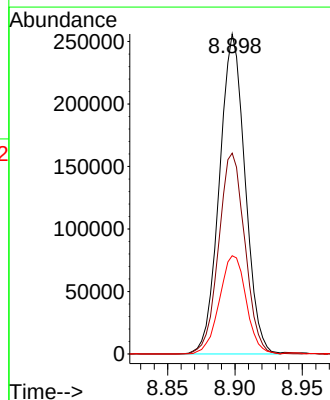
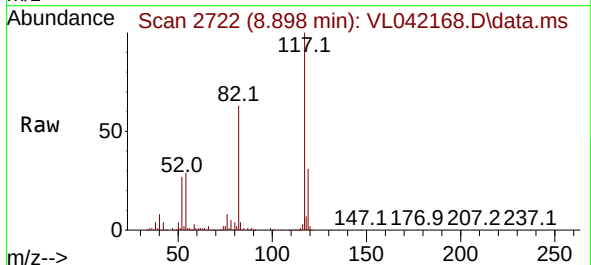
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

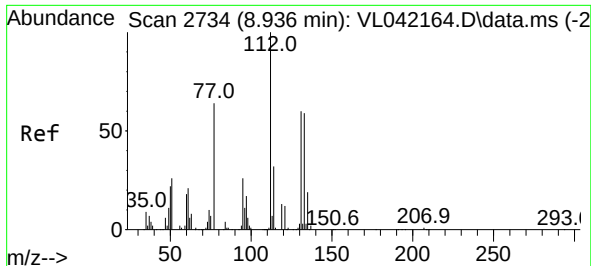
Tgt Ion: 91 Resp: 2563
Ion Ratio Lower Upper
91 100
92 62.2 49.0 73.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.007 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 117 Resp: 338792
Ion Ratio Lower Upper
117 100
82 64.3 54.2 81.4
119 32.4 25.4 38.2

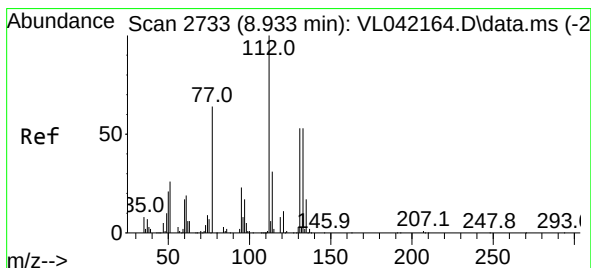
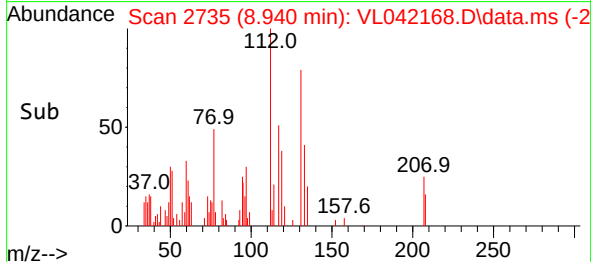
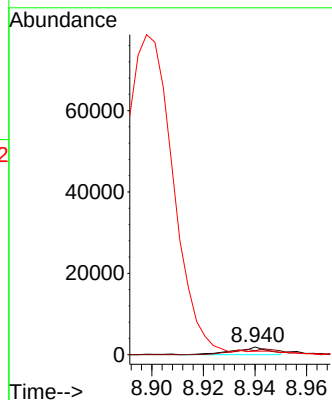
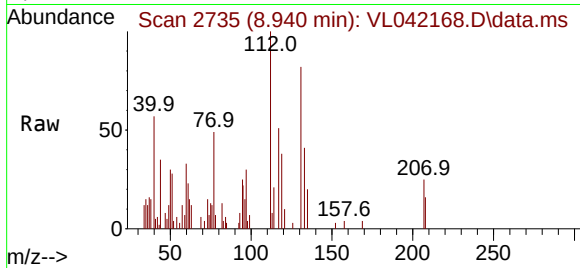




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.089 ppbv
 RT: 8.940 min Scan# 21
 Delta R.T. 0.004 min
 Lab File: VL042168.D
 Acq: 25 Mar 2025 11:02

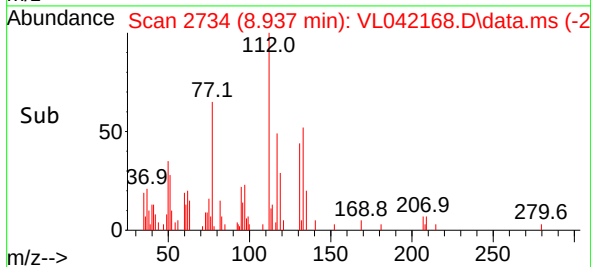
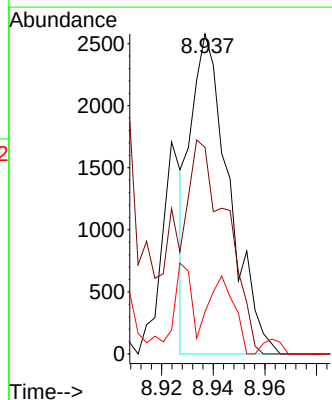
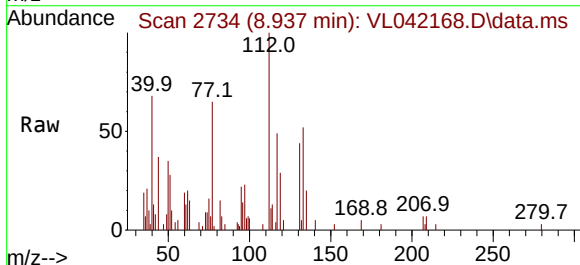
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

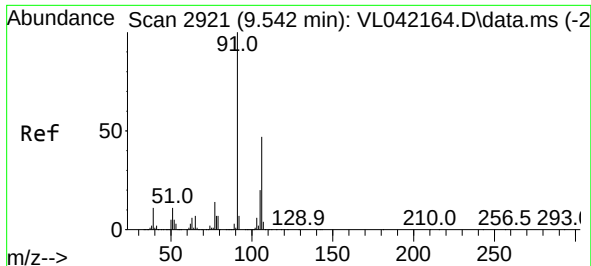
Tgt Ion:131 Resp: 1763
 Ion Ratio Lower Upper
 131 100
 133 110.2 74.7 112.1
 119 0.0 52.5 78.7#



#57
 Chlorobenzene
 Concen: 0.075 ppbv
 RT: 8.937 min Scan# 2734
 Delta R.T. 0.004 min
 Lab File: VL042168.D
 Acq: 25 Mar 2025 11:02

Tgt Ion:112 Resp: 2684
 Ion Ratio Lower Upper
 112 100
 77 64.5 51.7 77.5
 114 9.5 28.2 34.4#





#59

m/p-Xylene

Concen: 0.033 ppbv

RT: 9.545 min Scan# 2921

Delta R.T. 0.004 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_1

ClientSampleId :

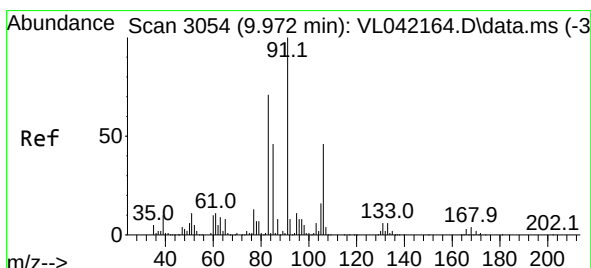
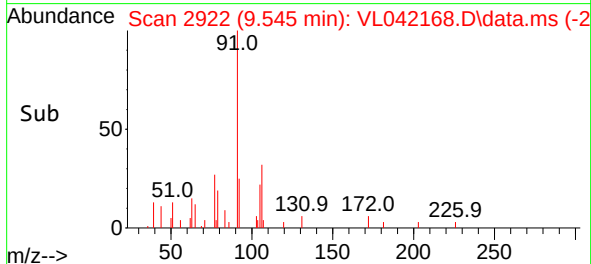
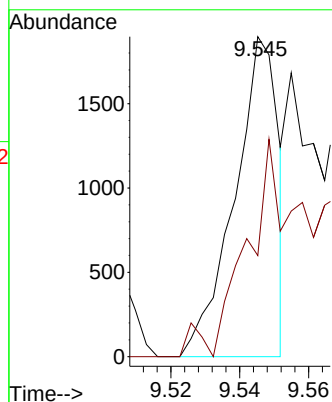
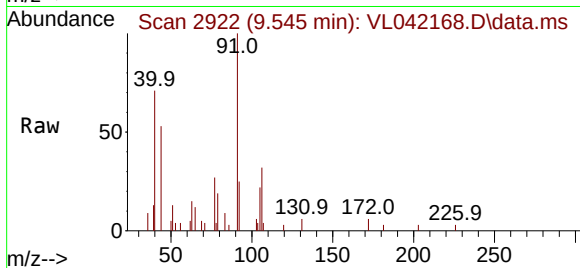
VSTDIC0.1

Tgt Ion: 91 Resp: 1679

Ion Ratio Lower Upper

91 100

106 134.4 0.0 0.0#



#60

o-Xylene

Concen: 0.024 ppbv

RT: 9.985 min Scan# 3058

Delta R.T. 0.013 min

Lab File: VL042168.D

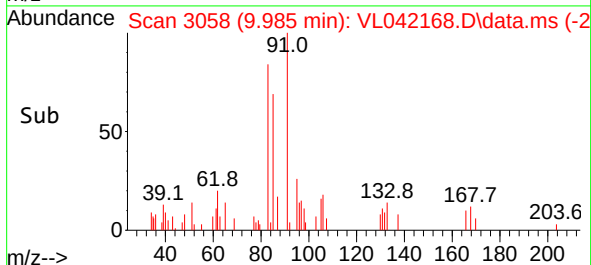
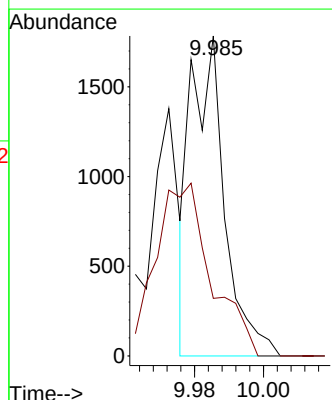
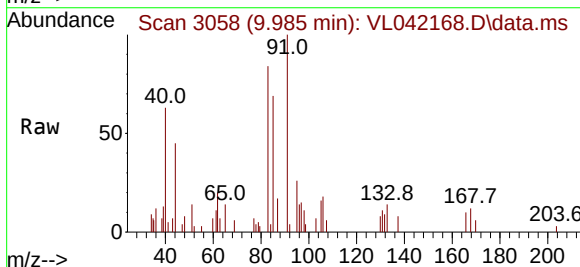
Acq: 25 Mar 2025 11:02

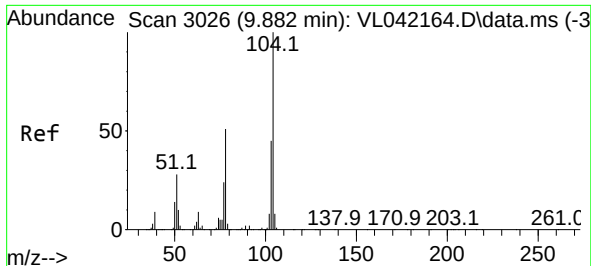
Tgt Ion: 91 Resp: 1204

Ion Ratio Lower Upper

91 100

106 96.1 22.7 68.0#

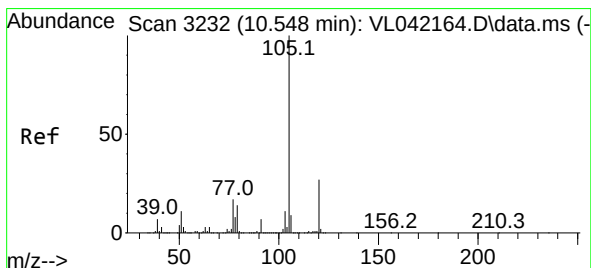
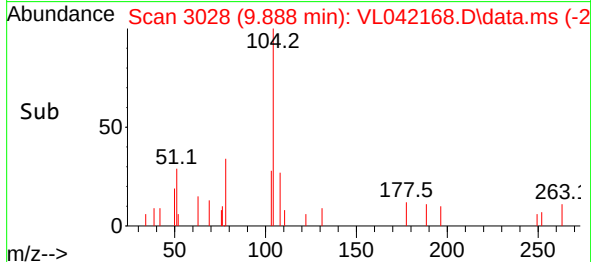
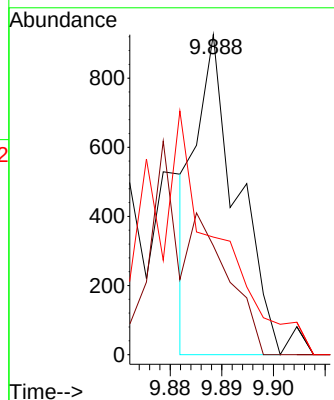
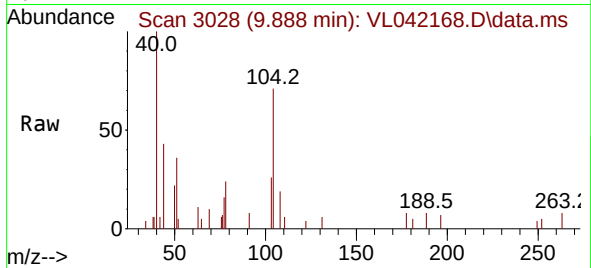




#61
Styrene
Concen: 0.022 ppbv
RT: 9.888 min Scan# 3026
Delta R.T. 0.007 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

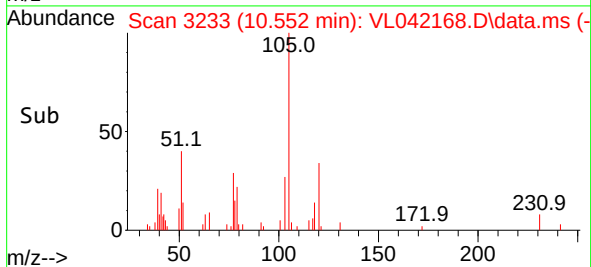
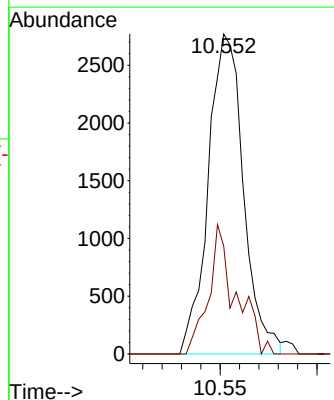
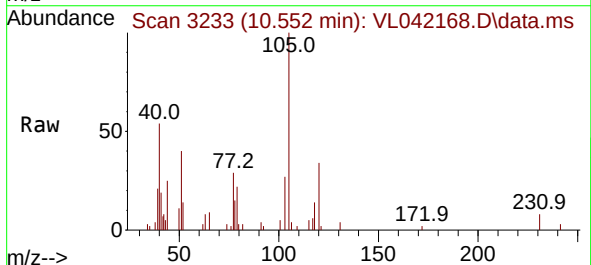
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

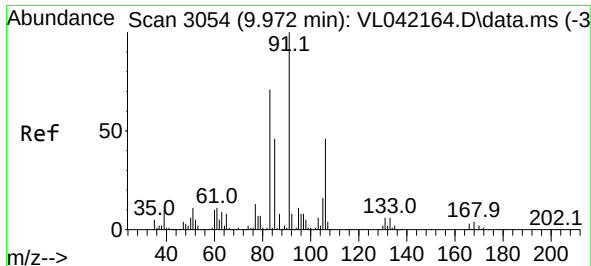
Tgt Ion:104 Resp: 510
Ion Ratio Lower Upper
104 100
78 0.0 39.7 59.5#
103 0.0 37.4 56.2#



#62
Isopropylbenzene
Concen: 0.046 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion:105 Resp: 3504
Ion Ratio Lower Upper
105 100
120 31.2 21.4 32.0

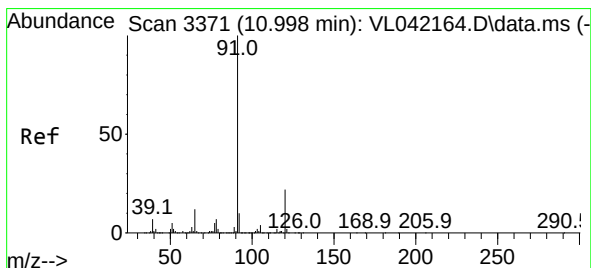
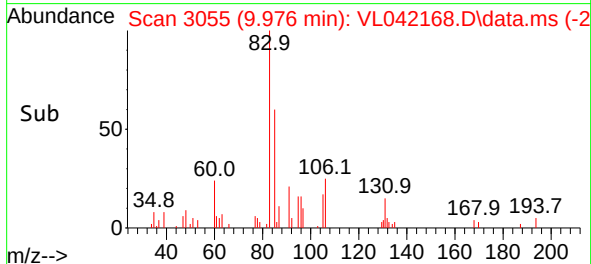
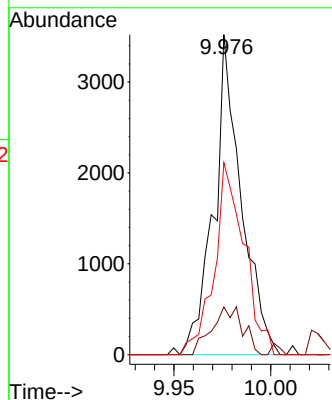
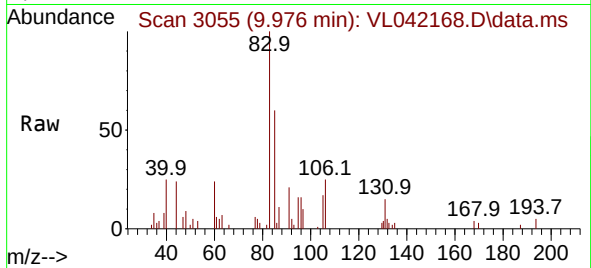




#63
1,1,2,2-Tetrachloroethane
Concen: 0.102 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

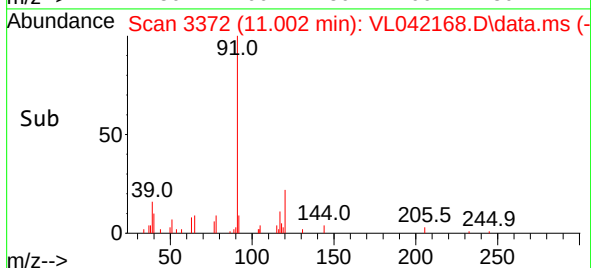
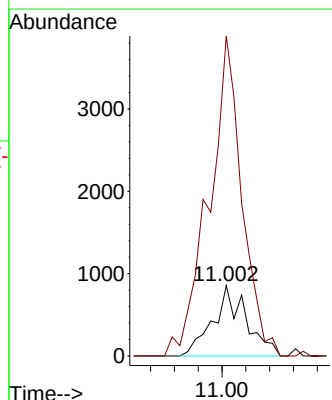
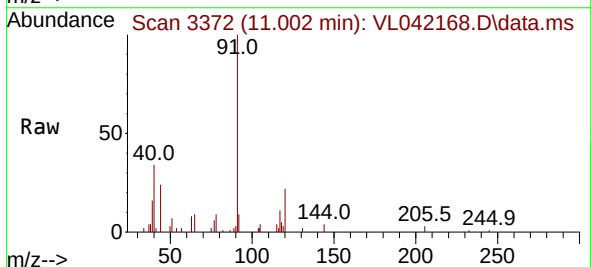
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

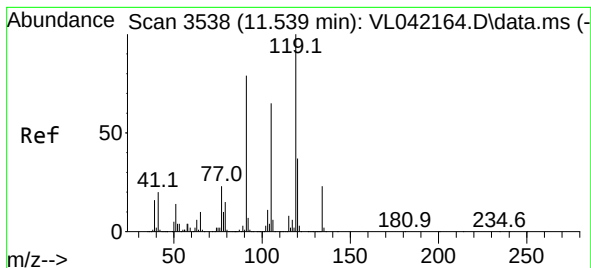
Tgt Ion: 83 Resp: 3461
Ion Ratio Lower Upper
83 100
131 18.1 4.5 13.5#
85 65.6 32.3 96.9



#64
n-propylbenzene
Concen: 0.041 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 120 Resp: 827
Ion Ratio Lower Upper
120 100
91 454.1 369.8 554.8





#65

tert-Butylbenzene

Concen: 0.034 ppbv

RT: 11.546 min Scan# 3540

Delta R.T. 0.007 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

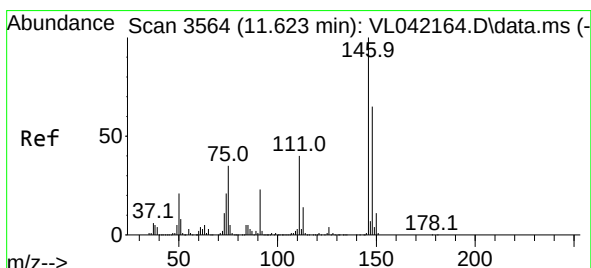
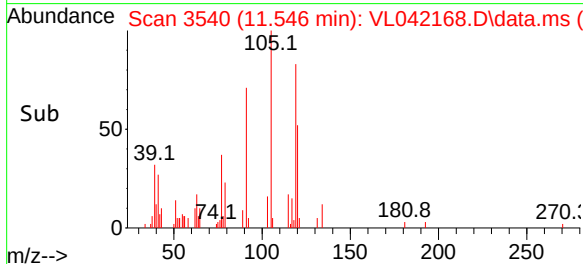
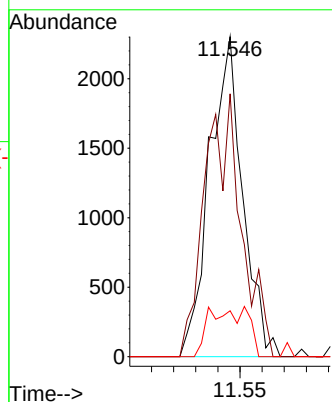
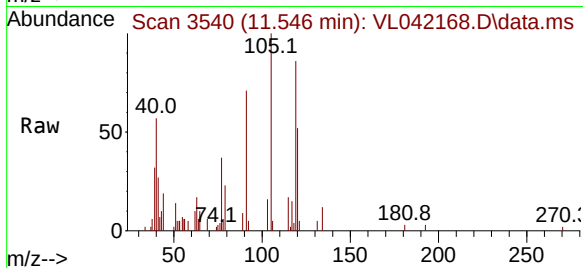
Tgt Ion:119 Resp: 2401

Ion Ratio Lower Upper

119 100

91 90.5 63.5 95.3

134 18.7 17.4 26.2



#66

Benzyl Chloride

Concen: 0.037 ppbv

RT: 11.636 min Scan# 3568

Delta R.T. 0.013 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

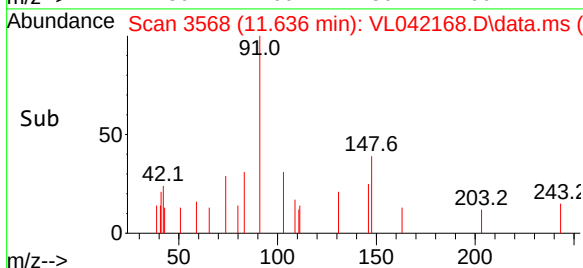
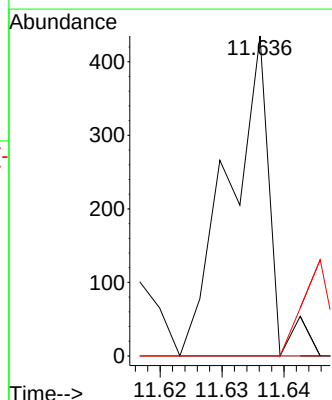
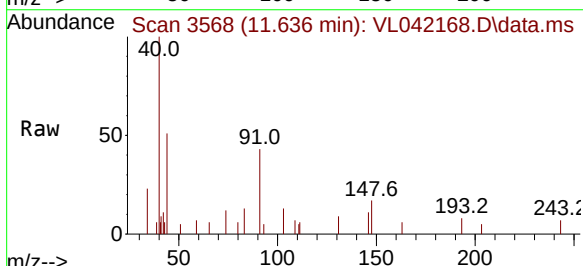
Tgt Ion: 91 Resp: 191

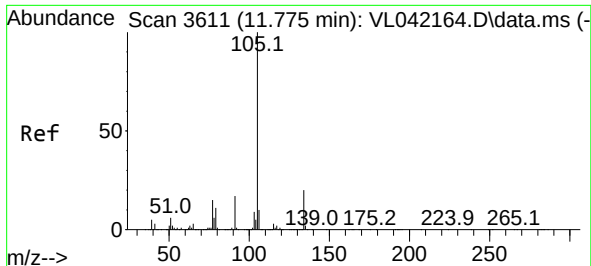
Ion Ratio Lower Upper

91 100

126 0.0 15.0 22.6#

128 19.9 4.6 7.0#





#67

sec-Butylbenzene

Concen: 0.028 ppbv

RT: 11.549 min Scan# 3183

Delta R.T. -0.226 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_1

ClientSampleId :

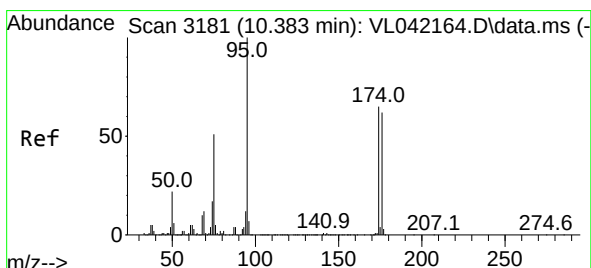
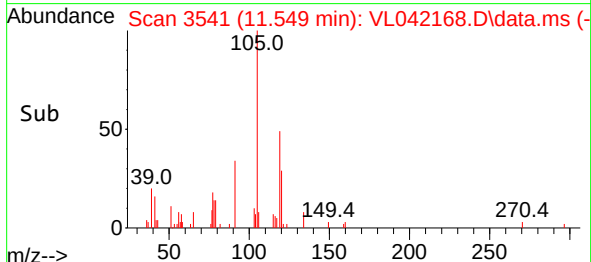
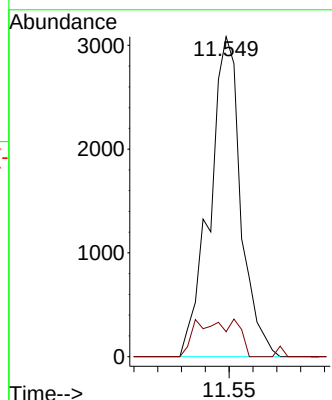
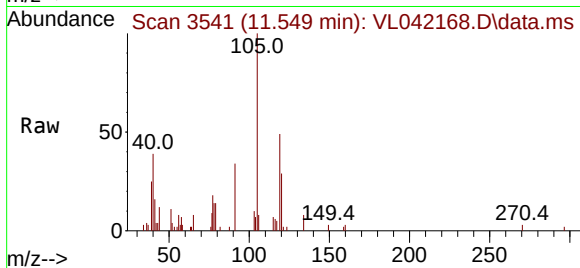
VSTDIC0.1

Tgt Ion:105 Resp: 2794

Ion Ratio Lower Upper

105 100

134 16.1 15.4 23.2



#68

1-Bromo-4-Fluorobenzene

Concen: 10.036 ppbv

RT: 10.390 min Scan# 3183

Delta R.T. 0.007 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

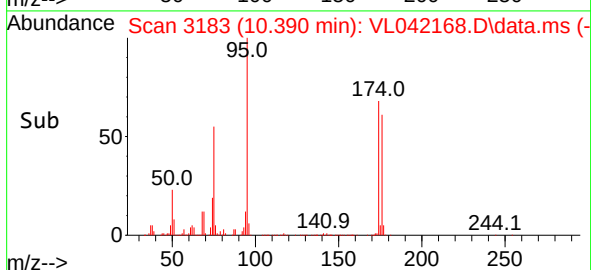
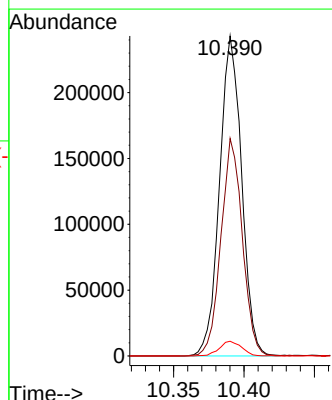
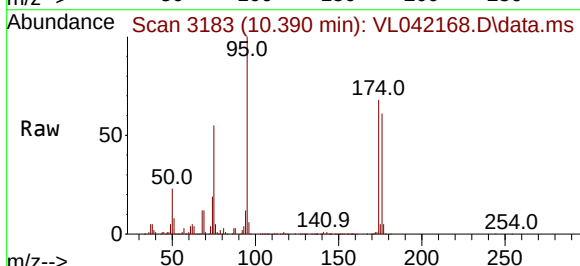
Tgt Ion: 95 Resp: 265716

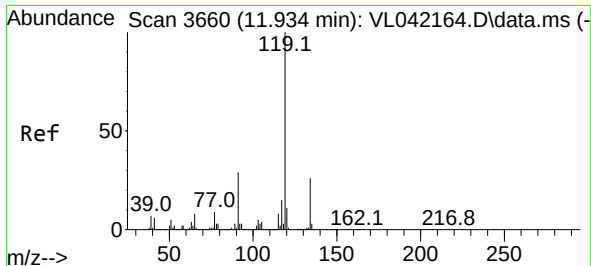
Ion Ratio Lower Upper

95 100

174 66.1 53.5 80.3

175 4.6 3.8 5.8

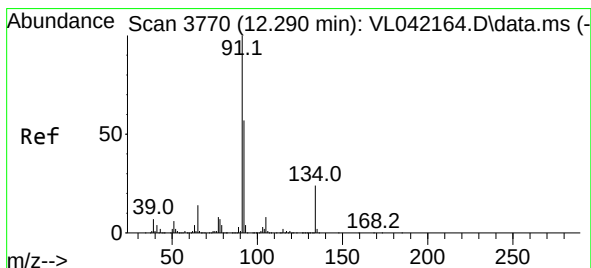
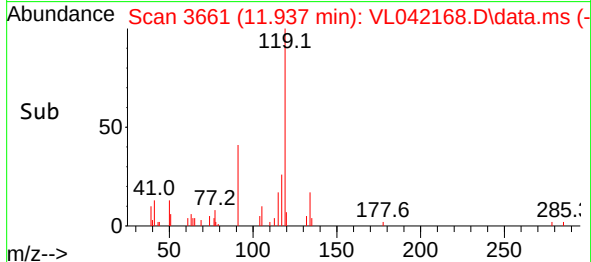
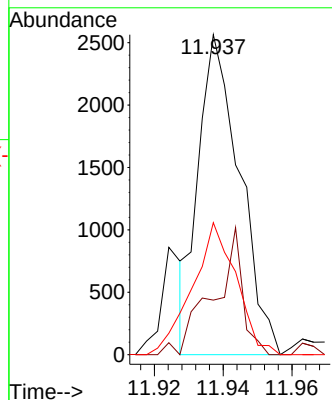
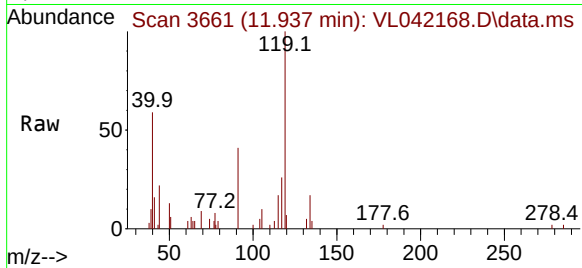




#69
p-Isopropyltoluene
Concen: 0.027 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

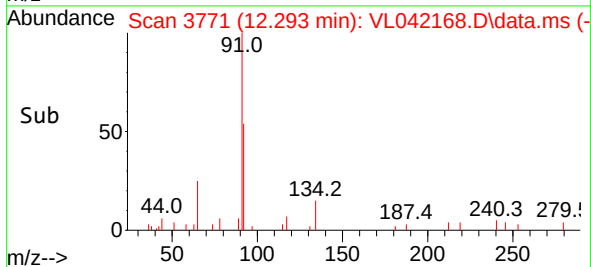
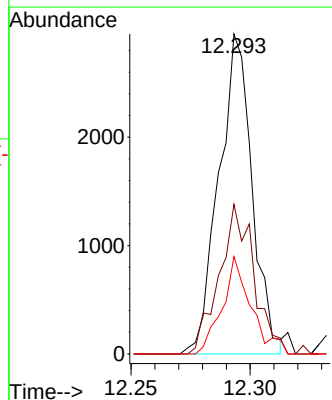
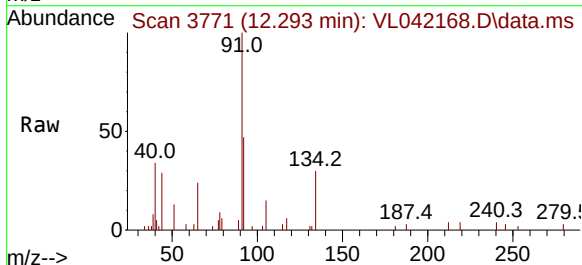
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

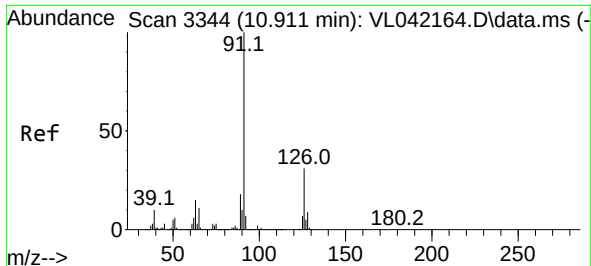
Tgt Ion:	119	Resp:	2134
Ion	Ratio	Lower	Upper
119	100		
134	29.8	21.3	31.9
91	45.0	22.4	33.6



#70
n-Butylbenzene
Concen: 0.035 ppbv
RT: 12.293 min Scan# 3771
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion:	91	Resp:	2859
Ion	Ratio	Lower	Upper
91	100		
92	49.4	44.5	66.7
134	26.4	19.1	28.7

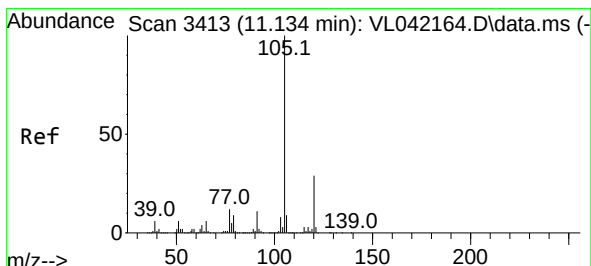
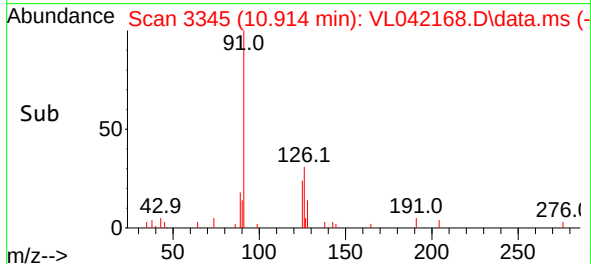
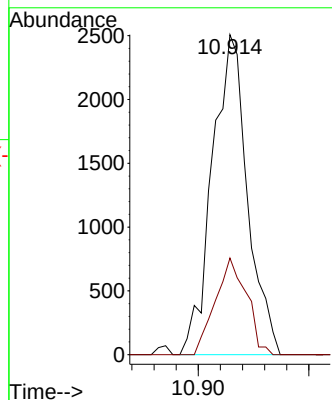
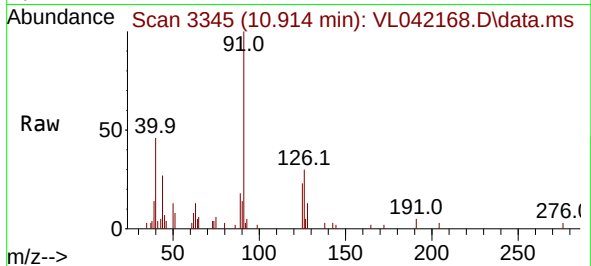




#71
2-Chlorotoluene
Concen: 0.047 ppbv
RT: 10.914 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

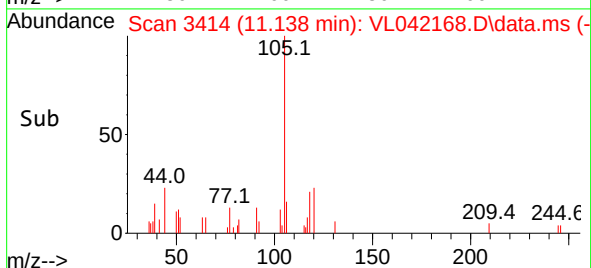
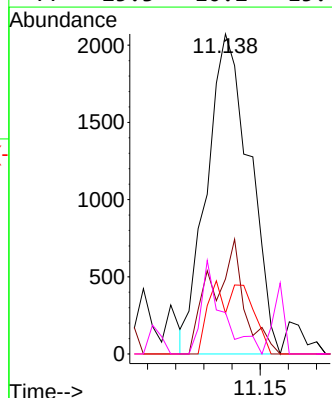
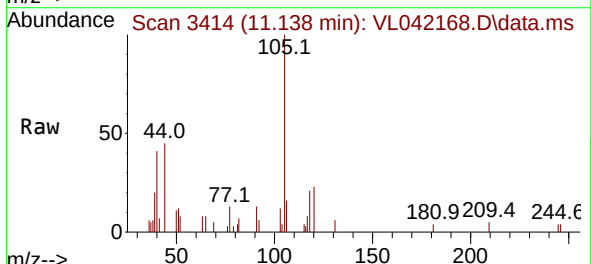
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

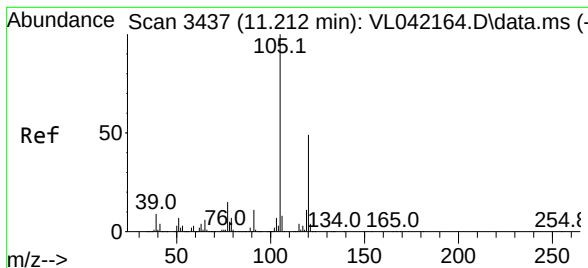
Tgt Ion: 91 Resp: 2775
Ion Ratio Lower Upper
91 100
126 26.8 12.3 49.1



#72
4-Ethyltoluene
Concen: 0.035 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion: 105 Resp: 2190
Ion Ratio Lower Upper
105 100
120 27.0 24.2 36.2
91 21.1 9.8 14.8#
77 25.3 10.2 15.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.024 ppbv

RT: 11.219 min Scan# 3437

Delta R.T. 0.007 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_1

ClientSampleId :

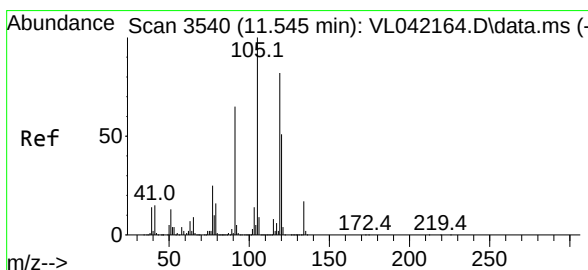
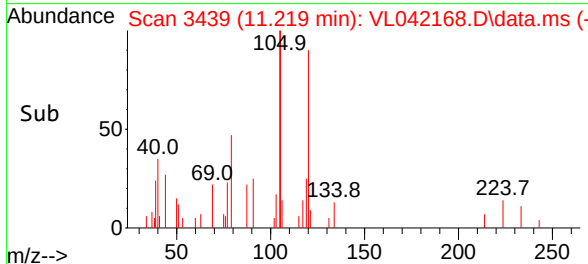
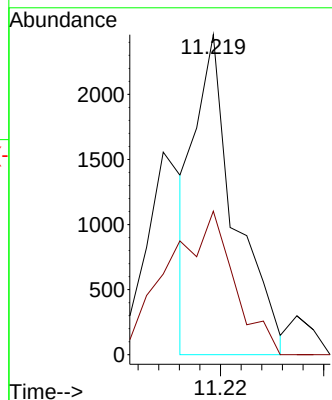
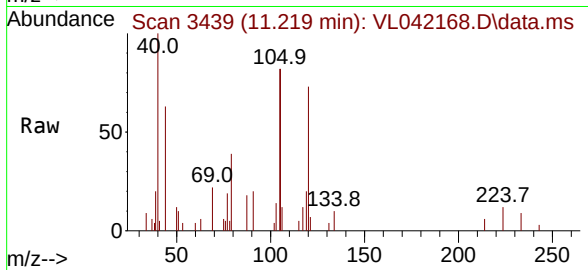
VSTDIC0.1

Tgt Ion:105 Resp: 1321

Ion Ratio Lower Upper

105 100

120 47.7 39.2 58.8



#74

1,2,4-Trimethylbenzene

Concen: 0.045 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.004 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Tgt Ion:105 Resp: 2794

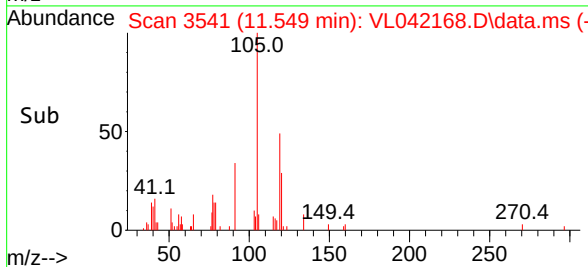
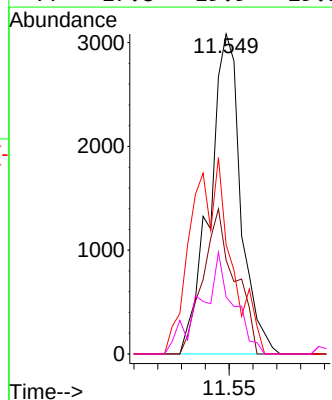
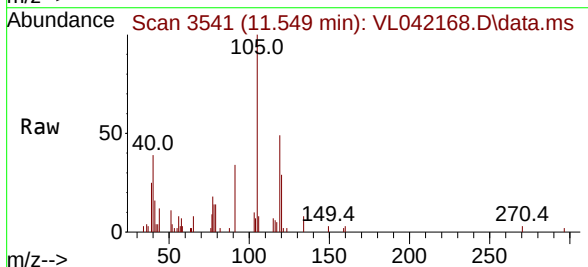
Ion Ratio Lower Upper

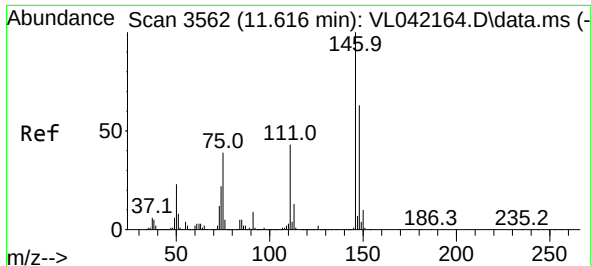
105 100

120 29.3 40.9 61.3#

91 34.1 52.6 79.0#

77 17.8 19.9 29.9#

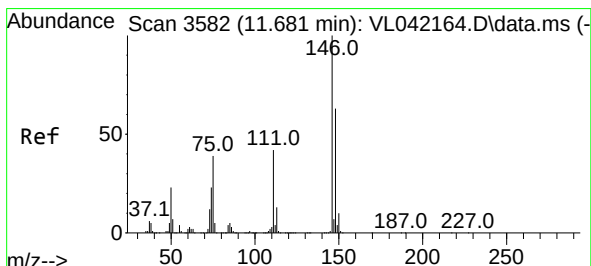
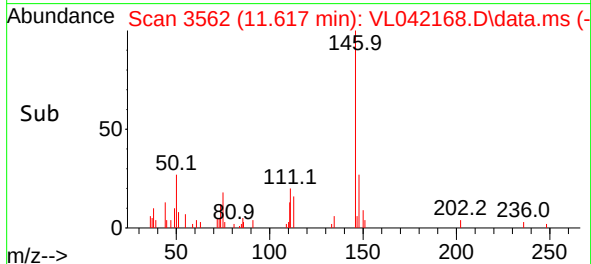
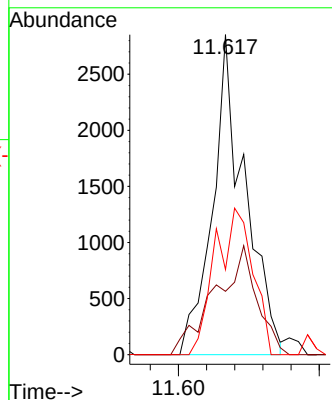
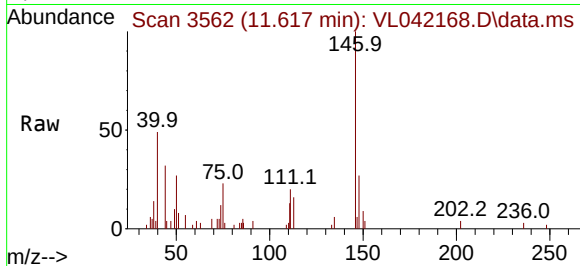




#75
1,3-Dichlorobenzene
Concen: 0.063 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

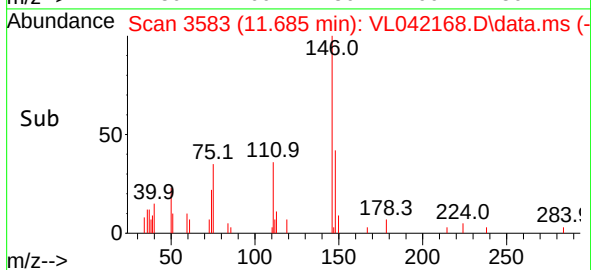
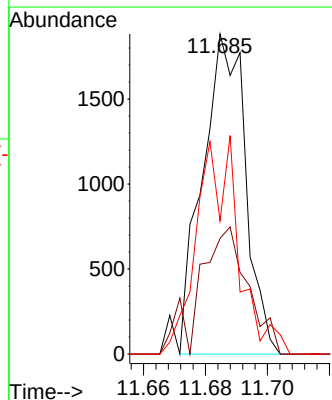
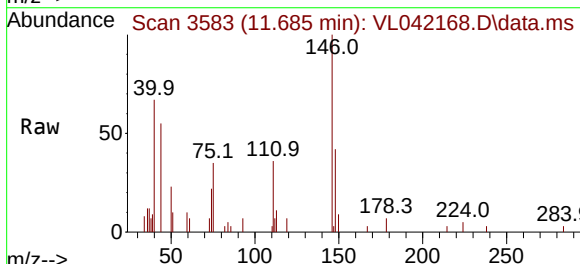
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

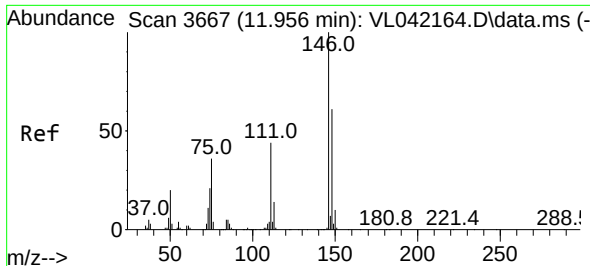
Tgt Ion:	146	Resp:	2268
Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.9	65.8
148	55.5	31.7	95.1



#76
1,4-Dichlorobenzene
Concen: 0.051 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. 0.004 min
Lab File: VL042168.D
Acq: 25 Mar 2025 11:02

Tgt Ion:	146	Resp:	1816
Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.3	64.0
148	64.3	31.8	95.3

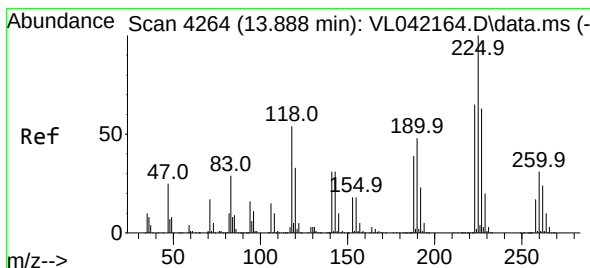
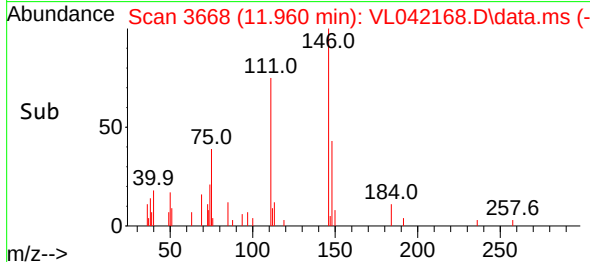
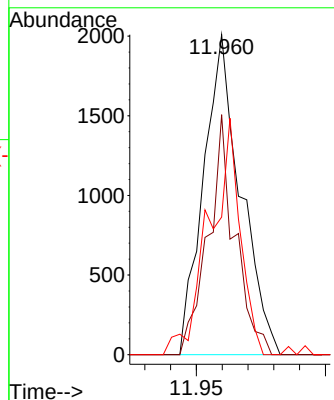
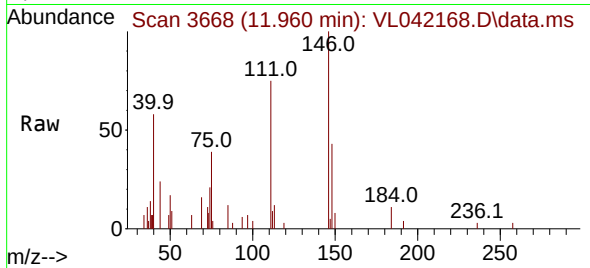




#77
 1,2-Dichlorobenzene
 Concen: 0.057 ppbv
 RT: 11.960 min Scan# 30
 Delta R.T. 0.004 min
 Lab File: VL042168.D
 Acq: 25 Mar 2025 11:02

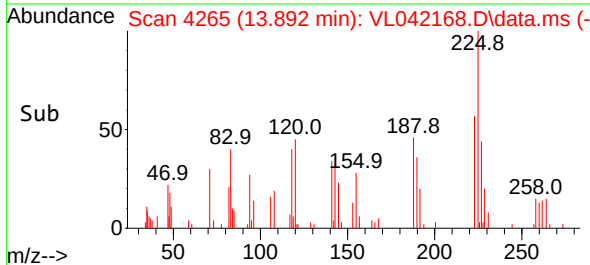
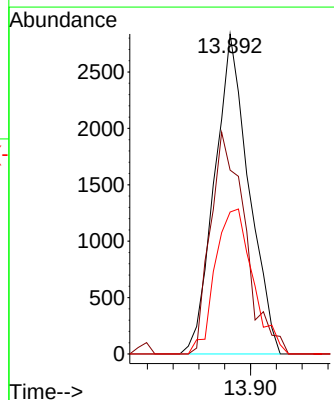
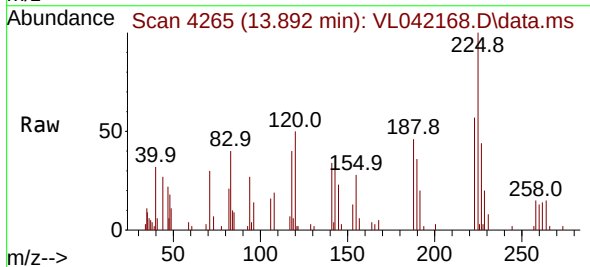
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

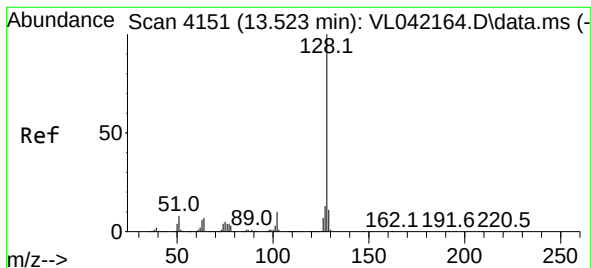
Tgt Ion:	146	Resp:	2013
Ion Ratio	Lower	Upper	
146	100		
111	53.8	23.1	69.3
148	61.0	31.6	94.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.094 ppbv
 RT: 13.892 min Scan# 4265
 Delta R.T. 0.004 min
 Lab File: VL042168.D
 Acq: 25 Mar 2025 11:02

Tgt Ion:	225	Resp:	2612
Ion Ratio	Lower	Upper	
225	100		
223	71.2	51.1	76.7
227	49.7	50.6	76.0#





#79

Naphthalene

Concen: 0.033 ppbv

RT: 13.523 min Scan# 4151

Delta R.T. 0.000 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

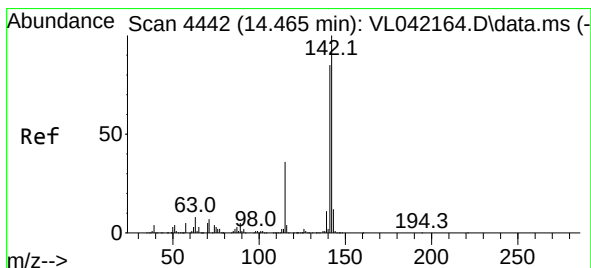
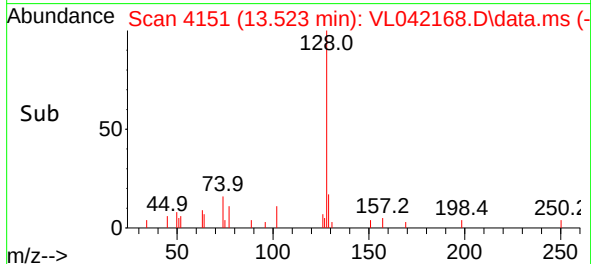
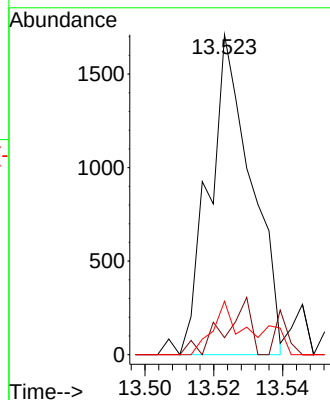
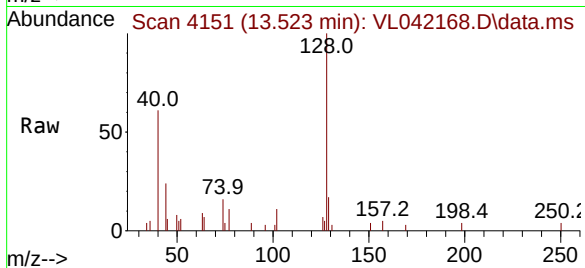
Tgt Ion:128 Resp: 1465

Ion Ratio Lower Upper

128 100

127 5.3 10.6 16.0#

129 16.7 8.7 13.1#



#80

Naphthalene,2-methyl-

Concen: 0.039 ppbv

RT: 14.475 min Scan# 4445

Delta R.T. 0.010 min

Lab File: VL042168.D

Acq: 25 Mar 2025 11:02

Tgt Ion:142 Resp: 522

Ion Ratio Lower Upper

142 100

141 77.0 66.7 100.1

115 29.9 29.0 43.4

