

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072425\
 Data File : VL042767.D
 Acq On : 24 Jul 2025 16:17
 Operator : SY/MD
 Sample : Q2671-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 25 01:28:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	149110	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	411819	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	377399	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	300204	10.044	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	7879	0.400	ppbv	97
3) Chlorodifluoromethane	1.466	51	1546499	60.218	ppbv #	59
4) Chloromethane	1.534	50	4426	0.555	ppbv #	84
6) Bromomethane	1.677	94	165	0.054	ppbv #	15
7) Chloroethane	1.466	64	99645	32.727	ppbv	96
8) Dichlorotetrafluoroethane	1.557	85	541	0.033	ppbv #	69
9) Propene	1.560	41	1303578	139.661	ppbv	90
10) Heptane	4.991	43	5039	0.200	ppbv #	68
11) Trichlorofluoromethane	1.881	101	4048	0.199	ppbv	86
12) 1,1,2-Trichlorotrifluo...	2.143	101	1337	0.087	ppbv #	82
13) Ethanol	1.725	45	878523	1291.503	ppbv	92
15) Acetone	1.839	43	478727	23.251	ppbv	99
16) 1,3-Butadiene	1.625	39	284621	32.408	ppbv #	18
17) tert-Butyl alcohol	2.046	59	8444	0.455	ppbv #	72
19) Isopropyl Alcohol	1.890	45	284464	25.998	ppbv	94
20) Methylene Chloride	2.065	84	4822	0.743	ppbv #	86
21) Allyl Chloride	1.890	41	26088	2.056	ppbv #	71
23) Vinyl Acetate	2.457	43	18008	0.721	ppbv #	91
25) Ethyl Acetate	2.832	43	178839	3.924	ppbv #	90
26) Hexane	2.832	57	171539	8.580	ppbv #	53
27) Carbon Disulfide	2.156	76	965	0.056	ppbv #	1
29) Chloroform	2.852	83	14358	0.465	ppbv	94
31) cis-1,2-Dichloroethene	2.842	61	8009	0.390	ppbv #	23
32) 1,1,1-Trichloroethane	3.373	97	6414	0.199	ppbv #	86
34) 2-Butanone	2.564	43	19454	0.667	ppbv	94
35) Carbon Tetrachloride	3.771	117	1862	0.061	ppbv	98
36) Benzene	3.664	78	4222	0.108	ppbv #	81
37) 1,2-Dichloroethane	3.224	62	9737	0.414	ppbv	98
39) 1,2-Dichloropropane	3.965	63	108262	7.515	ppbv #	21
41) Tetrahydrofuran	3.069	42	1223	0.082	ppbv #	67
43) Methyl Methacrylate	4.888	69	738	0.053	ppbv #	1
44) 2,2,4-Trimethylpentane	4.645	57	2003	0.031	ppbv #	1
52) Tetrachloroethene	8.241	164	984	0.061	ppbv #	41
53) Toluene	6.946	91	33987	0.811	ppbv	99
58) Ethyl Benzene	9.361	91	5433	0.091	ppbv	91
59) m/p-Xylene	9.561	91	3119	0.065	ppbv #	30
60) o-Xylene	9.969	91	5451	0.115	ppbv	100
61) Styrene	9.878	104	3486	0.174	ppbv	92
66) Benzyl Chloride	11.542	91	1457	0.285	ppbv #	74
69) p-Isopropyltoluene	11.930	119	3380	0.047	ppbv #	71
72) 4-Ethyltoluene	11.128	105	2764	0.049	ppbv #	84
73) 1,3,5-Trimethylbenzene	11.205	105	3128	0.067	ppbv	90
74) 1,2,4-Trimethylbenzene	11.542	105	8935	0.175	ppbv #	62

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Acq On : 24 Jul 2025 16:17
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Sample : Q2671-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

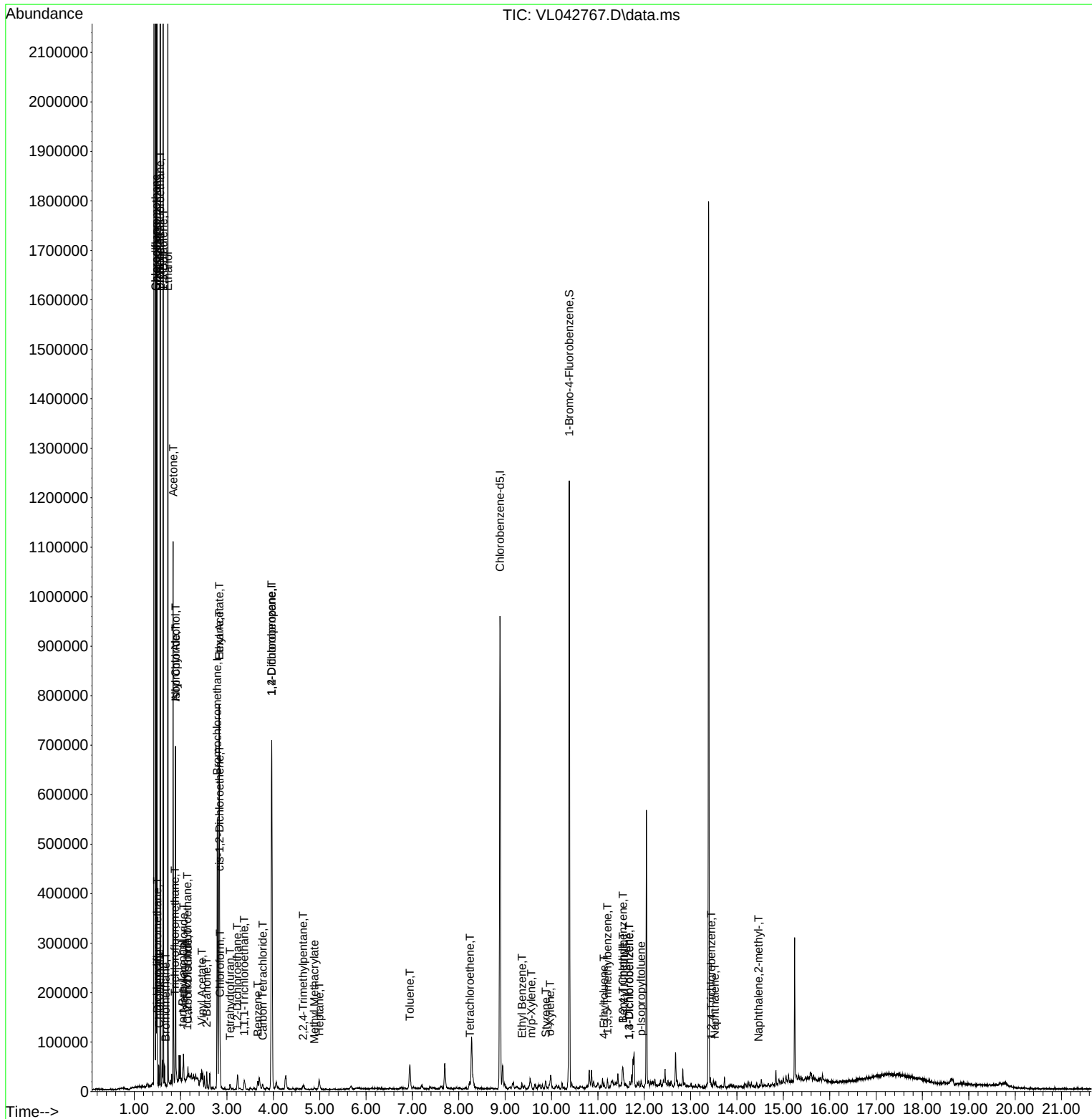
Instrument :
MSVOA_L
ClientSampleId :

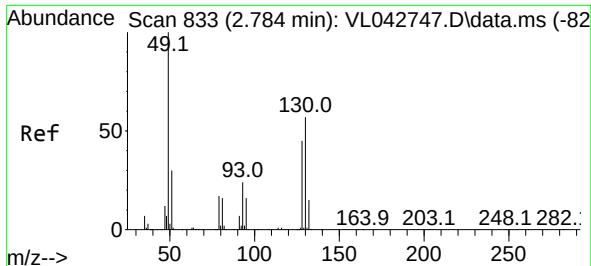
Quant Time: Jul 25 01:28:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 1,3-Dichlorobenzene	11.678	146	934	0.026	ppbv #	62
76) 1,4-Dichlorobenzene	11.678	146	934	0.027	ppbv #	78
79) Naphthalene	13.520	128	2772	0.483	ppbv	96
80) Naphthalene,2-methyl-	14.468	142	297	1.138	ppbv #	64
81) 1,2,4-Trichlorobenzene	13.445	180	203	0.441	ppbv #	80

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

Quant Time: Jul 25 01:28:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

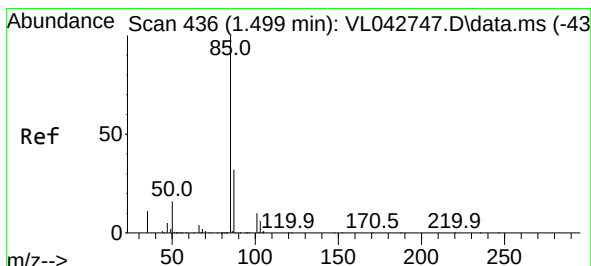
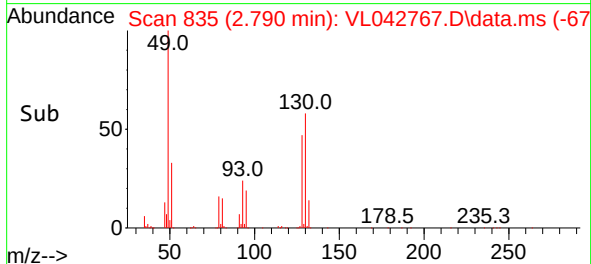
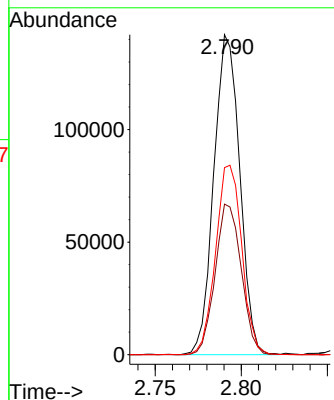
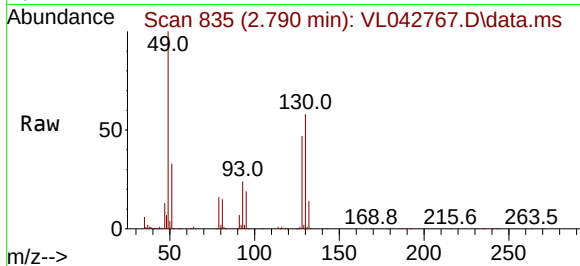




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 833
 Delta R.T. 0.006 min
 Lab File: VL042767.D
 Acq: 24 Jul 2025 16:17

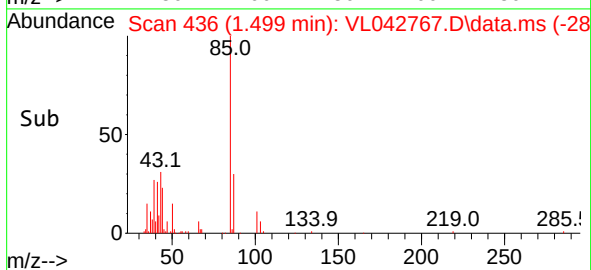
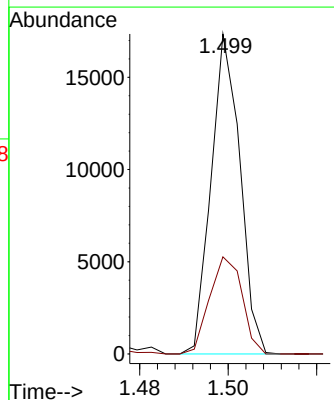
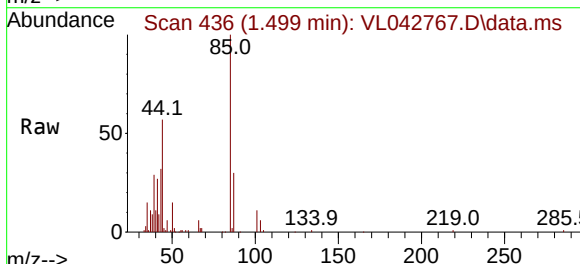
Instrument :
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 ClientSampleId :

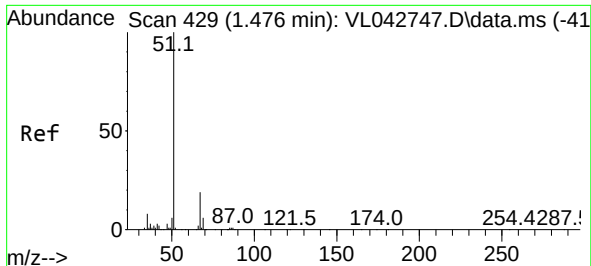
Tgt Ion: 49 Resp: 149110
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.6 71.0
 130 59.8 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.400 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042767.D
 Acq: 24 Jul 2025 16:17

Tgt Ion: 85 Resp: 7879
 Ion Ratio Lower Upper
 85 100
 87 30.4 25.4 38.2

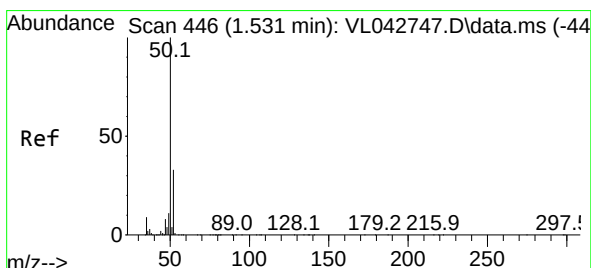
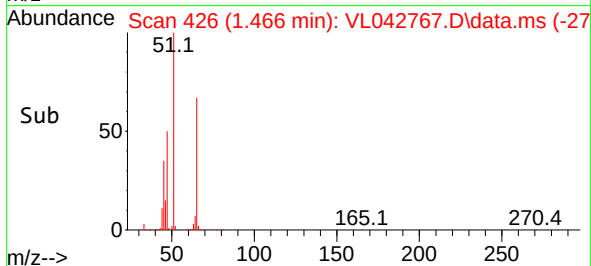
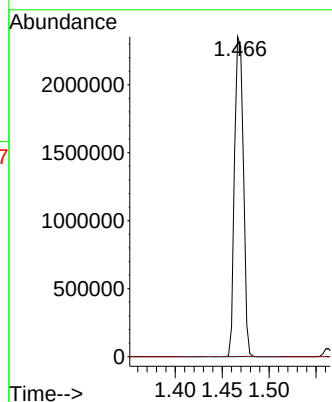
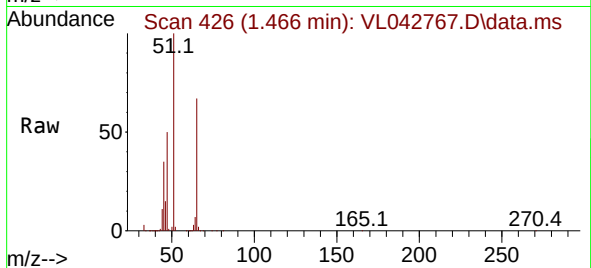




#3
Chlorodifluoromethane
Concen: 60.218 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

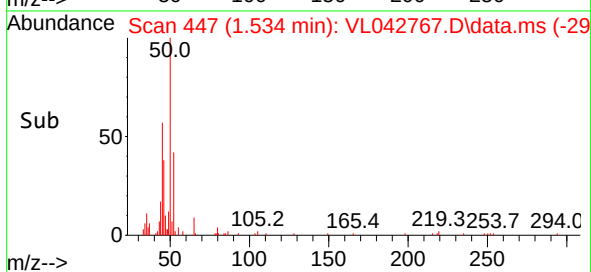
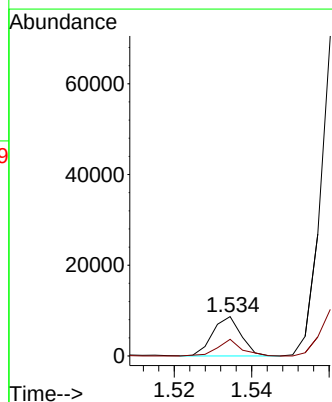
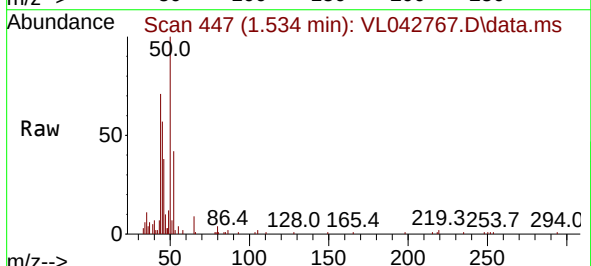
Instrument :
MSVOA_L
ClientSampleId :

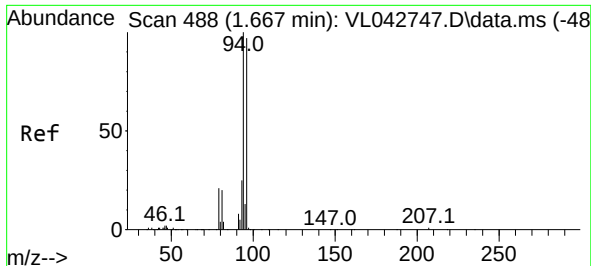
Tgt Ion: 51 Resp: 1546499
Ion Ratio Lower Upper
51 100
67 0.2 15.0 22.6#



#4
Chloromethane
Concen: 0.555 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 50 Resp: 4426
Ion Ratio Lower Upper
50 100
52 42.3 26.6 40.0#

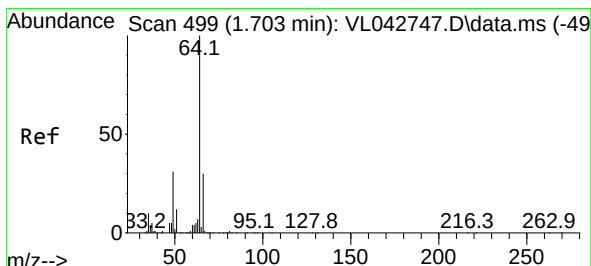
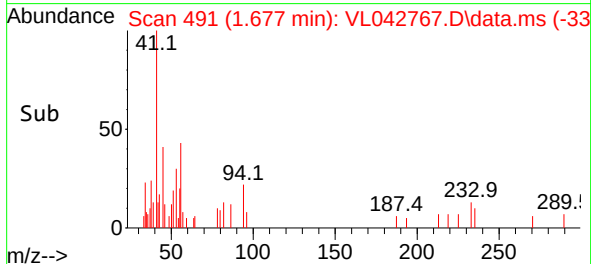
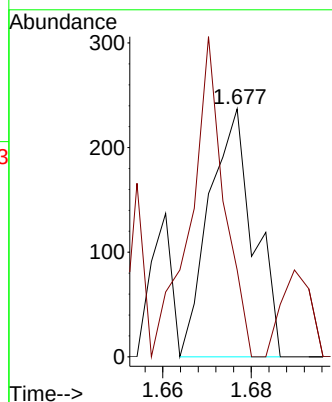
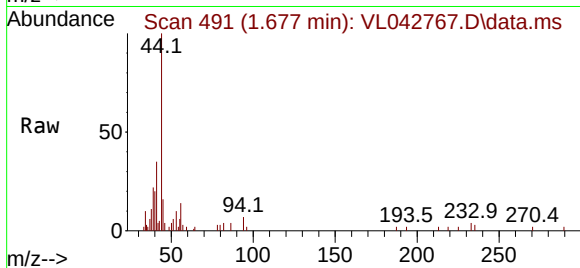




#6
Bromomethane
Concen: 0.054 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.010 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

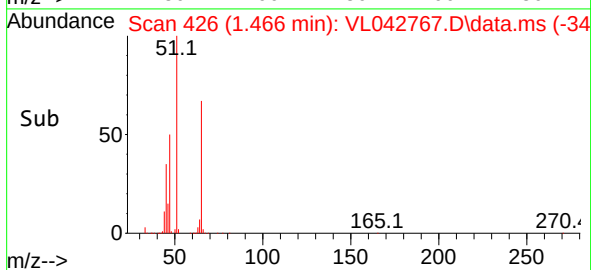
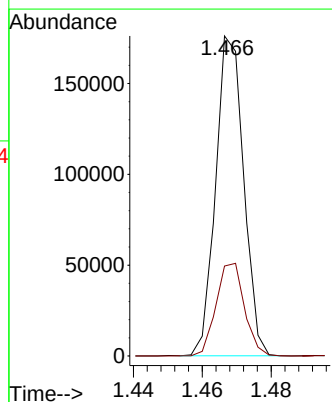
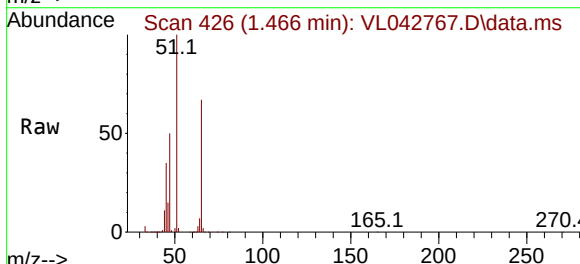
Instrument :
MSVOA_L
ClientSampleId :

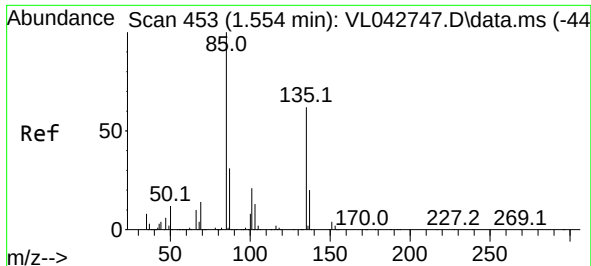
Tgt Ion: 94 Resp: 165
Ion Ratio Lower Upper
94 100
96 13.9 77.6 116.4#



#7
Chloroethane
Concen: 32.727 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.236 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 64 Resp: 99645
Ion Ratio Lower Upper
64 100
66 28.1 24.1 36.1

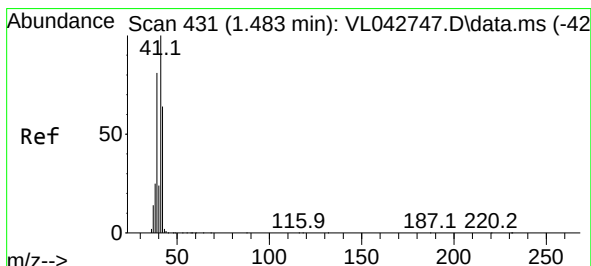
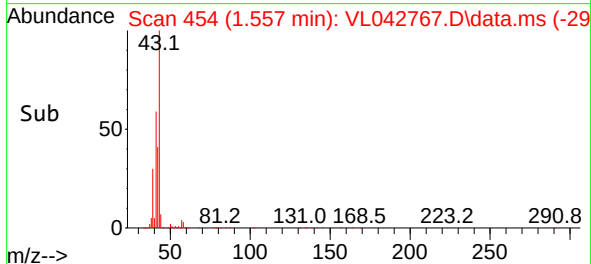
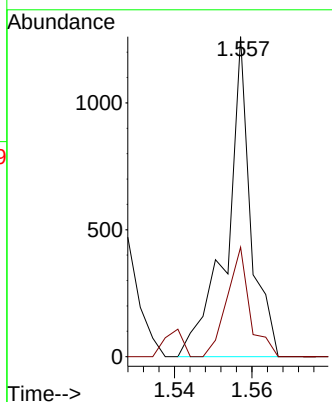
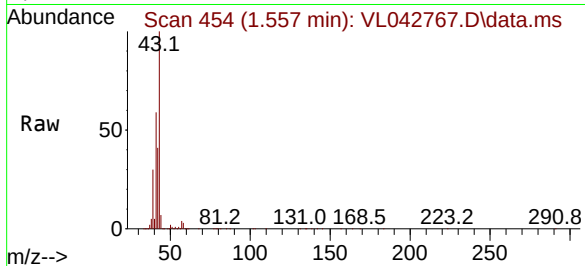




#8
 Dichlorotetrafluoroethane
 Concen: 0.033 ppbv
 RT: 1.557 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042767.D
 Acq: 24 Jul 2025 16:17

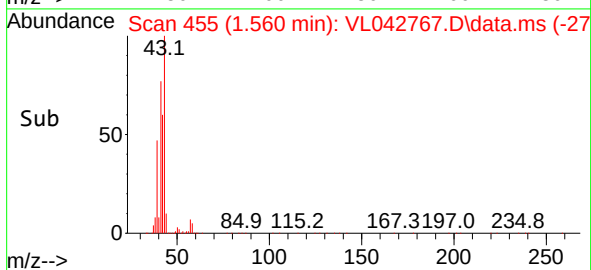
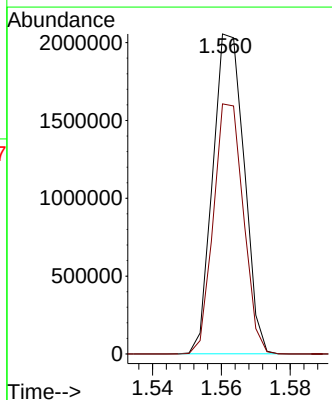
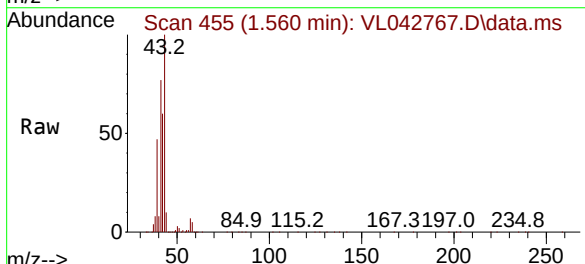
Instrument :
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 ClientSampleId :

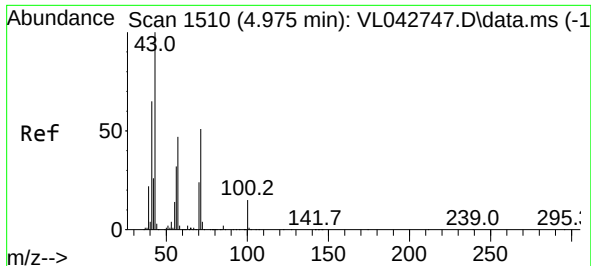
Tgt Ion: 85 Resp: 541
 Ion Ratio Lower Upper
 85 100
 135 39.0 50.6 76.0#



#9
 Propene
 Concen: 139.661 ppbv
 RT: 1.560 min Scan# 455
 Delta R.T. 0.078 min
 Lab File: VL042767.D
 Acq: 24 Jul 2025 16:17

Tgt Ion: 41 Resp: 1303578
 Ion Ratio Lower Upper
 41 100
 42 74.6 53.2 79.8

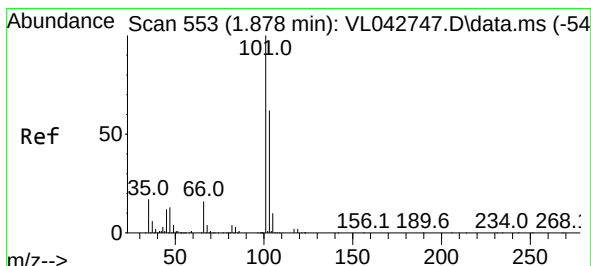
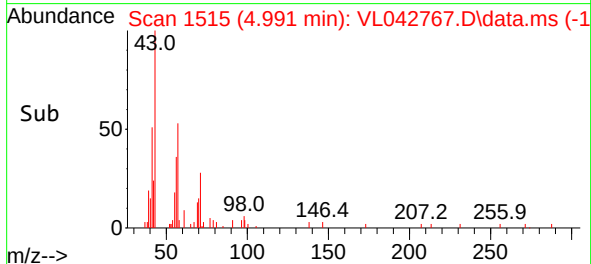
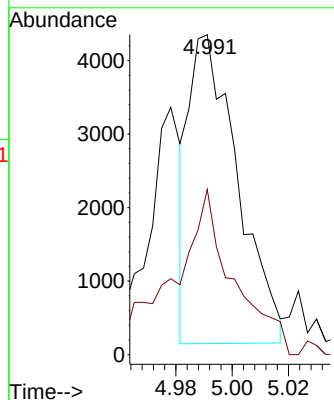
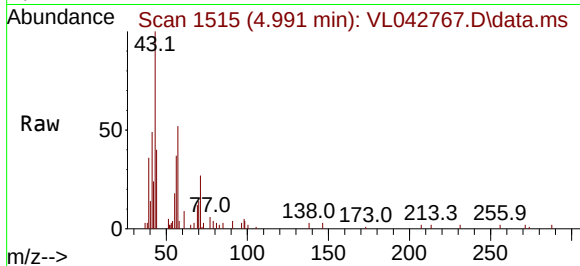




#10
 Heptane
 Concen: 0.200 ppbv
 RT: 4.991 min Scan# 11
 Delta R.T. 0.016 min
 Lab File: VL042767.D
 Acq: 24 Jul 2025 16:17

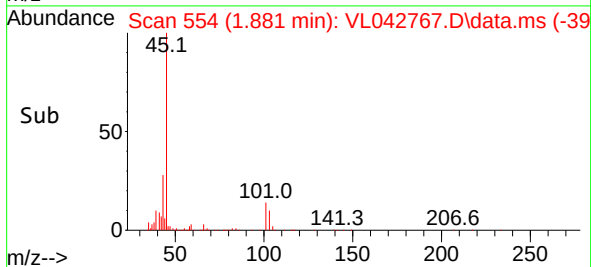
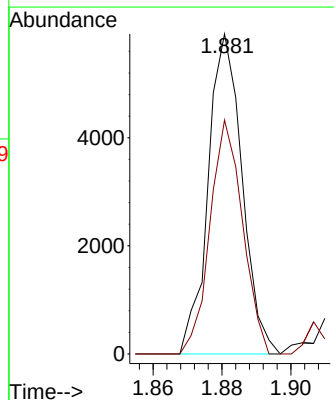
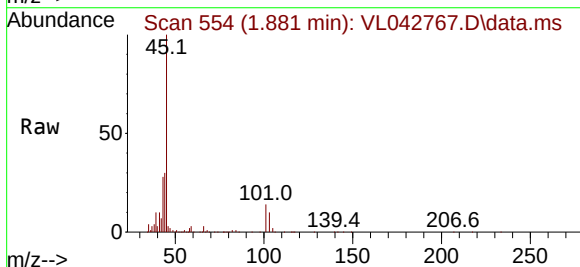
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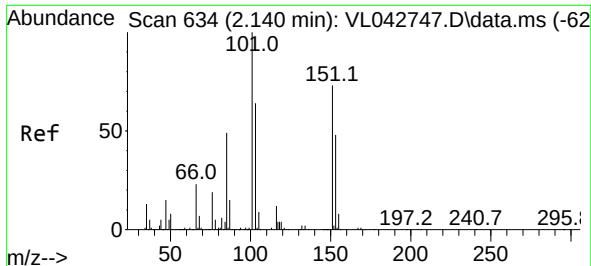
Tgt Ion: 43 Resp: 5039
 Ion Ratio Lower Upper
 43 100
 57 72.1 39.9 59.9#



#11
 Trichlorofluoromethane
 Concen: 0.199 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.003 min
 Lab File: VL042767.D
 Acq: 24 Jul 2025 16:17

Tgt Ion:101 Resp: 4048
 Ion Ratio Lower Upper
 101 100
 103 73.1 49.6 74.4

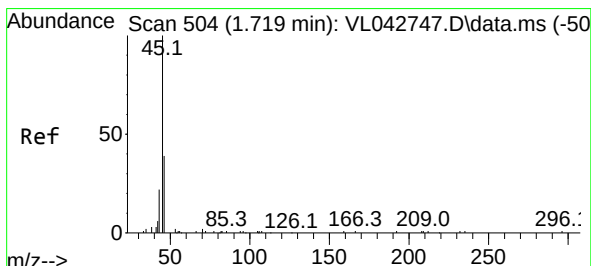
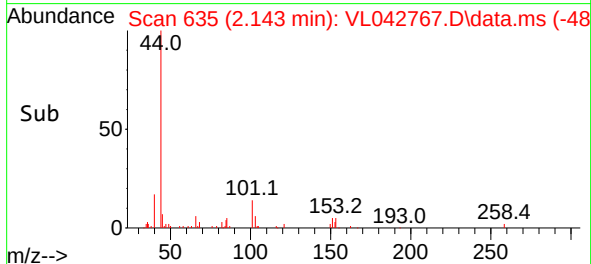
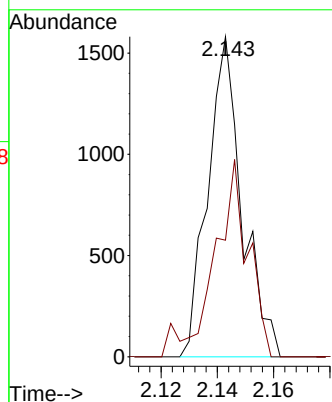
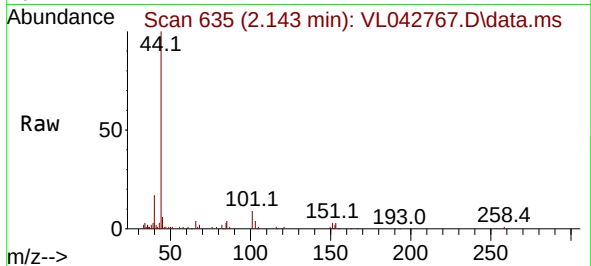




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.087 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

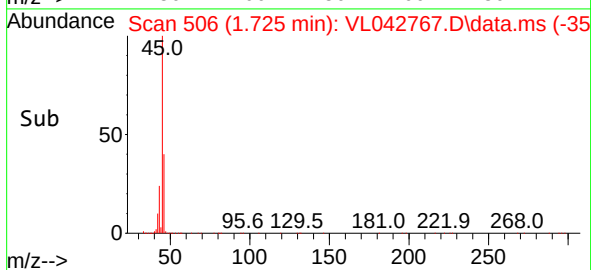
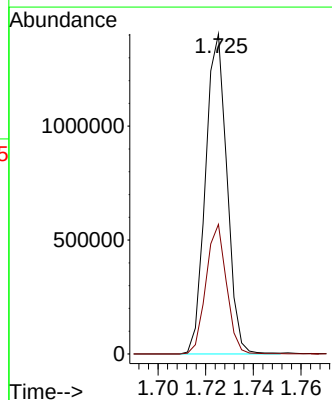
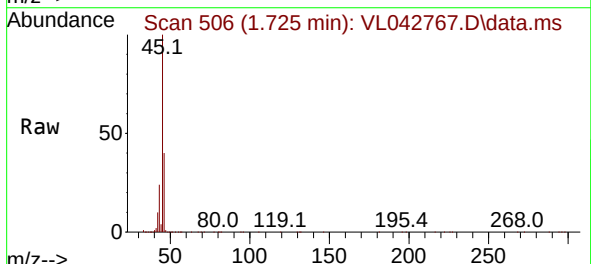
Instrument :
MSVOA_L
ClientSampleId :

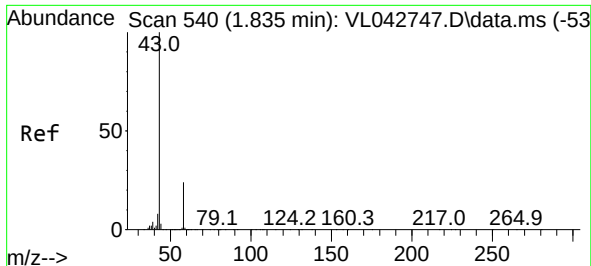
Tgt Ion:101 Resp: 1337
Ion Ratio Lower Upper
101 100
151 60.1 60.5 90.7#



#13
Ethanol
Concen: 1291.503 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 45 Resp: 878523
Ion Ratio Lower Upper
45 100
46 39.1 17.8 71.4

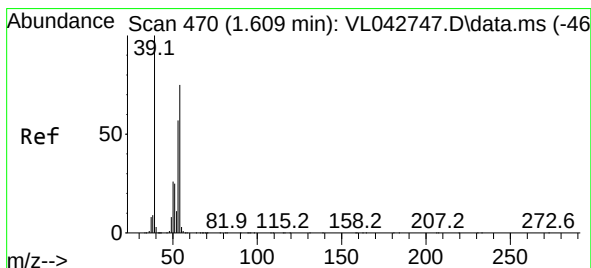
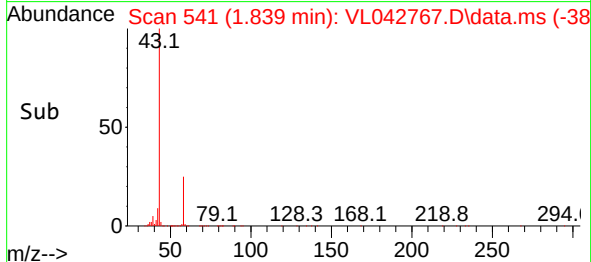
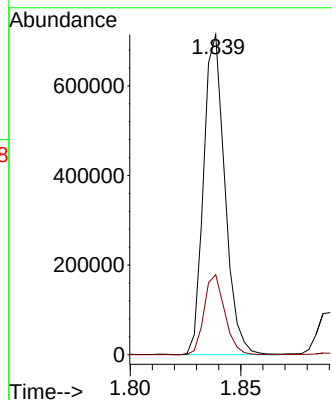
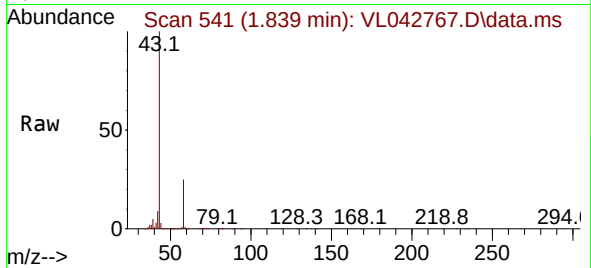




#15
Acetone
Concen: 23.251 ppbv
RT: 1.839 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

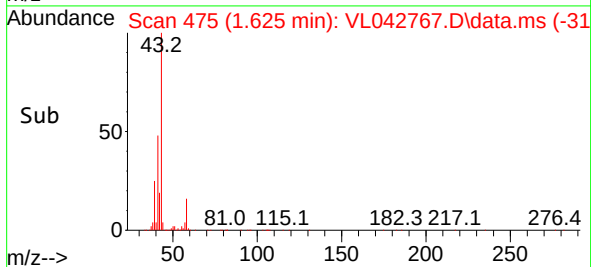
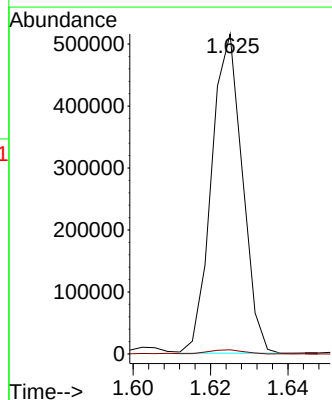
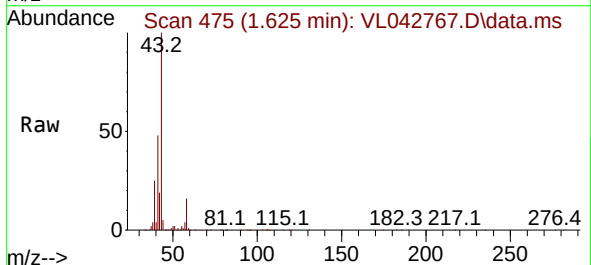
Instrument :
MSVOA_L
ClientSampleId :

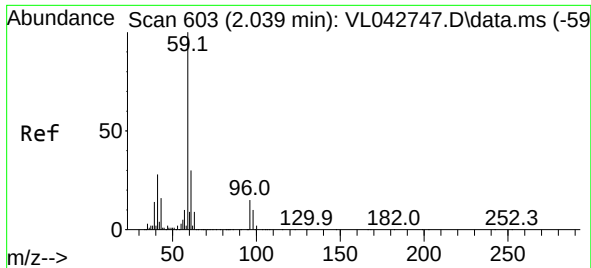
Tgt Ion: 43 Resp: 478727
Ion Ratio Lower Upper
43 100
58 24.3 19.8 29.8



#16
1,3-Butadiene
Concen: 32.408 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.016 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 39 Resp: 284621
Ion Ratio Lower Upper
39 100
54 1.8 54.5 81.7#

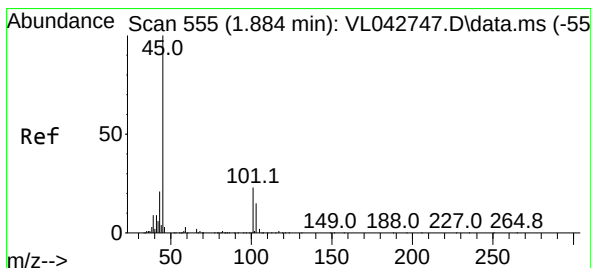
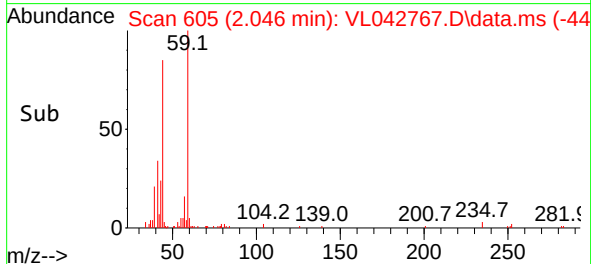
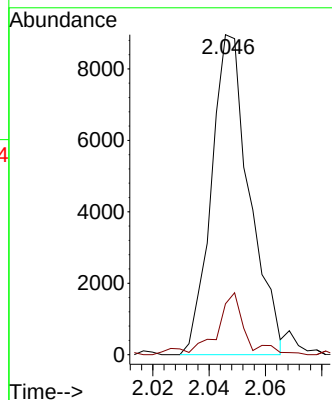
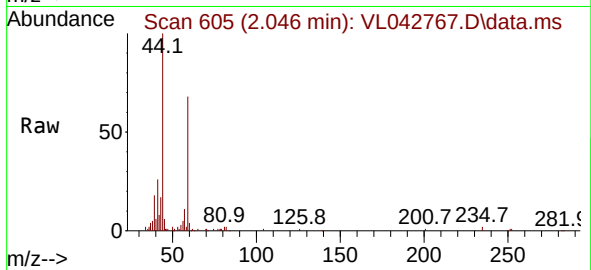




#17
tert-Butyl alcohol
Concen: 0.455 ppbv
RT: 2.046 min Scan# 603
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

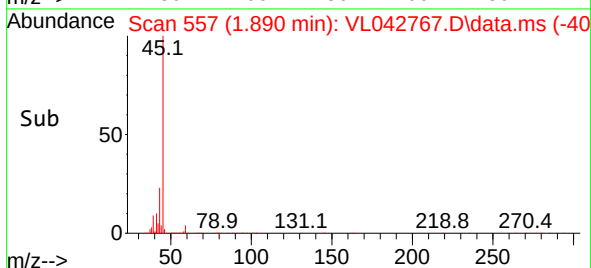
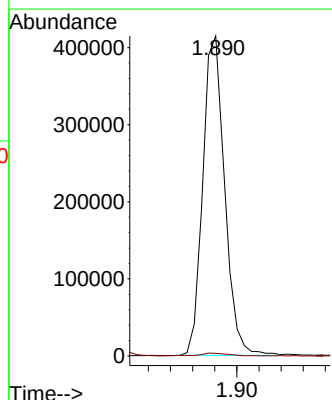
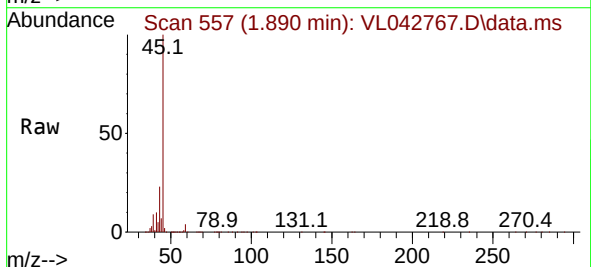
Instrument :
MSVOA_1
ClientSampleId :

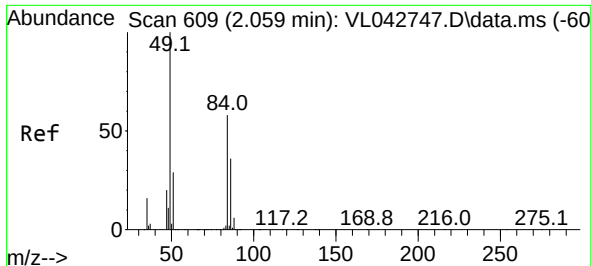
Tgt Ion: 59 Resp: 8444
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#19
Isopropyl Alcohol
Concen: 25.998 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

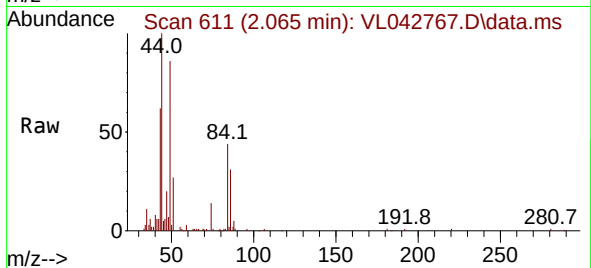
Tgt Ion: 45 Resp: 284464
Ion Ratio Lower Upper
45 100
58 40.9 30.0 45.0



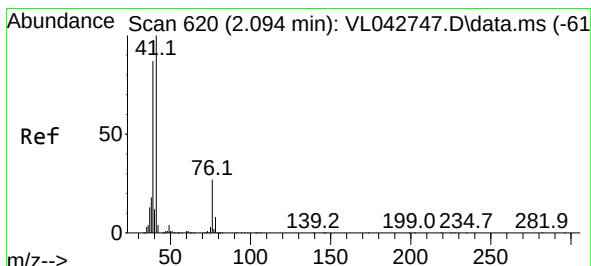
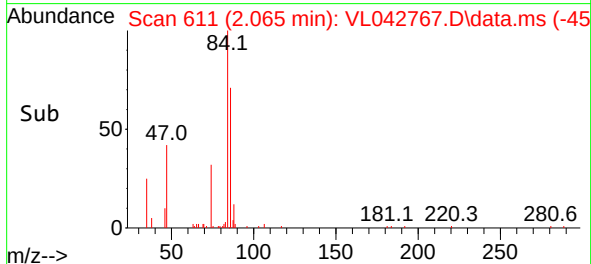
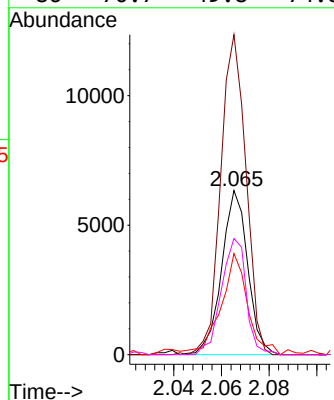


#20
Methylene Chloride
Concen: 0.743 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :

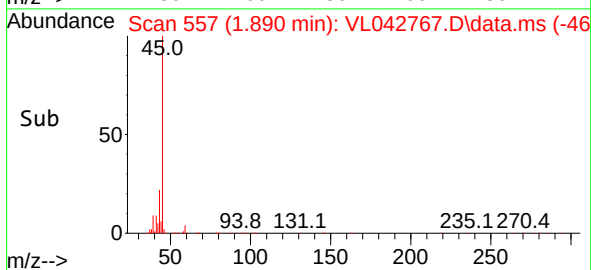
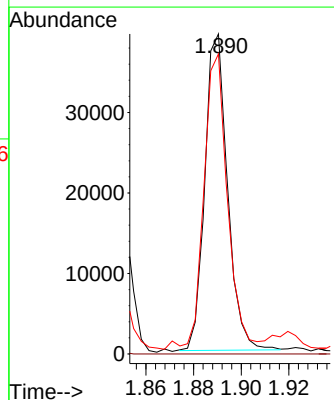
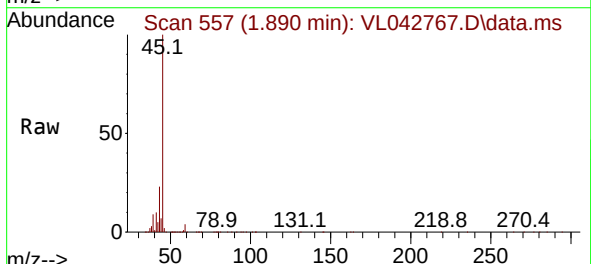


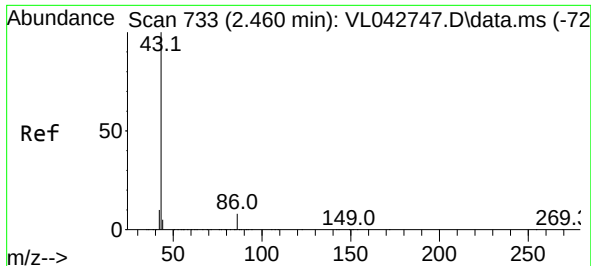
Tgt Ion: 84 Resp: 4822
Ion Ratio Lower Upper
84 100
49 193.8 138.6 208.0
51 61.6 40.6 61.0#
86 70.7 49.8 74.8



#21
Allyl Chloride
Concen: 2.056 ppbv
RT: 1.890 min Scan# 557
Delta R.T. -0.204 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

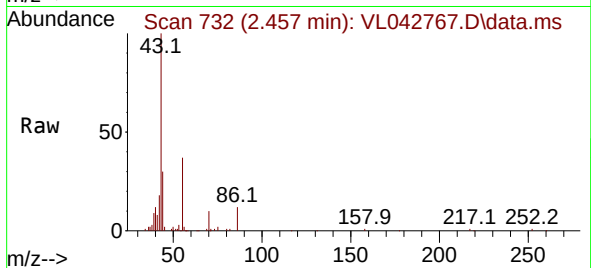
Tgt Ion: 41 Resp: 26088
Ion Ratio Lower Upper
41 100
76 0.2 21.1 31.7#
39 105.4 68.3 102.5#



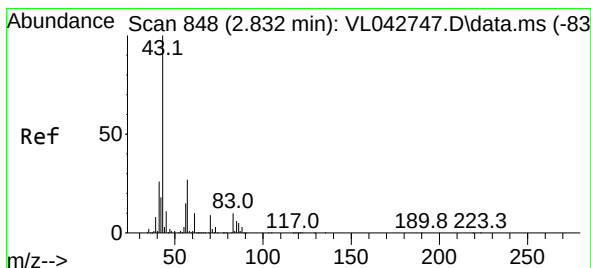
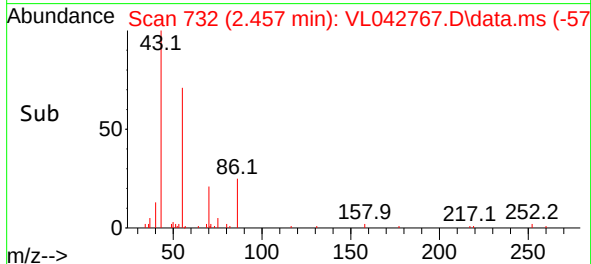
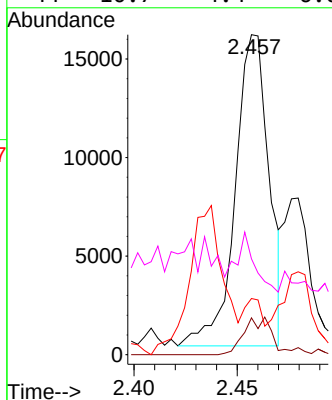


#23
 Vinyl Acetate
 Concen: 0.721 ppbv
 RT: 2.457 min Scan# 733
 Delta R.T. -0.003 min
 Lab File: VL042767.D
 Acq: 24 Jul 2025 16:17

Instrument :
 MSVOA_L
 ClientSampleId :

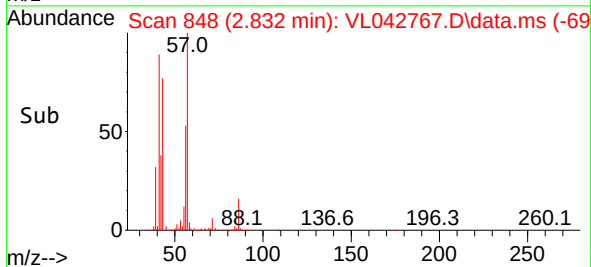
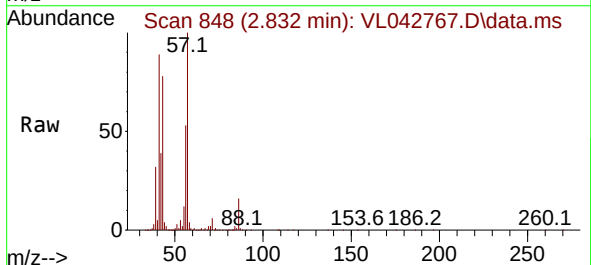
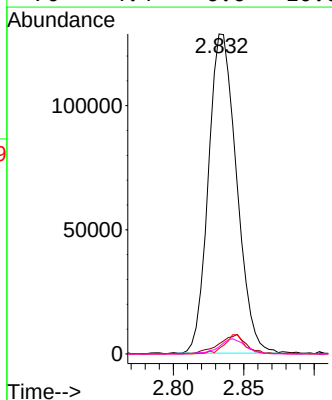


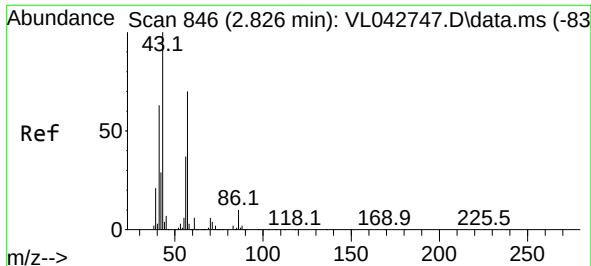
Tgt Ion:	43	Resp:	18008
Ion	Ratio	Lower	Upper
43	100		
86	11.8	6.1	9.1#
42	8.9	7.8	11.8
44	10.7	4.4	6.6#



#25
 Ethyl Acetate
 Concen: 3.924 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. -0.000 min
 Lab File: VL042767.D
 Acq: 24 Jul 2025 16:17

Tgt Ion:	43	Resp:	178839
Ion	Ratio	Lower	Upper
43	100		
45	6.2	7.8	11.6#
61	4.6	6.7	10.1#
70	4.4	6.6	10.0#

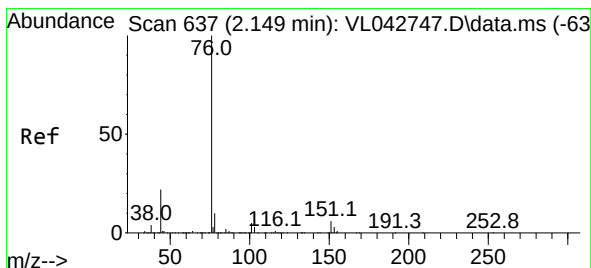
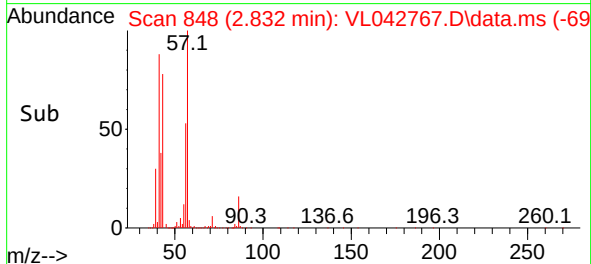
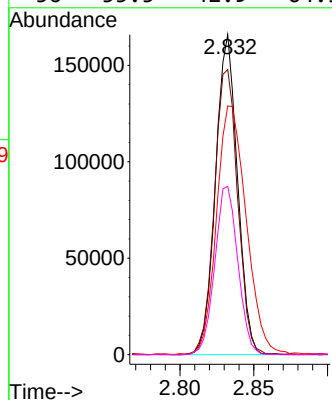
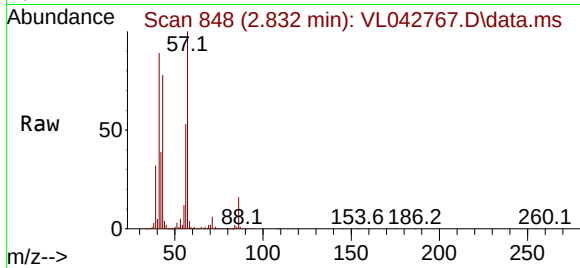




#26
Hexane
Concen: 8.580 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

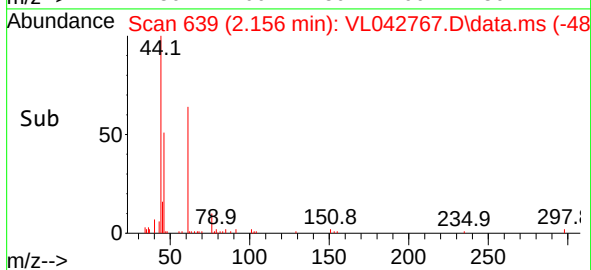
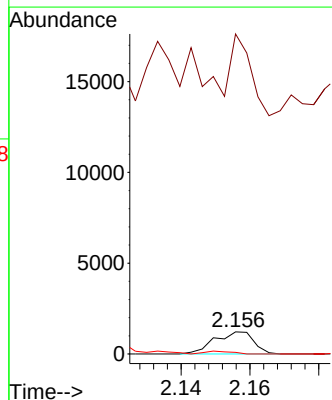
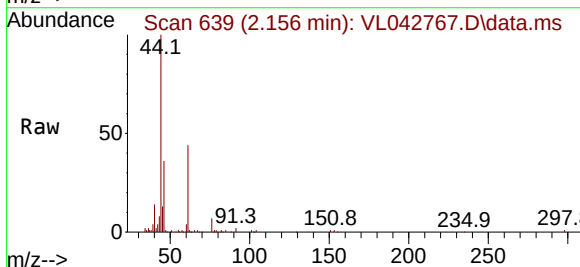
Instrument :
MSVOA_L
ClientSampleId :

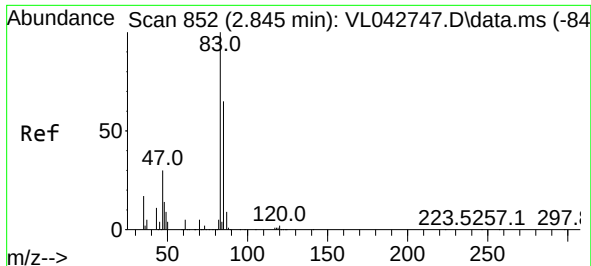
Tgt Ion: 57 Resp: 171539
Ion Ratio Lower Upper
57 100
41 95.5 75.4 113.2
43 105.8 185.0 277.6#
56 55.5 42.9 64.3



#27
Carbon Disulfide
Concen: 0.056 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 76 Resp: 965
Ion Ratio Lower Upper
76 100
44 309.8 19.3 28.9#
78 2.9 9.9 14.9#





#29

Chloroform

Concen: 0.465 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

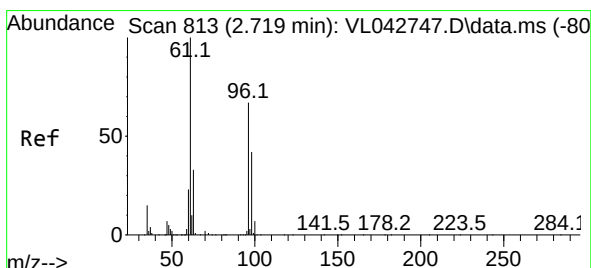
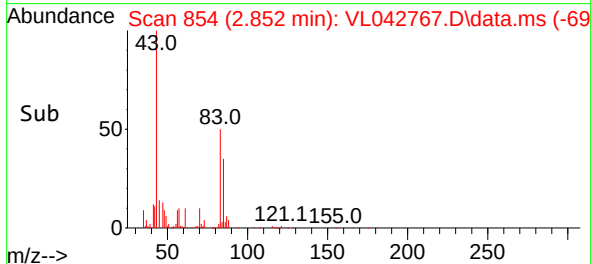
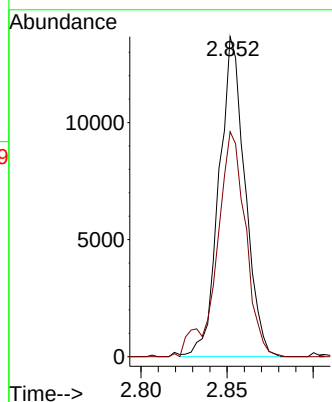
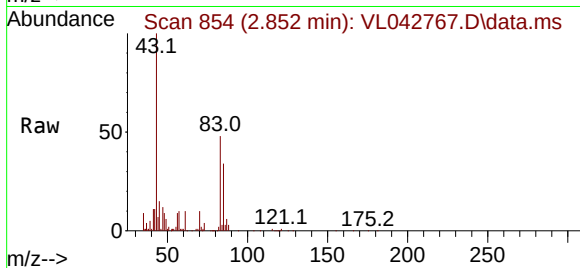
ClientSampleId :

Tgt Ion: 83 Resp: 14358

Ion Ratio Lower Upper

83 100

85 70.3 52.2 78.2



#31

cis-1,2-Dichloroethene

Concen: 0.390 ppbv

RT: 2.842 min Scan# 851

Delta R.T. 0.123 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

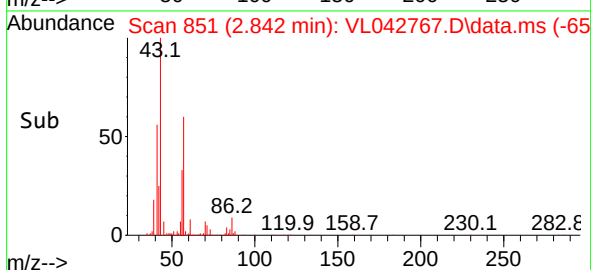
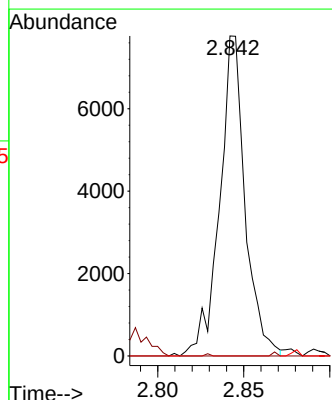
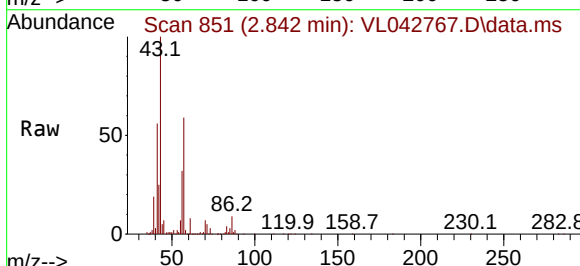
Tgt Ion: 61 Resp: 8009

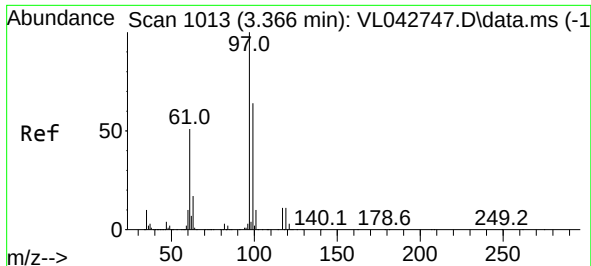
Ion Ratio Lower Upper

61 100

96 0.0 53.5 80.3#

98 0.0 33.6 50.4#

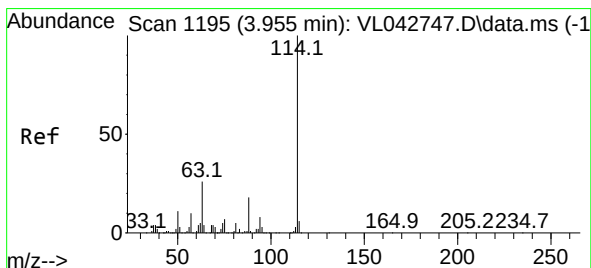
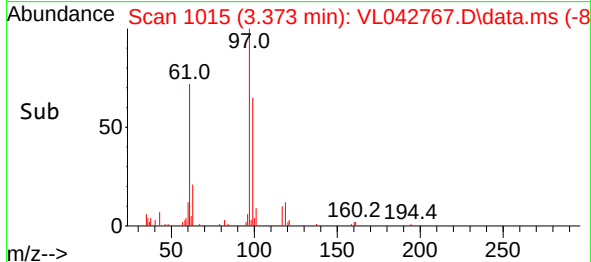
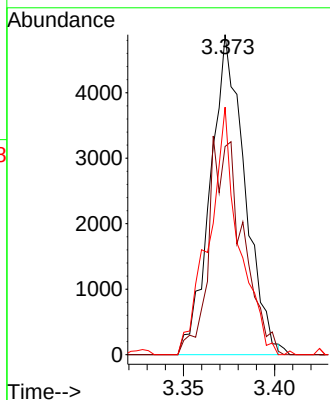
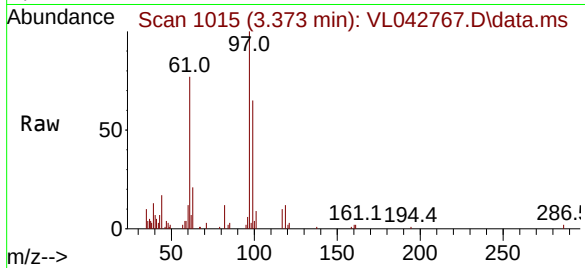




#32
1,1,1-Trichloroethane
Concen: 0.199 ppbv
RT: 3.373 min Scan# 1013
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

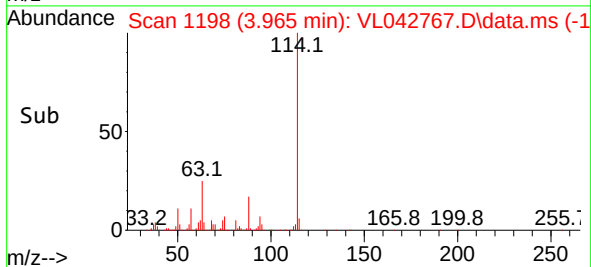
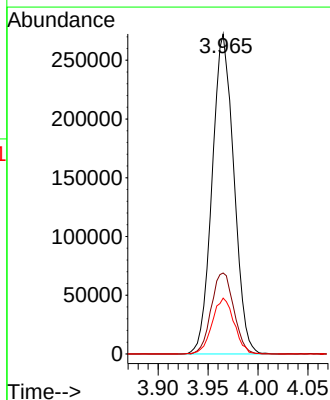
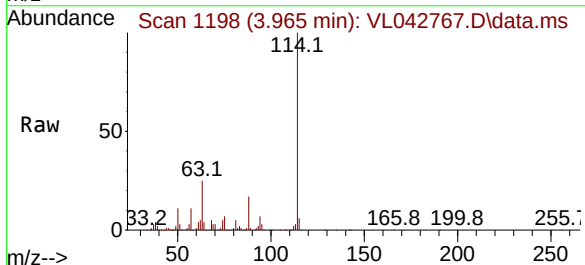
Instrument :
MSVOA_L
ClientSampleId :

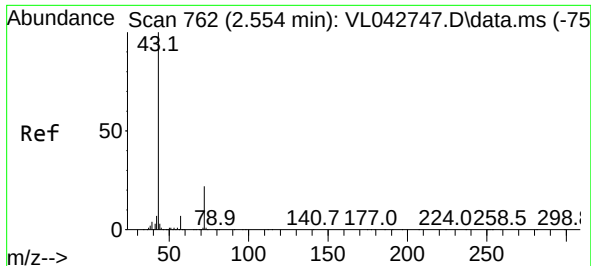
Tgt Ion: 97 Resp: 6414
Ion Ratio Lower Upper
97 100
99 67.3 51.0 76.6
61 68.5 40.9 61.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.010 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 114 Resp: 411819
Ion Ratio Lower Upper
114 100
63 26.3 20.5 30.7
88 17.7 14.0 21.0

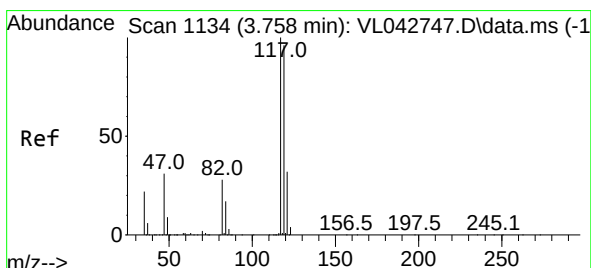
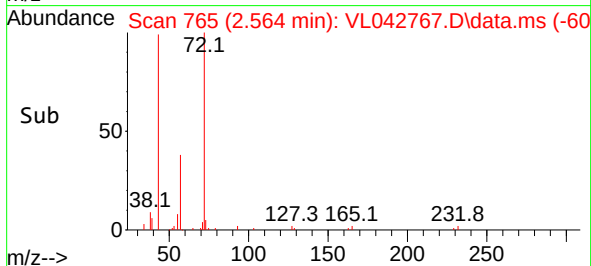
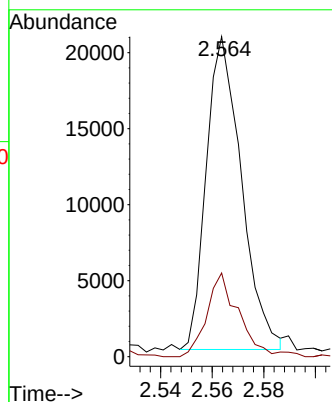
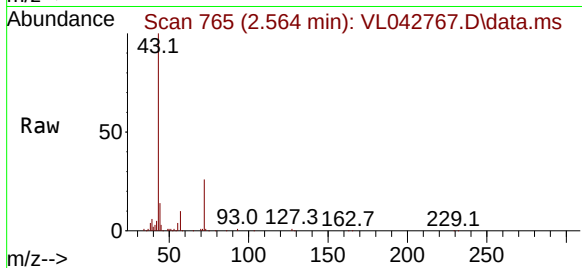




#34
2-Butanone
Concen: 0.667 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

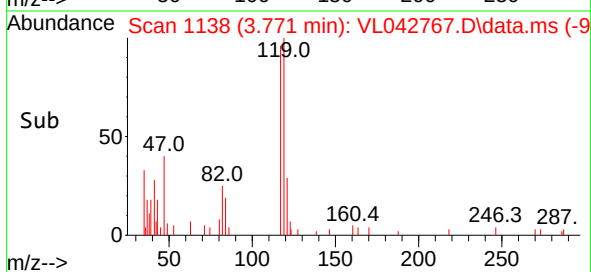
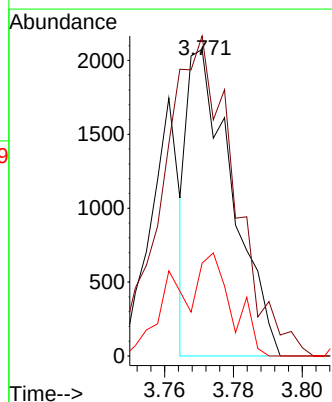
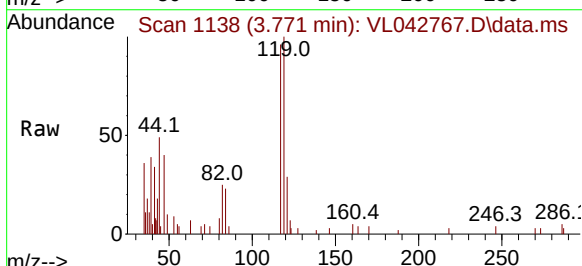
Instrument :
MSVOA_L
ClientSampleId :

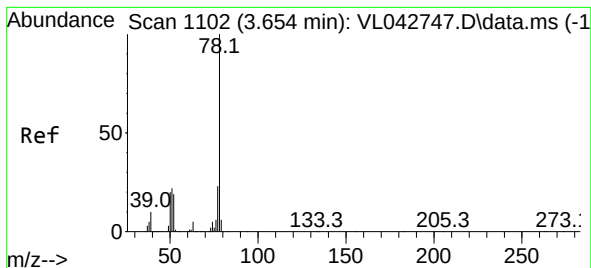
Tgt Ion: 43 Resp: 19454
Ion Ratio Lower Upper
43 100
72 24.6 17.4 26.0



#35
Carbon Tetrachloride
Concen: 0.061 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 117 Resp: 1862
Ion Ratio Lower Upper
117 100
119 97.5 77.1 115.7
121 30.3 25.5 38.3





#36

Benzene

Concen: 0.108 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VL042767.D

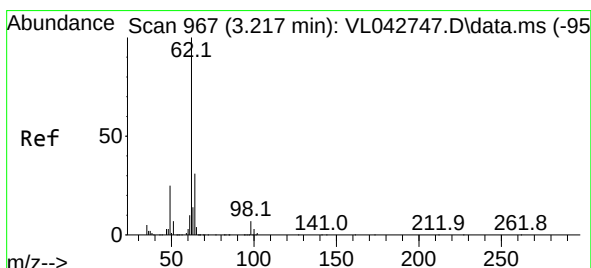
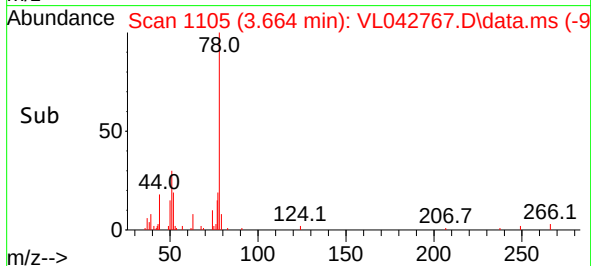
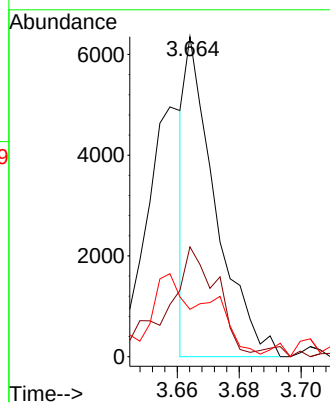
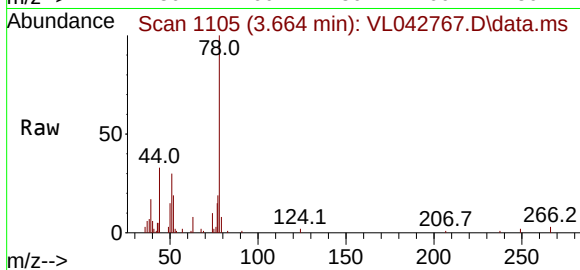
Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 78	Resp: 4222
Ion Ratio	Lower Upper
78 100	
77 31.1	18.5 27.7#
50 10.6	16.2 24.2#



#37

1,2-Dichloroethane

Concen: 0.414 ppbv

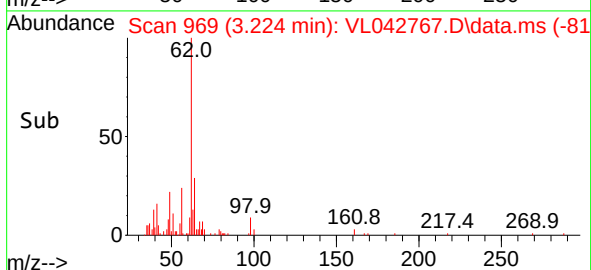
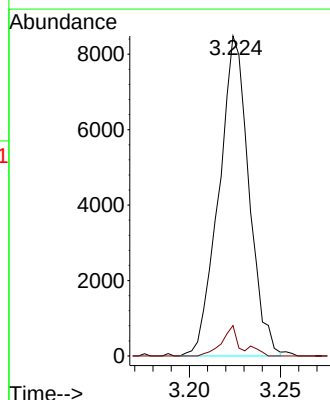
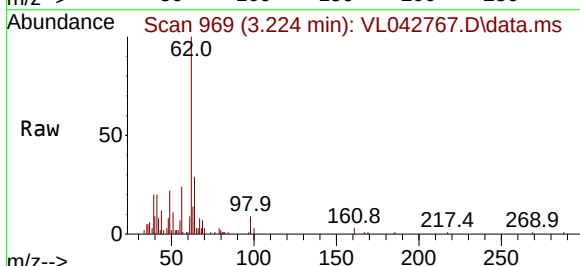
RT: 3.224 min Scan# 969

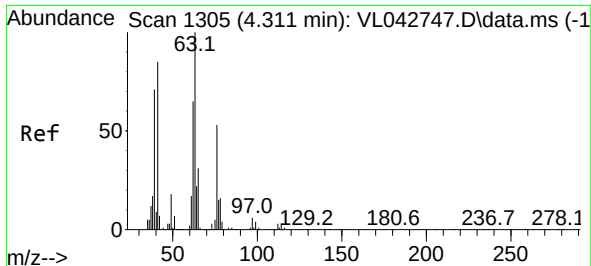
Delta R.T. 0.006 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Tgt Ion: 62	Resp: 9737
Ion Ratio	Lower Upper
62 100	
98 5.9	5.2 7.8





#39

1,2-Dichloropropane

Concen: 7.515 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

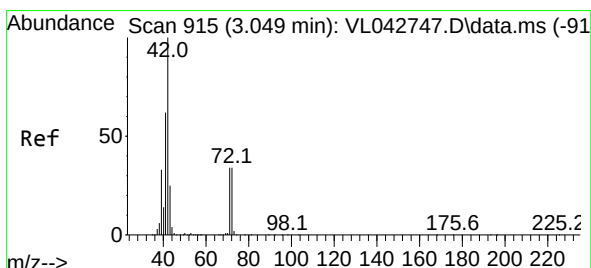
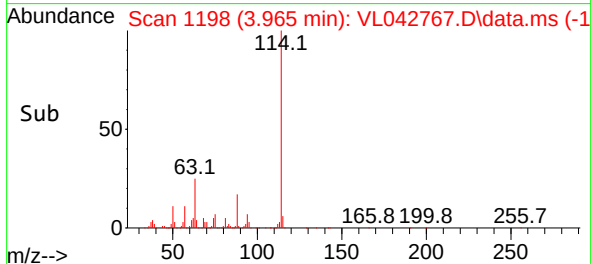
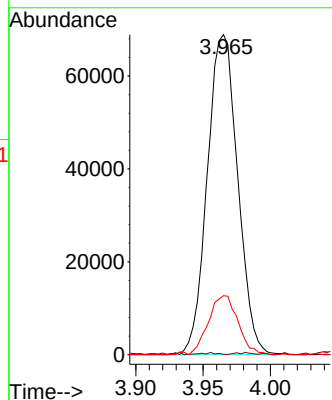
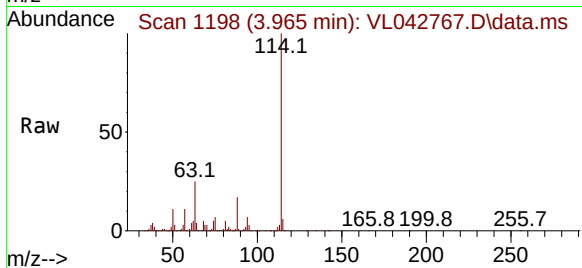
Tgt Ion: 63 Resp: 108262

Ion Ratio Lower Upper

63 100

41 0.0 68.2 102.4#

62 18.3 52.0 78.0#



#41

Tetrahydrofuran

Concen: 0.082 ppbv

RT: 3.069 min Scan# 921

Delta R.T. 0.019 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

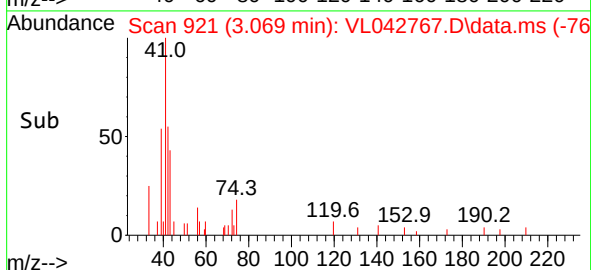
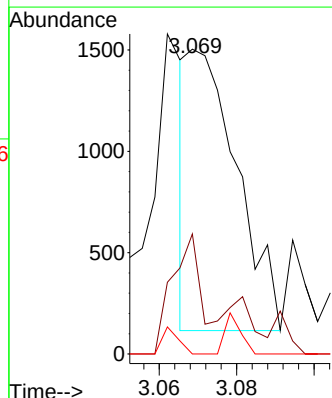
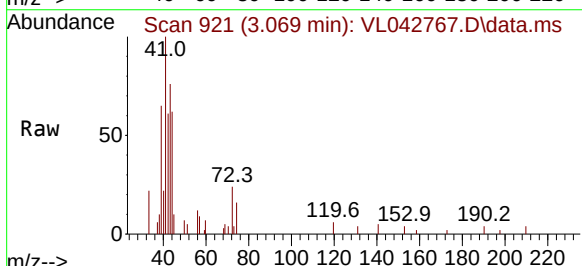
Tgt Ion: 42 Resp: 1223

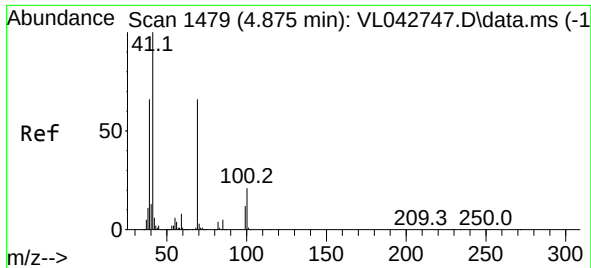
Ion Ratio Lower Upper

42 100

72 42.3 30.9 46.3

71 0.0 28.6 43.0#

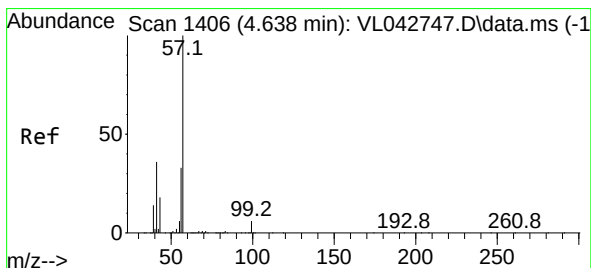
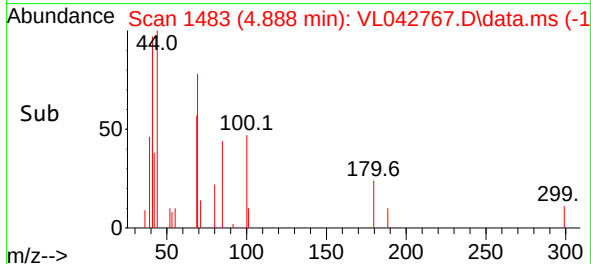
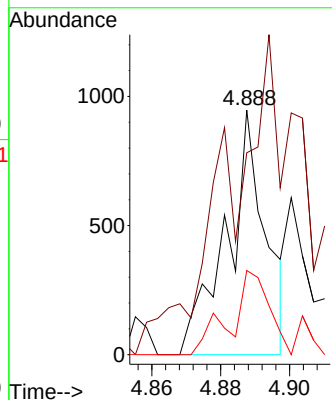
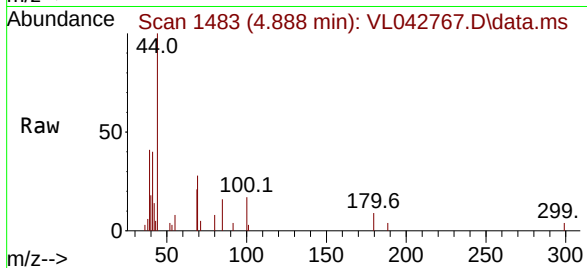




#43
Methyl Methacrylate
Concen: 0.053 ppbv
RT: 4.888 min Scan# 1483
Delta R.T. 0.013 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

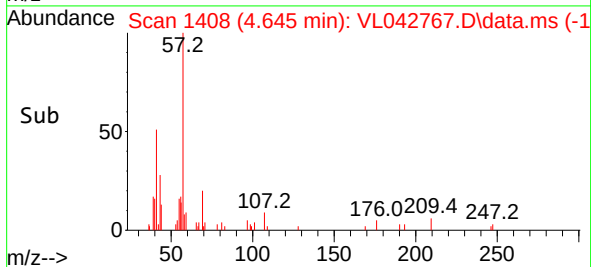
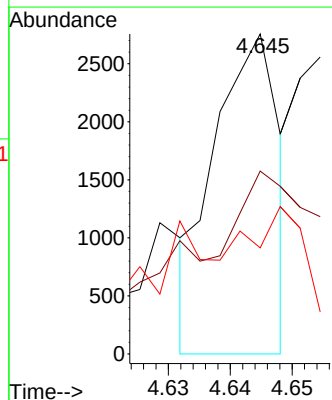
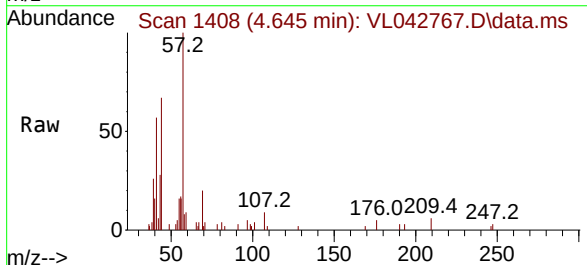
Instrument :
MSVOA_L
ClientSampleId :

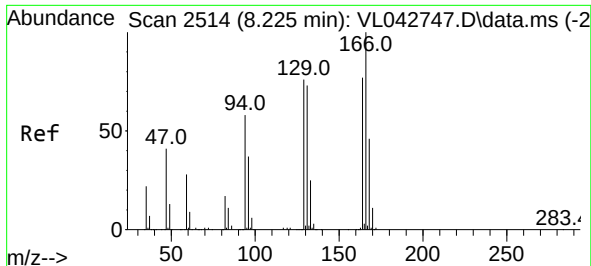
Tgt Ion: 69 Resp: 738
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 39.6 28.6 42.8



#44
2,2,4-Trimethylpentane
Concen: 0.031 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

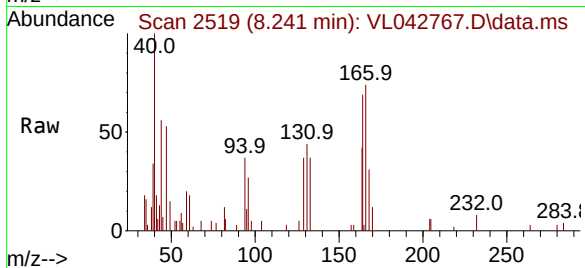
Tgt Ion: 57 Resp: 2003
Ion Ratio Lower Upper
57 100
41 180.3 28.3 42.5#
56 141.1 25.8 38.6#



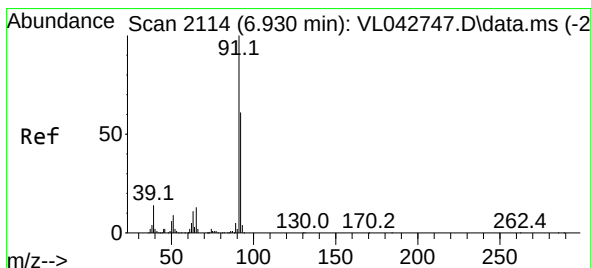
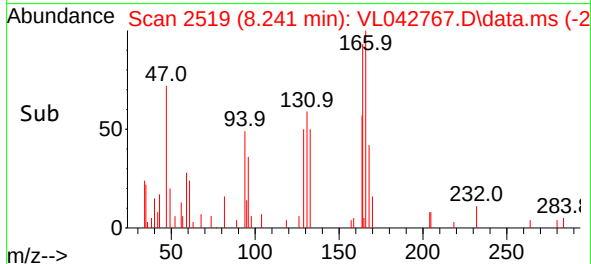
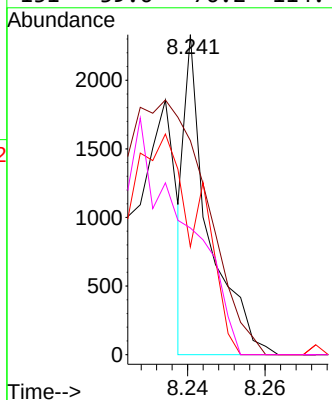


#52
Tetrachloroethene
Concen: 0.061 ppbv
RT: 8.241 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :

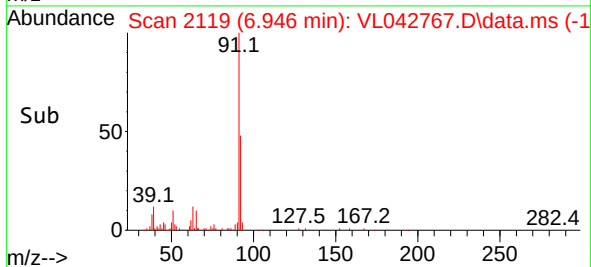
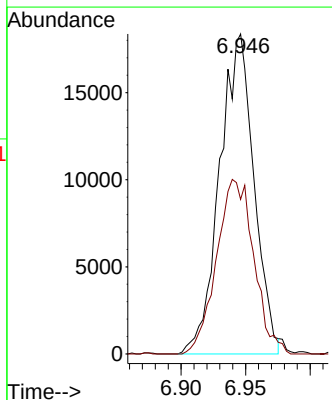
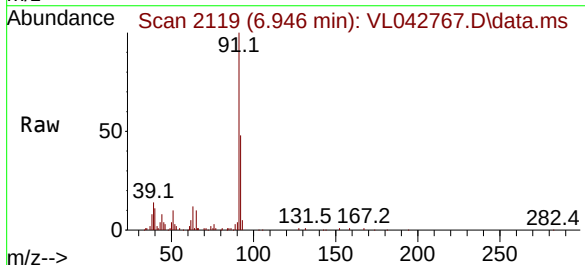


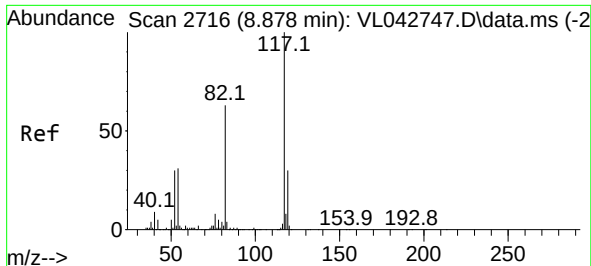
Tgt Ion:164 Resp: 984
Ion Ratio Lower Upper
164 100
166 66.9 104.0 156.0#
129 33.7 79.2 118.8#
131 39.6 76.2 114.4#



#53
Toluene
Concen: 0.811 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 91 Resp: 33987
Ion Ratio Lower Upper
91 100
92 59.2 48.0 72.0

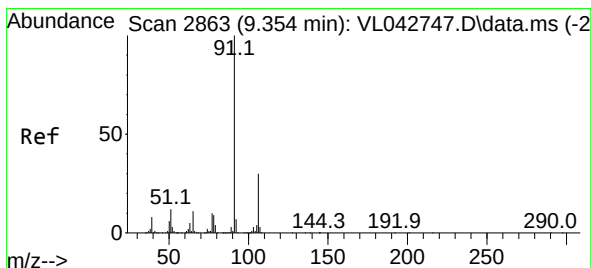
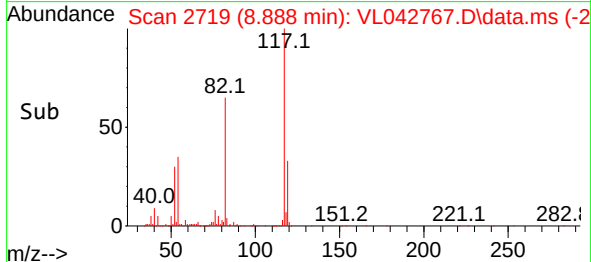
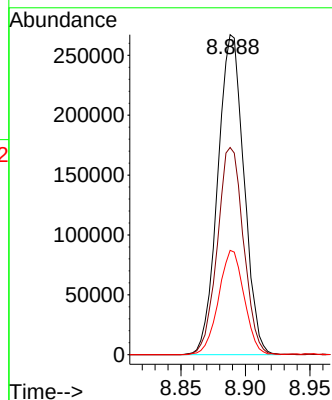
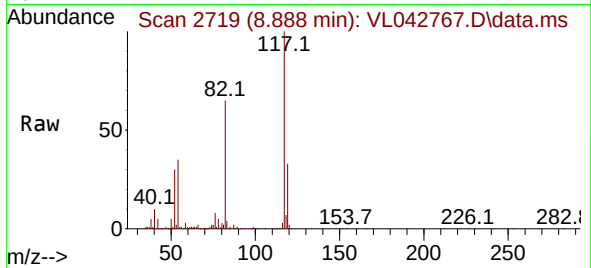




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

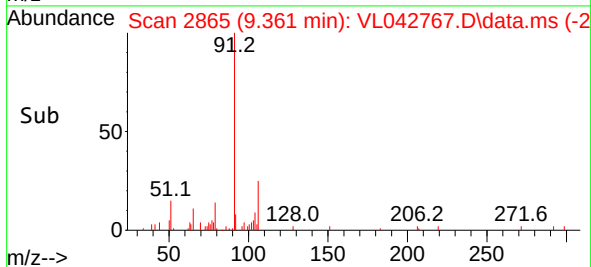
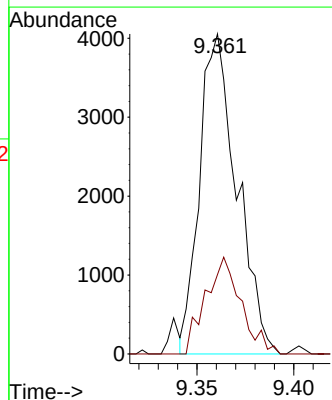
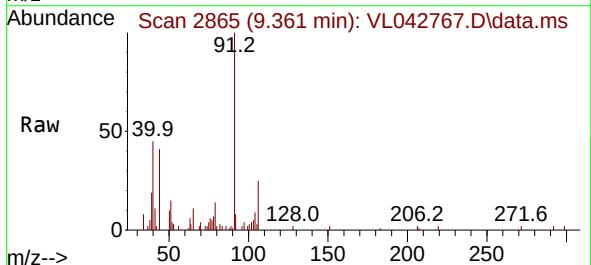
Instrument :
MSVOA_L
ClientSampleId :

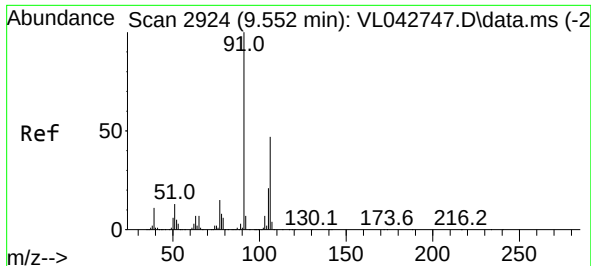
Tgt Ion:117 Resp: 377399
Ion Ratio Lower Upper
117 100
82 64.7 53.3 79.9
119 32.0 25.8 38.6



#58
Ethyl Benzene
Concen: 0.091 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 91 Resp: 5433
Ion Ratio Lower Upper
91 100
106 24.8 23.8 35.6





#59

m/p-Xylene

Concen: 0.065 ppbv

RT: 9.561 min Scan# 2924

Delta R.T. 0.010 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

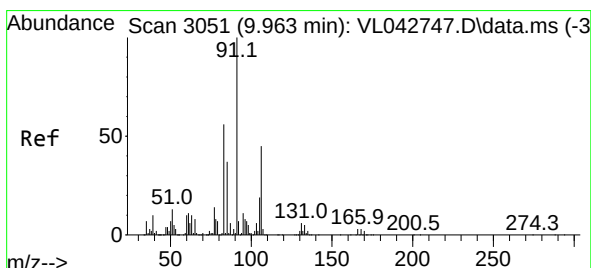
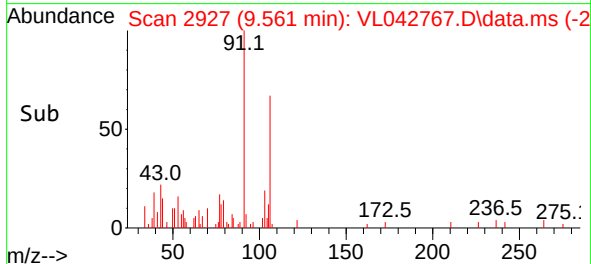
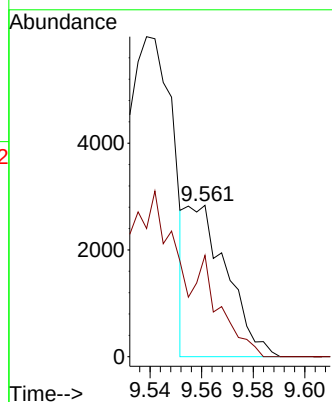
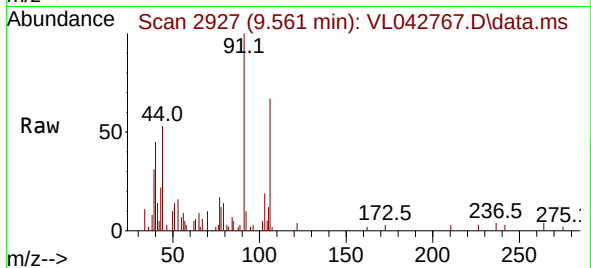
ClientSampleId :

Tgt Ion: 91 Resp: 3119

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#60

o-Xylene

Concen: 0.115 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.006 min

Lab File: VL042767.D

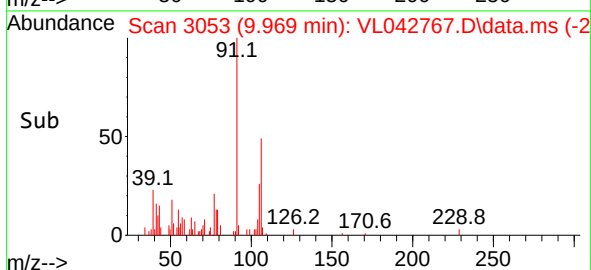
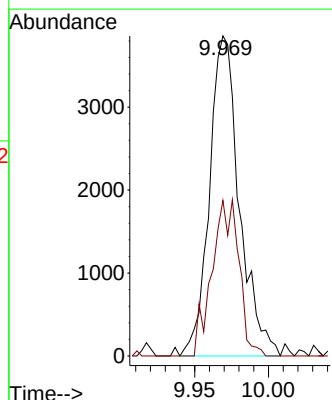
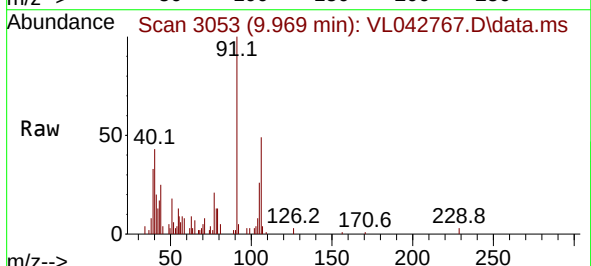
Acq: 24 Jul 2025 16:17

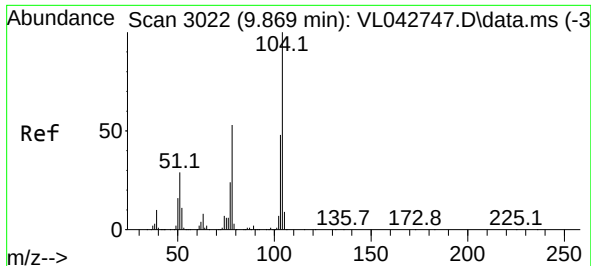
Tgt Ion: 91 Resp: 5451

Ion Ratio Lower Upper

91 100

106 43.9 22.0 66.0

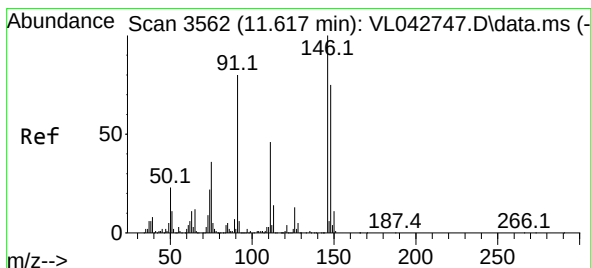
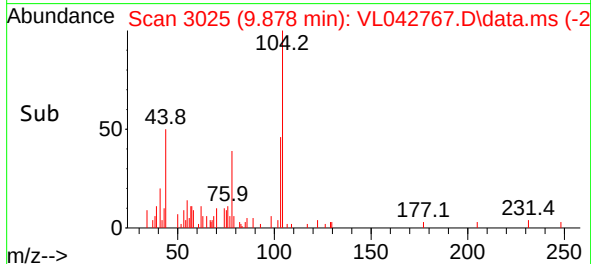
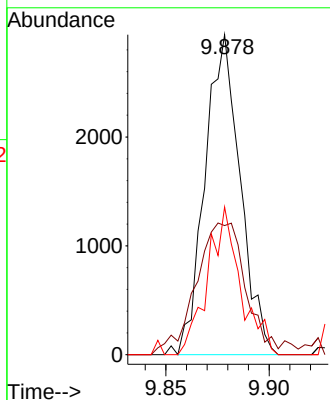
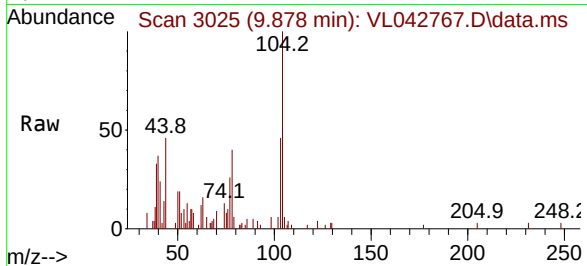




#61
Styrene
Concen: 0.174 ppbv
RT: 9.878 min Scan# 3022
Delta R.T. 0.010 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

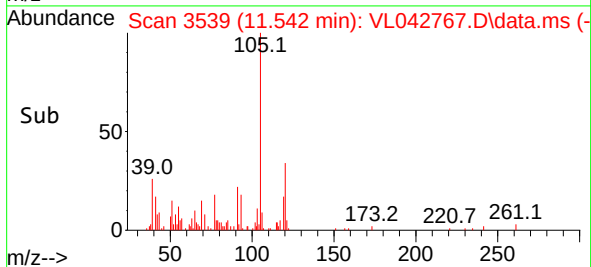
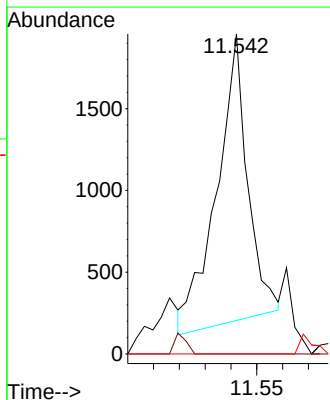
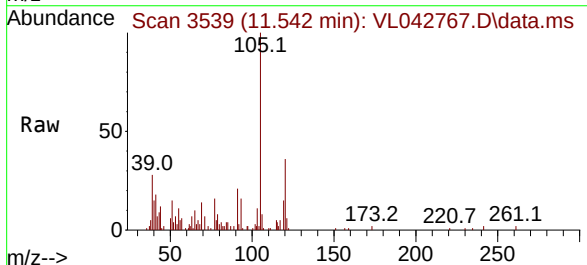
Instrument :
MSVOA_L
ClientSampleId :

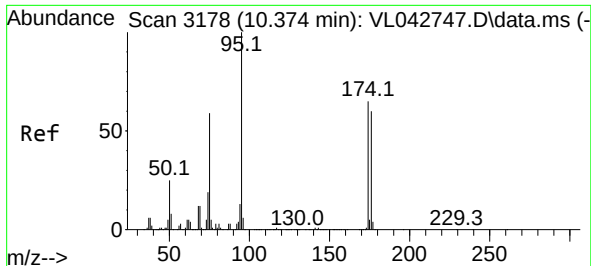
Tgt Ion:104 Resp: 3486
Ion Ratio Lower Upper
104 100
78 59.5 41.5 62.3
103 43.9 37.5 56.3



#66
Benzyl Chloride
Concen: 0.285 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.074 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 91 Resp: 1457
Ion Ratio Lower Upper
91 100
126 2.3 14.4 21.6#
128 6.1 5.2 7.8

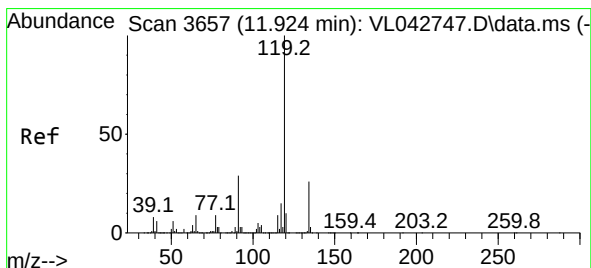
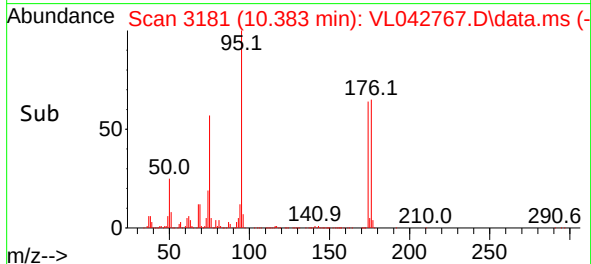
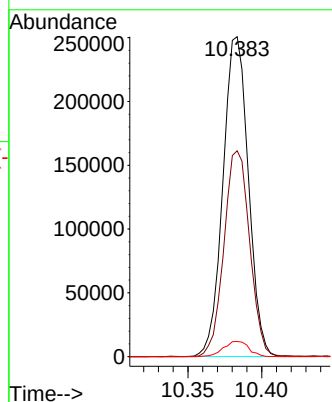
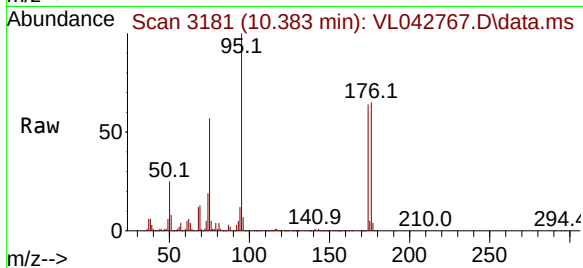




#68
1-Bromo-4-Fluorobenzene
Concen: 10.044 ppbv
RT: 10.383 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

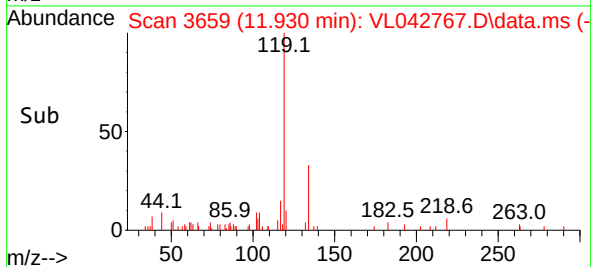
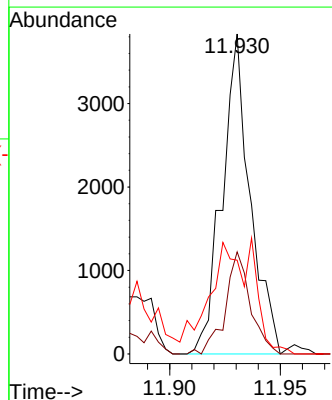
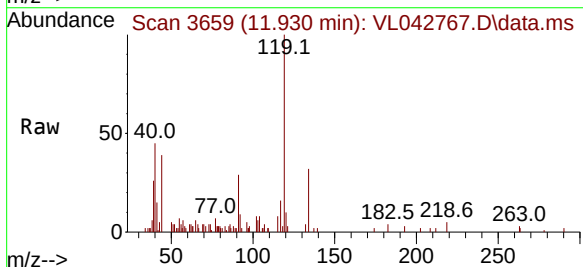
Instrument :
MSVOA_L
ClientSampleId :

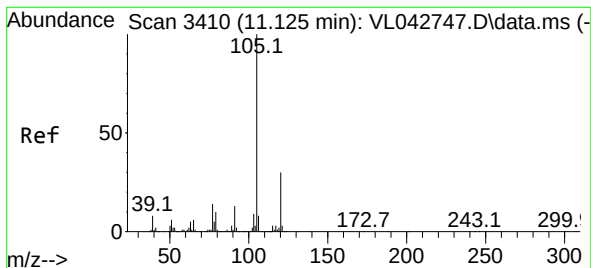
Tgt Ion: 95 Resp: 300204
Ion Ratio Lower Upper
95 100
174 65.3 53.8 80.6
175 4.8 4.0 6.0



#69
p-Isopropyltoluene
Concen: 0.047 ppbv
RT: 11.930 min Scan# 3659
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion: 119 Resp: 3380
Ion Ratio Lower Upper
119 100
134 28.5 20.6 31.0
91 55.3 23.2 34.8





#72

4-Ethyltoluene

Concen: 0.049 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. 0.003 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 2764

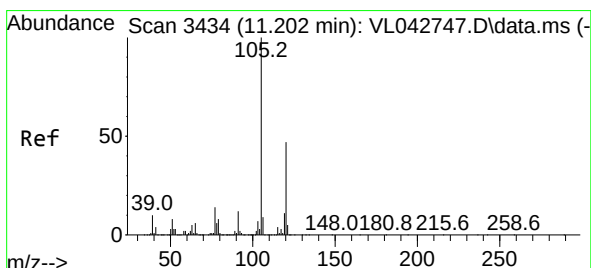
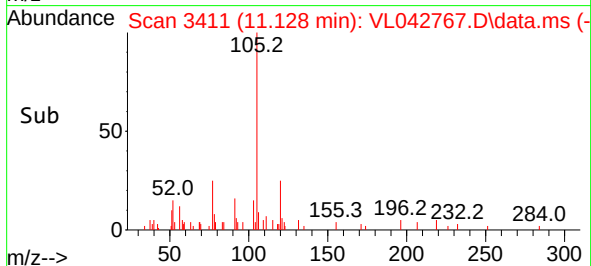
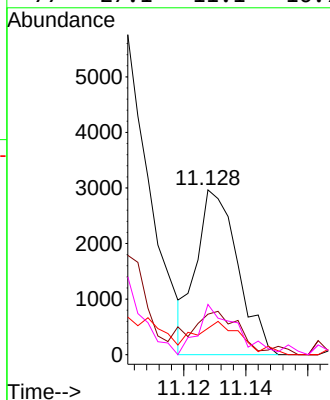
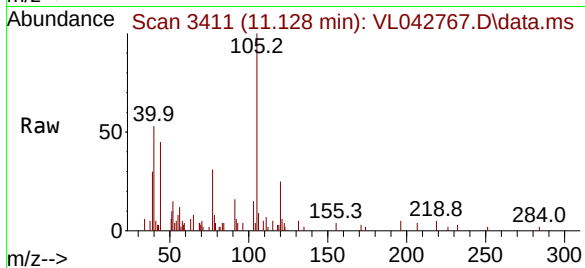
Ion Ratio Lower Upper

105 100

120 29.5 24.4 36.6

91 0.0 10.6 15.8#

77 27.1 11.1 16.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.067 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. 0.003 min

Lab File: VL042767.D

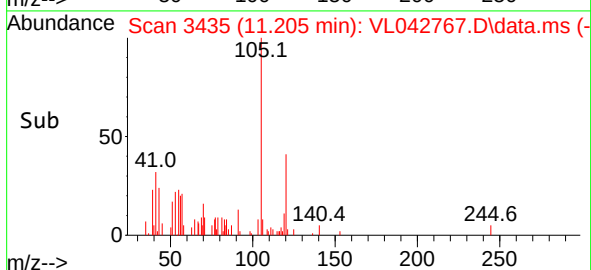
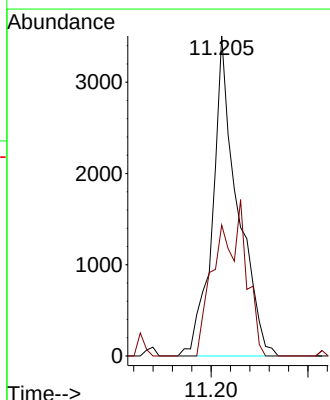
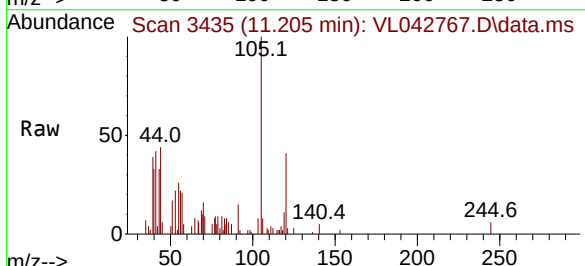
Acq: 24 Jul 2025 16:17

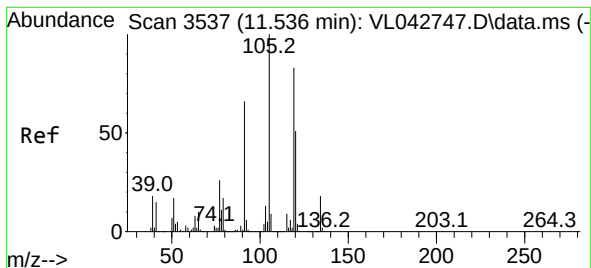
Tgt Ion:105 Resp: 3128

Ion Ratio Lower Upper

105 100

120 40.9 37.8 56.8





#74

1,2,4-Trimethylbenzene

Concen: 0.175 ppbv

RT: 11.542 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042767.D

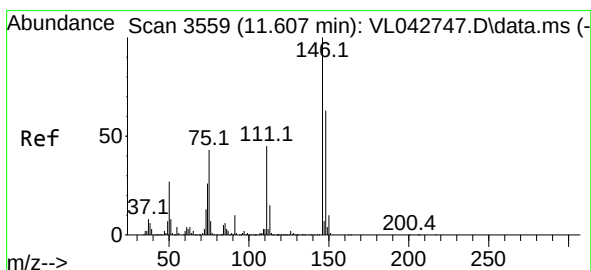
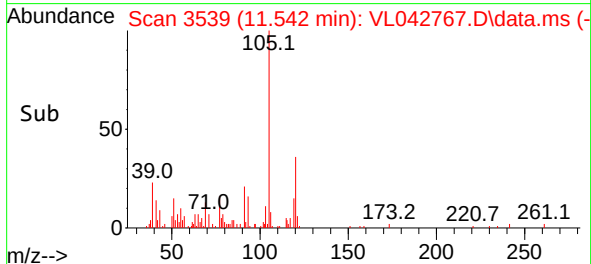
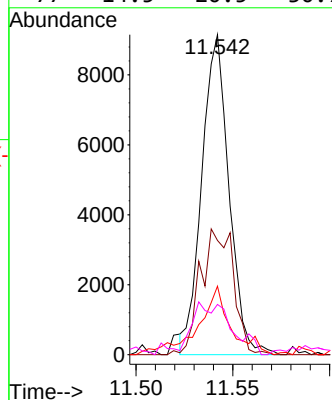
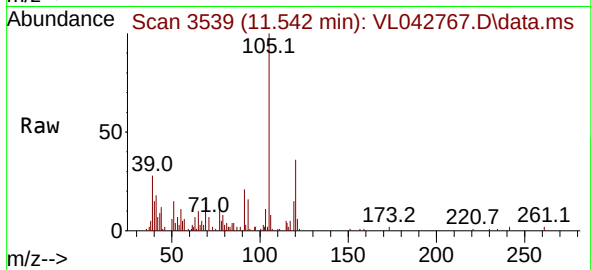
Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	105	Resp:	8935
Ion	Ratio	Lower	Upper
105	100		
120	36.0	40.8	61.2#
91	21.0	53.0	79.4#
77	14.5	20.5	30.7#



#75

1,3-Dichlorobenzene

Concen: 0.026 ppbv

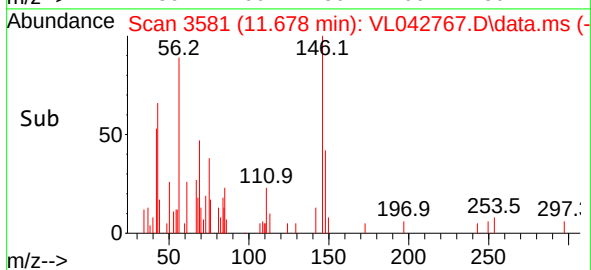
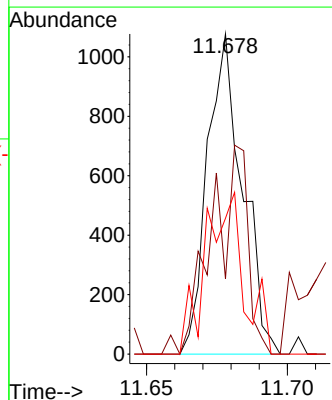
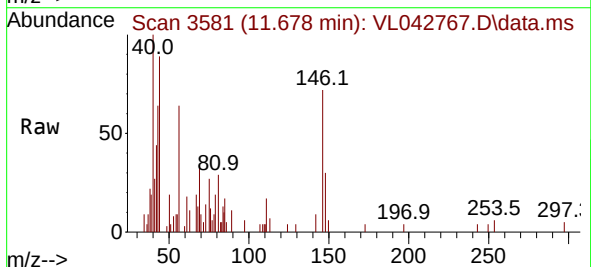
RT: 11.678 min Scan# 3581

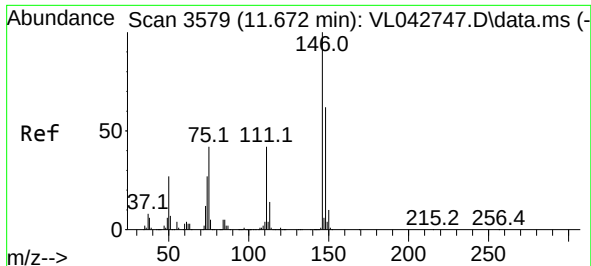
Delta R.T. 0.071 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Tgt Ion:	146	Resp:	934
Ion	Ratio	Lower	Upper
146	100		
111	95.0	22.7	68.0#
148	55.1	31.9	95.5

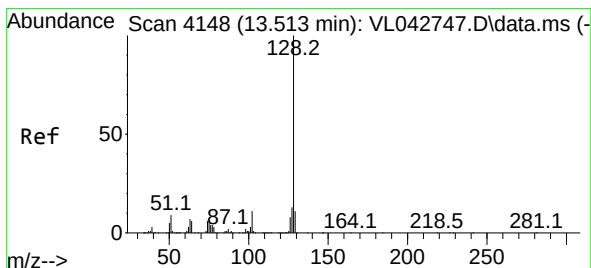
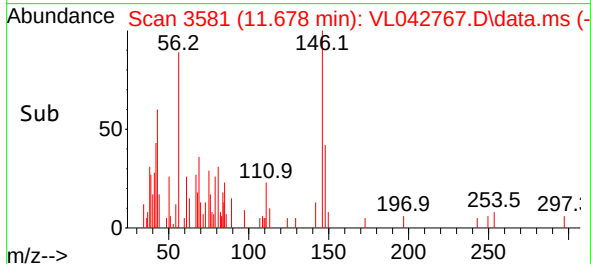
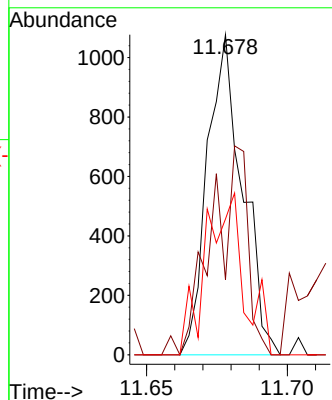
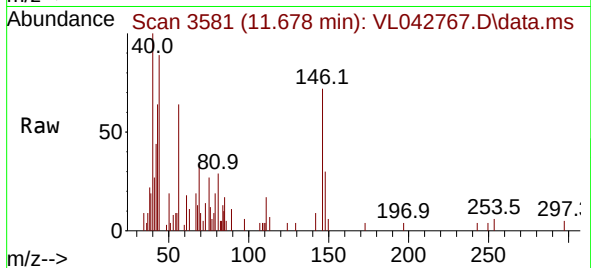




#76
1,4-Dichlorobenzene
Concen: 0.027 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

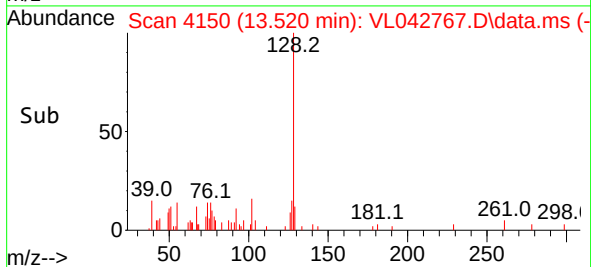
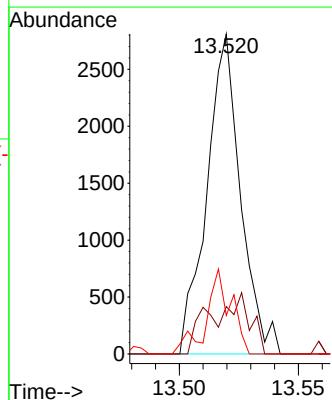
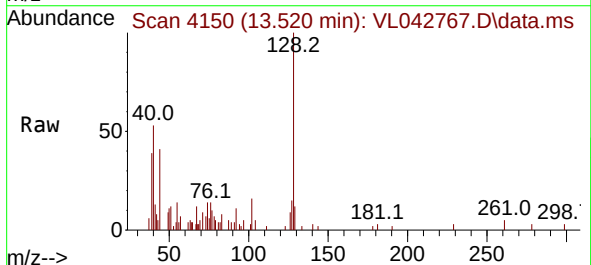
Instrument :
MSVOA_L
ClientSampleId :

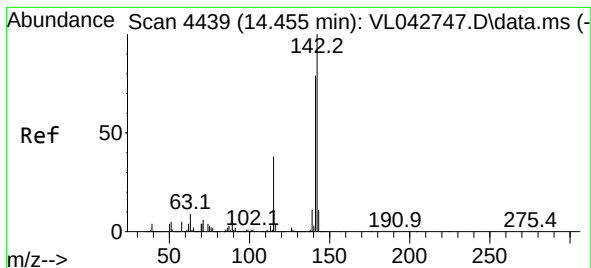
Tgt Ion:146 Resp: 934
Ion Ratio Lower Upper
146 100
111 66.4 21.4 64.2#
148 55.1 32.1 96.3



#79
Naphthalene
Concen: 0.483 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.006 min
Lab File: VL042767.D
Acq: 24 Jul 2025 16:17

Tgt Ion:128 Resp: 2772
Ion Ratio Lower Upper
128 100
127 14.8 10.5 15.7
129 12.1 8.6 13.0





#80

Naphthalene, 2-methyl-

Concen: 1.138 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.013 min

Lab File: VL042767.D

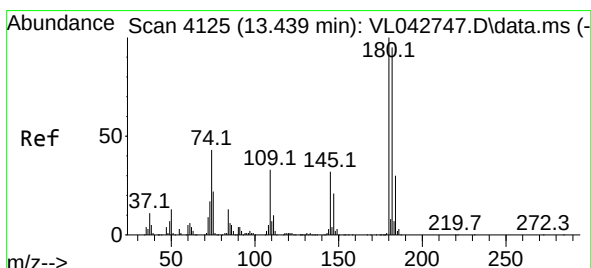
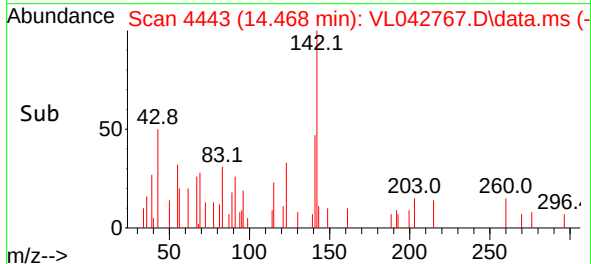
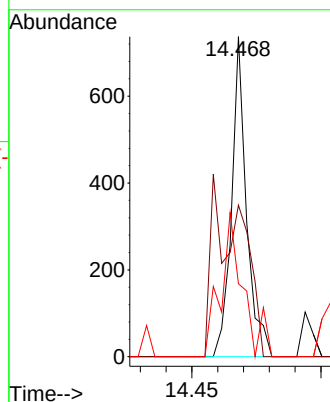
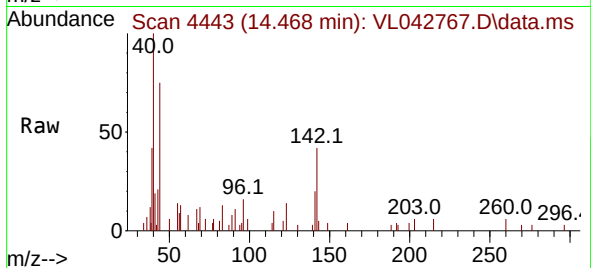
Acq: 24 Jul 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	142	Resp:	297
Ion	Ratio	Lower	Upper
142	100		
141	110.1	65.8	98.8#
115	67.3	31.2	46.8#



#81

1,2,4-Trichlorobenzene

Concen: 0.441 ppbv

RT: 13.445 min Scan# 4127

Delta R.T. 0.006 min

Lab File: VL042767.D

Acq: 24 Jul 2025 16:17

Tgt Ion:	180	Resp:	203
Ion	Ratio	Lower	Upper
180	100		
182	81.3	76.2	114.2
184	10.3	24.8	37.2#

