

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041951.D
 Acq On : 27 Jan 2025 14:37
 Operator : SY/MD
 Sample : Q1168-13 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 28 02:37:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	140568	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	382409	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	330936	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	251323	9.642	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	2172	0.113	ppbv	98
3) Chlorodifluoromethane	1.483	51	2035	0.101	ppbv	92
4) Chloromethane	1.538	50	1002	0.139	ppbv	97
5) Vinyl Chloride	1.586	62	827	0.113	ppbv #	68
6) Bromomethane	1.673	94	593	0.171	ppbv	93
7) Chloroethane	1.709	64	294	0.104	ppbv	97
8) Dichlorotetrafluoroethane	1.560	85	1825	0.109	ppbv	99
9) Propene	1.489	41	1387	0.168	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.149	101	1750	0.112	ppbv	90
13) Ethanol	1.732	45	133	0.220	ppbv #	1
14) Bromoethene	1.790	108	554	0.097	ppbv #	52
15) Acetone	1.845	43	3332	0.197	ppbv	97
16) 1,3-Butadiene	1.615	39	831	0.110	ppbv	84
17) tert-Butyl alcohol	2.052	59	2115	0.102	ppbv #	89
18) 1,1-Dichloroethene	2.042	96	793	0.113	ppbv #	52
19) Isopropyl Alcohol	1.897	45	2077	0.207	ppbv #	37
20) Methylene Chloride	2.072	84	1754	0.263	ppbv #	80
21) Allyl Chloride	2.107	41	1719	0.147	ppbv #	69
22) trans-1,2-Dichloroethene	2.347	96	1075	0.135	ppbv #	68
23) Vinyl Acetate	2.476	43	485	0.058	ppbv #	2
24) 1,1-Dichloroethane	2.421	63	1981	0.129	ppbv #	87
25) Ethyl Acetate	2.858	43	3415	0.075	ppbv	96
26) Hexane	2.839	57	1404	0.078	ppbv #	63
27) Carbon Disulfide	2.162	76	1794	0.101	ppbv #	1
28) Methyl tert-Butyl Ether	2.454	73	1220	0.089	ppbv #	87
30) Cyclohexane	3.868	84	669	0.043	ppbv #	1
31) cis-1,2-Dichloroethene	2.732	61	2116	0.112	ppbv	98
32) 1,1,1-Trichloroethane	3.379	97	2566	0.094	ppbv #	89
34) 2-Butanone	2.573	43	3065	0.126	ppbv	97
35) Carbon Tetrachloride	3.784	117	3115	0.130	ppbv #	69
36) Benzene	3.674	78	2795	0.080	ppbv #	66
37) 1,2-Dichloroethane	3.237	62	1184	0.060	ppbv #	80
38) Trichloroethene	4.570	130	911	0.065	ppbv #	68
39) 1,2-Dichloropropane	4.331	63	987	0.080	ppbv #	43
40) 1,4-Dioxane	4.648	88	256	0.041	ppbv #	11
41) Tetrahydrofuran	3.088	42	1507	0.114	ppbv #	80
43) Methyl Methacrylate	4.904	69	394	0.030	ppbv #	1
44) 2,2,4-Trimethylpentane	4.658	57	2562	0.045	ppbv #	20
45) t-1,3-Dichloropropene	6.448	75	488	0.040	ppbv #	74
47) 1,1,2-Trichloroethane	6.600	97	514	0.039	ppbv #	58
48) Dibromochloromethane	7.409	129	1690	0.084	ppbv	61
49) Bromoform	9.503	173	1299	0.079	ppbv #	75
51) 2-Hexanone	7.480	43	1486	0.058	ppbv #	94

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 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
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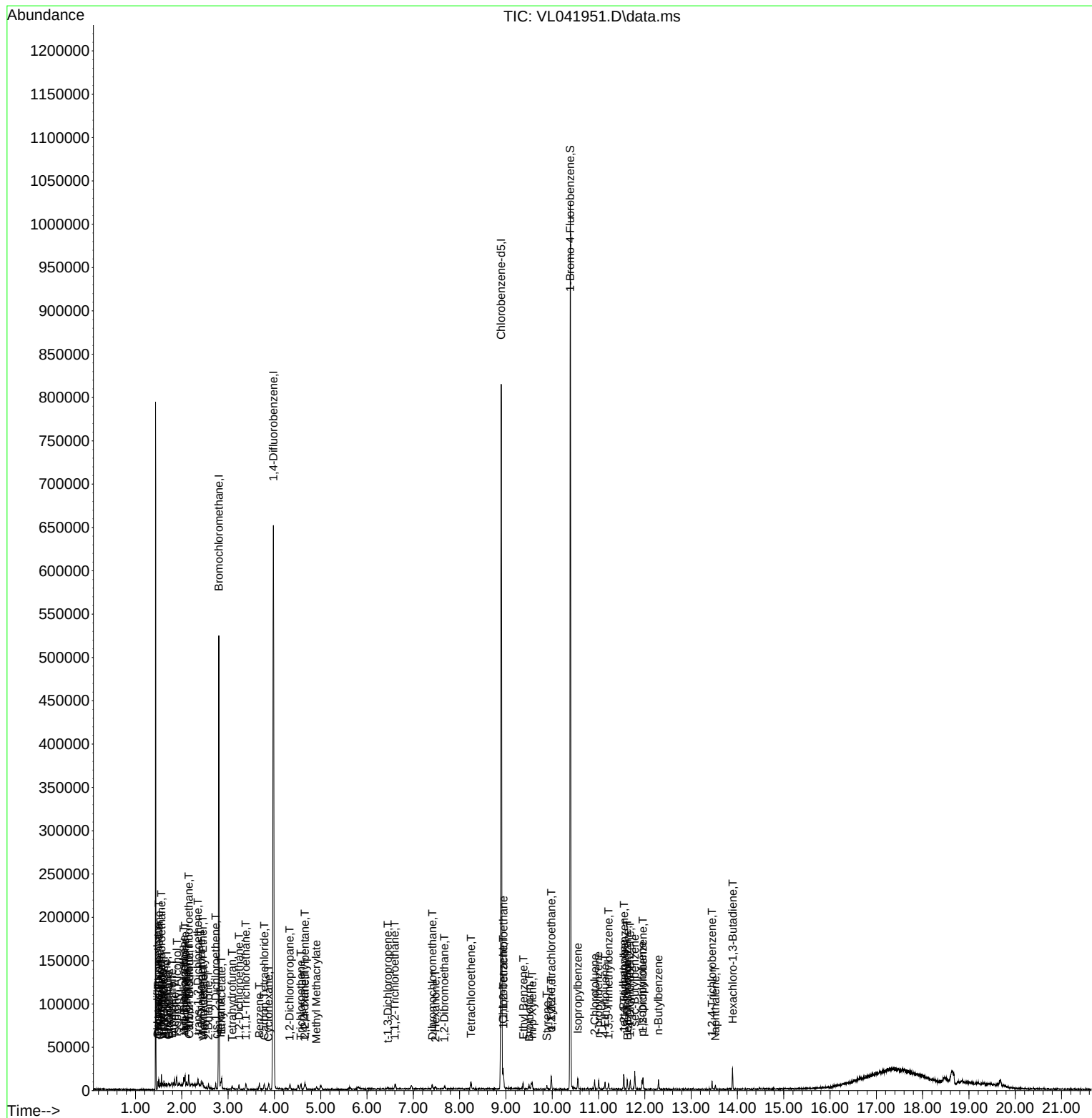
Quant Time: Jan 28 02:37:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

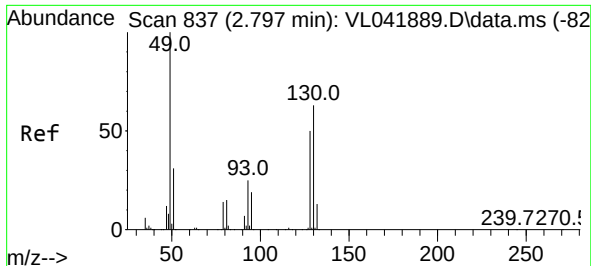
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
52) Tetrachloroethene	8.244	164	438	0.036	ppbv	#	60
54) 1,2-Dibromoethane	7.668	107	619	0.035	ppbv	#	47
56) 1,1,1,2-Tetrachloroethane	8.946	131	821	0.050	ppbv	#	1
57) Chlorobenzene	8.940	112	2158	0.071	ppbv	#	68
58) Ethyl Benzene	9.377	91	3517	0.068	ppbv		93
59) m/p-Xylene	9.568	91	2502	0.060	ppbv	#	11
60) o-Xylene	9.975	91	1957	0.048	ppbv		76
61) Styrene	9.885	104	840	0.046	ppbv	#	67
62) Isopropylbenzene	10.552	105	5233	0.082	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.979	83	3007	0.114	ppbv		97
64) n-propylbenzene	10.998	120	964	0.060	ppbv		85
65) tert-Butylbenzene	11.542	119	2876	0.050	ppbv		98
66) Benzyl Chloride	11.629	91	316	0.088	ppbv	#	77
67) sec-Butylbenzene	11.781	105	4891	0.061	ppbv		98
69) p-Isopropyltoluene	11.943	119	3580	0.054	ppbv		92
70) n-Butylbenzene	12.293	91	3251	0.050	ppbv		94
71) 2-Chlorotoluene	10.917	91	3509	0.075	ppbv		96
72) 4-Ethyltoluene	11.141	105	2593	0.053	ppbv	#	81
73) 1,3,5-Trimethylbenzene	11.215	105	1953	0.045	ppbv	#	80
74) 1,2,4-Trimethylbenzene	11.552	105	2662	0.057	ppbv	#	75
75) 1,3-Dichlorobenzene	11.620	146	2724	0.098	ppbv		95
76) 1,4-Dichlorobenzene	11.681	146	1463	0.054	ppbv	#	53
77) 1,2-Dichlorobenzene	11.960	146	2400	0.087	ppbv		94
78) Hexachloro-1,3-Butadiene	13.895	225	2478	0.109	ppbv		92
79) Naphthalene	13.523	128	2077	0.044	ppbv	#	84
81) 1,2,4-Trichlorobenzene	13.452	180	1665	0.072	ppbv		86

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

Instrument :
MSVOA_L
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

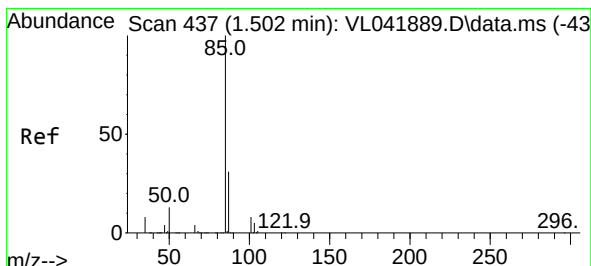
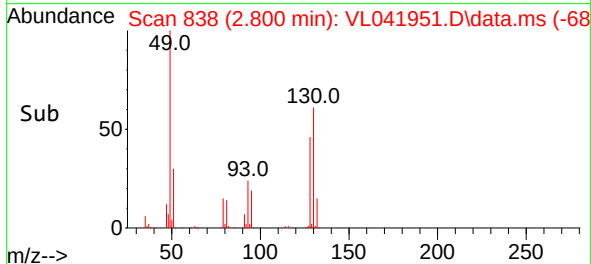
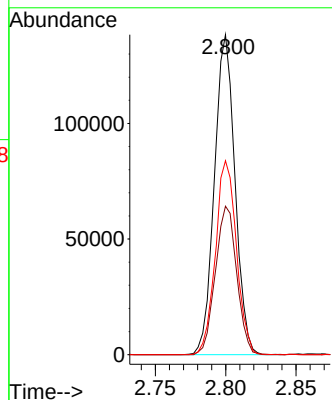
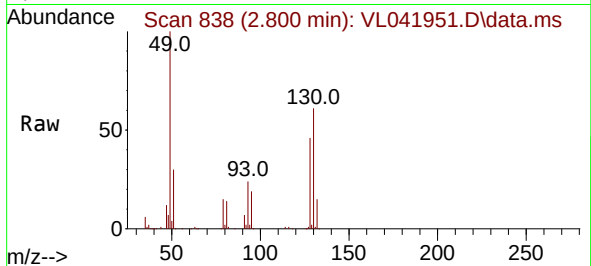




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

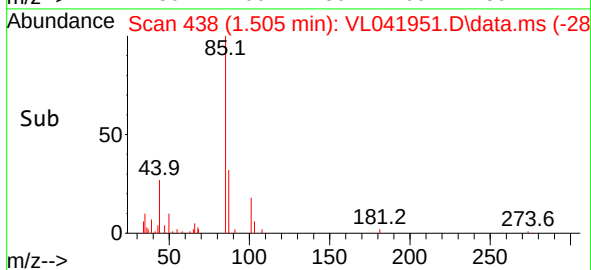
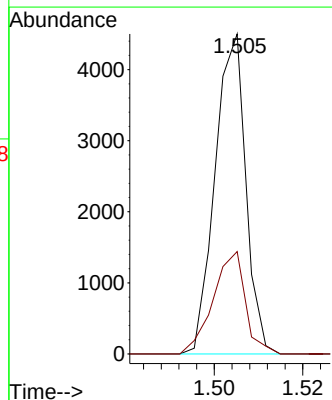
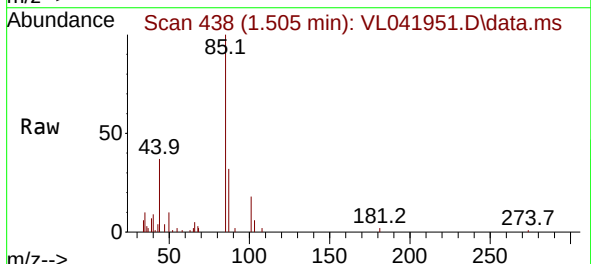
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MSVOA_L
ClientSampleId :

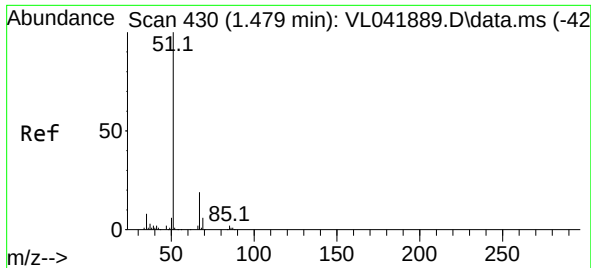
Tgt Ion: 49 Resp: 140568
Ion Ratio Lower Upper
49 100
128 48.1 24.3 73.0
130 62.0 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.113 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 85 Resp: 2172
Ion Ratio Lower Upper
85 100
87 32.0 24.9 37.3





#3

Chlorodifluoromethane

Concen: 0.101 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

Instrument :

MSVOA_L

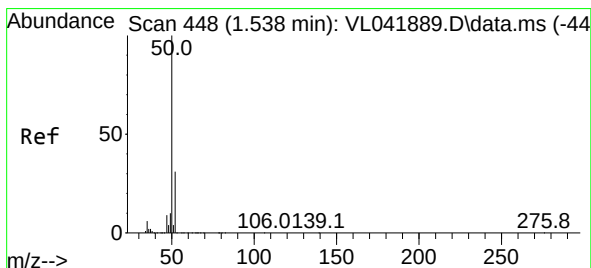
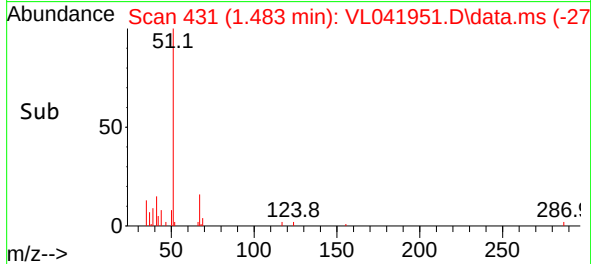
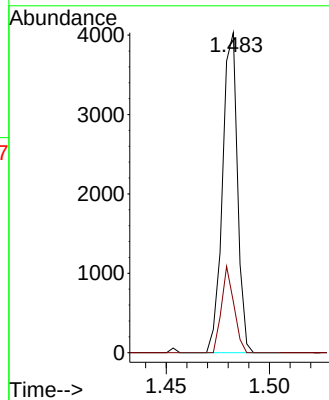
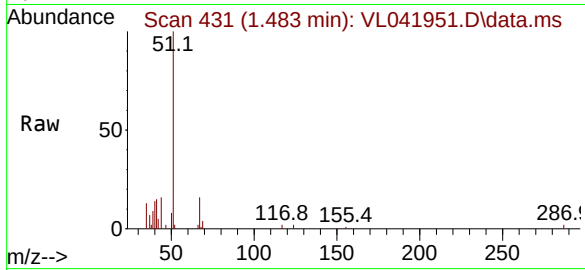
ClientSampleId :

Tgt Ion: 51 Resp: 2035

Ion Ratio Lower Upper

51 100

67 22.4 15.0 22.4



#4

Chloromethane

Concen: 0.139 ppbv

RT: 1.538 min Scan# 448

Delta R.T. -0.000 min

Lab File: VL041951.D

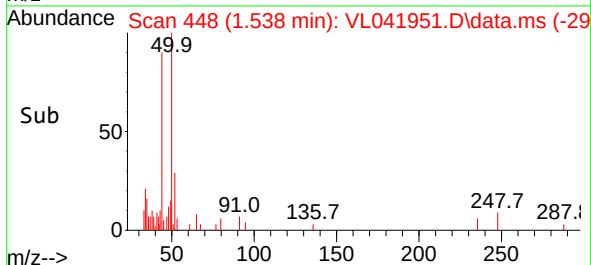
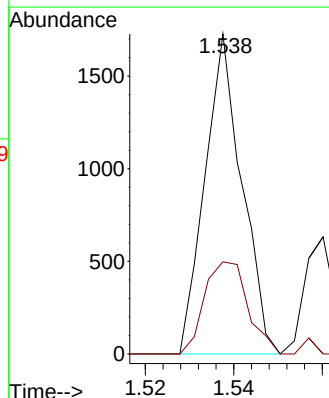
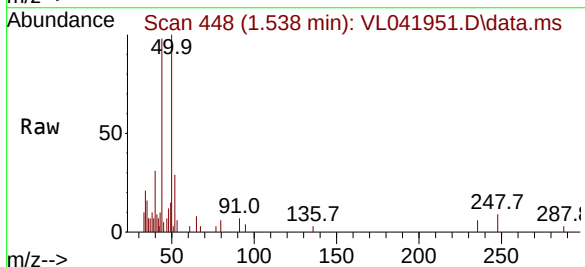
Acq: 27 Jan 2025 14:37

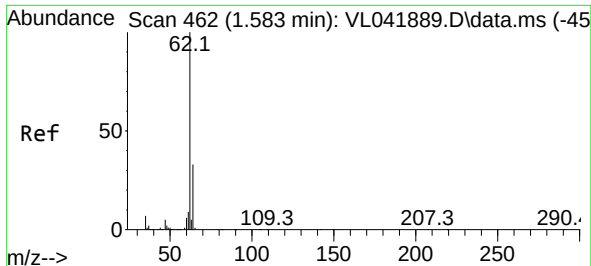
Tgt Ion: 50 Resp: 1002

Ion Ratio Lower Upper

50 100

52 28.8 24.6 36.8

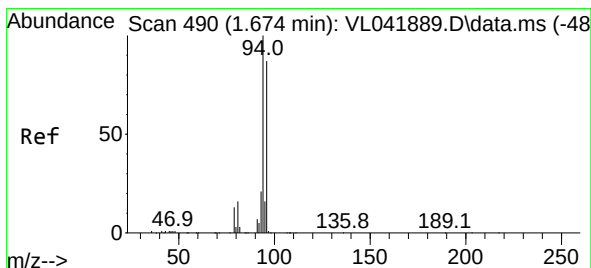
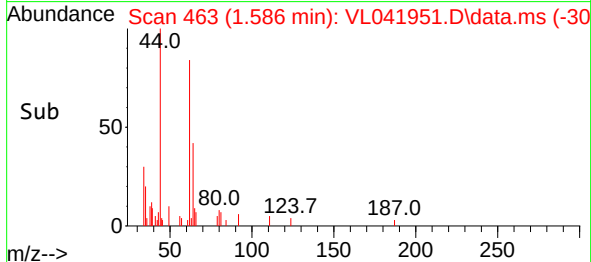
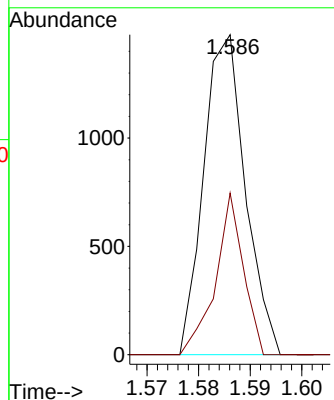
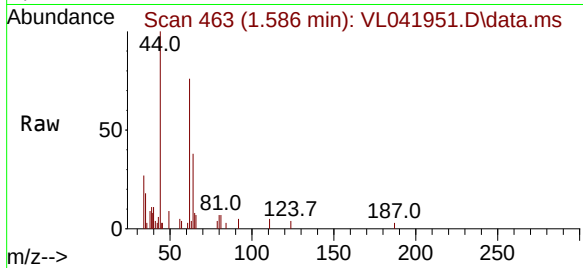




#5
 Vinyl Chloride
 Concen: 0.113 ppbv
 RT: 1.586 min Scan# 463
 Delta R.T. 0.003 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

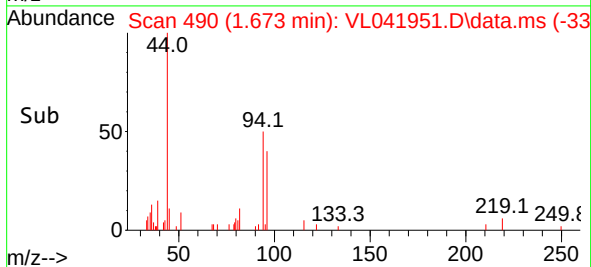
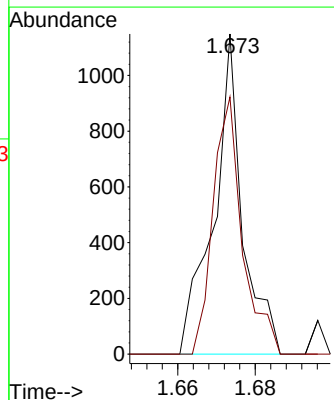
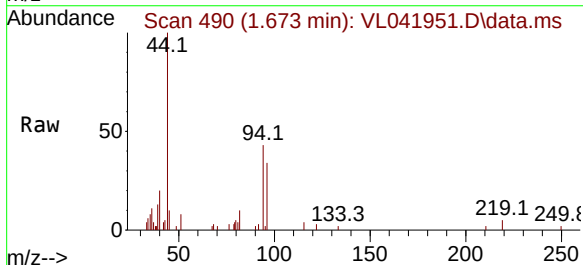
Instrument :
 MSVOA_L
 ClientSampleId :

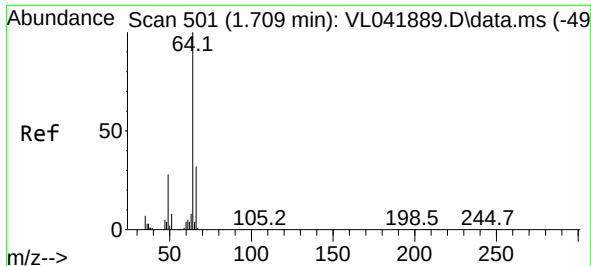
Tgt Ion: 62 Resp: 827
 Ion Ratio Lower Upper
 62 100
 64 50.5 26.1 39.1#



#6
 Bromomethane
 Concen: 0.171 ppbv
 RT: 1.673 min Scan# 490
 Delta R.T. -0.000 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

Tgt Ion: 94 Resp: 593
 Ion Ratio Lower Upper
 94 100
 96 80.3 69.5 104.3

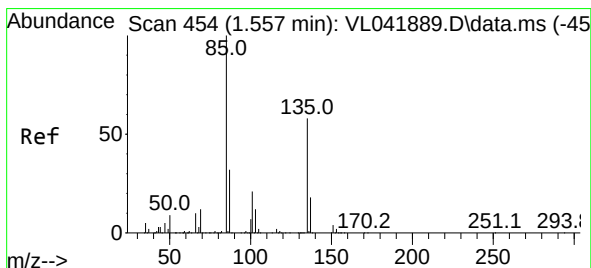
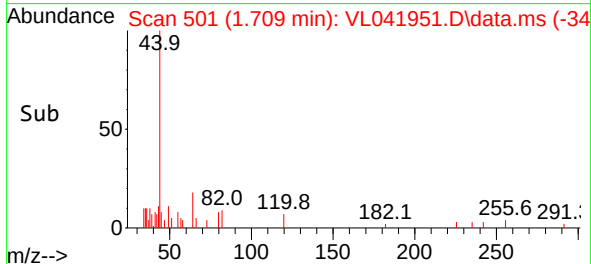
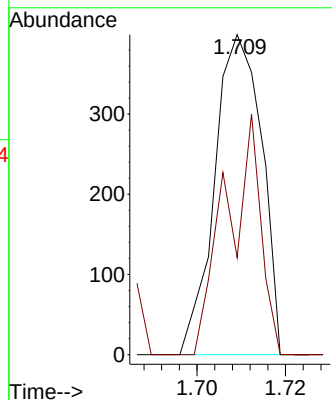
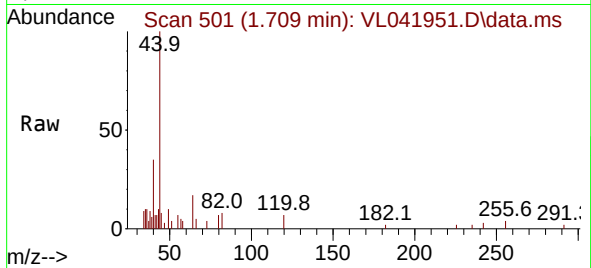




#7
Chloroethane
Concen: 0.104 ppbv
RT: 1.709 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

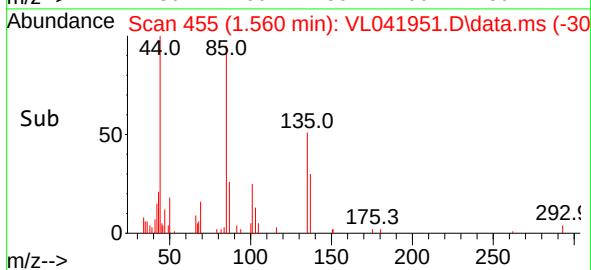
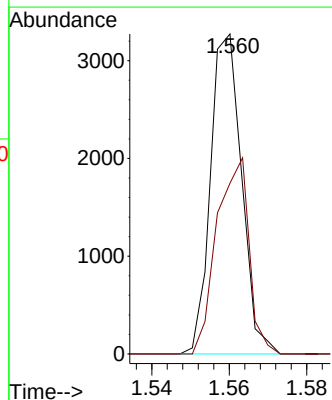
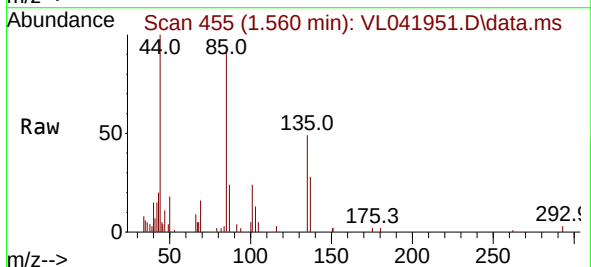
Instrument :
MSVOA_L
ClientSampleId :

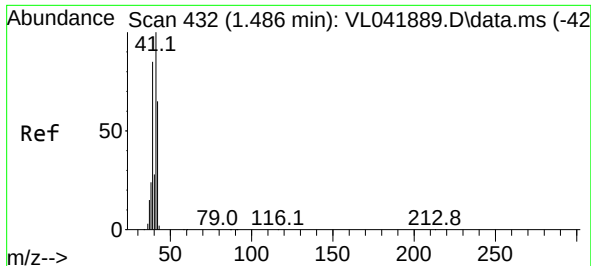
Tgt Ion: 64 Resp: 294
Ion Ratio Lower Upper
64 100
66 30.3 25.7 38.5



#8
Dichlorotetrafluoroethane
Concen: 0.109 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 85 Resp: 1825
Ion Ratio Lower Upper
85 100
135 63.4 50.0 75.0





#9

Propene

Concen: 0.168 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

Instrument :

MSVOA_L

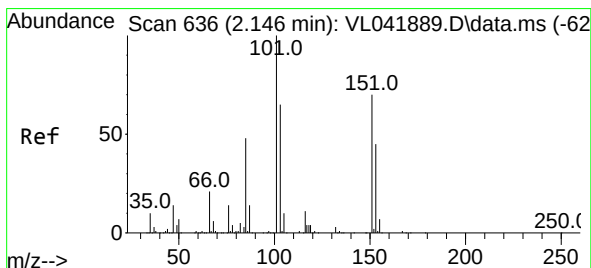
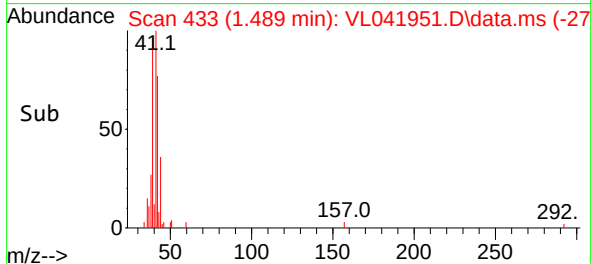
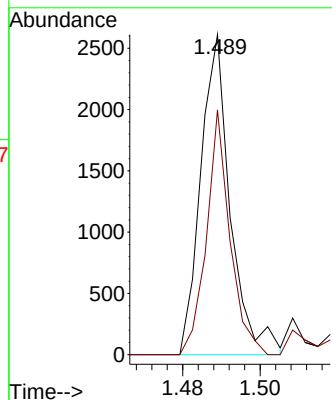
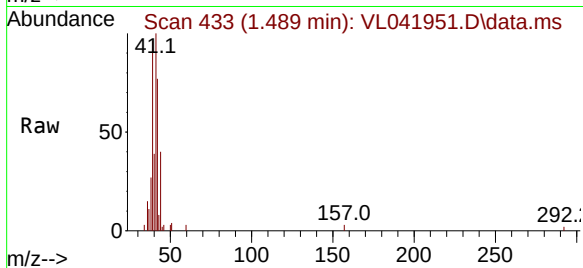
ClientSampleId :

Tgt Ion: 41 Resp: 1387

Ion Ratio Lower Upper

41 100

42 68.4 52.0 78.0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.112 ppbv

RT: 2.149 min Scan# 637

Delta R.T. 0.003 min

Lab File: VL041951.D

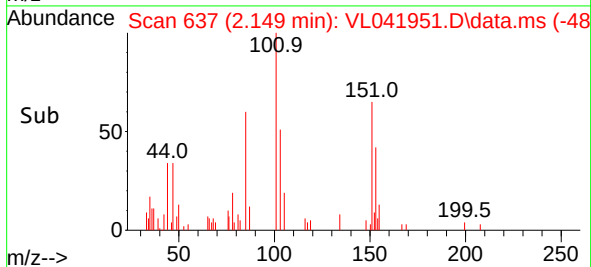
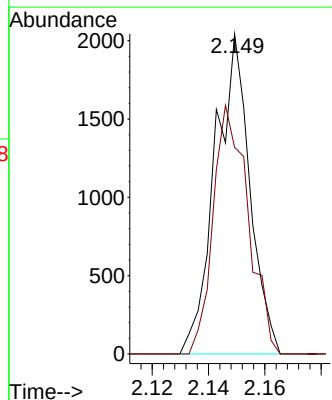
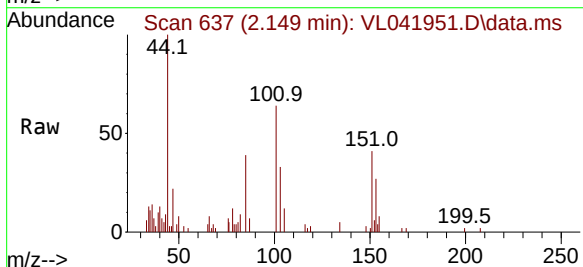
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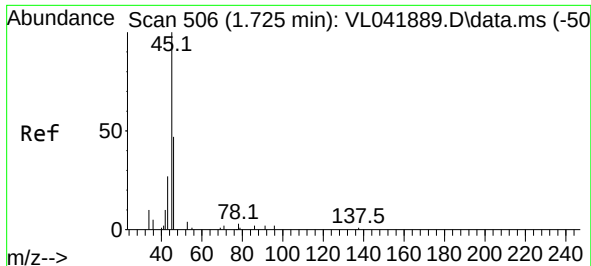
Tgt Ion: 101 Resp: 1750

Ion Ratio Lower Upper

101 100

151 77.9 56.1 84.1

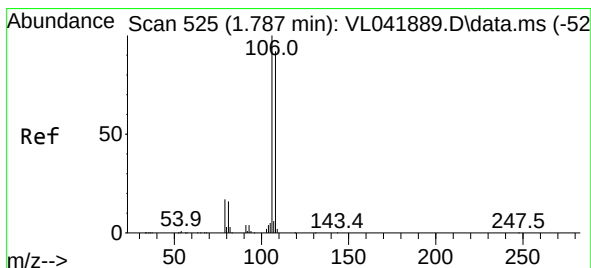
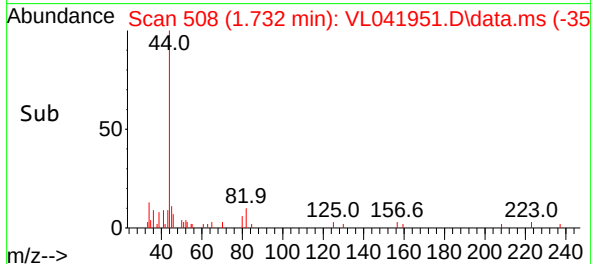
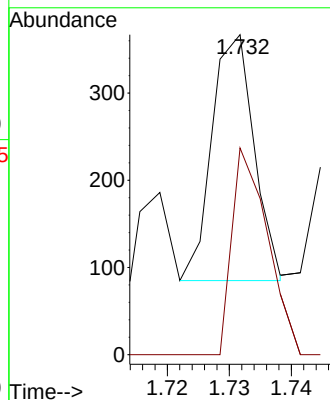
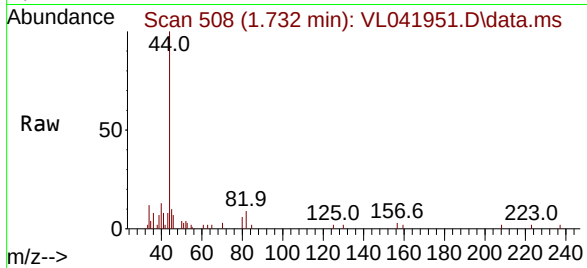




#13
Ethanol
Concen: 0.220 ppbv
RT: 1.732 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

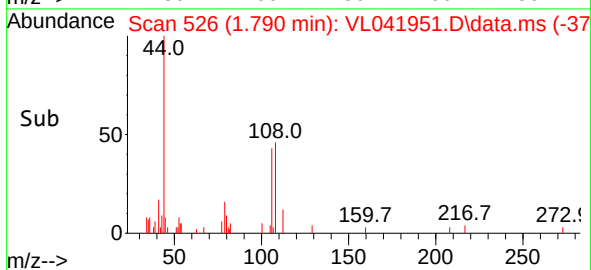
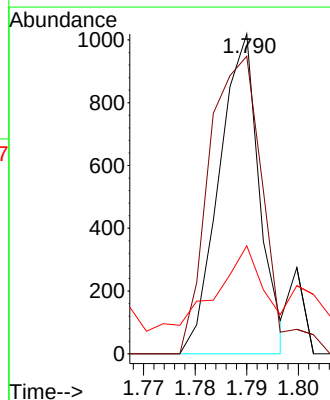
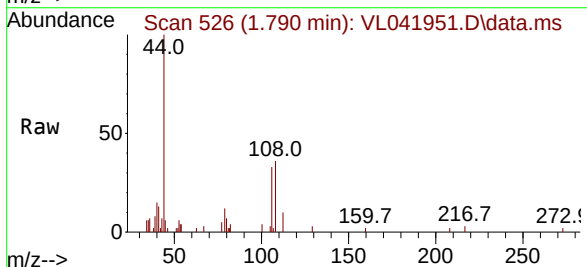
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MSVOA_L
ClientSampleId :

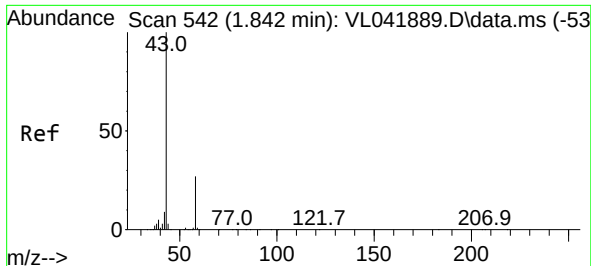
Tgt Ion: 45 Resp: 133
Ion Ratio Lower Upper
45 100
46 151.9 18.1 72.5#



#14
Bromoethene
Concen: 0.097 ppbv
RT: 1.790 min Scan# 526
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion:108 Resp: 554
Ion Ratio Lower Upper
108 100
106 130.9 85.5 128.3#
79 104.7 15.3 22.9#

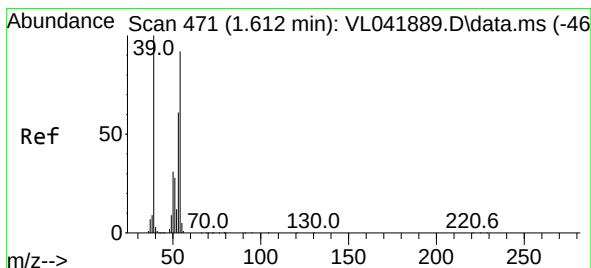
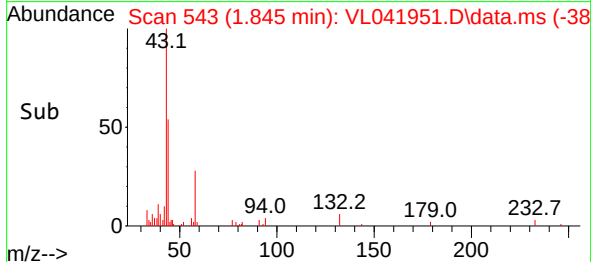
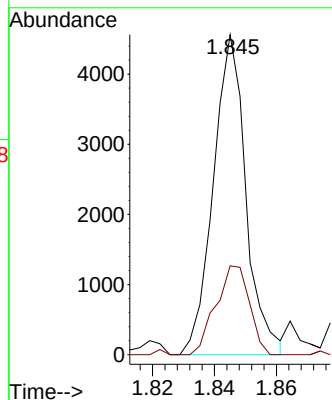
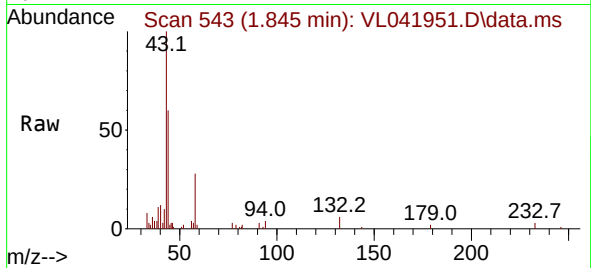




#15
Acetone
Concen: 0.197 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

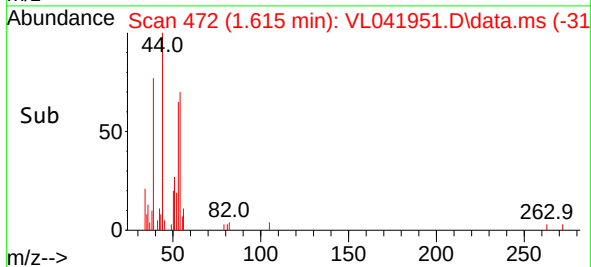
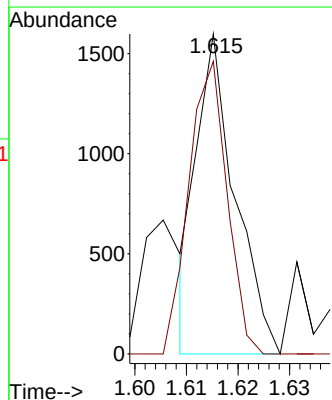
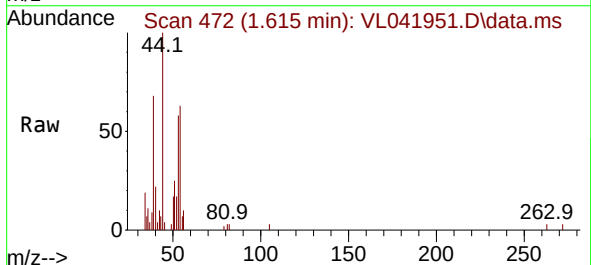
Instrument :
MSVOA_L
ClientSampleId :

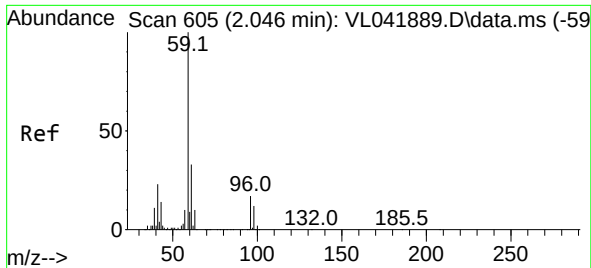
Tgt Ion: 43 Resp: 3332
Ion Ratio Lower Upper
43 100
58 29.0 21.9 32.9



#16
1,3-Butadiene
Concen: 0.110 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 39 Resp: 831
Ion Ratio Lower Upper
39 100
54 90.5 61.6 92.4





#17

tert-Butyl alcohol

Concen: 0.102 ppbv

RT: 2.052 min Scan# 605

Delta R.T. 0.006 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

Instrument :

MSVOA_L

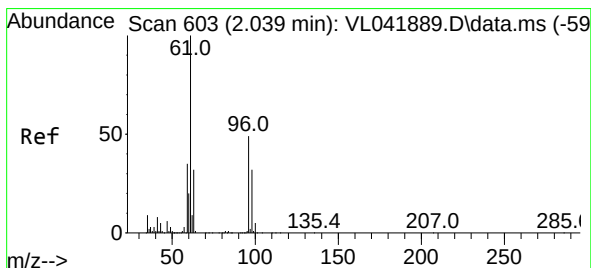
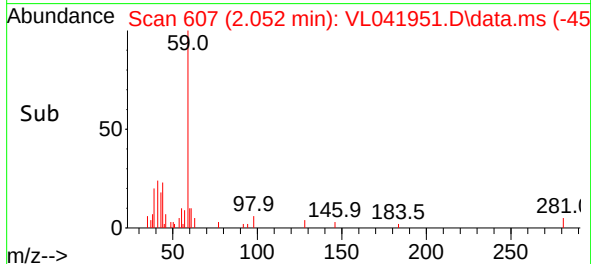
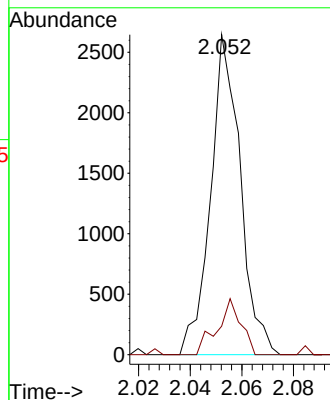
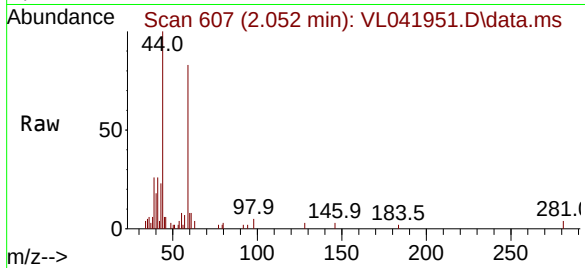
ClientSampleId :

Tgt Ion: 59 Resp: 2115

Ion Ratio Lower Upper

59 100

57 13.9 7.8 11.8#



#18

1,1-Dichloroethene

Concen: 0.113 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

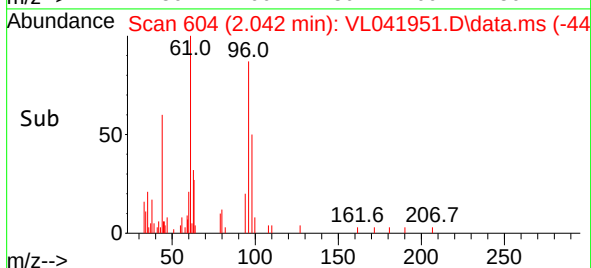
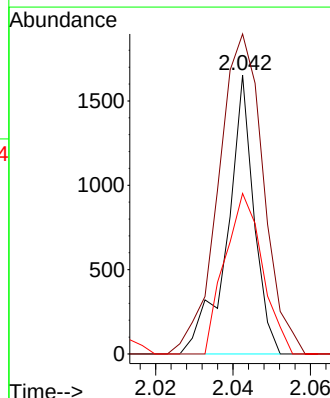
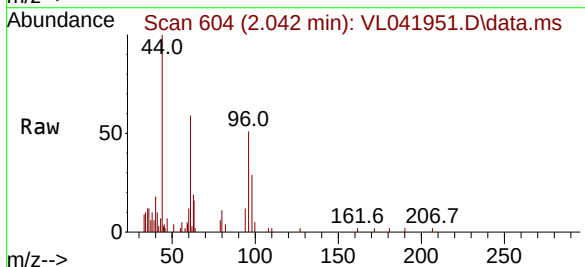
Tgt Ion: 96 Resp: 793

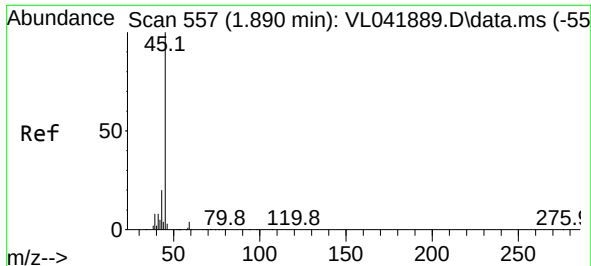
Ion Ratio Lower Upper

96 100

61 111.1 163.1 244.7#

98 57.5 52.7 79.1

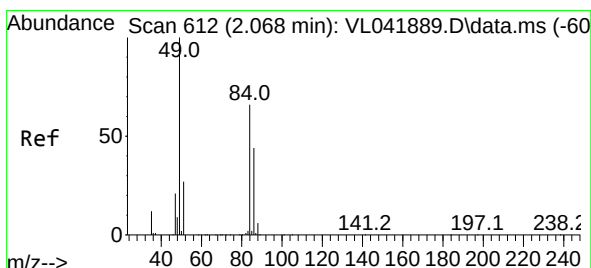
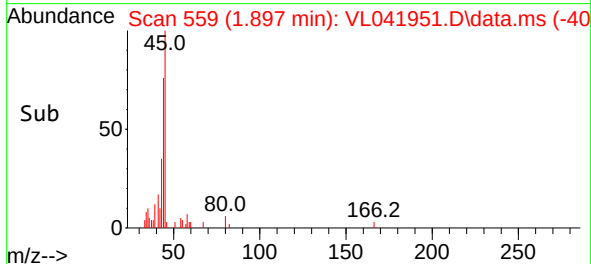
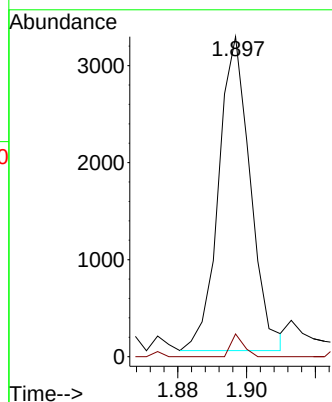
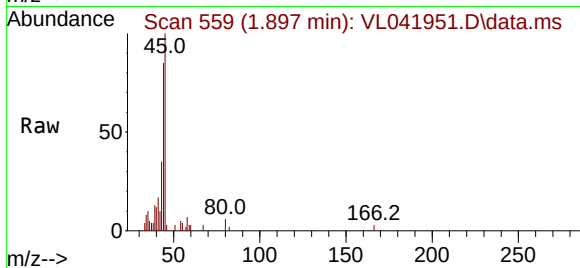




#19
Isopropyl Alcohol
Concen: 0.207 ppbv
RT: 1.897 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

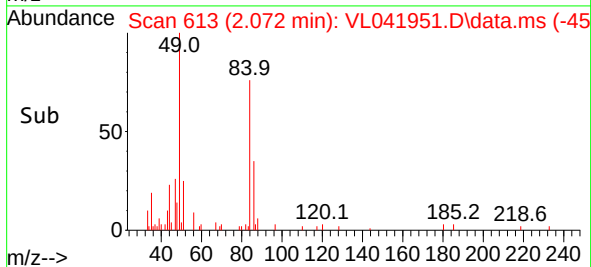
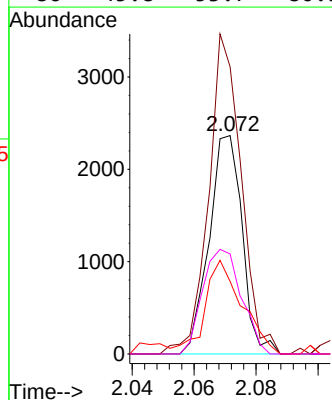
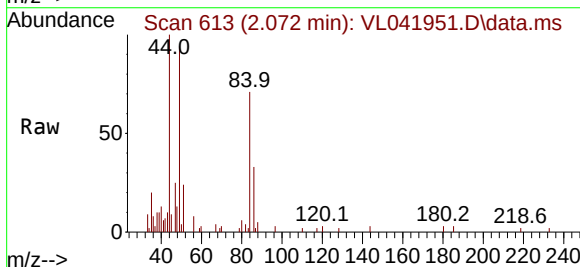
Instrument :
MSVOA_L
ClientSampleId :

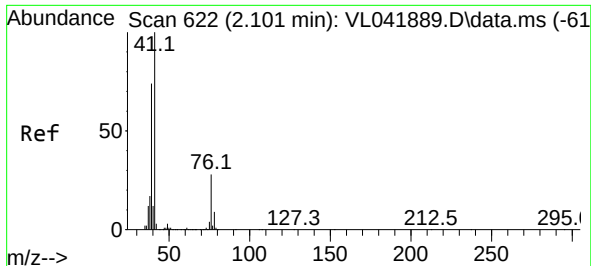
Tgt Ion: 45 Resp: 2077
Ion Ratio Lower Upper
45 100
58 2.9 35.0 52.6#



#20
Methylene Chloride
Concen: 0.263 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 84 Resp: 1754
Ion Ratio Lower Upper
84 100
49 131.4 123.1 184.7
51 33.2 35.8 53.8#
86 45.8 53.7 80.5#

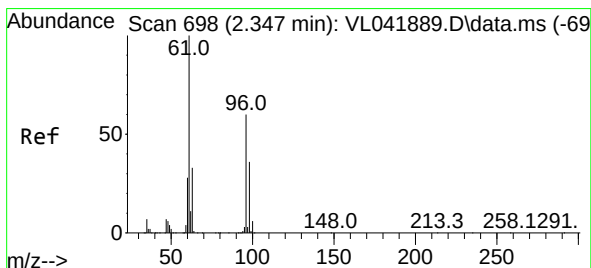
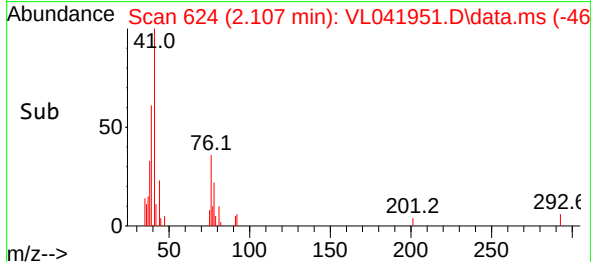
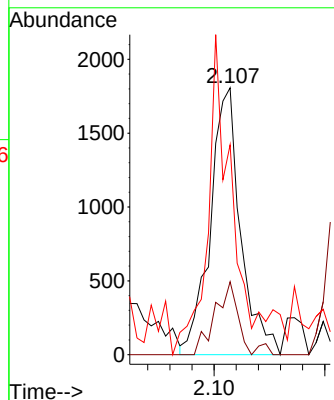
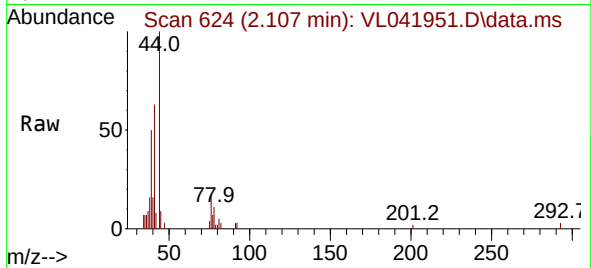




#21
 Allyl Chloride
 Concen: 0.147 ppbv
 RT: 2.107 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

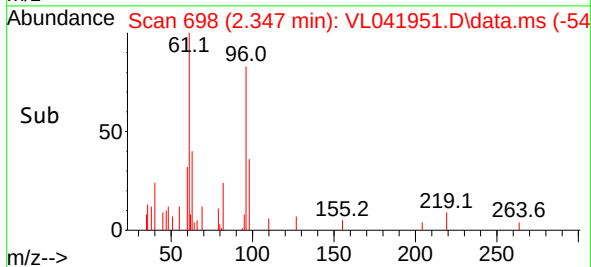
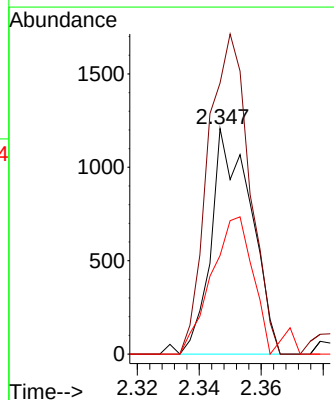
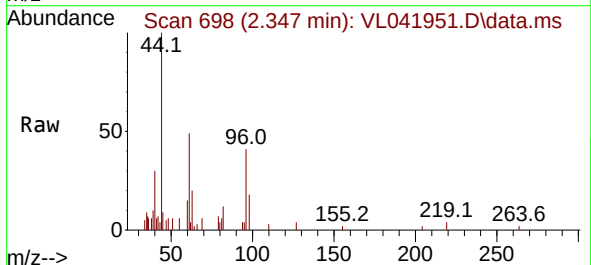
Instrument :
 MSVOA_L
 ClientSampleId :

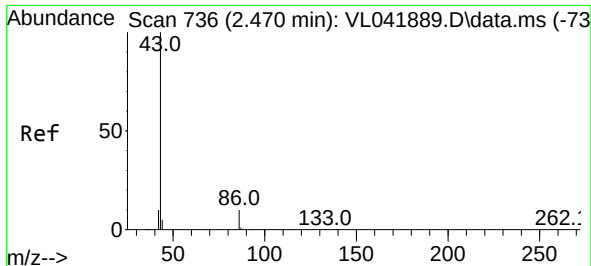
Tgt Ion: 41 Resp: 1719
 Ion Ratio Lower Upper
 41 100
 76 21.8 24.2 36.4#
 39 108.0 60.6 91.0#



#22
 trans-1,2-Dichloroethene
 Concen: 0.135 ppbv
 RT: 2.347 min Scan# 698
 Delta R.T. -0.000 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

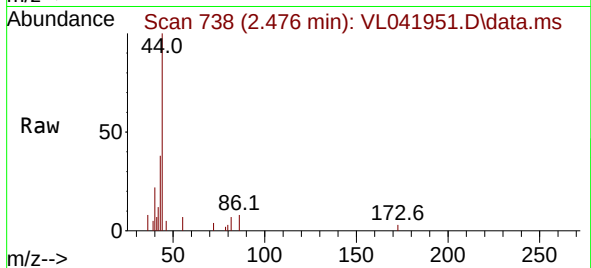
Tgt Ion: 96 Resp: 1075
 Ion Ratio Lower Upper
 96 100
 61 120.1 134.5 201.7#
 98 43.6 48.9 73.3#



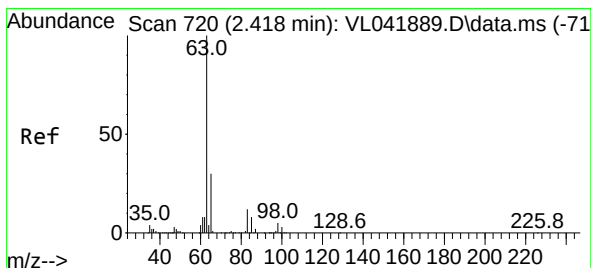
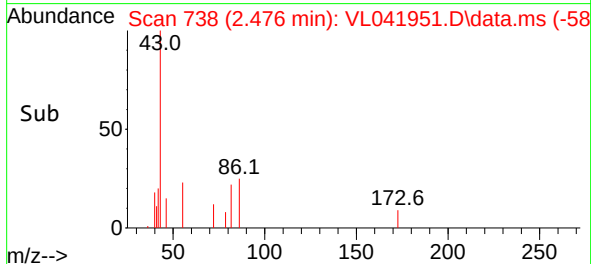
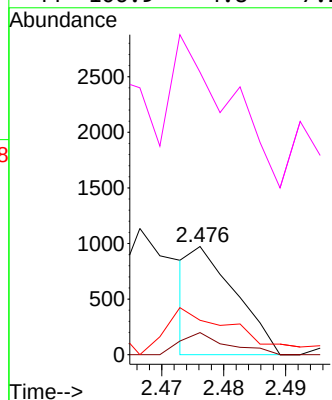


#23
 Vinyl Acetate
 Concen: 0.058 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

Instrument :
 MSVOA_L
 ClientSampleId :

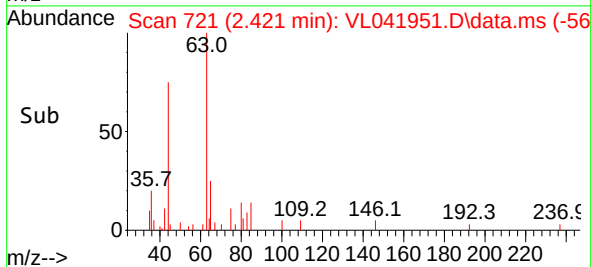
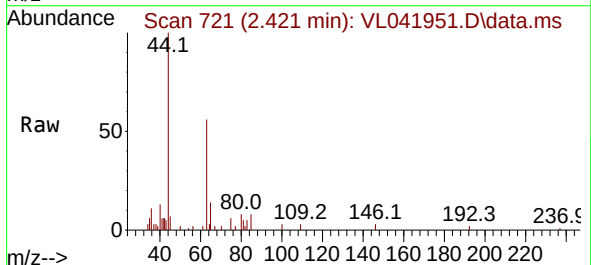
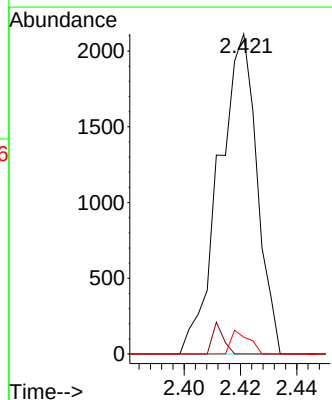


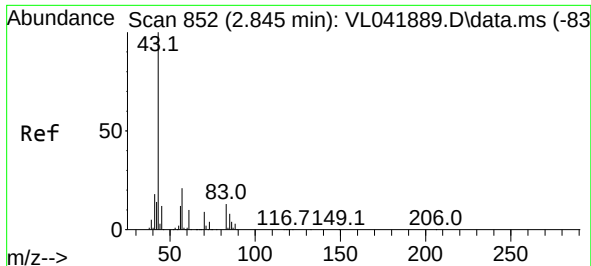
Tgt Ion:	43	Resp:	485
Ion	Ratio	Lower	Upper
43	100		
86	20.5	6.2	9.4#
42	22.1	8.5	12.7#
44	106.9	4.8	7.2#



#24
 1,1-Dichloroethane
 Concen: 0.129 ppbv
 RT: 2.421 min Scan# 721
 Delta R.T. 0.003 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

Tgt Ion:	63	Resp:	1981
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.6	7.8#
100	5.3	1.4	4.2#

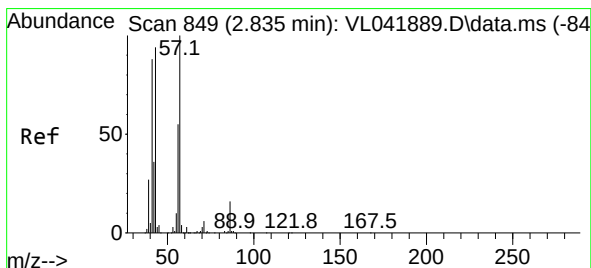
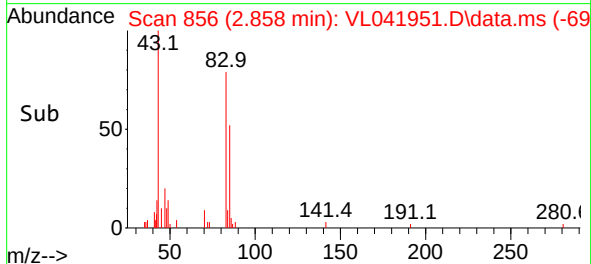
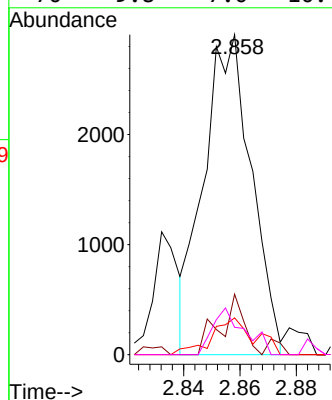
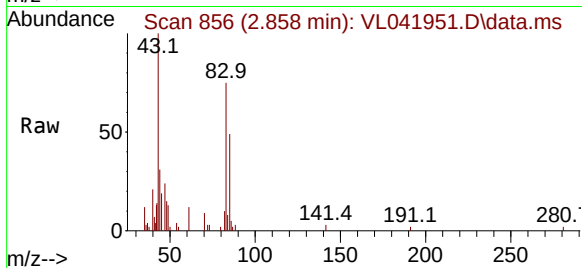




#25
Ethyl Acetate
Concen: 0.075 ppbv
RT: 2.858 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

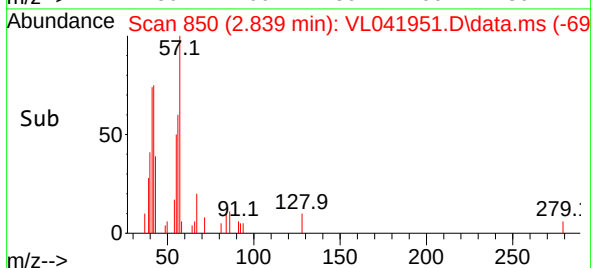
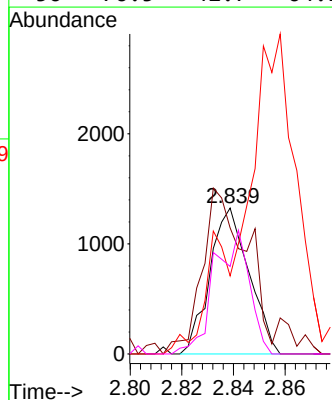
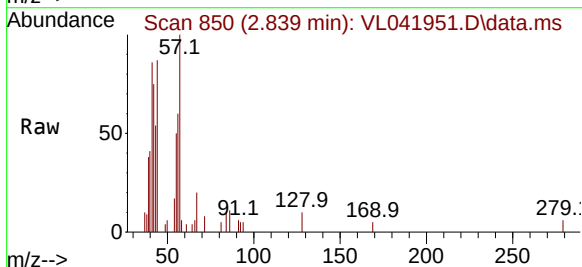
Instrument :
MSVOA_L
ClientSampleId :

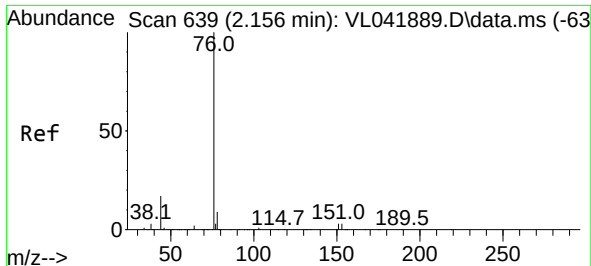
Tgt Ion: 43	Resp: 3415
Ion Ratio	Lower Upper
43 100	
45 12.0	8.2 12.2
61 10.3	7.4 11.0
70 9.8	7.0 10.4



#26
Hexane
Concen: 0.078 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 57	Resp: 1404
Ion Ratio	Lower Upper
57 100	
41 140.8	73.8 110.8#
43 304.6	197.3 295.9#
56 76.5	42.7 64.1#

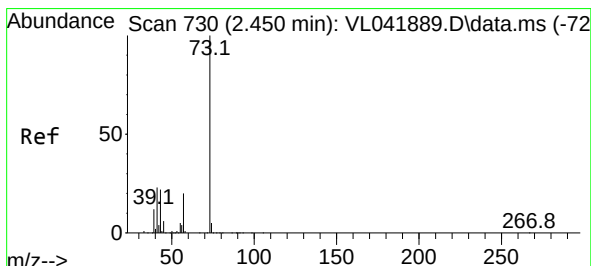
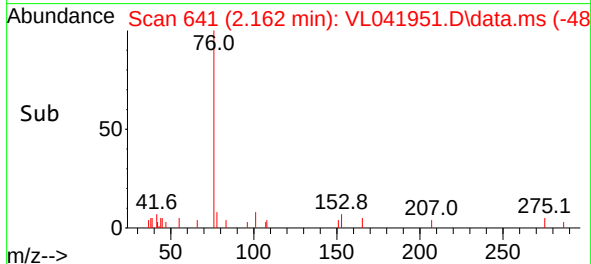
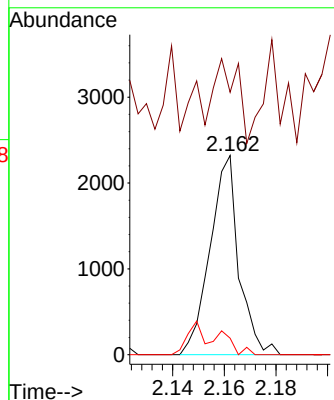
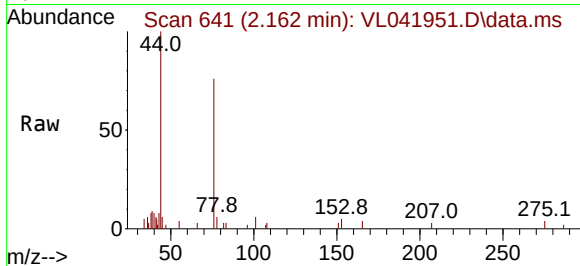




#27
Carbon Disulfide
Concen: 0.101 ppbv
RT: 2.162 min Scan# 641
Delta R.T. 0.006 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

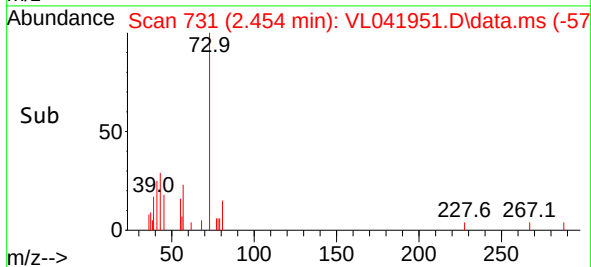
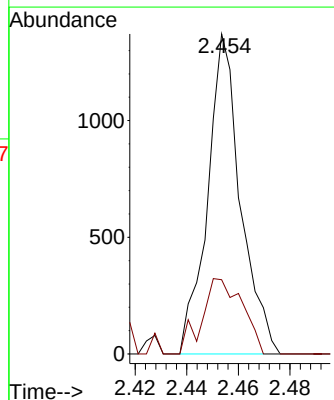
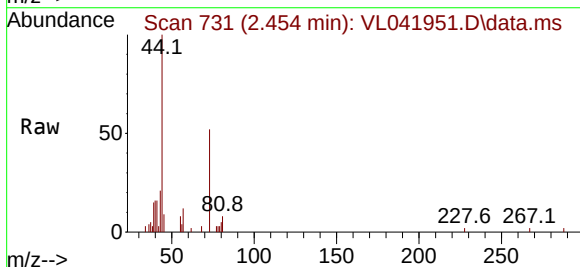
Instrument :
MSVOA_L
ClientSampleId :

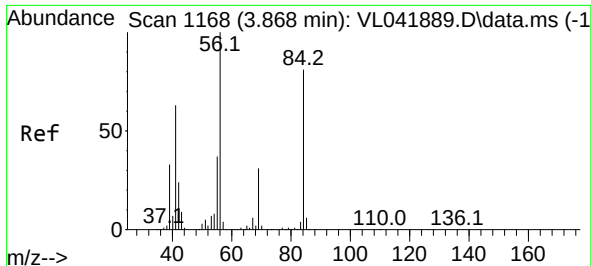
Tgt Ion: 76 Resp: 1794
Ion Ratio Lower Upper
76 100
44 212.5 15.4 23.0#
78 16.6 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.089 ppbv
RT: 2.454 min Scan# 731
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

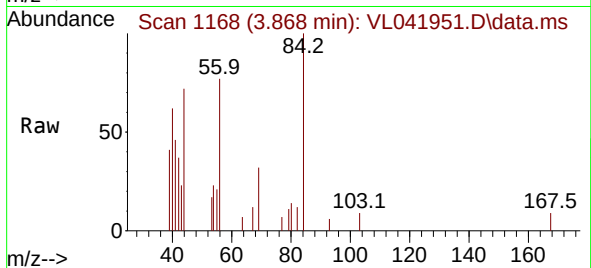
Tgt Ion: 73 Resp: 1220
Ion Ratio Lower Upper
73 100
57 28.8 18.1 27.1#



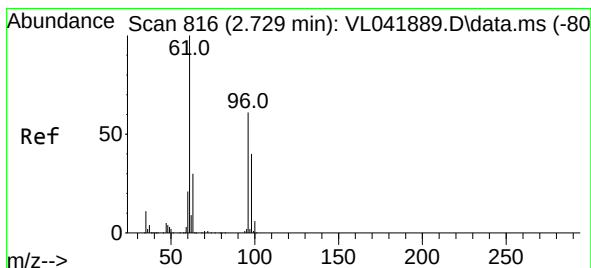
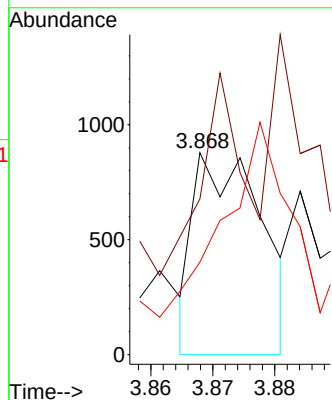
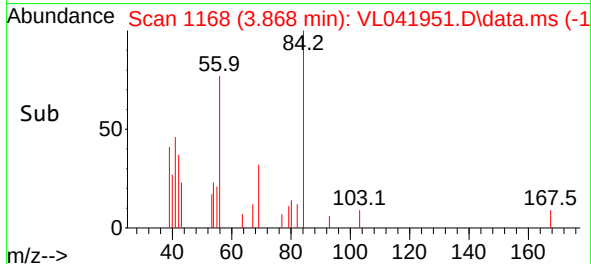


#30
Cyclohexane
Concen: 0.043 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. -0.000 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :

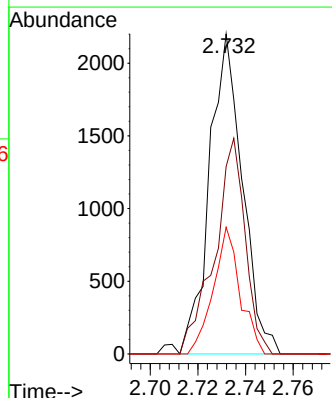
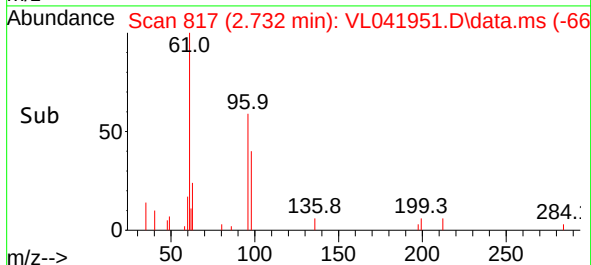
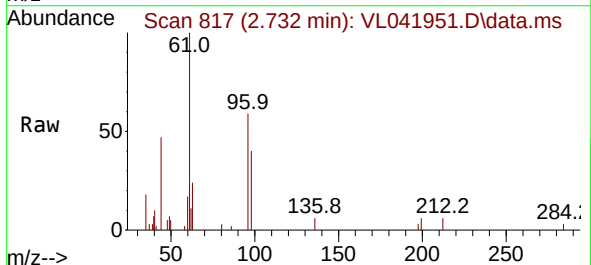


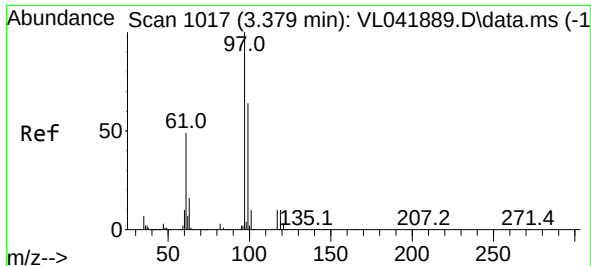
Tgt Ion: 84 Resp: 669
Ion Ratio Lower Upper
84 100
56 0.0 99.3 148.9#
41 0.0 64.3 96.5#



#31
cis-1,2-Dichloroethene
Concen: 0.112 ppbv
RT: 2.732 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 61 Resp: 2116
Ion Ratio Lower Upper
61 100
96 58.6 48.7 73.1
98 39.6 31.6 47.4

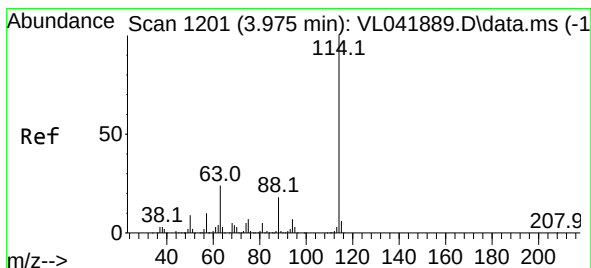
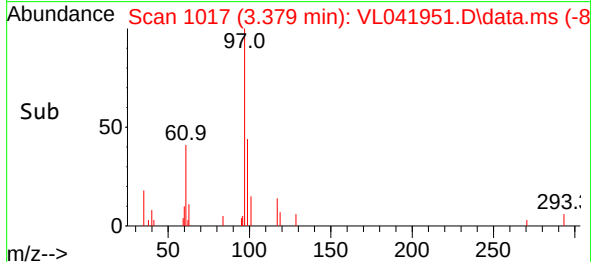
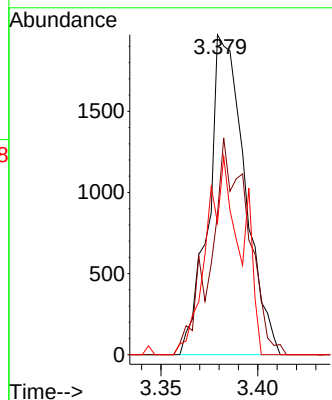
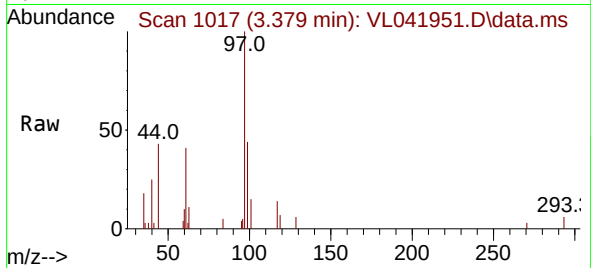




#32
 1,1,1-Trichloroethane
 Concen: 0.094 ppbv
 RT: 3.379 min Scan# 1017
 Delta R.T. -0.000 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

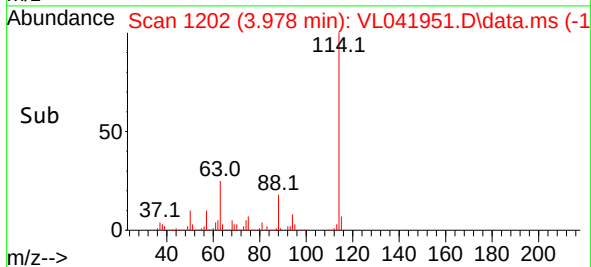
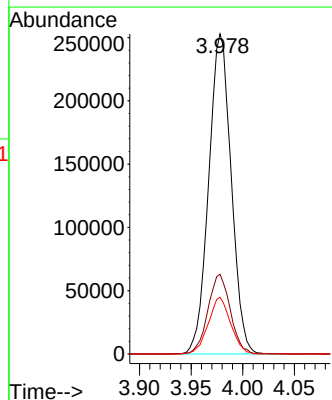
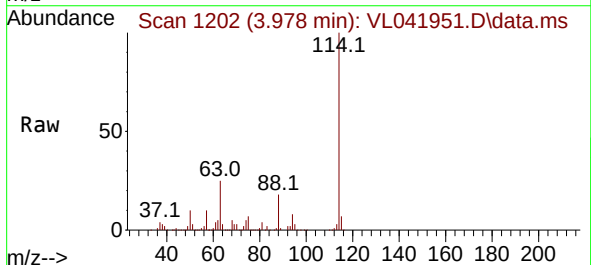
Instrument :
 MSVOA_L
 ClientSampleId :

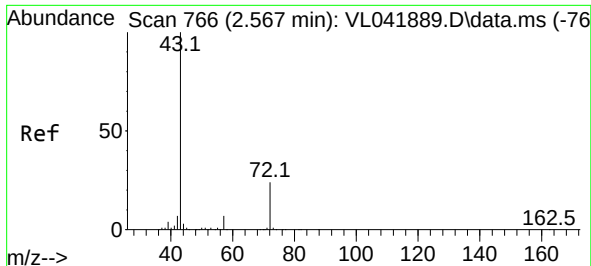
Tgt Ion: 97 Resp: 2566
 Ion Ratio Lower Upper
 97 100
 99 69.6 51.1 76.7
 61 60.0 39.0 58.6#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.978 min Scan# 1202
 Delta R.T. 0.003 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

Tgt Ion: 114 Resp: 382409
 Ion Ratio Lower Upper
 114 100
 63 24.9 19.8 29.6
 88 17.6 14.4 21.6

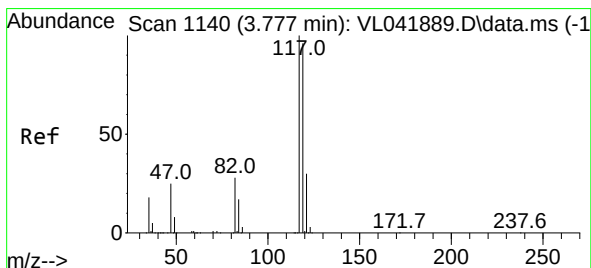
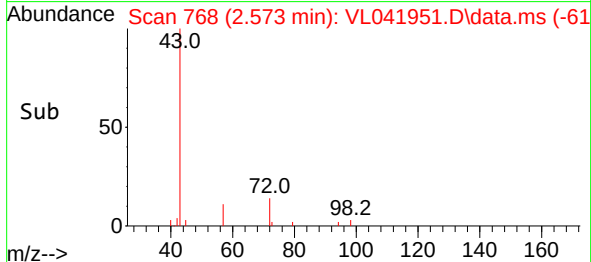
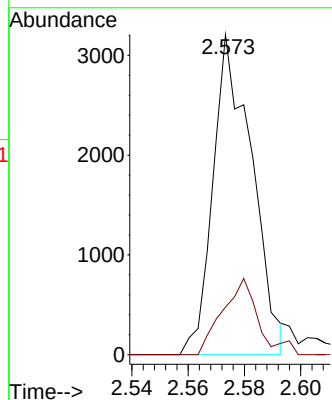
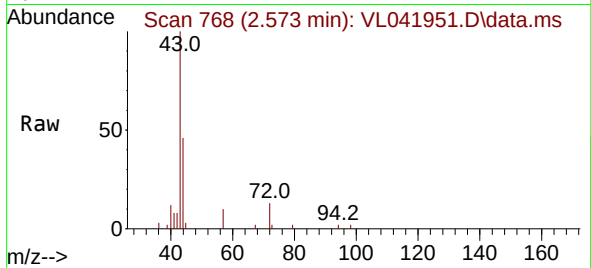




#34
2-Butanone
Concen: 0.126 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.006 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

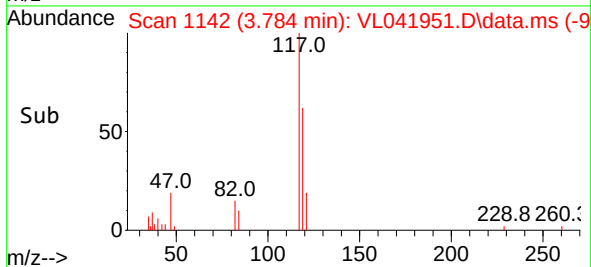
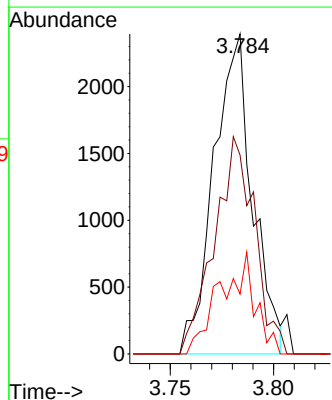
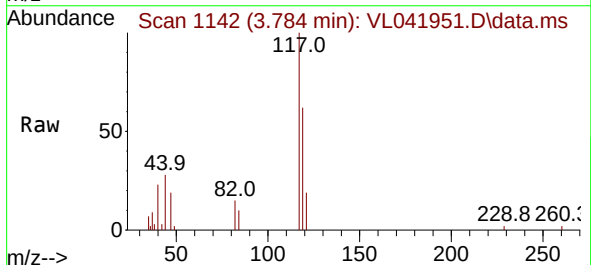
Instrument :
MSVOA_L
ClientSampleId :

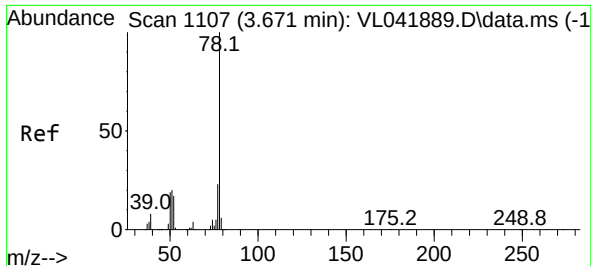
Tgt Ion: 43 Resp: 3065
Ion Ratio Lower Upper
43 100
72 21.9 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.130 ppbv
RT: 3.784 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 117 Resp: 3115
Ion Ratio Lower Upper
117 100
119 62.2 76.9 115.3#
121 18.7 23.8 35.6#

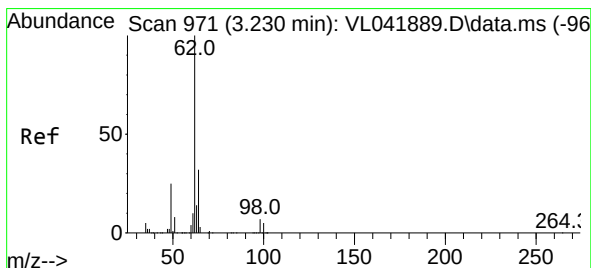
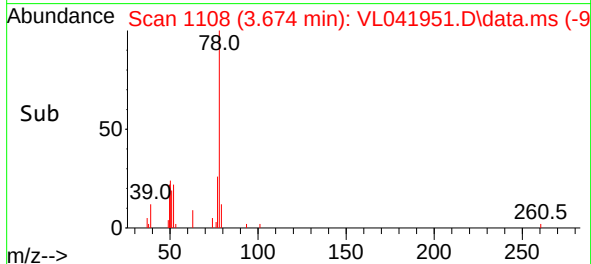
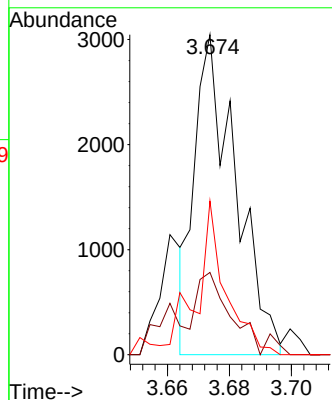
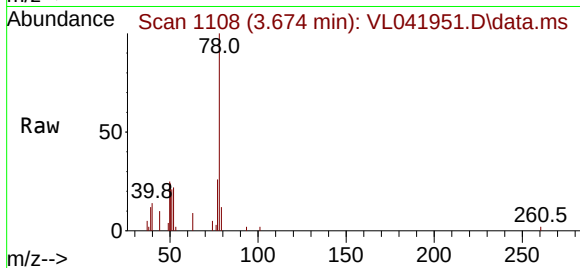




#36
Benzene
Concen: 0.080 ppbv
RT: 3.674 min Scan# 1107
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

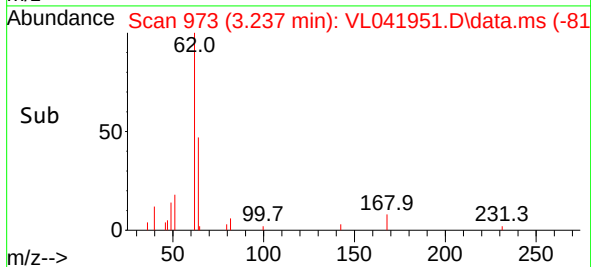
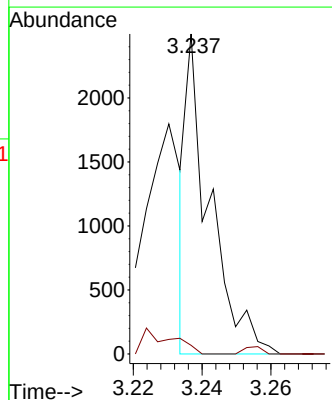
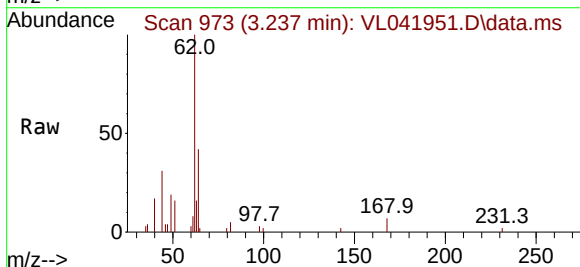
Instrument :
MSVOA_L
ClientSampleId :

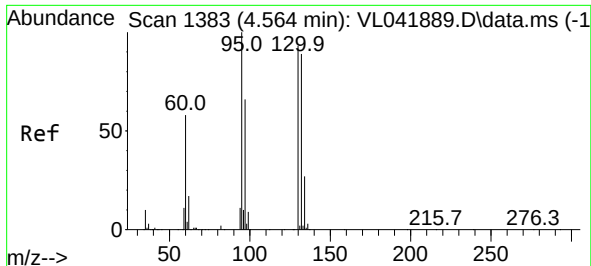
Tgt Ion: 78 Resp: 2795
Ion Ratio Lower Upper
78 100
77 20.1 18.1 27.1
50 49.7 15.2 22.8#



#37
1,2-Dichloroethane
Concen: 0.060 ppbv
RT: 3.237 min Scan# 973
Delta R.T. 0.006 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 62 Resp: 1184
Ion Ratio Lower Upper
62 100
98 0.0 5.4 8.0#

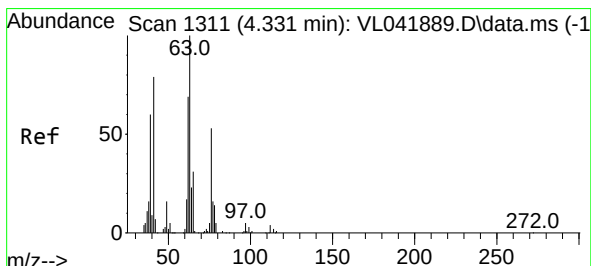
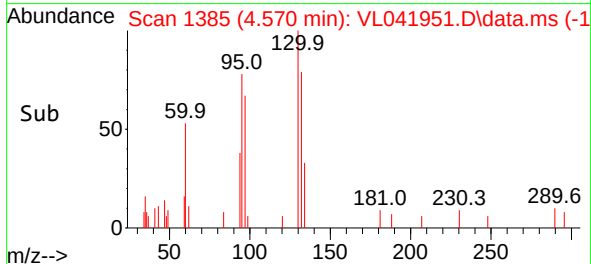
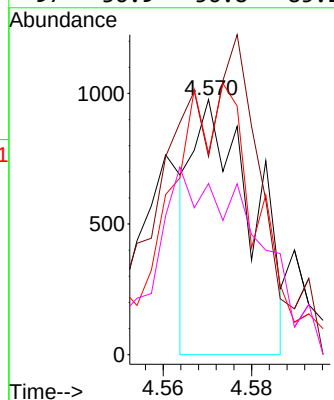
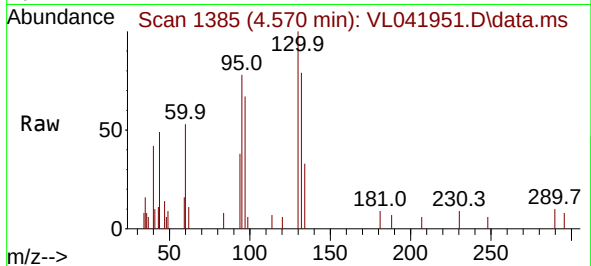




#38
 Trichloroethene
 Concen: 0.065 ppbv
 RT: 4.570 min Scan# 1385
 Delta R.T. 0.006 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

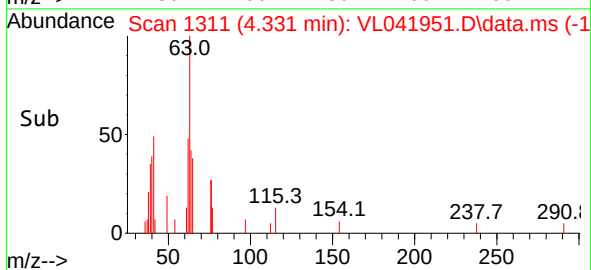
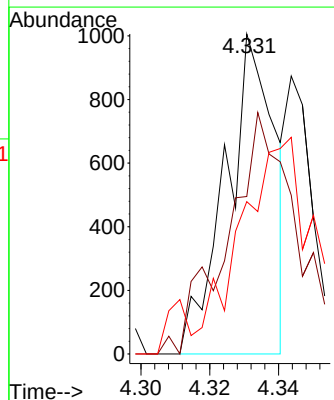
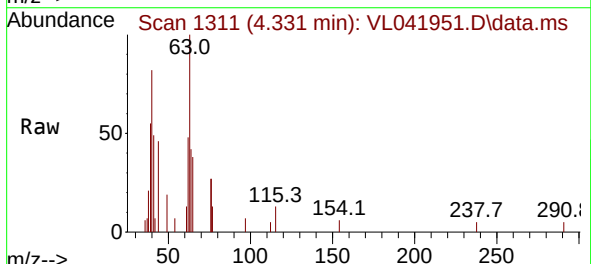
Instrument :
 MSVOA_L
 ClientSampleId :

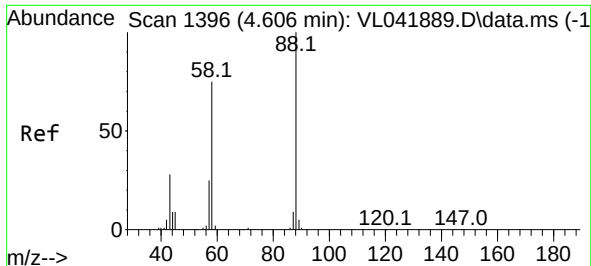
Tgt Ion:130	Resp:	911
Ion	Ratio	Lower Upper
130	100	
95	74.9	85.8 128.8#
132	69.4	76.5 114.7#
97	36.9	56.8 85.2#



#39
 1,2-Dichloropropane
 Concen: 0.080 ppbv
 RT: 4.331 min Scan# 1311
 Delta R.T. -0.000 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

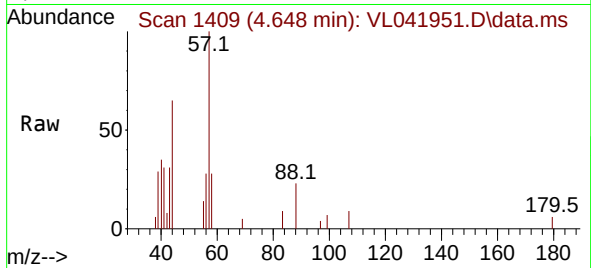
Tgt Ion: 63	Resp:	987
Ion	Ratio	Lower Upper
63	100	
41	30.0	63.7 95.5#
62	21.6	55.4 83.2#



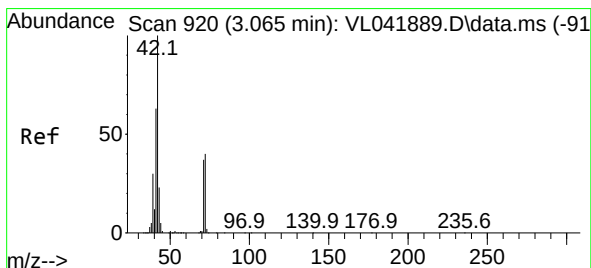
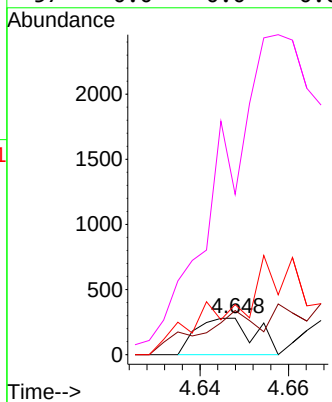
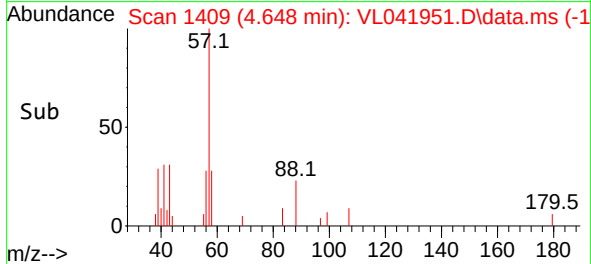


#40
1,4-Dioxane
Concen: 0.041 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.042 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :

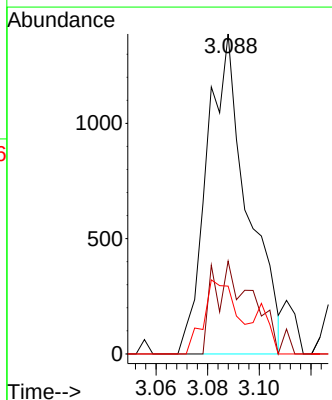
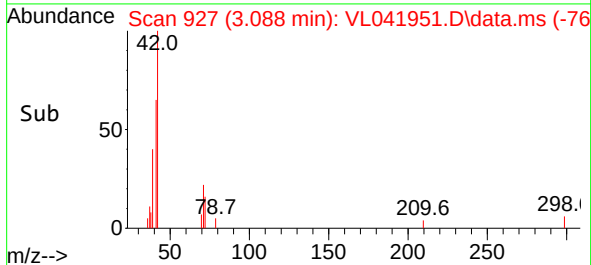
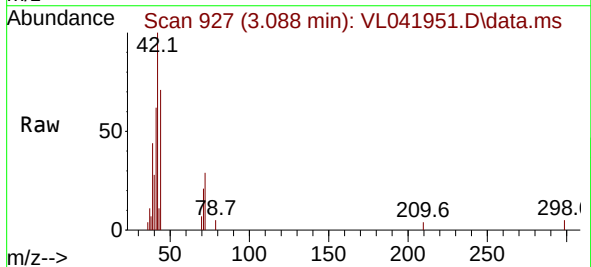


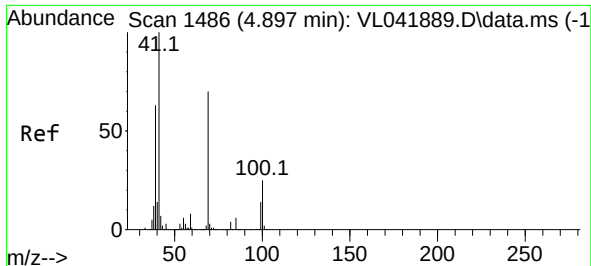
Tgt Ion: 88 Resp: 256
Ion Ratio Lower Upper
88 100
58 0.0 62.1 93.1#
43 569.9 0.0 0.0#
57 0.0 0.0 0.0



#41
Tetrahydrofuran
Concen: 0.114 ppbv
RT: 3.088 min Scan# 927
Delta R.T. 0.023 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

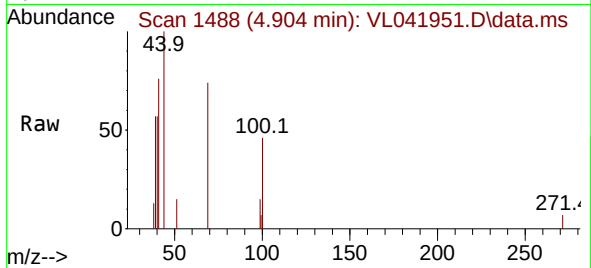
Tgt Ion: 42 Resp: 1507
Ion Ratio Lower Upper
42 100
72 28.6 32.3 48.5#
71 24.6 29.9 44.9#



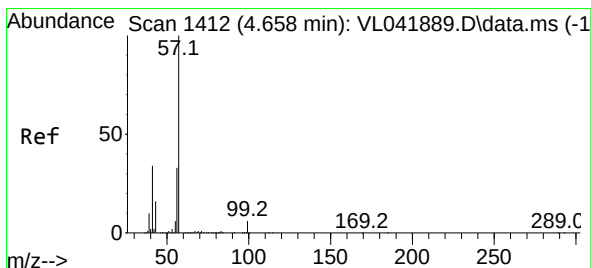
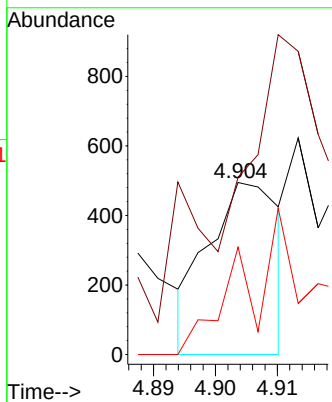
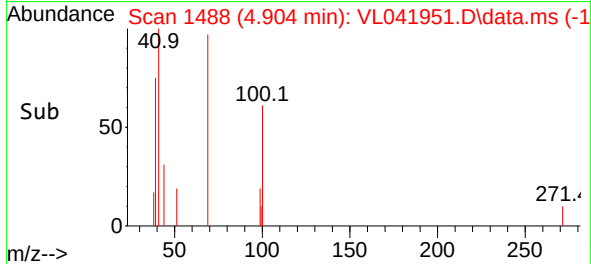


#43
Methyl Methacrylate
Concen: 0.030 ppbv
RT: 4.904 min Scan# 1488
Delta R.T. 0.006 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Instrument :
MSVOA_L
ClientSampleId :

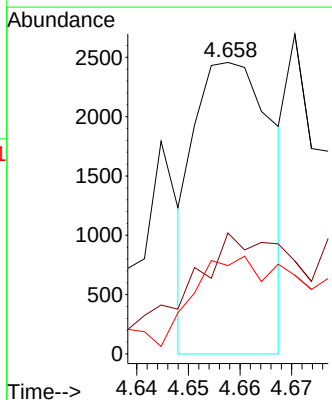
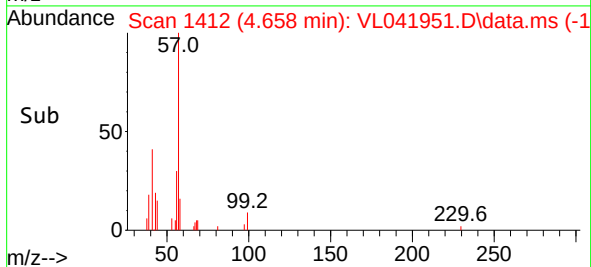
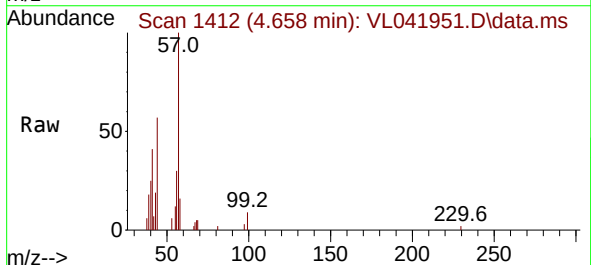


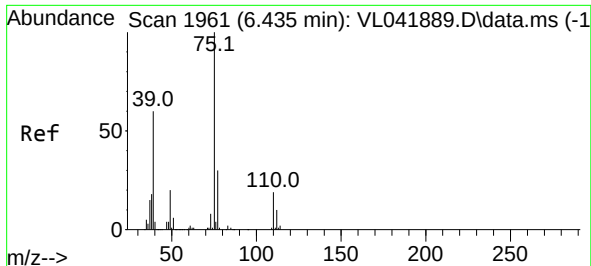
Tgt Ion: 69 Resp: 394
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 0.0 29.3 43.9#



#44
2,2,4-Trimethylpentane
Concen: 0.045 ppbv
RT: 4.658 min Scan# 1412
Delta R.T. -0.000 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 57 Resp: 2562
Ion Ratio Lower Upper
57 100
41 87.0 26.6 40.0#
56 67.8 25.4 38.2#

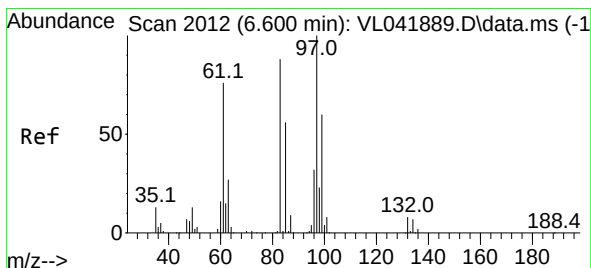
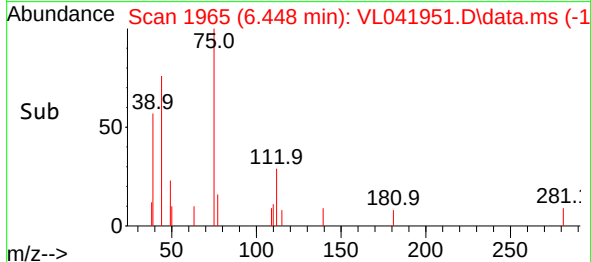
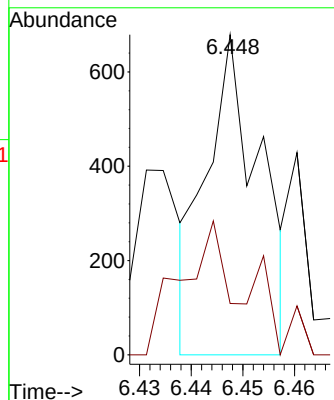
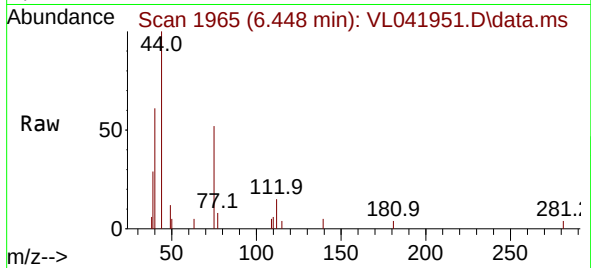




#45
t-1,3-Dichloropropene
Concen: 0.040 ppbv
RT: 6.448 min Scan# 1965
Delta R.T. 0.013 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

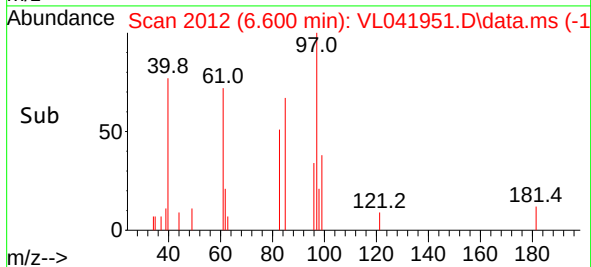
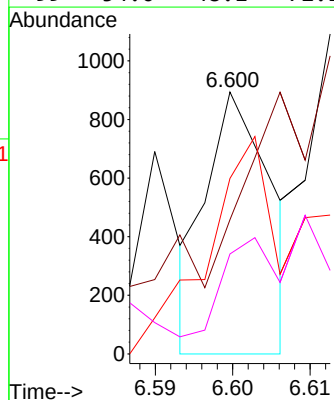
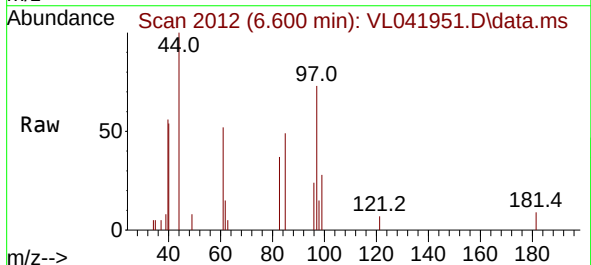
Instrument :
MSVOA_L
ClientSampleId :

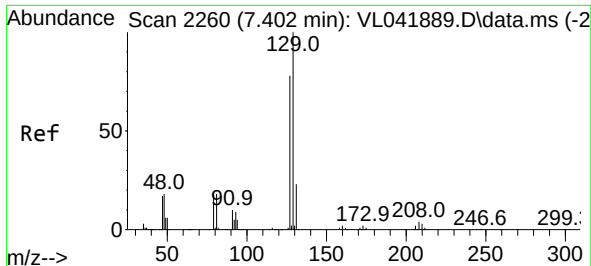
Tgt Ion: 75 Resp: 488
Ion Ratio Lower Upper
75 100
77 16.1 24.3 36.5#



#47
1,1,2-Trichloroethane
Concen: 0.039 ppbv
RT: 6.600 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 97 Resp: 514
Ion Ratio Lower Upper
97 100
83 9.9 70.4 105.6#
85 66.2 45.0 67.4
99 54.0 48.1 72.1

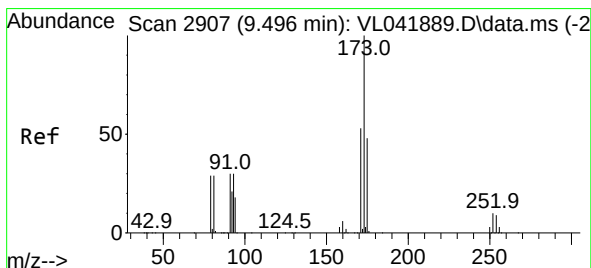
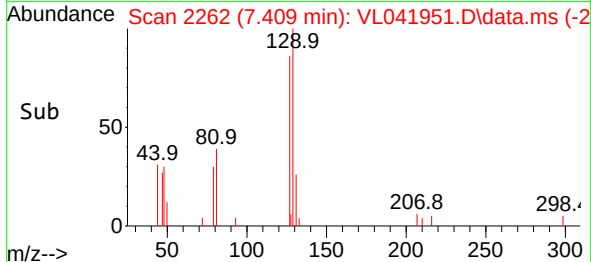
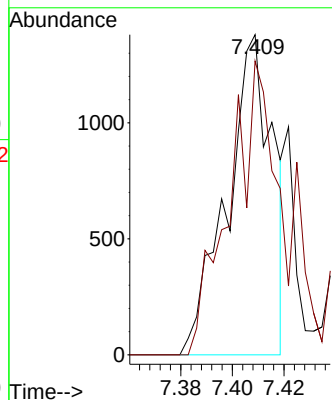
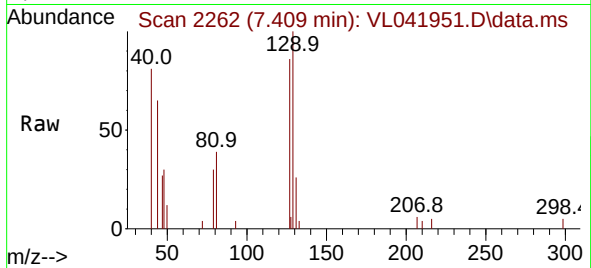




#48
 Dibromochloromethane
 Concen: 0.084 ppbv
 RT: 7.409 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

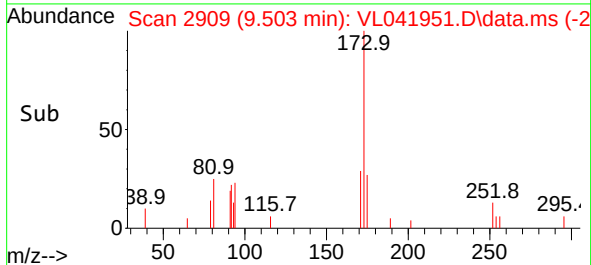
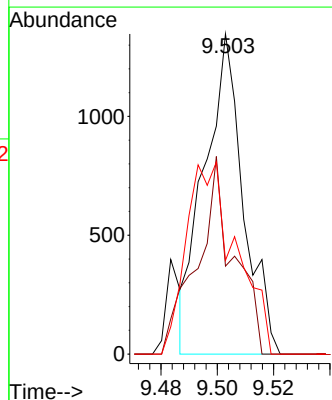
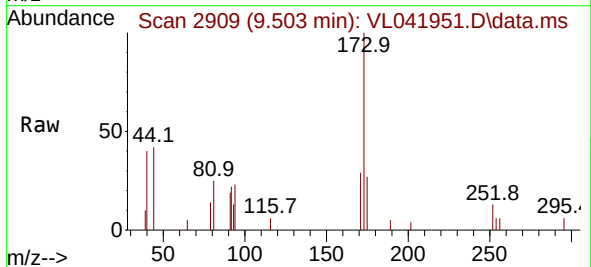
Instrument :
 MSVOA_L
 ClientSampleId :

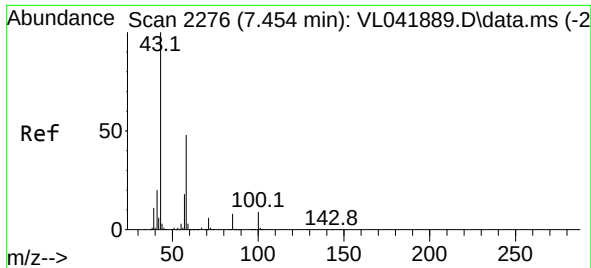
Tgt Ion:129 Resp: 1690
 Ion Ratio Lower Upper
 129 100
 127 112.6 39.3 117.8



#49
 Bromoform
 Concen: 0.079 ppbv
 RT: 9.503 min Scan# 2909
 Delta R.T. 0.006 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

Tgt Ion:173 Resp: 1299
 Ion Ratio Lower Upper
 173 100
 175 57.7 38.4 57.6#
 171 76.4 41.4 62.2#

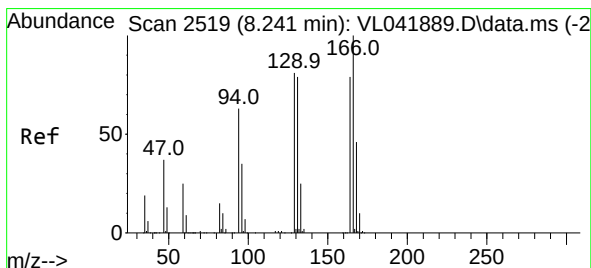
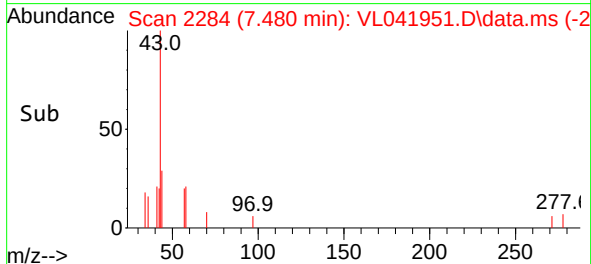
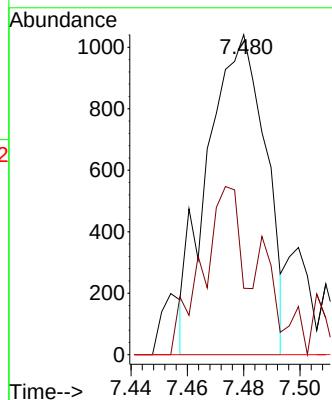
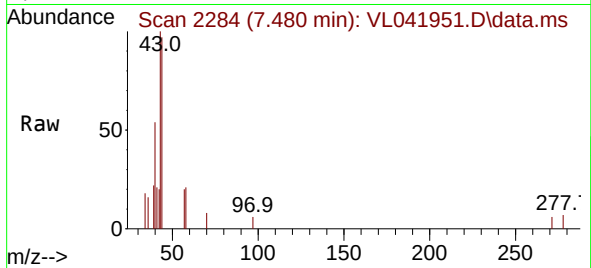




#51
2-Hexanone
Concen: 0.058 ppbv
RT: 7.480 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

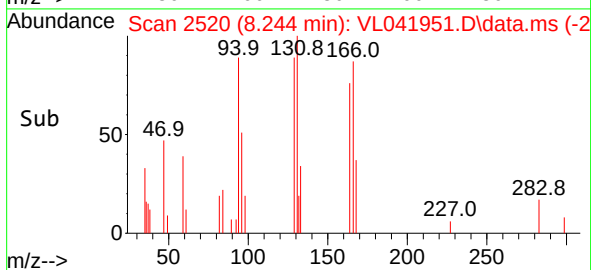
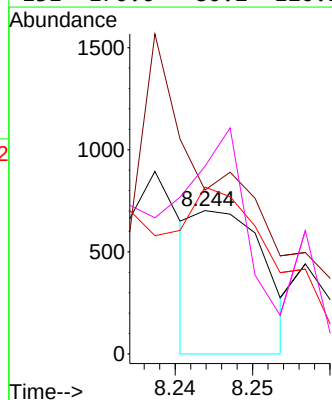
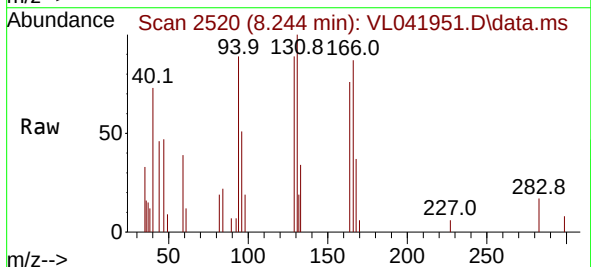
Instrument :
MSVOA_L
ClientSampleId :

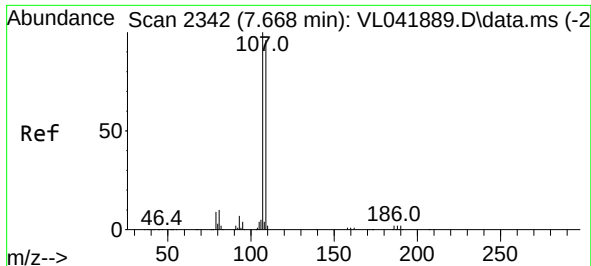
Tgt Ion: 43 Resp: 1486
Ion Ratio Lower Upper
43 100
58 54.4 40.4 60.6
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.036 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 164 Resp: 438
Ion Ratio Lower Upper
164 100
166 75.2 100.8 151.2#
129 97.9 82.0 123.0
131 170.6 80.2 120.2#





#54

1,2-Dibromoethane

Concen: 0.035 ppbv

RT: 7.668 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

Instrument :

MSVOA_L

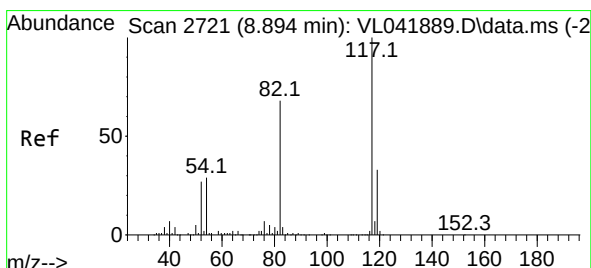
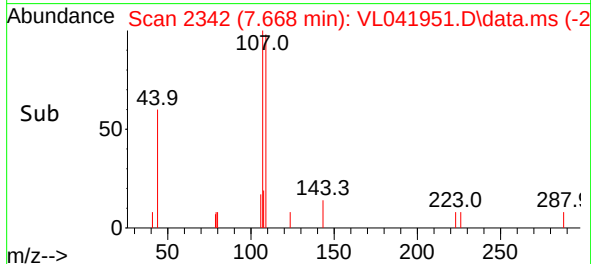
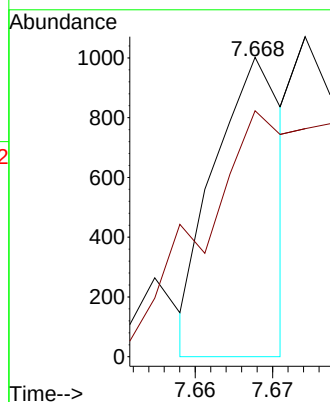
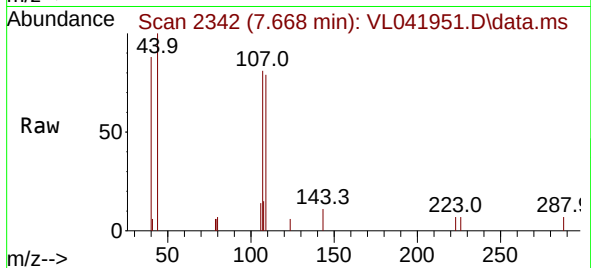
ClientSampleId :

Tgt Ion:107 Resp: 619

Ion Ratio Lower Upper

107 100

109 44.4 76.7 115.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 2722

Delta R.T. 0.003 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

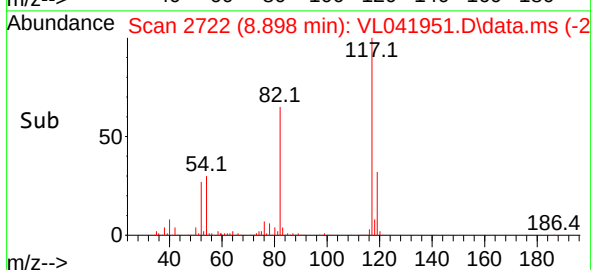
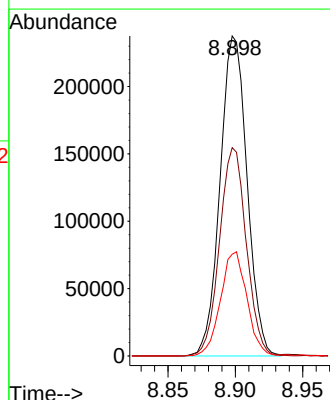
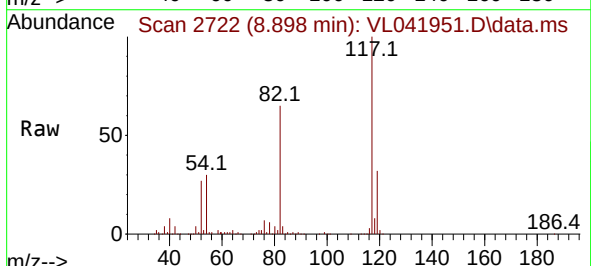
Tgt Ion:117 Resp: 330936

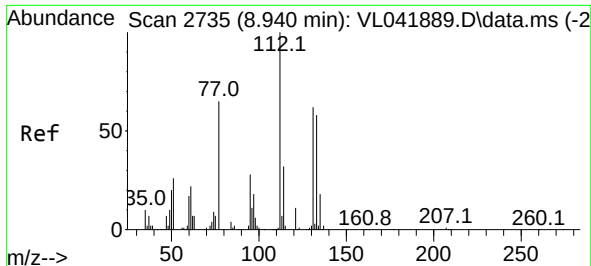
Ion Ratio Lower Upper

117 100

82 64.5 54.2 81.4

119 32.2 25.0 37.6

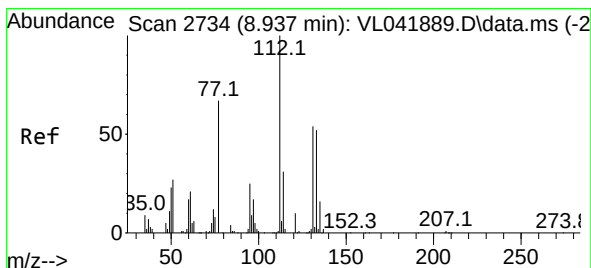
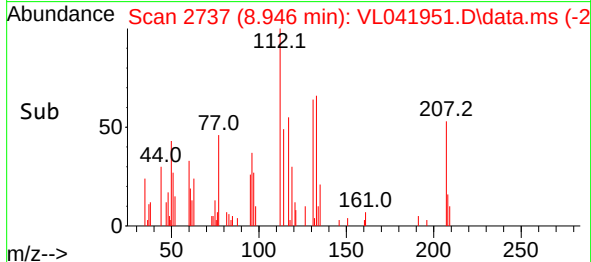
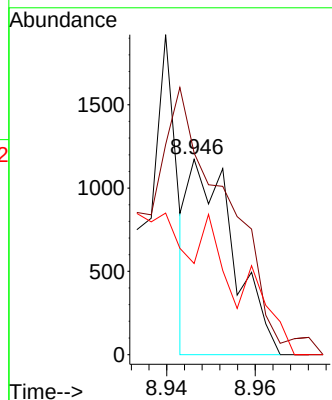
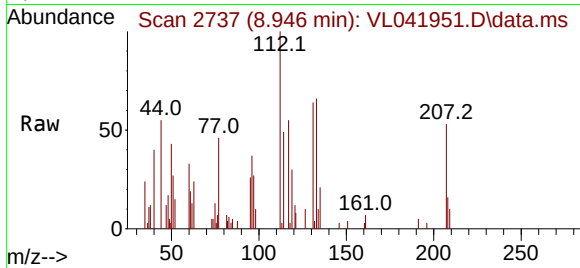




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.050 ppbv
 RT: 8.946 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

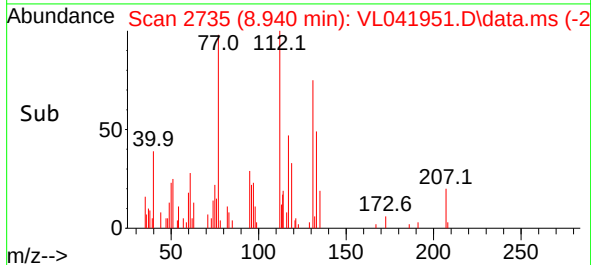
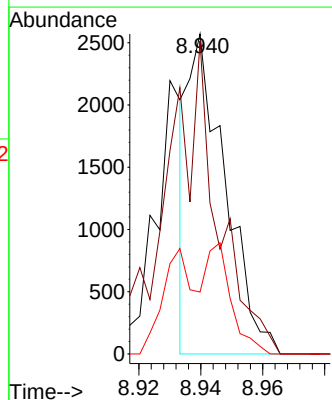
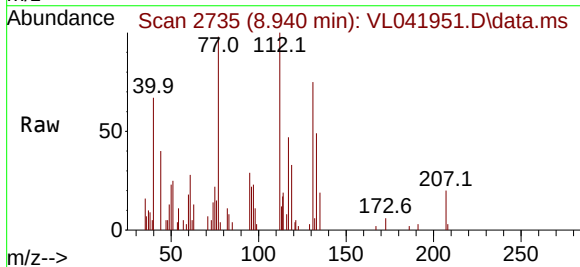
Instrument :
 MSVOA_L
 ClientSampleId :

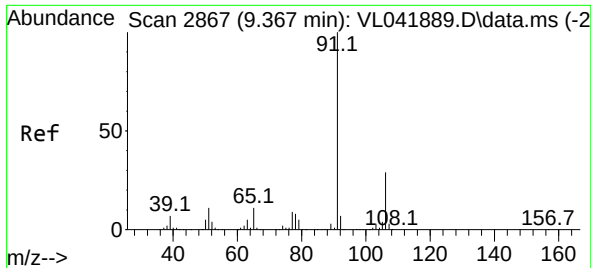
Tgt Ion:131 Resp: 821
 Ion Ratio Lower Upper
 131 100
 133 266.4 76.0 114.0#
 119 0.0 49.7 74.5#



#57
 Chlorobenzene
 Concen: 0.071 ppbv
 RT: 8.940 min Scan# 2735
 Delta R.T. 0.003 min
 Lab File: VL041951.D
 Acq: 27 Jan 2025 14:37

Tgt Ion:112 Resp: 2158
 Ion Ratio Lower Upper
 112 100
 77 97.9 54.6 82.0#
 114 19.3 28.2 34.4#

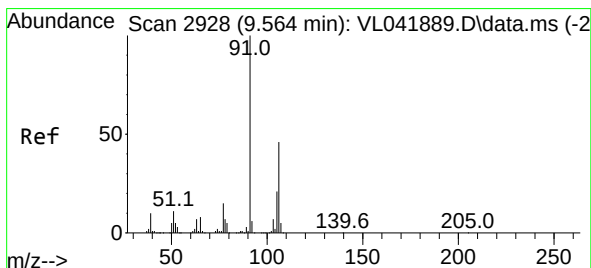
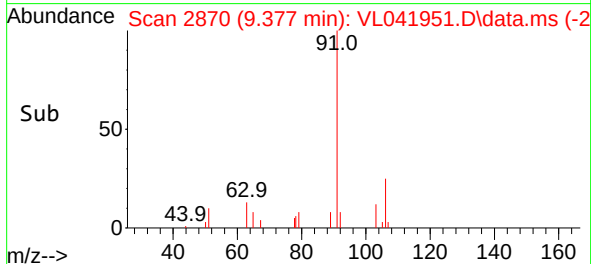
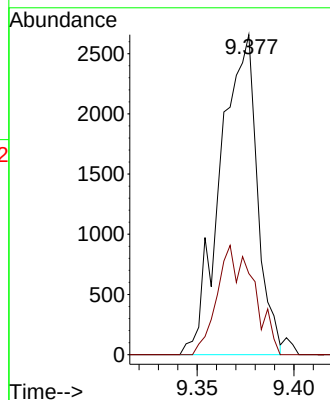
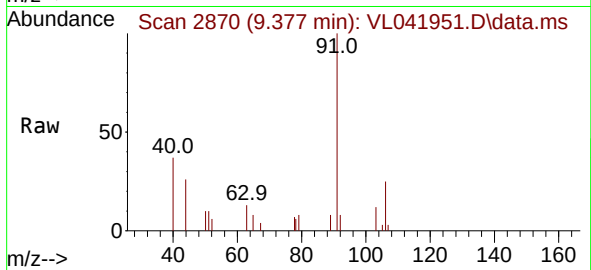




#58
Ethyl Benzene
Concen: 0.068 ppbv
RT: 9.377 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

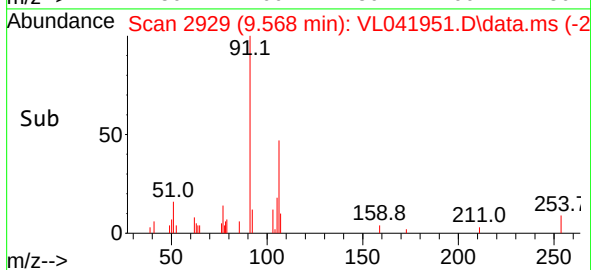
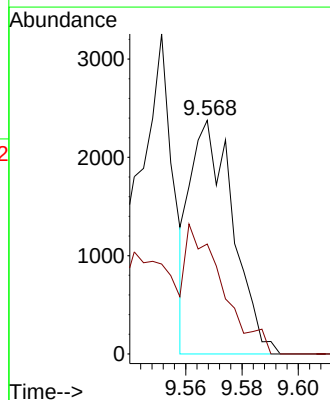
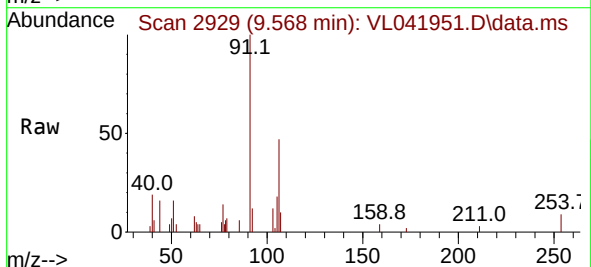
Instrument :
MSVOA_L
ClientSampleId :

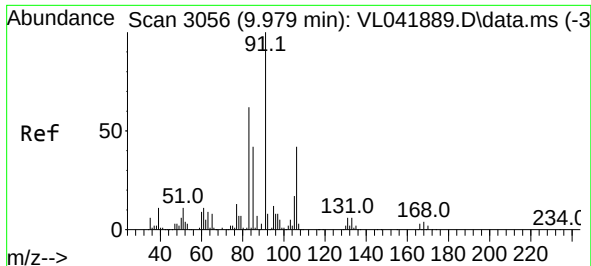
Tgt Ion: 91 Resp: 3517
Ion Ratio Lower Upper
91 100
106 25.4 23.1 34.7



#59
m/p-Xylene
Concen: 0.060 ppbv
RT: 9.568 min Scan# 2929
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 91 Resp: 2502
Ion Ratio Lower Upper
91 100
106 103.2 36.0 54.0#

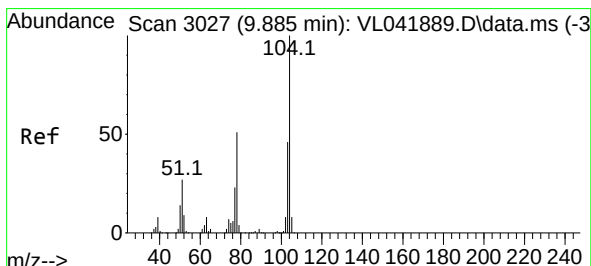
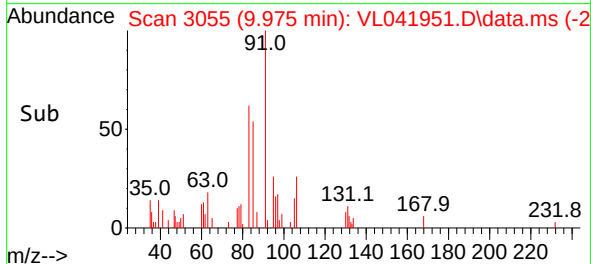
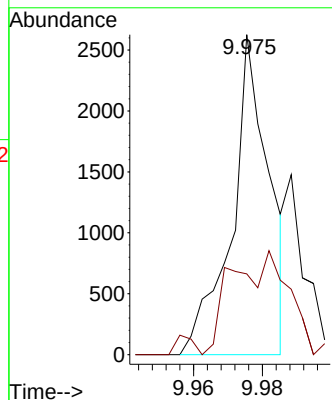
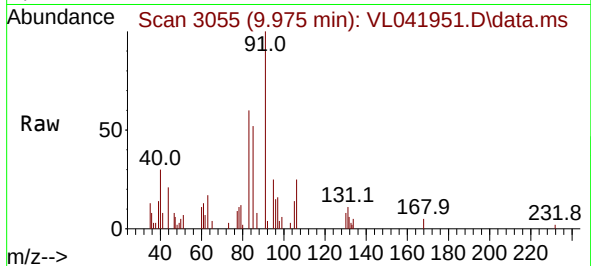




#60
o-Xylene
Concen: 0.048 ppbv
RT: 9.975 min Scan# 3055
Delta R.T. -0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

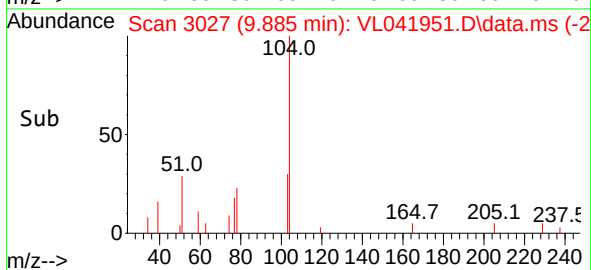
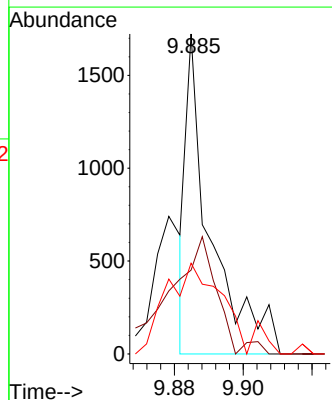
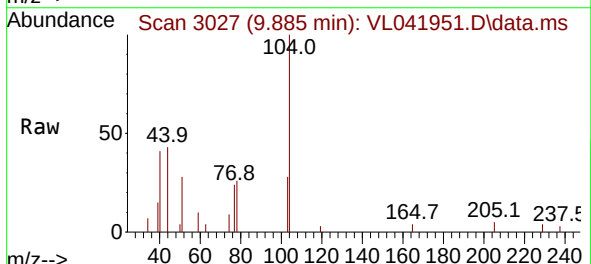
Instrument :
MSVOA_L
ClientSampleId :

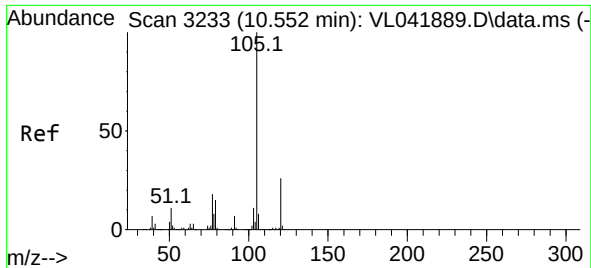
Tgt Ion: 91 Resp: 1957
Ion Ratio Lower Upper
91 100
106 58.1 21.3 63.9



#61
Styrene
Concen: 0.046 ppbv
RT: 9.885 min Scan# 3027
Delta R.T. -0.000 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion:104 Resp: 840
Ion Ratio Lower Upper
104 100
78 72.0 41.0 61.6#
103 70.8 37.2 55.8#

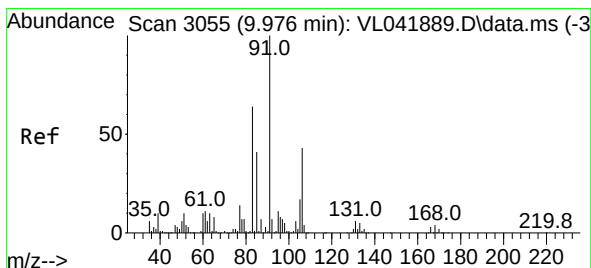
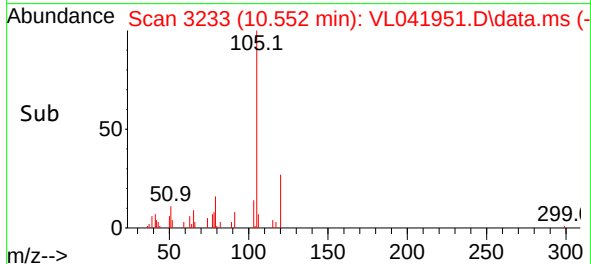
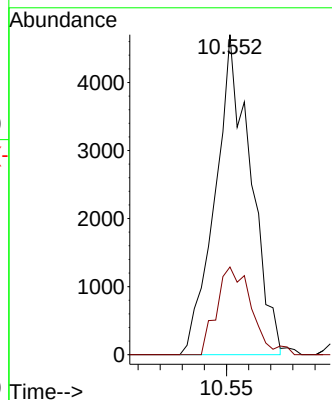
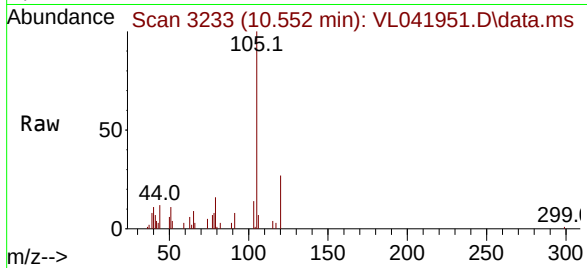




#62
Isopropylbenzene
Concen: 0.082 ppbv
RT: 10.552 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

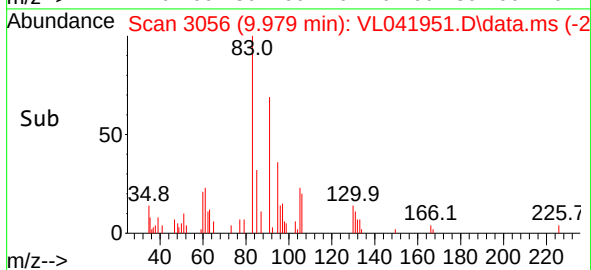
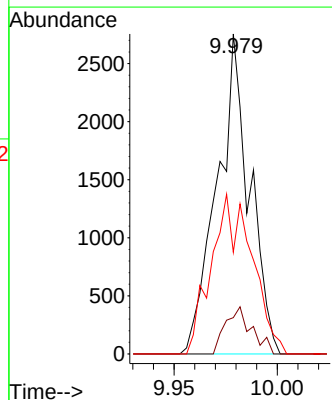
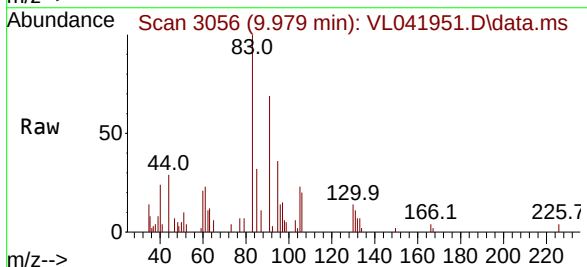
Instrument :
MSVOA_L
ClientSampleId :

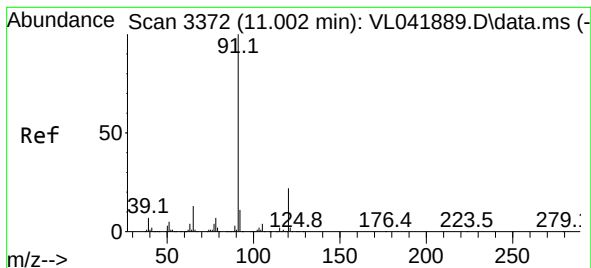
Tgt Ion:105 Resp: 5233
Ion Ratio Lower Upper
105 100
120 26.9 20.3 30.5



#63
1,1,2,2-Tetrachloroethane
Concen: 0.114 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 83 Resp: 3007
Ion Ratio Lower Upper
83 100
131 11.8 4.8 14.4
85 62.7 32.4 97.2





#64

n-propylbenzene

Concen: 0.060 ppbv

RT: 10.998 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

Instrument :

MSVOA_L

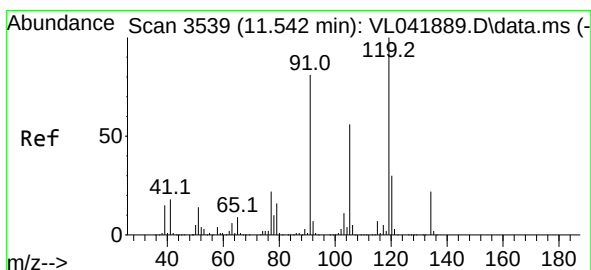
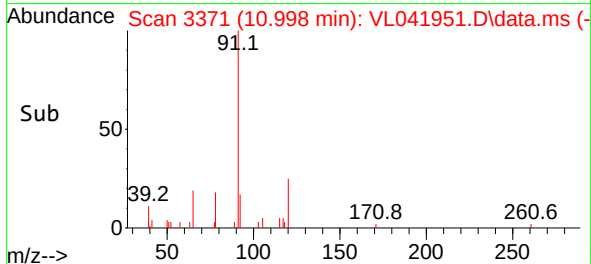
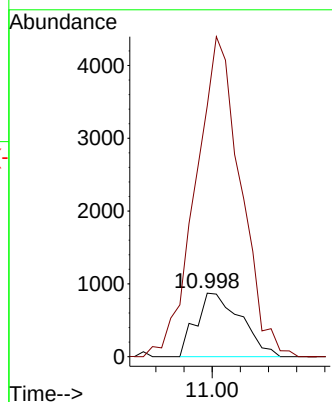
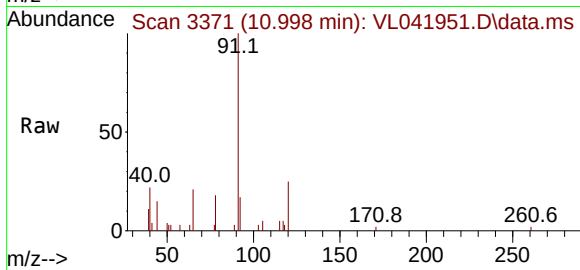
ClientSampleId :

Tgt Ion:120 Resp: 964

Ion Ratio Lower Upper

120 100

91 506.7 374.1 561.1



#65

tert-Butylbenzene

Concen: 0.050 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. -0.000 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

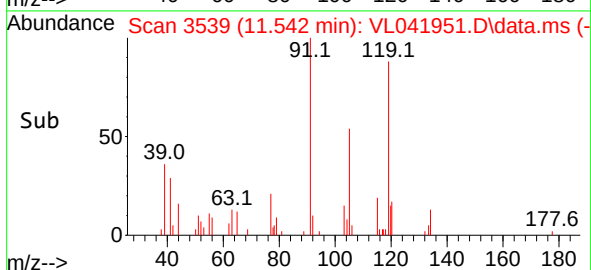
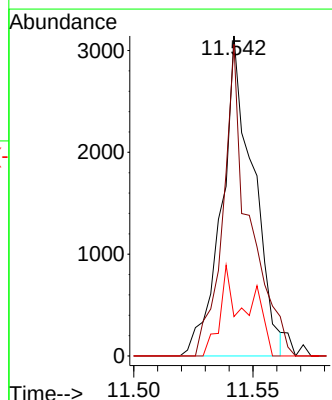
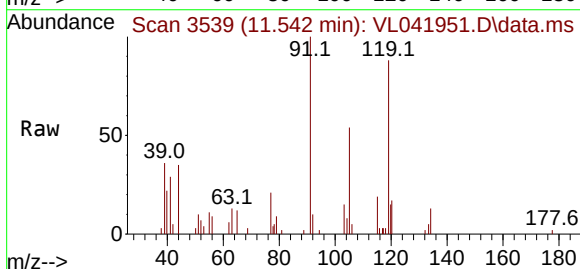
Tgt Ion:119 Resp: 2876

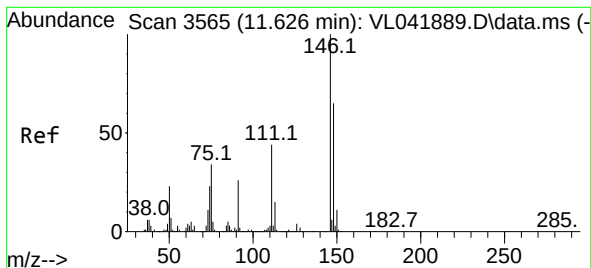
Ion Ratio Lower Upper

119 100

91 81.2 64.6 97.0

134 24.5 16.8 25.2

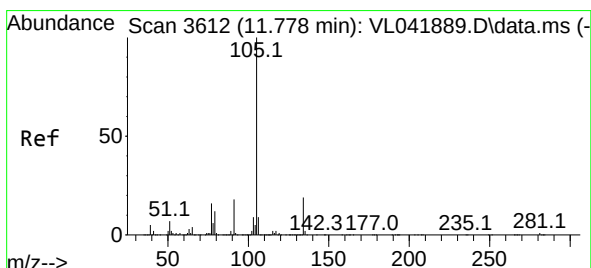
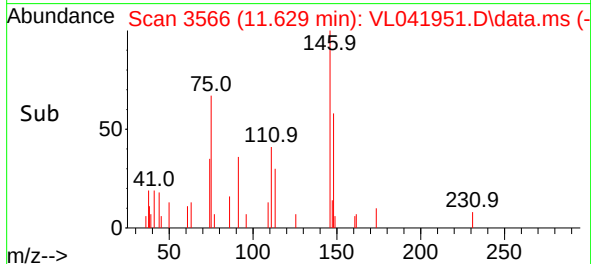
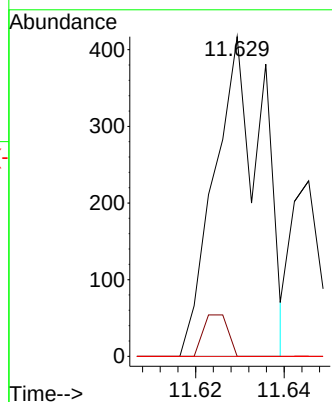
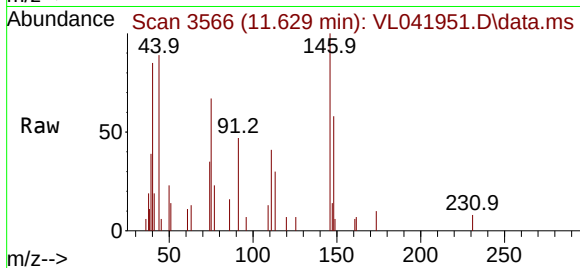




#66
Benzyl Chloride
Concen: 0.088 ppbv
RT: 11.629 min Scan# 316
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

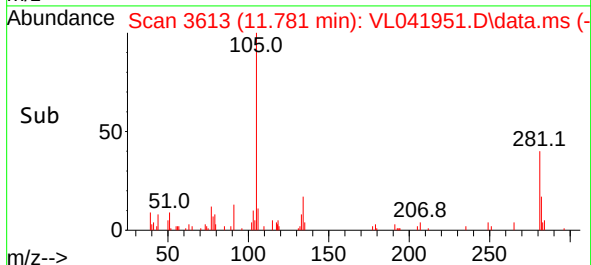
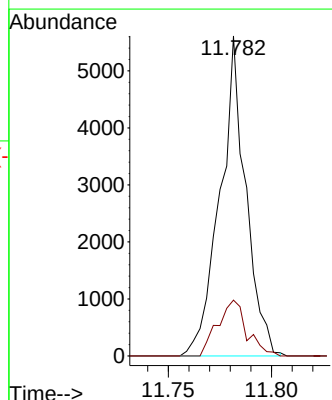
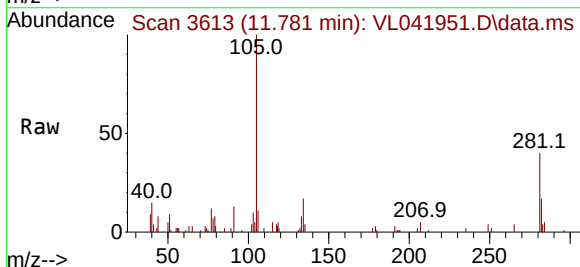
Instrument :
MSVOA_L
ClientSampleId :

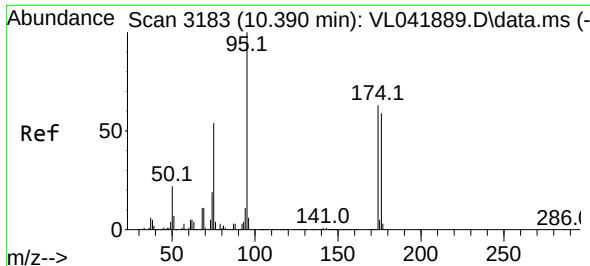
Tgt Ion: 91 Resp: 316
Ion Ratio Lower Upper
91 100
126 6.6 14.1 21.1#
128 0.0 4.3 6.5#



#67
sec-Butylbenzene
Concen: 0.061 ppbv
RT: 11.781 min Scan# 3613
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 105 Resp: 4891
Ion Ratio Lower Upper
105 100
134 19.8 15.1 22.7

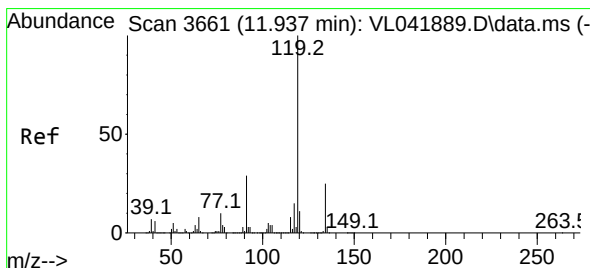
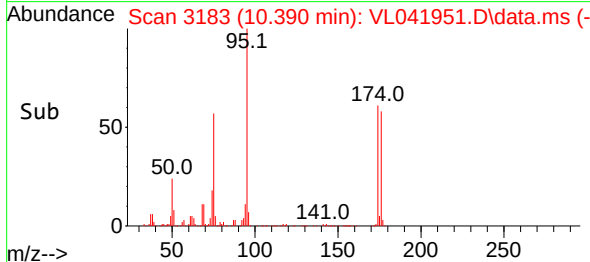
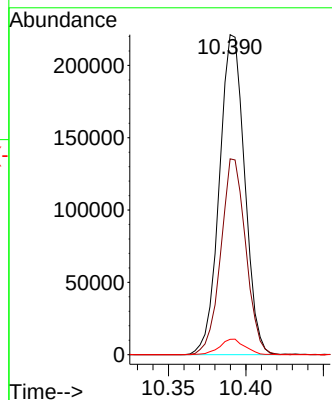
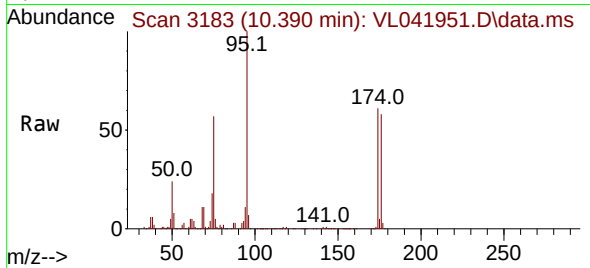




#68
1-Bromo-4-Fluorobenzene
Concen: 9.642 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.000 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

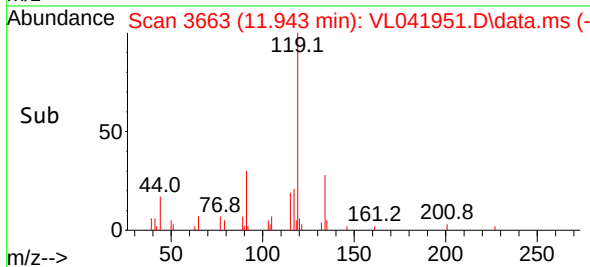
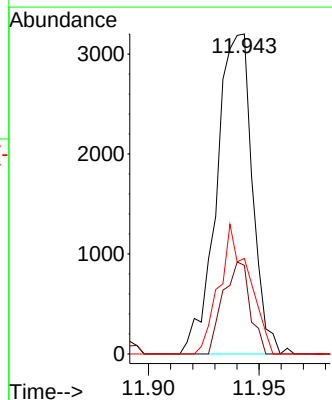
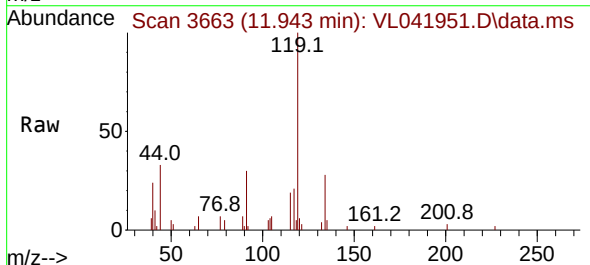
Instrument :
MSVOA_L
ClientSampleId :

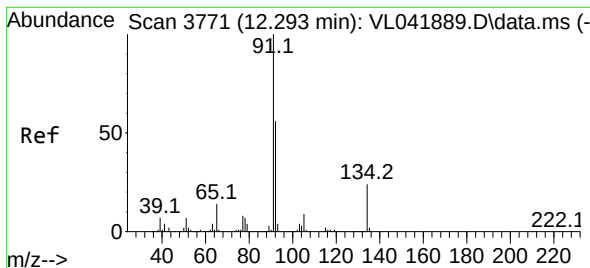
Tgt Ion: 95 Resp: 251323
Ion Ratio Lower Upper
95 100
174 60.4 49.0 73.4
175 4.9 3.8 5.8



#69
p-Isopropyltoluene
Concen: 0.054 ppbv
RT: 11.943 min Scan# 3663
Delta R.T. 0.006 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

Tgt Ion: 119 Resp: 3580
Ion Ratio Lower Upper
119 100
134 21.8 19.8 29.6
91 33.9 23.0 34.4





#70

n-Butylbenzene

Concen: 0.050 ppbv

RT: 12.293 min Scan# 3771

Delta R.T. -0.000 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

Instrument :

MSVOA_L

ClientSampleId :

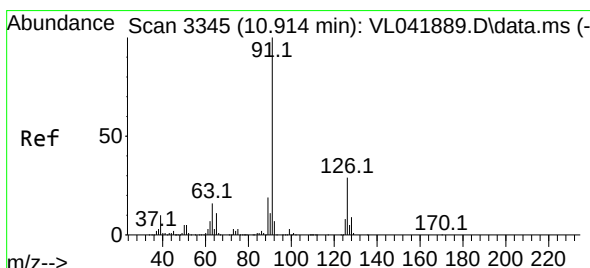
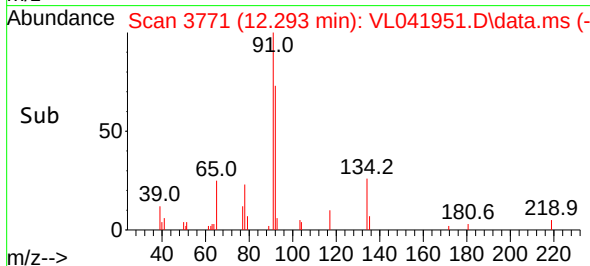
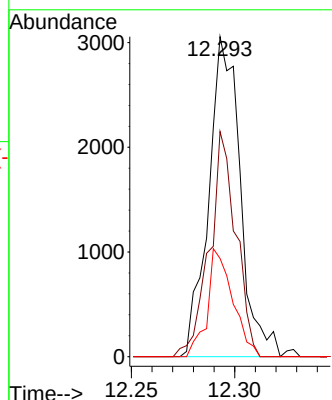
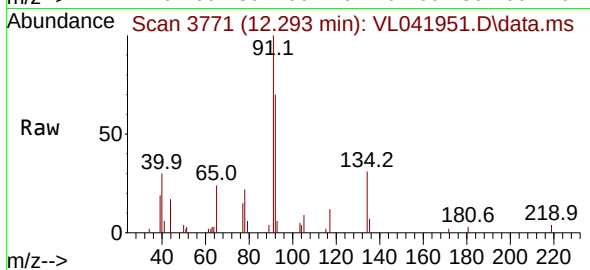
Tgt Ion: 91 Resp: 3251

Ion Ratio Lower Upper

91 100

92 58.9 43.8 65.6

134 26.9 19.0 28.6



#71

2-Chlorotoluene

Concen: 0.075 ppbv

RT: 10.917 min Scan# 3346

Delta R.T. 0.003 min

Lab File: VL041951.D

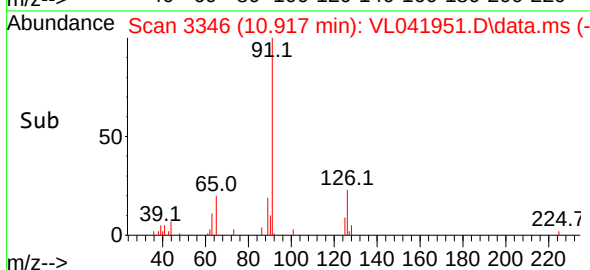
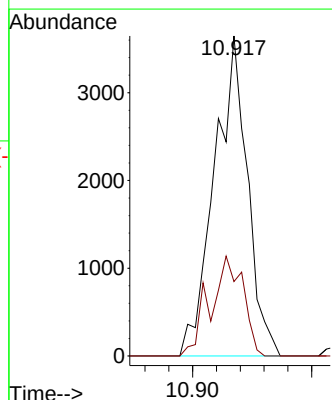
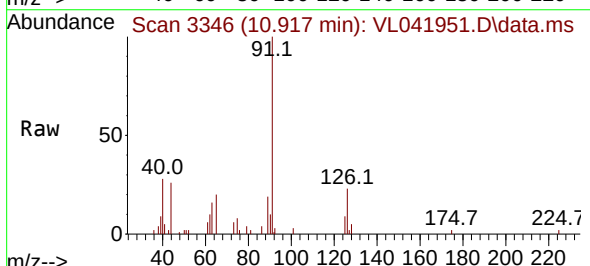
Acq: 27 Jan 2025 14:37

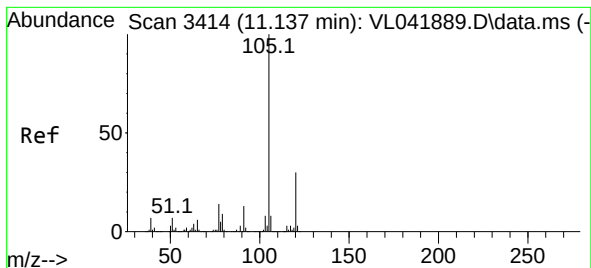
Tgt Ion: 91 Resp: 3509

Ion Ratio Lower Upper

91 100

126 31.2 11.7 46.7





#72

4-Ethyltoluene

Concen: 0.053 ppbv

RT: 11.141 min Scan# 3415

Delta R.T. 0.003 min

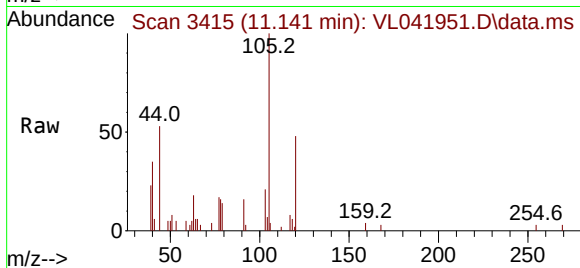
Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:105 Resp: 2593

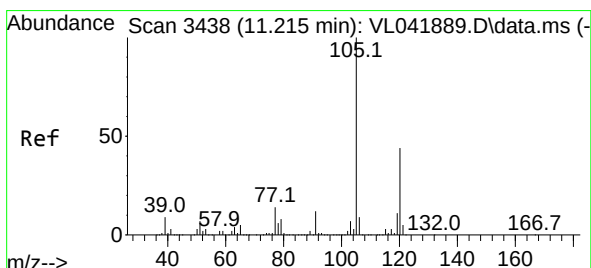
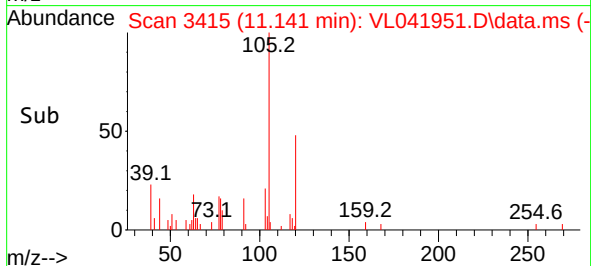
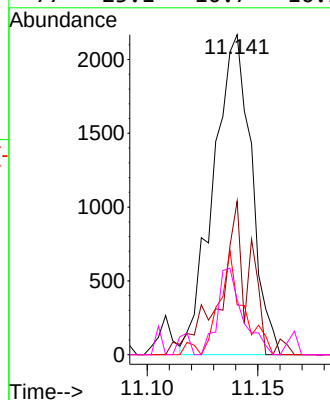
Ion Ratio Lower Upper

105 100

120 37.6 23.7 35.5#

91 20.9 10.2 15.2#

77 23.1 10.7 16.1#



#73

1,3,5-Trimethylbenzene

Concen: 0.045 ppbv

RT: 11.215 min Scan# 3438

Delta R.T. -0.000 min

Lab File: VL041951.D

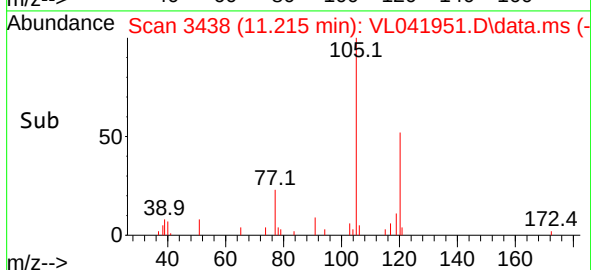
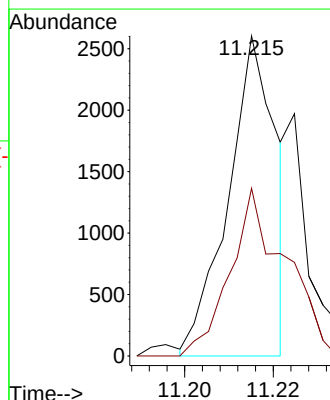
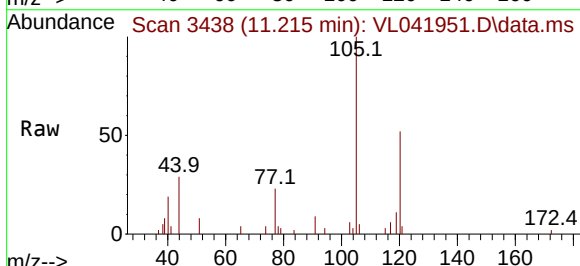
Acq: 27 Jan 2025 14:37

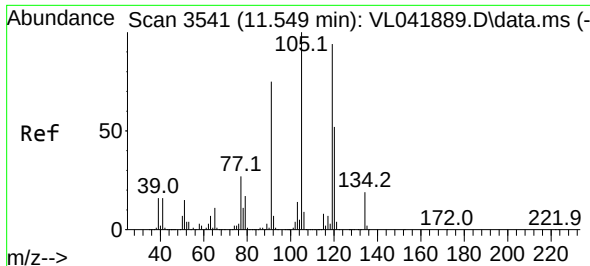
Tgt Ion:105 Resp: 1953

Ion Ratio Lower Upper

105 100

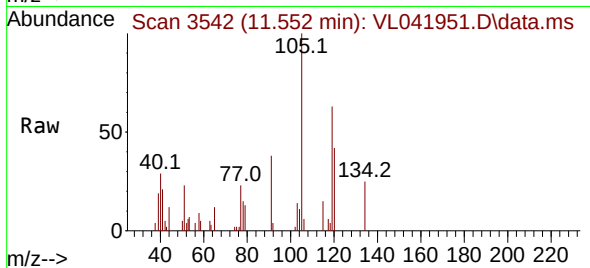
120 57.2 35.4 53.2#



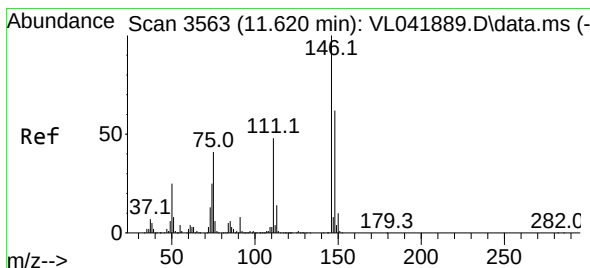
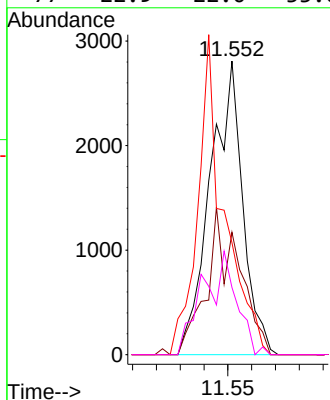
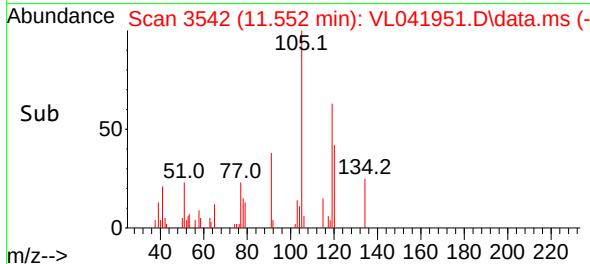


#74
1,2,4-Trimethylbenzene
Concen: 0.057 ppbv
RT: 11.552 min Scan# 3542
Delta R.T. 0.003 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37

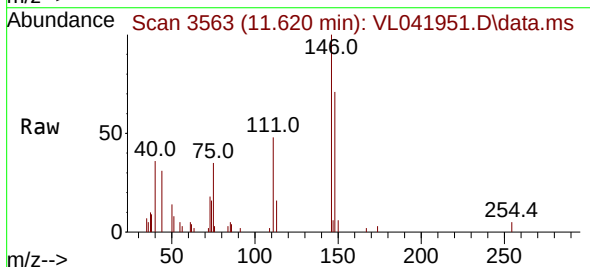
Instrument :
MSVOA_L
ClientSampleId :



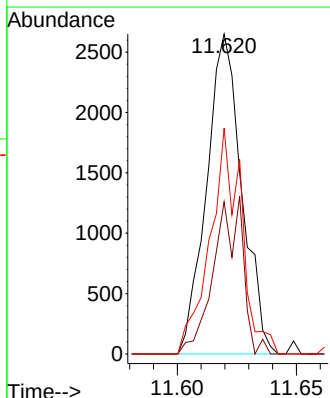
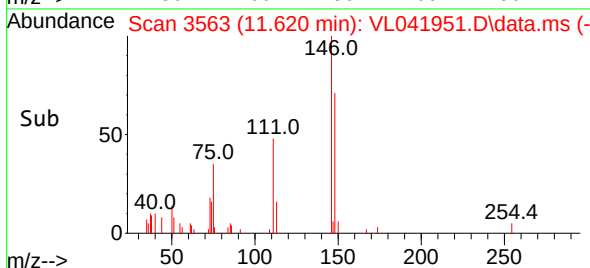
Tgt Ion:	105	Resp:	2662
Ion	Ratio	Lower	Upper
105	100		
120	41.7	41.4	62.2
91	42.4	60.2	90.2#
77	22.9	22.0	33.0

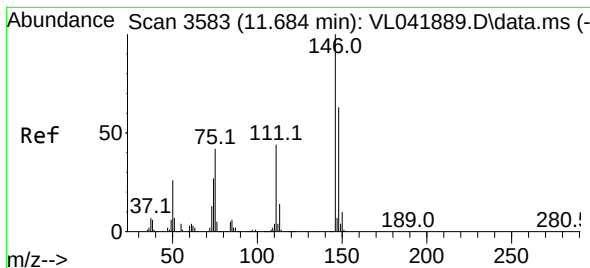


#75
1,3-Dichlorobenzene
Concen: 0.098 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. -0.000 min
Lab File: VL041951.D
Acq: 27 Jan 2025 14:37



Tgt Ion:	146	Resp:	2724
Ion	Ratio	Lower	Upper
146	100		
111	40.2	23.6	70.8
148	62.8	31.4	94.0





#76

1,4-Dichlorobenzene

Concen: 0.054 ppbv

RT: 11.681 min Scan# 3582

Delta R.T. -0.003 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

Instrument :

MSVOA_L

ClientSampleId :

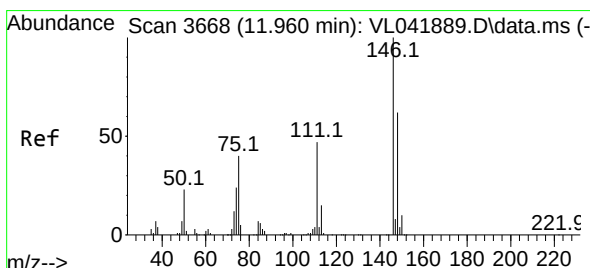
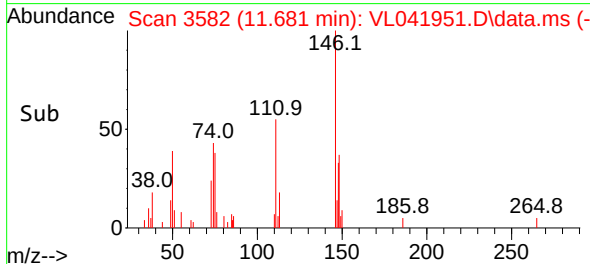
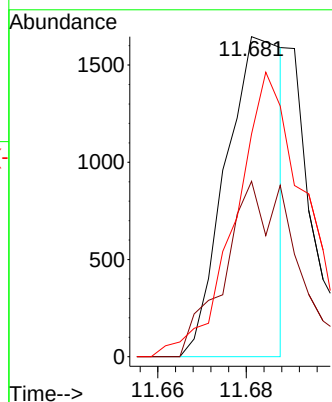
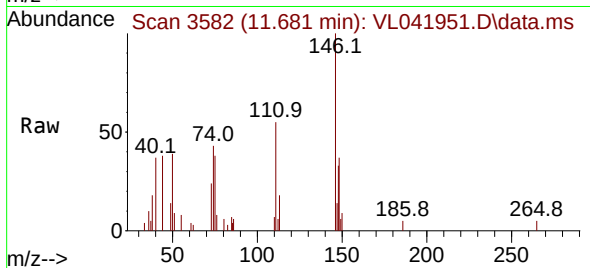
Tgt Ion:146 Resp: 1463

Ion Ratio Lower Upper

146 100

111 68.1 22.4 67.0#

148 106.5 31.9 95.5#



#77

1,2-Dichlorobenzene

Concen: 0.087 ppbv

RT: 11.960 min Scan# 3668

Delta R.T. -0.000 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

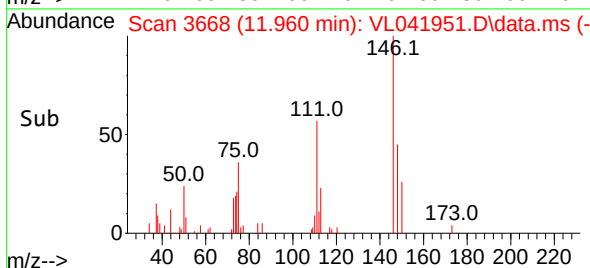
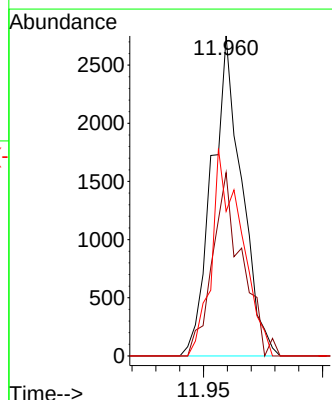
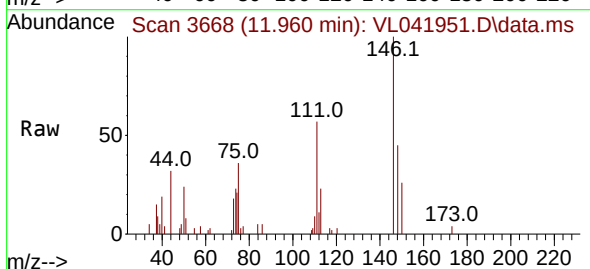
Tgt Ion:146 Resp: 2400

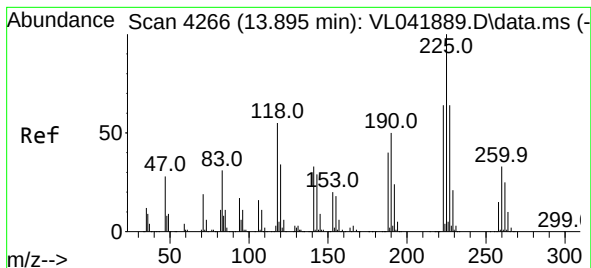
Ion Ratio Lower Upper

146 100

111 56.3 24.2 72.6

148 64.1 31.7 95.1





#78

Hexachloro-1,3-Butadiene

Concen: 0.109 ppbv

RT: 13.895 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

Instrument :

MSVOA_L

ClientSampleId :

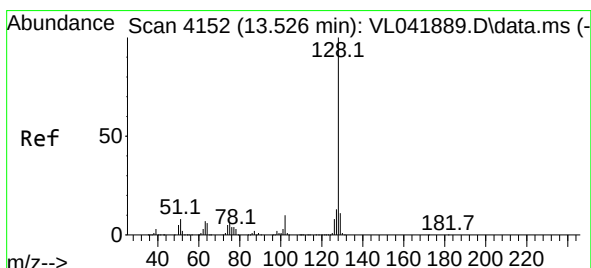
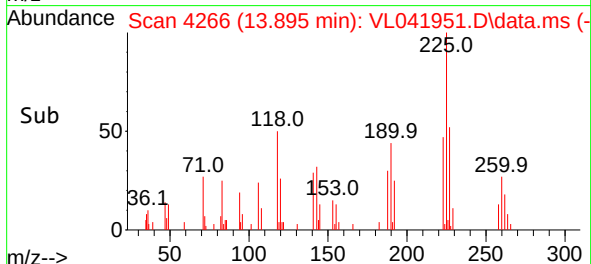
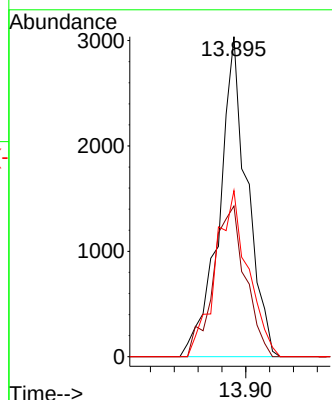
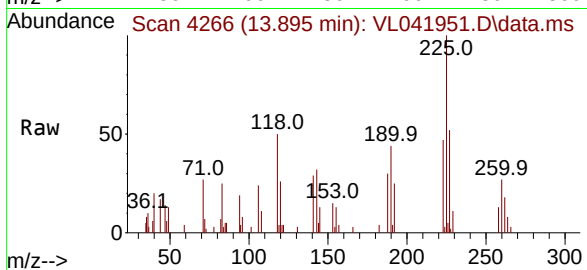
Tgt Ion:225 Resp: 2478

Ion Ratio Lower Upper

225 100

223 54.2 50.8 76.2

227 59.9 50.3 75.5



#79

Naphthalene

Concen: 0.044 ppbv

RT: 13.523 min Scan# 4151

Delta R.T. -0.003 min

Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

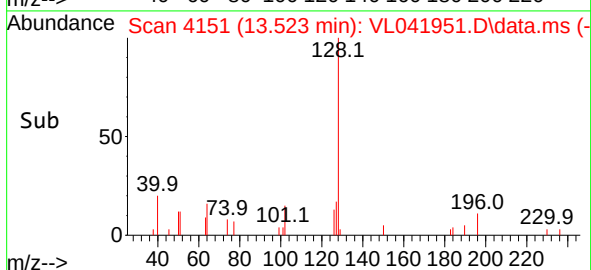
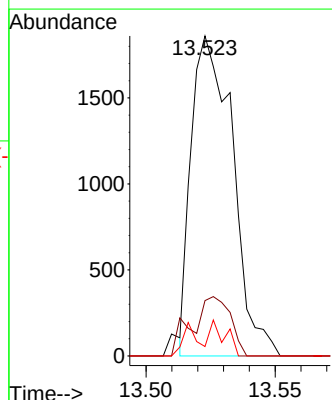
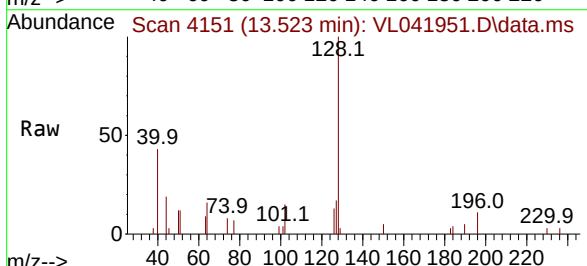
Tgt Ion:128 Resp: 2077

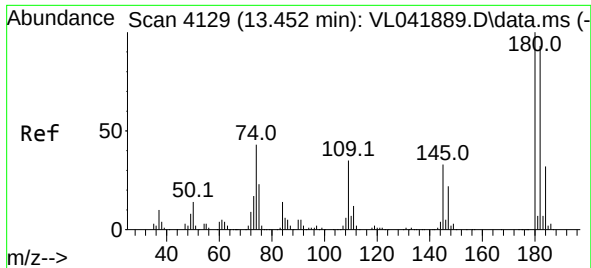
Ion Ratio Lower Upper

128 100

127 17.3 10.2 15.4#

129 3.0 9.1 13.7#





#81

1,2,4-Trichlorobenzene

Concen: 0.072 ppbv

RT: 13.452 min Scan# 41

Delta R.T. -0.000 min

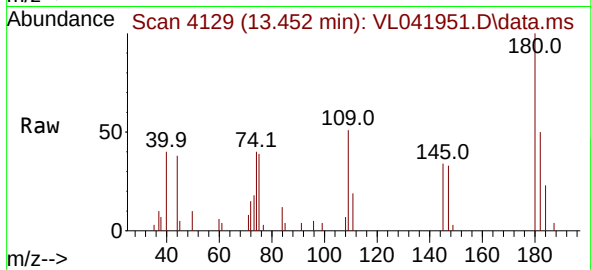
Lab File: VL041951.D

Acq: 27 Jan 2025 14:37

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:180 Resp: 1665

Ion Ratio Lower Upper

180 100

182 79.8 77.0 115.6

184 27.9 24.9 37.3

