

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042782.D
 Acq On : 29 Jul 2025 14:24
 Operator : SY/MD
 Sample : Q2712-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Jul 30 01:12:06 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	2.793	49	149325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	414208	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	375602	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	309167	10.394	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	16650	0.843	ppbv	98
3) Chlorodifluoromethane	1.466	51	664110	25.822	ppbv #	63
4) Chloromethane	1.534	50	7070	0.885	ppbv	94
6) Bromomethane	1.470	94	2371	0.777	ppbv #	63
7) Chloroethane	1.460	64	281548	92.337	ppbv #	45
8) Dichlorotetrafluoroethane	1.499	85	16650	1.025	ppbv #	19
9) Propene	1.560	41	837012	89.545	ppbv	94
10) Heptane	4.994	43	14228	0.565	ppbv #	58
11) Trichlorofluoromethane	1.884	101	24157	1.187	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.146	101	1214	0.078	ppbv	86
13) Ethanol	1.729	45	1607041	2360.036	ppbv	100
15) Acetone	1.839	43	375143	18.194	ppbv	98
16) 1,3-Butadiene	1.625	39	51591	5.866	ppbv #	19
17) tert-Butyl alcohol	2.059	59	15735	0.846	ppbv #	72
19) Isopropyl Alcohol	1.890	45	106307	9.702	ppbv #	12
20) Methylene Chloride	2.065	84	5378	0.828	ppbv #	90
21) Allyl Chloride	1.968	41	377987	29.744	ppbv #	50
22) trans-1,2-Dichloroethene	2.350	96	194	0.026	ppbv #	4
23) Vinyl Acetate	2.463	43	77191	3.088	ppbv #	93
25) Ethyl Acetate	2.842	43	752515	16.488	ppbv #	91
26) Hexane	2.832	57	16575	0.828	ppbv #	1
27) Carbon Disulfide	2.156	76	1598	0.093	ppbv #	1
28) Methyl tert-Butyl Ether	2.567	73	728	0.077	ppbv #	1
29) Chloroform	2.858	83	22930	0.741	ppbv	97
30) Cyclohexane	3.858	84	488	0.029	ppbv #	1
31) cis-1,2-Dichloroethene	2.845	61	90452	4.396	ppbv #	23
34) 2-Butanone	2.567	43	66120	2.254	ppbv	99
35) Carbon Tetrachloride	3.771	117	4664	0.152	ppbv #	86
36) Benzene	3.667	78	11868	0.302	ppbv #	94
39) 1,2-Dichloropropane	3.968	63	106679	7.362	ppbv #	22
41) Tetrahydrofuran	3.072	42	15808	1.059	ppbv #	51
43) Methyl Methacrylate	4.894	69	591	0.042	ppbv #	1
44) 2,2,4-Trimethylpentane	4.655	57	7965	0.124	ppbv #	42
50) 4-Methyl-2-Pentanone	5.781	43	10949	0.290	ppbv #	50
51) 2-Hexanone	7.457	43	23562	0.825	ppbv #	97
52) Tetrachloroethene	8.250	164	439	0.027	ppbv #	58
53) Toluene	6.953	91	72108	1.711	ppbv	98
58) Ethyl Benzene	9.367	91	12419	0.209	ppbv	95
59) m/p-Xylene	9.545	91	43961	0.927	ppbv	99
60) o-Xylene	9.972	91	22835	0.482	ppbv	97
61) Styrene	9.878	104	23868	1.198	ppbv	92
62) Isopropylbenzene	10.545	105	6145	0.088	ppbv	97
64) n-propylbenzene	10.995	120	5095	0.280	ppbv	77

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

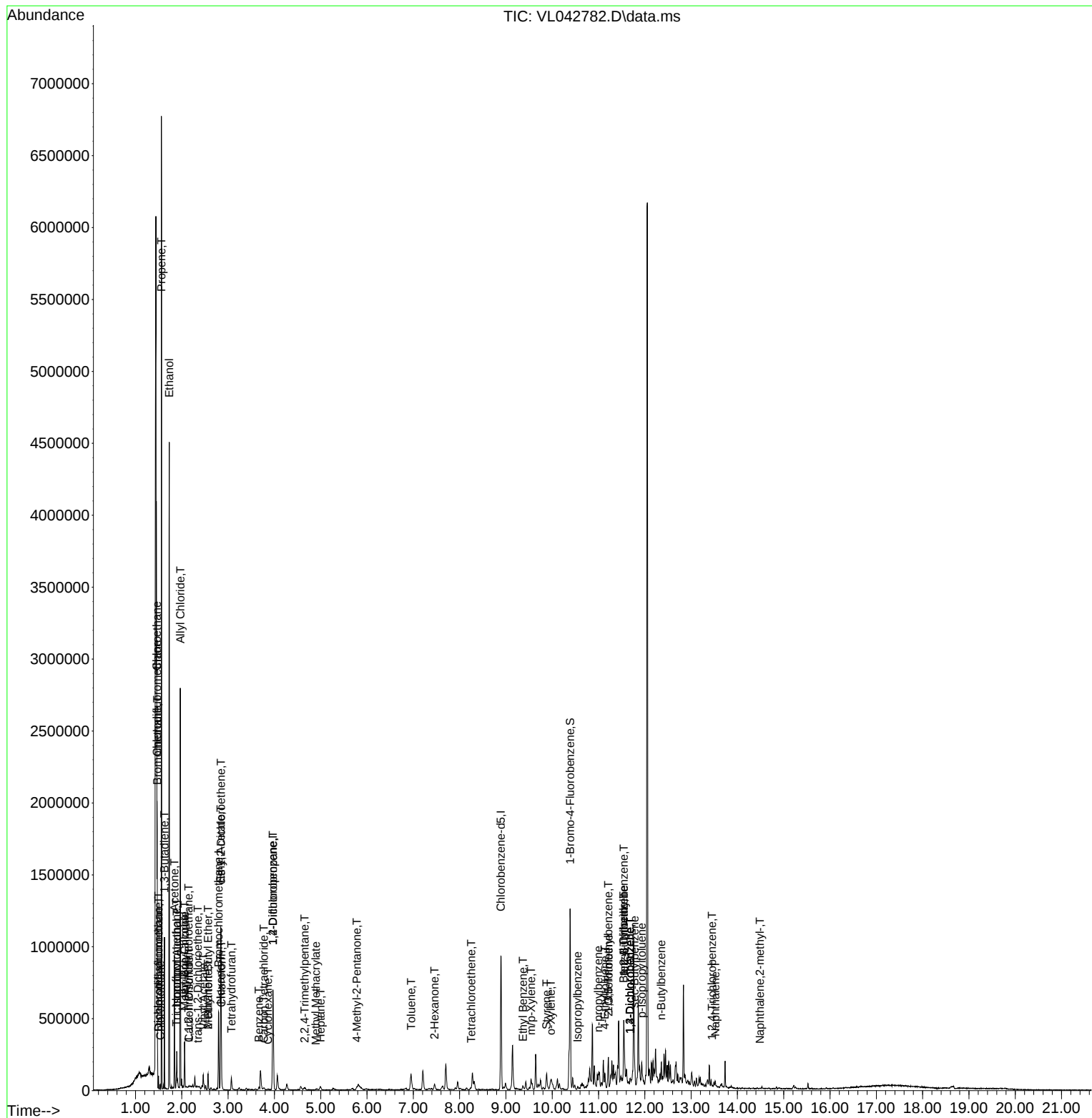
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

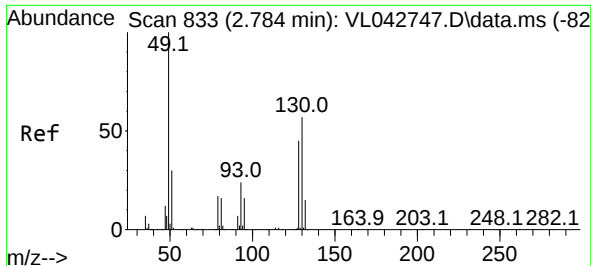
Quant Time: Jul 30 01:12:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
65) tert-Butylbenzene	11.545	119	15693	0.253	ppbv	#	32
66) Benzyl Chloride	11.542	91	22625	4.441	ppbv	#	68
67) sec-Butylbenzene	11.775	105	3788	0.043	ppbv	#	1
69) p-Isopropyltoluene	11.934	119	52072	0.723	ppbv		99
70) n-Butylbenzene	12.351	91	14251	0.205	ppbv	#	45
71) 2-Chlorotoluene	11.215	91	4515	0.084	ppbv		71
72) 4-Ethyltoluene	11.134	105	29045	0.513	ppbv	#	55
73) 1,3,5-Trimethylbenzene	11.212	105	34083	0.732	ppbv		95
74) 1,2,4-Trimethylbenzene	11.545	105	132016	2.598	ppbv	#	64
75) 1,3-Dichlorobenzene	11.681	146	10764	0.302	ppbv		96
76) 1,4-Dichlorobenzene	11.681	146	10764	0.309	ppbv		97
77) 1,2-Dichlorobenzene	11.681	146	10764	0.307	ppbv		86
79) Naphthalene	13.520	128	15108	0.697	ppbv	#	94
80) Naphthalene,2-methyl-	14.487	142	548	1.146	ppbv	#	79
81) 1,2,4-Trichlorobenzene	13.448	180	134	0.439	ppbv	#	12

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

Quant Time: Jul 30 01:12:06 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

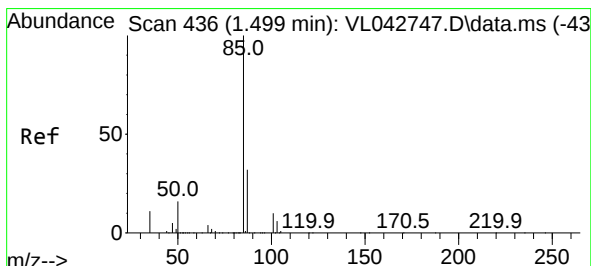
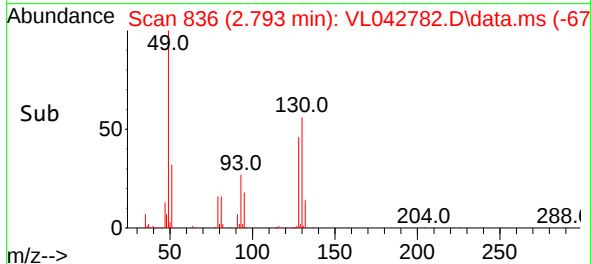
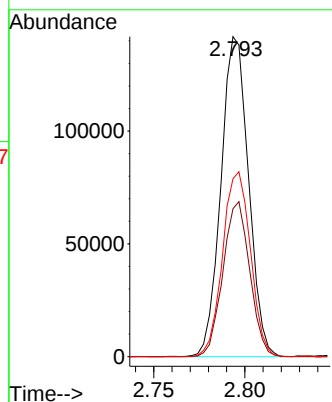
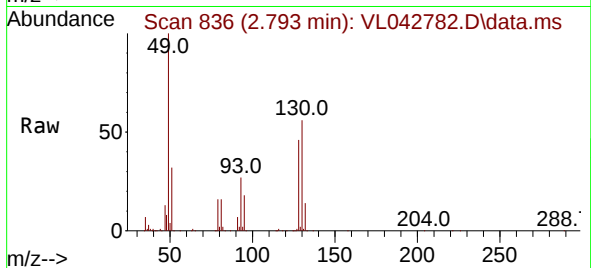




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

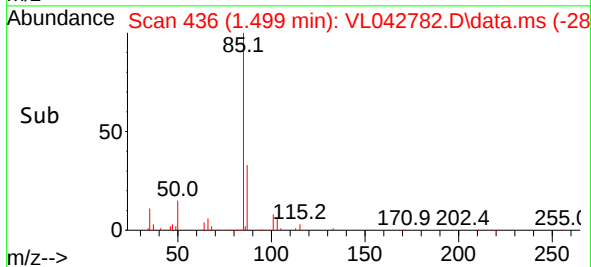
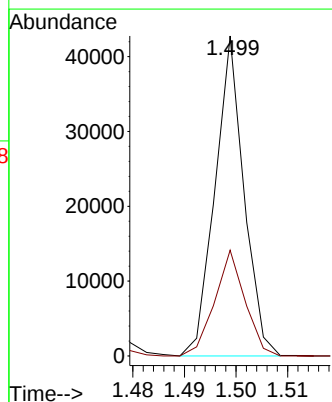
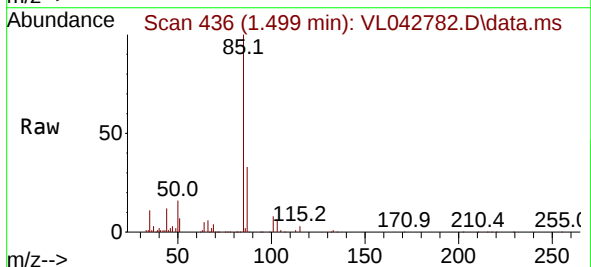
Instrument :
MSVOA_L
ClientSampleId :
IA2

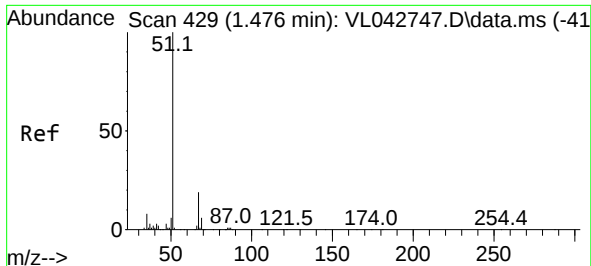
Tgt Ion: 49 Resp: 149325
Ion Ratio Lower Upper
49 100
128 47.1 23.6 71.0
130 58.6 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 0.843 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 85 Resp: 16650
Ion Ratio Lower Upper
85 100
87 33.1 25.4 38.2

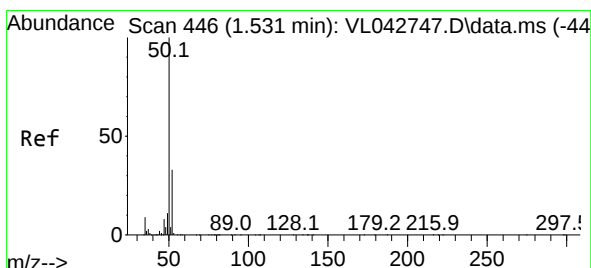
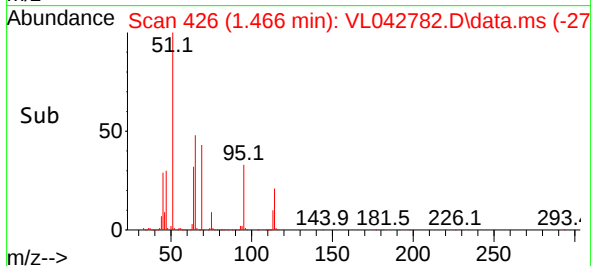
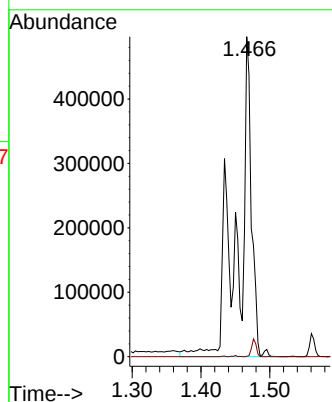
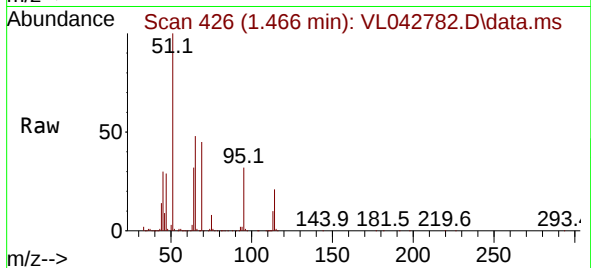




#3
Chlorodifluoromethane
Concen: 25.822 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

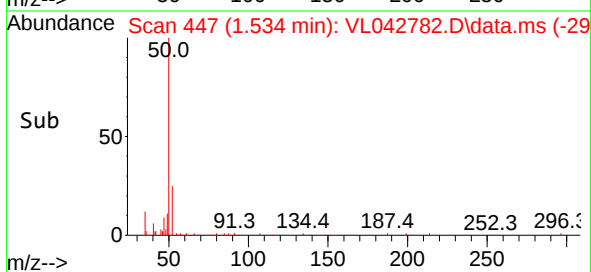
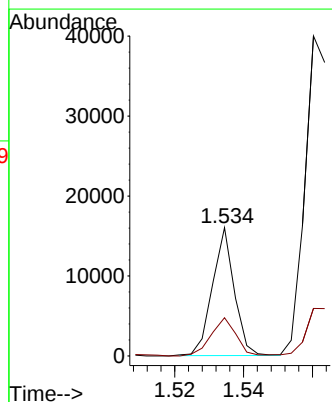
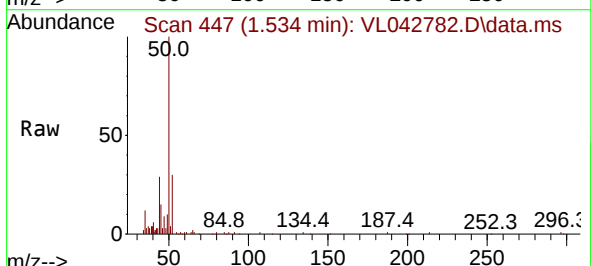
Instrument :
MSVOA_L
ClientSampleId :
IA2

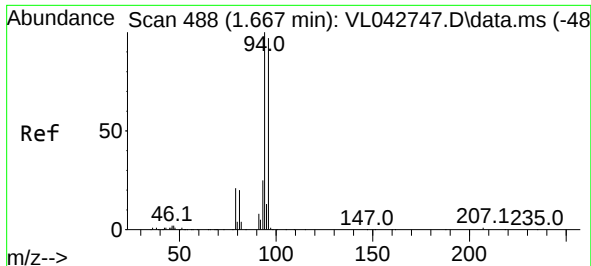
Tgt Ion: 51 Resp: 664110
Ion Ratio Lower Upper
51 100
67 2.1 15.0 22.6#



#4
Chloromethane
Concen: 0.885 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 50 Resp: 7070
Ion Ratio Lower Upper
50 100
52 30.0 26.6 40.0

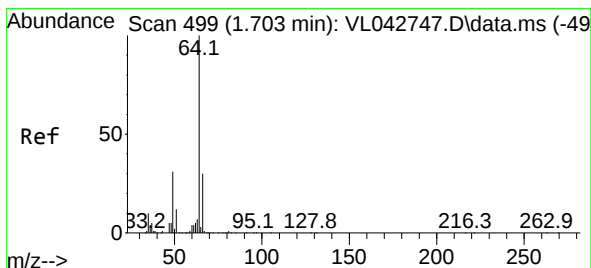
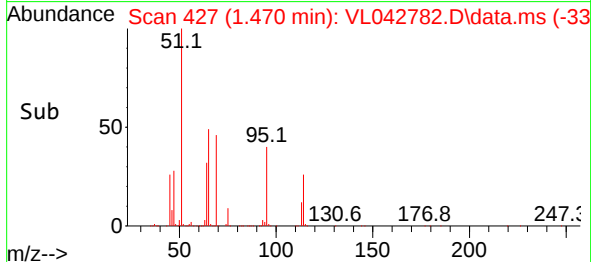
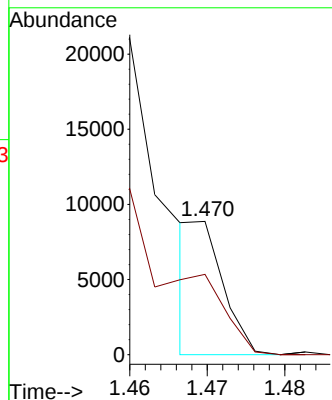
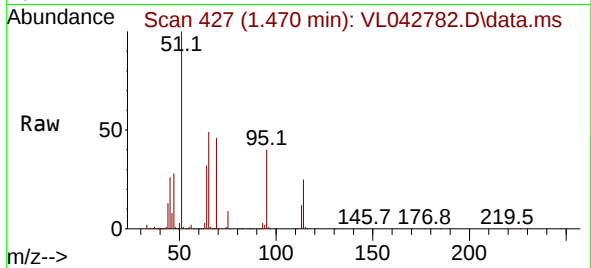




#6
Bromomethane
Concen: 0.777 ppbv
RT: 1.470 min Scan# 411
Delta R.T. -0.197 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

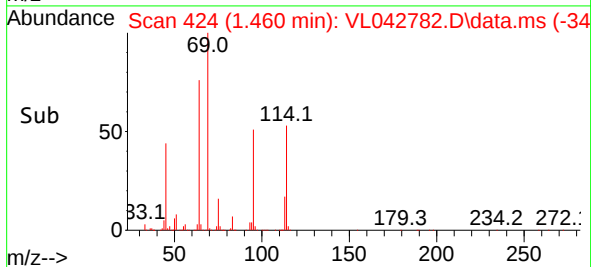
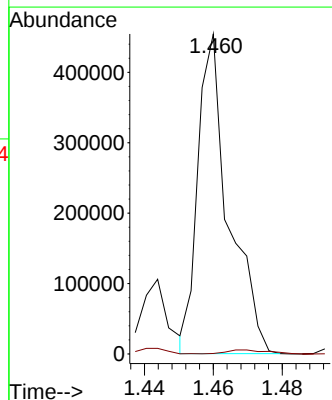
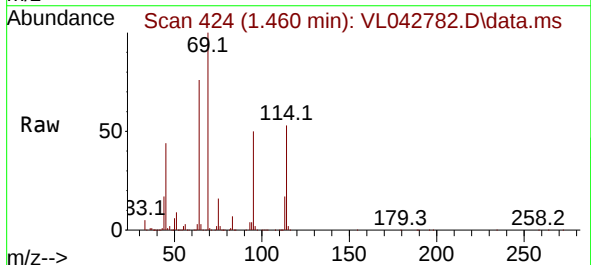
Instrument :
MSVOA_L
ClientSampleId :
IA2

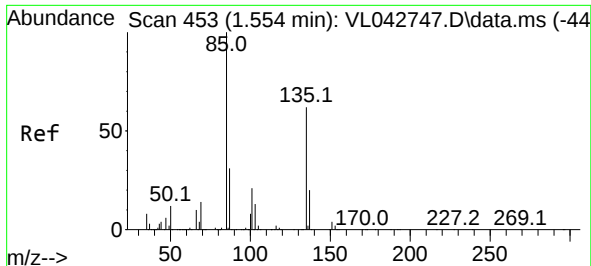
Tgt Ion: 94 Resp: 2371
Ion Ratio Lower Upper
94 100
96 60.3 77.6 116.4#



#7
Chloroethane
Concen: 92.337 ppbv
RT: 1.460 min Scan# 424
Delta R.T. -0.243 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 64 Resp: 281548
Ion Ratio Lower Upper
64 100
66 0.2 24.1 36.1#

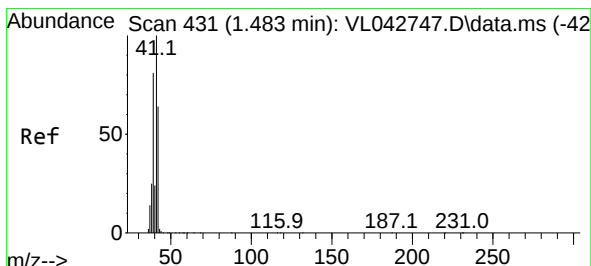
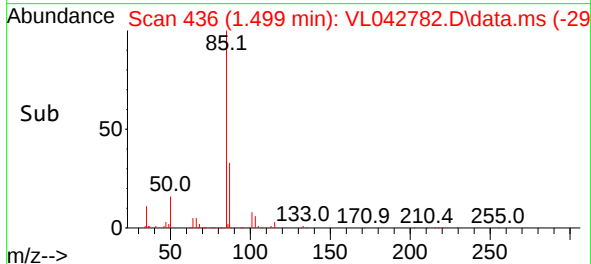
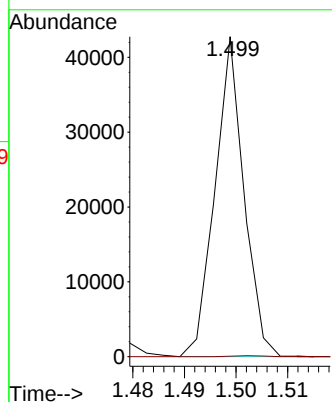
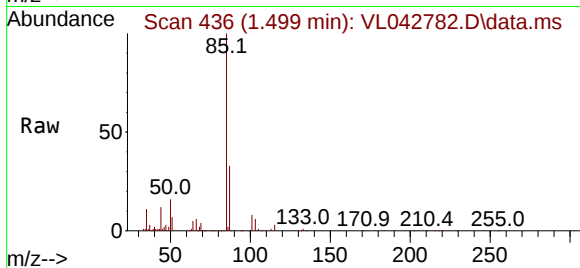




#8
Dichlorotetrafluoroethane
Concen: 1.025 ppbv
RT: 1.499 min Scan# 41
Delta R.T. -0.055 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

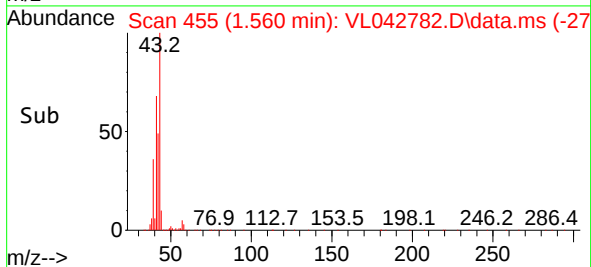
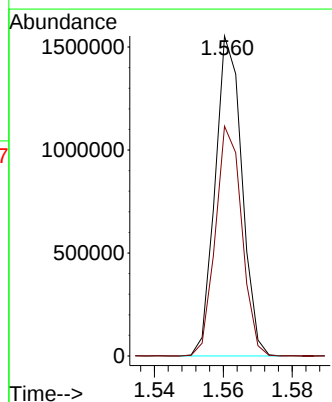
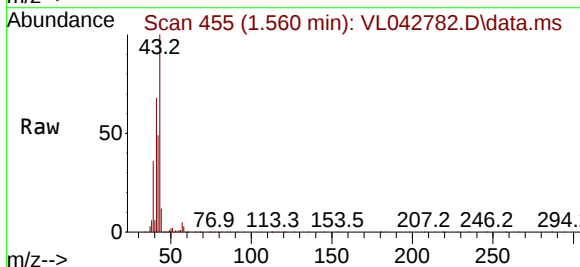
Instrument :
MSVOA_L
ClientSampleId :
IA2

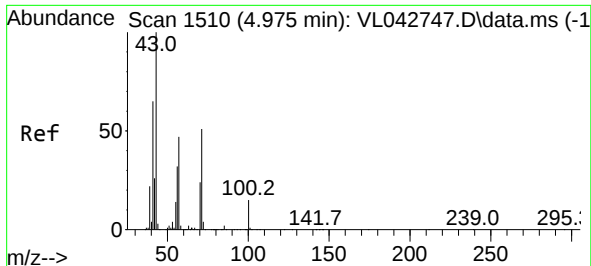
Tgt Ion: 85 Resp: 16650
Ion Ratio Lower Upper
85 100
135 0.3 50.6 76.0#



#9
Propene
Concen: 89.545 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 41 Resp: 837012
Ion Ratio Lower Upper
41 100
42 70.9 53.2 79.8





#10

Heptane

Concen: 0.565 ppbv

RT: 4.994 min Scan# 1

Delta R.T. 0.019 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

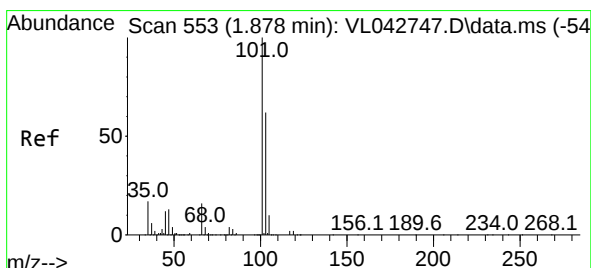
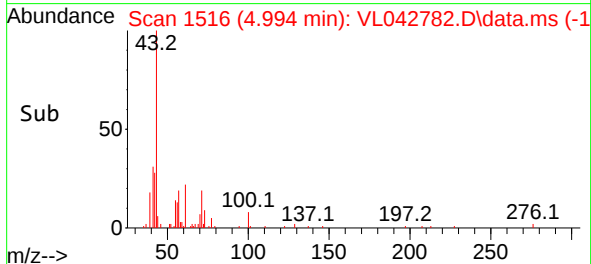
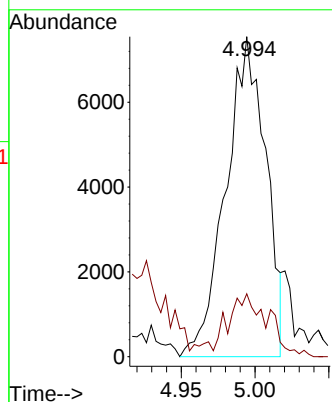
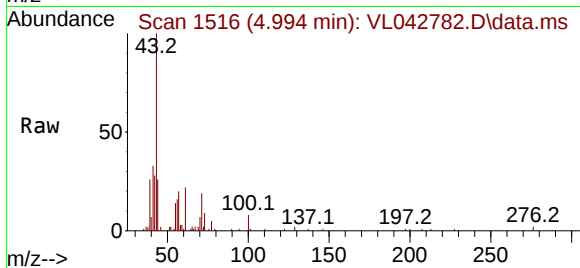
IA2

Tgt Ion: 43 Resp: 14228

Ion Ratio Lower Upper

43 100

57 20.7 39.9 59.9#



#11

Trichlorofluoromethane

Concen: 1.187 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.006 min

Lab File: VL042782.D

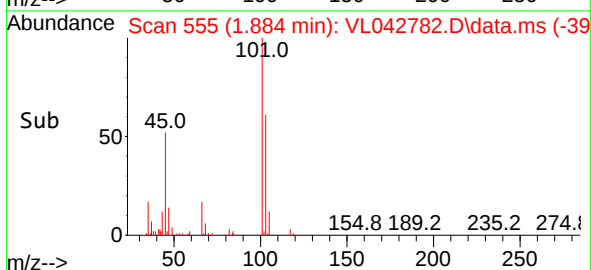
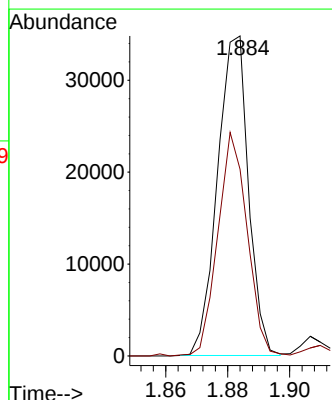
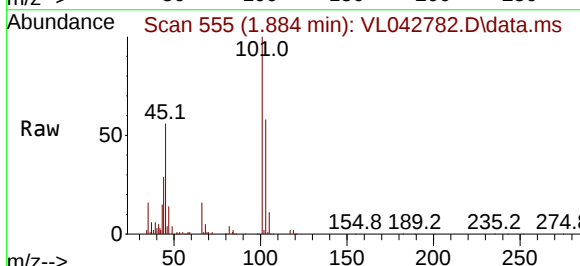
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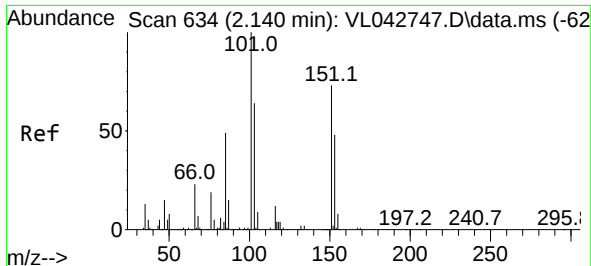
Tgt Ion:101 Resp: 24157

Ion Ratio Lower Upper

101 100

103 58.2 49.6 74.4

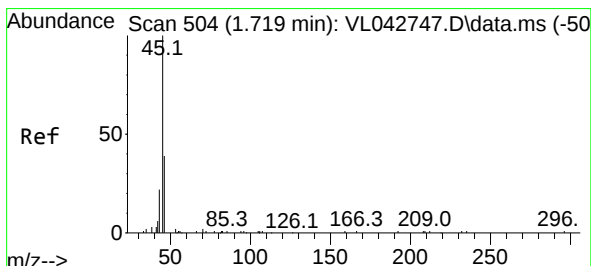
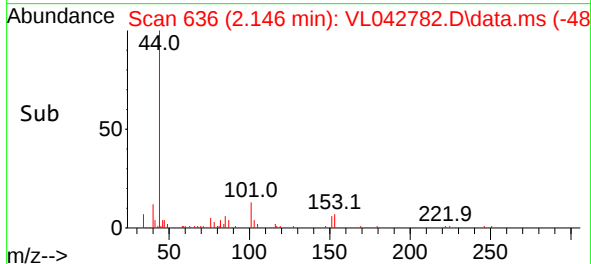
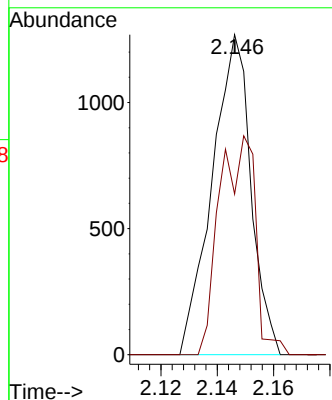
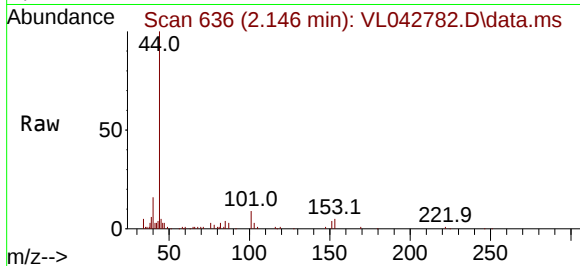




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.078 ppbv
RT: 2.146 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

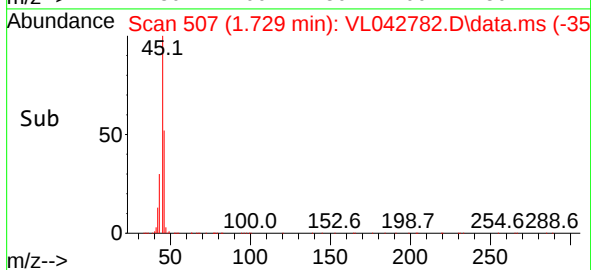
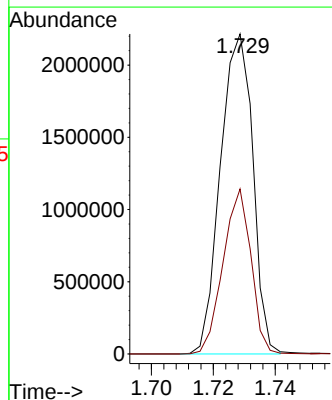
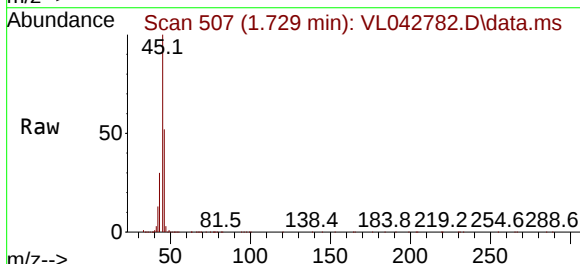
Instrument :
MSVOA_L
ClientSampleId :
IA2

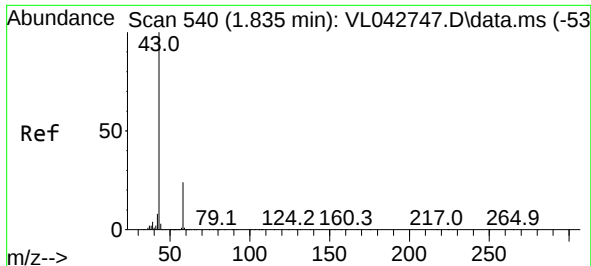
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Ion Ratio Lower Upper
101 100
151 63.5 60.5 90.7



#13
Ethanol
Concen: 2360.036 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 45 Resp: 1607041
Ion Ratio Lower Upper
45 100
46 44.7 17.8 71.4

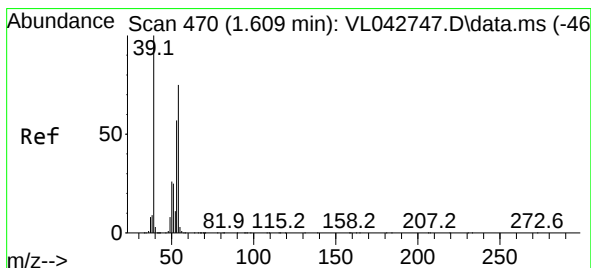
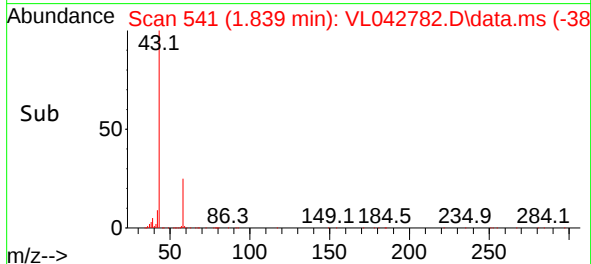
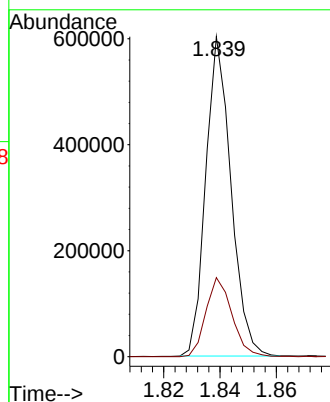
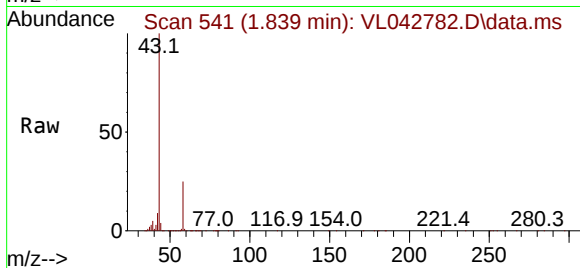




#15
Acetone
Concen: 18.194 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

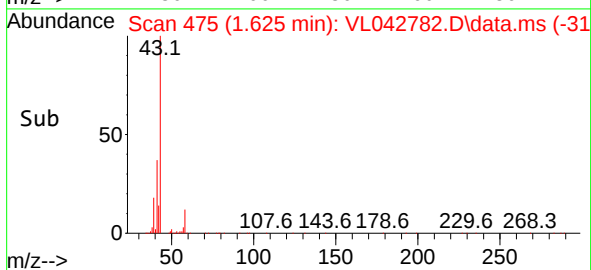
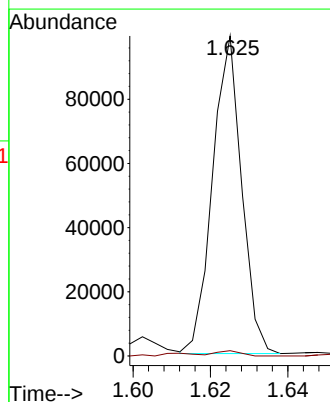
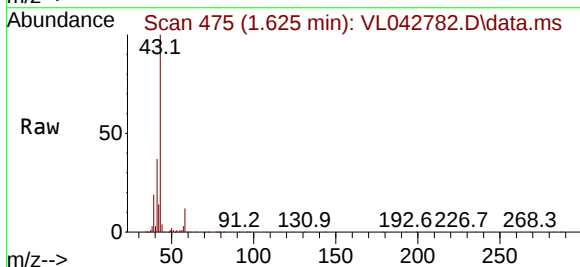
Instrument :
MSVOA_L
ClientSampleId :
IA2

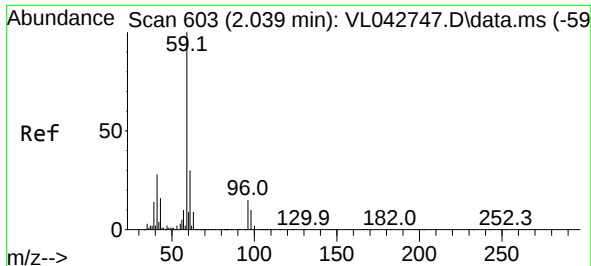
Tgt Ion: 43 Resp: 375143
Ion Ratio Lower Upper
43 100
58 25.6 19.8 29.8



#16
1,3-Butadiene
Concen: 5.866 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.016 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 39 Resp: 51591
Ion Ratio Lower Upper
39 100
54 2.9 54.5 81.7#





#17

tert-Butyl alcohol

Concen: 0.846 ppbv

RT: 2.059 min Scan# 603

Delta R.T. 0.019 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

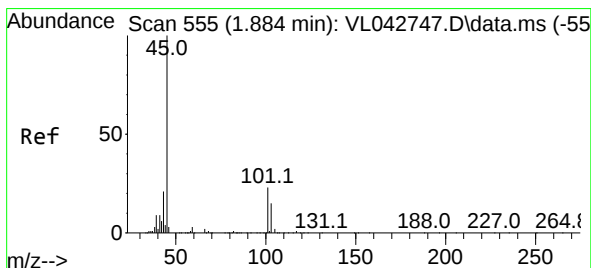
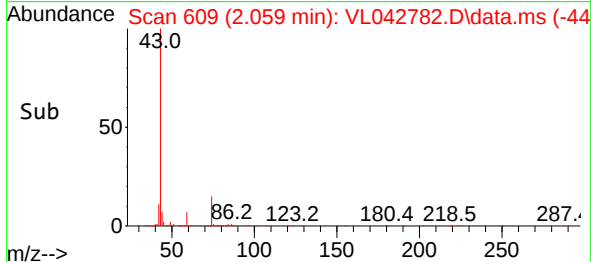
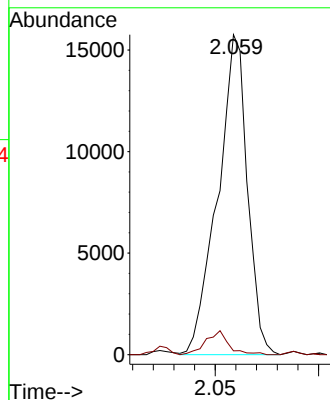
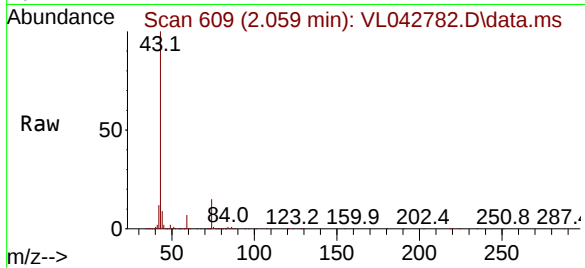
IA2

Tgt Ion: 59 Resp: 15735

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 9.702 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042782.D

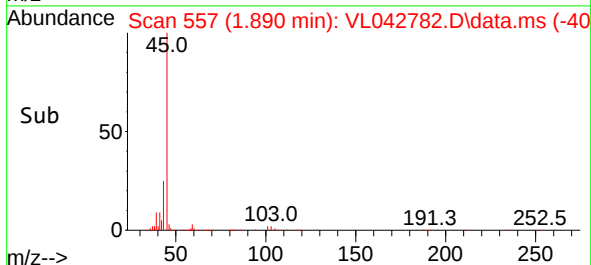
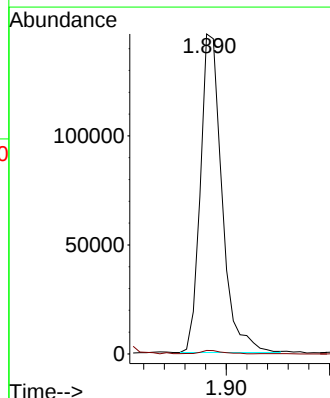
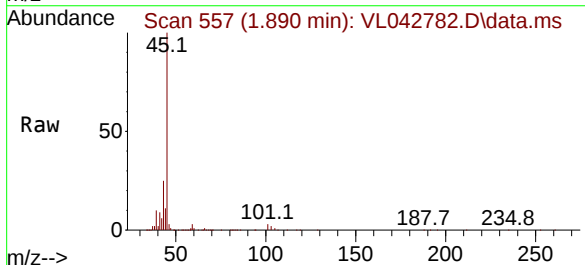
Acq: 29 Jul 2025 14:24

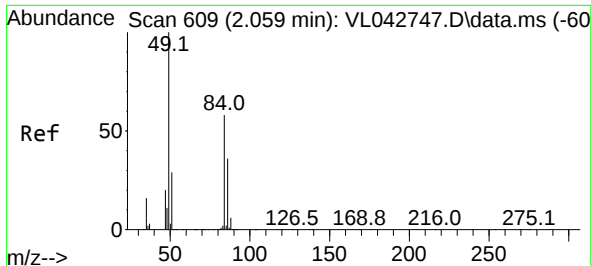
Tgt Ion: 45 Resp: 106307

Ion Ratio Lower Upper

45 100

58 90.4 30.0 45.0#

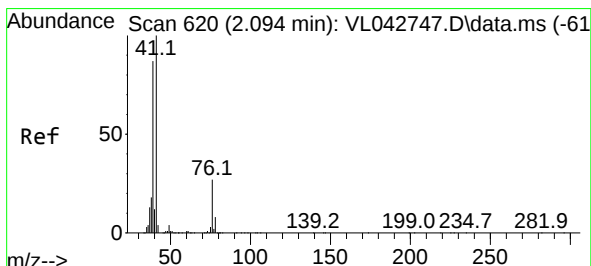
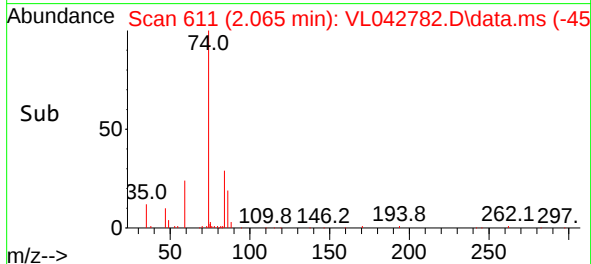
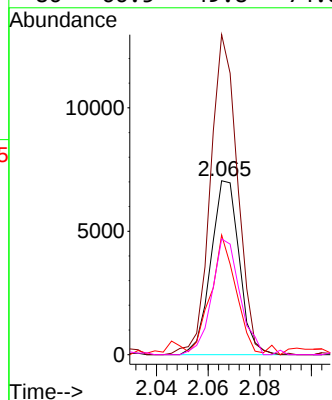
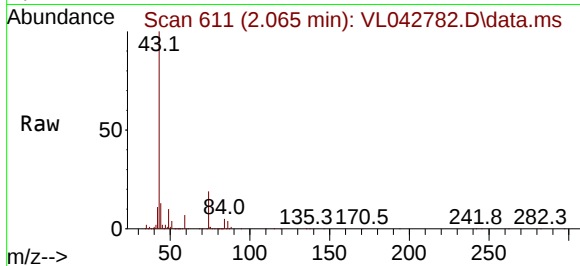




#20
Methylene Chloride
Concen: 0.828 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

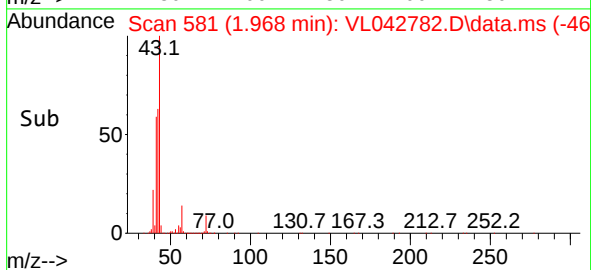
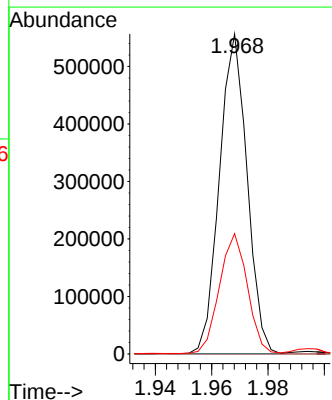
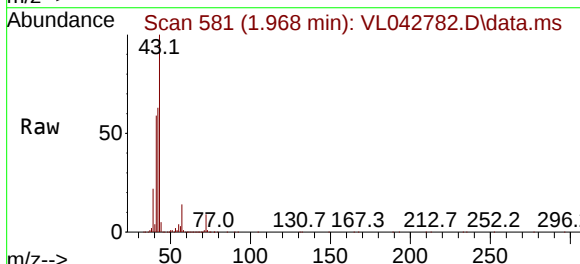
Instrument :
MSVOA_L
ClientSampleId :
IA2

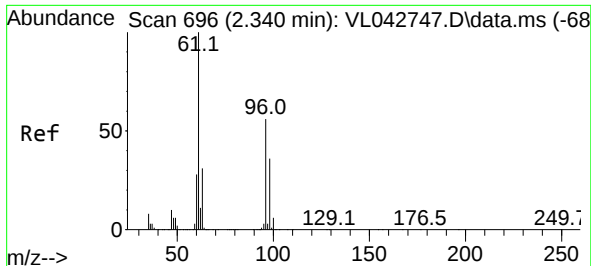
Tgt Ion:	84	Resp:	5378
Ion	Ratio	Lower	Upper
84	100		
49	184.0	138.6	208.0
51	68.8	40.6	61.0#
86	66.5	49.8	74.8



#21
Allyl Chloride
Concen: 29.744 ppbv
RT: 1.968 min Scan# 581
Delta R.T. -0.126 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion:	41	Resp:	377987
Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.1	31.7#
39	39.6	68.3	102.5#

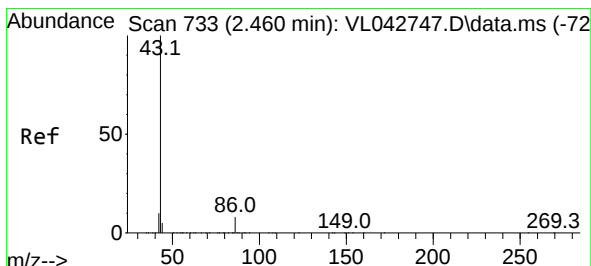
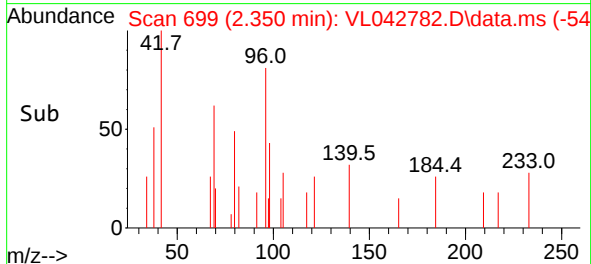
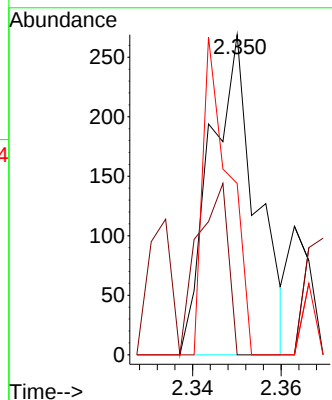
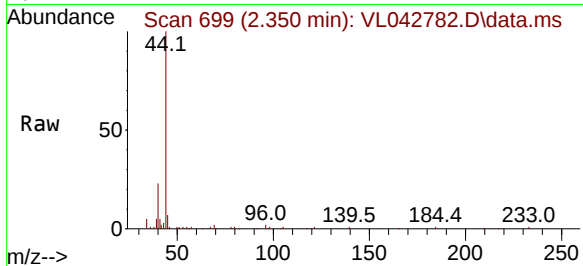




#22
trans-1,2-Dichloroethene
Concen: 0.026 ppbv
RT: 2.350 min Scan# 696
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

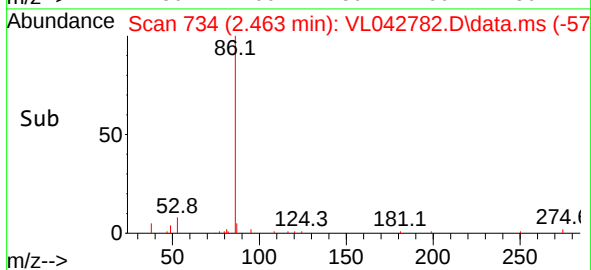
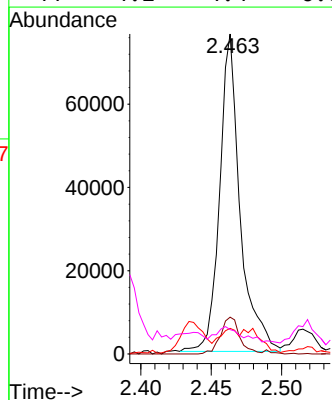
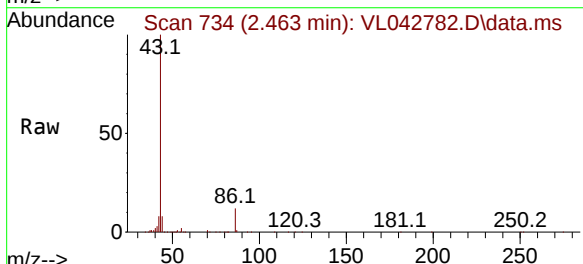
Instrument :
MSVOA_L
ClientSampleId :
IA2

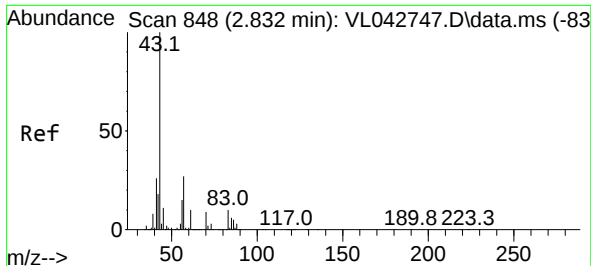
Tgt Ion: 96 Resp: 194
Ion Ratio Lower Upper
96 100
61 0.0 142.3 213.5#
98 53.5 50.6 76.0



#23
Vinyl Acetate
Concen: 3.088 ppbv
RT: 2.463 min Scan# 734
Delta R.T. 0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 43 Resp: 77191
Ion Ratio Lower Upper
43 100
86 11.6 6.1 9.1#
42 7.6 7.8 11.8#
44 4.2 4.4 6.6#

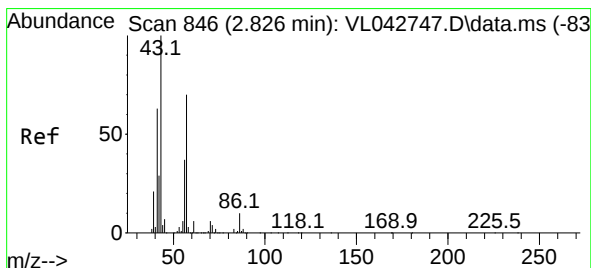
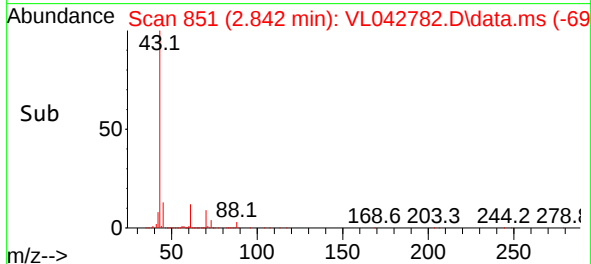
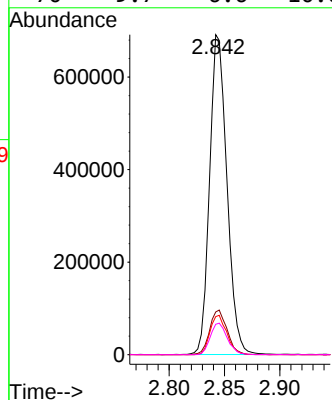
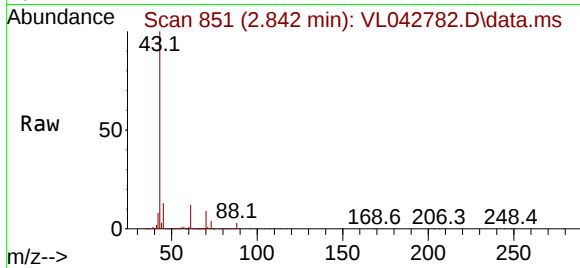




#25
Ethyl Acetate
Concen: 16.488 ppbv
RT: 2.842 min Scan# 848
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

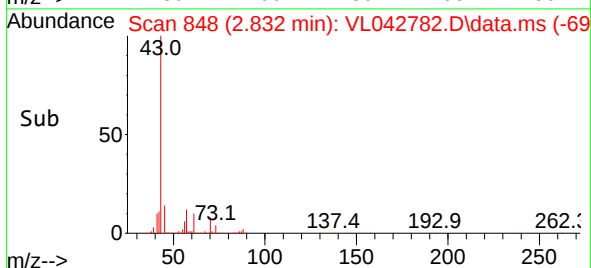
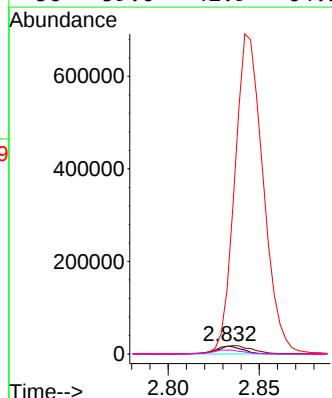
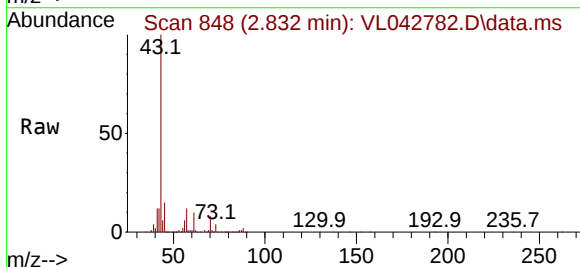
Instrument :
MSVOA_L
ClientSampleId :
IA2

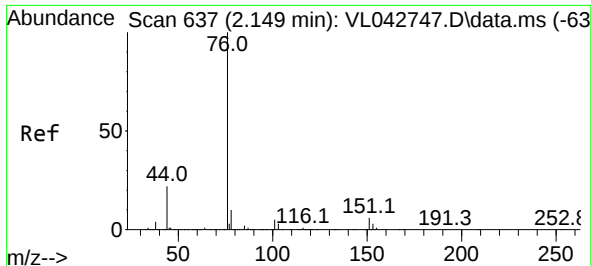
Tgt Ion: 43 Resp: 752515
Ion Ratio Lower Upper
43 100
45 14.1 7.8 11.6#
61 12.1 6.7 10.1#
70 9.7 6.6 10.0



#26
Hexane
Concen: 0.828 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 57 Resp: 16575
Ion Ratio Lower Upper
57 100
41 153.5 75.4 113.2#
43 4566.0 185.0 277.6#
56 59.0 42.9 64.3





#27

Carbon Disulfide

Concen: 0.093 ppbv

RT: 2.156 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

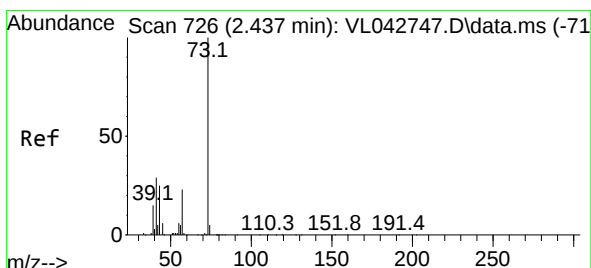
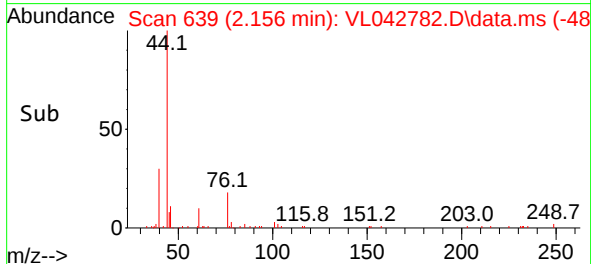
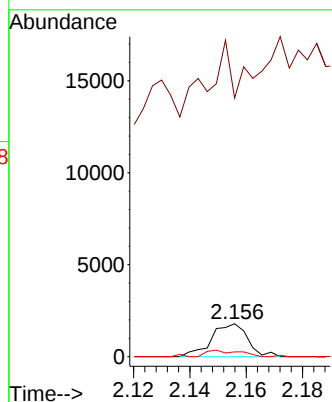
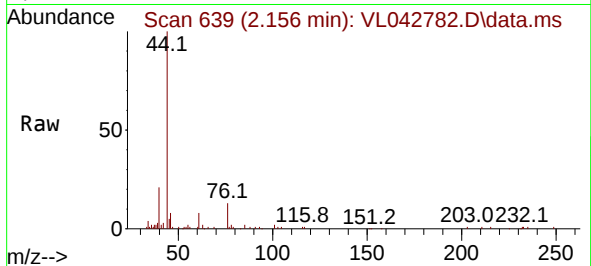
Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 76	Resp: 1598
Ion Ratio	Lower Upper
76	100
44	3219.9 19.3 28.9#
78	20.6 9.9 14.9#



#28

Methyl tert-Butyl Ether

Concen: 0.077 ppbv

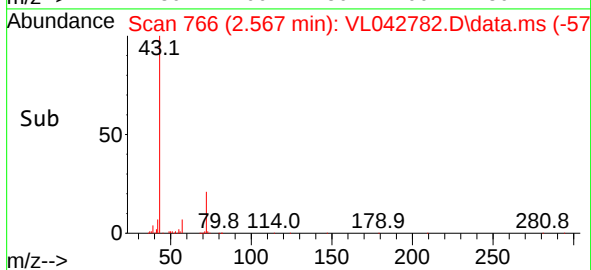
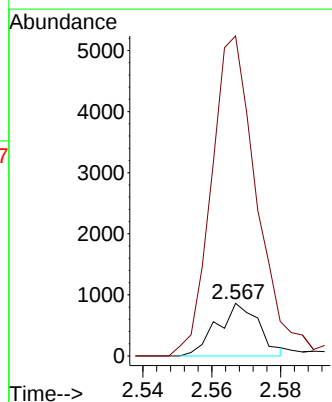
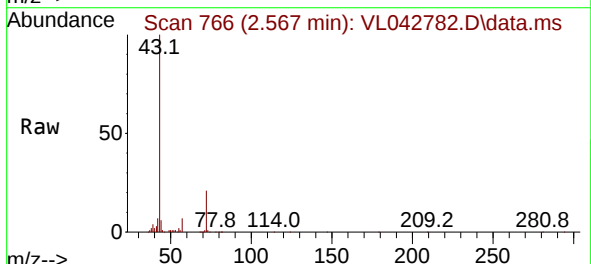
RT: 2.567 min Scan# 766

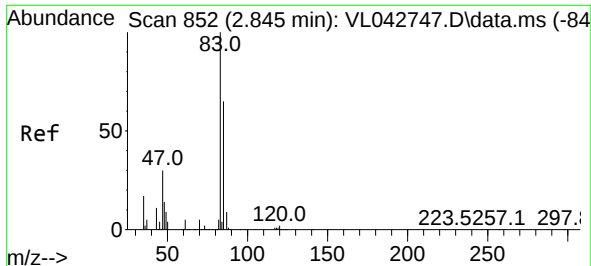
Delta R.T. 0.129 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Tgt Ion: 73	Resp: 728
Ion Ratio	Lower Upper
73	100
57	663.9 19.8 29.8#





#29

Chloroform

Concen: 0.741 ppbv

RT: 2.858 min Scan# 85

Delta R.T. 0.013 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

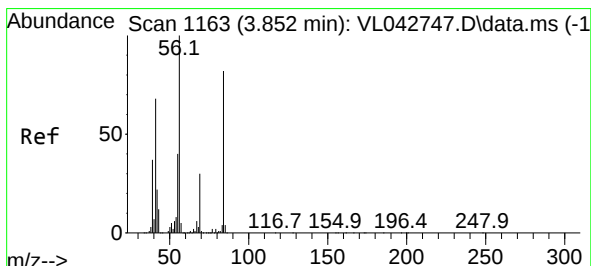
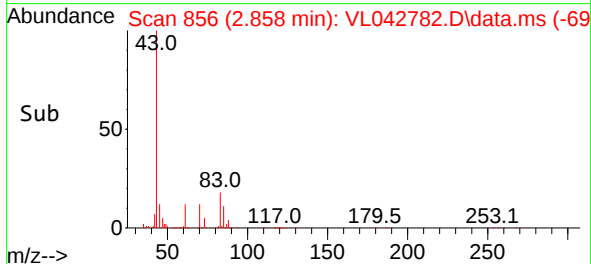
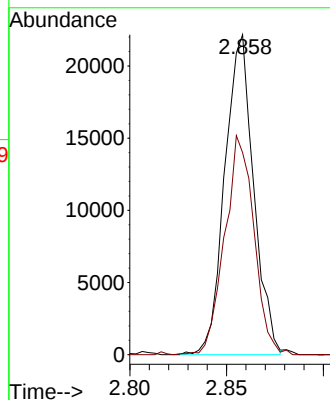
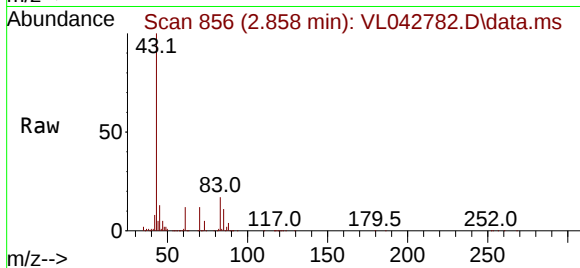
IA2

Tgt Ion: 83 Resp: 22930

Ion Ratio Lower Upper

83 100

85 62.9 52.2 78.2



#30

Cyclohexane

Concen: 0.029 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.006 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

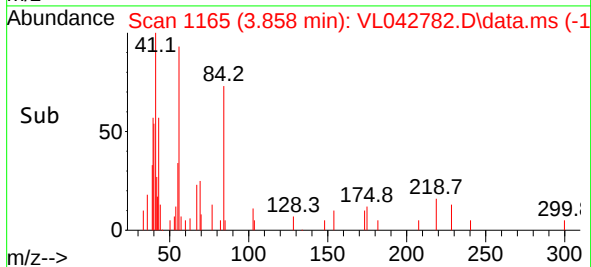
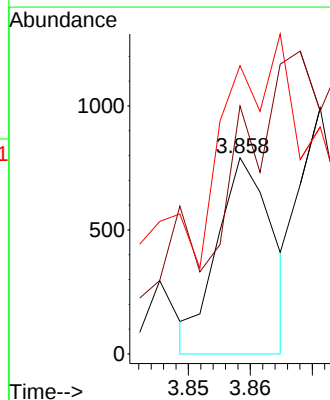
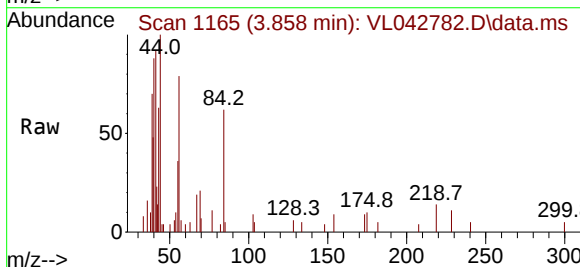
Tgt Ion: 84 Resp: 488

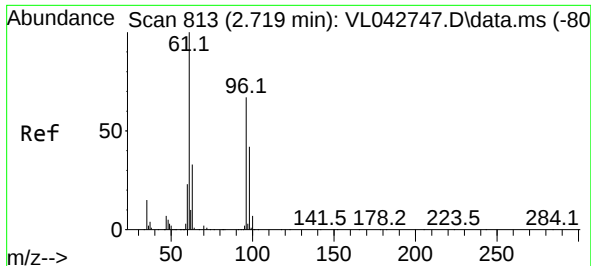
Ion Ratio Lower Upper

84 100

56 0.0 97.5 146.3#

41 0.0 67.2 100.8#

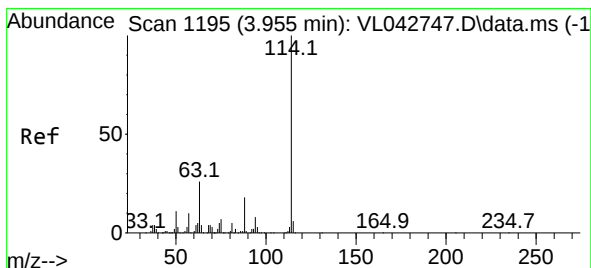
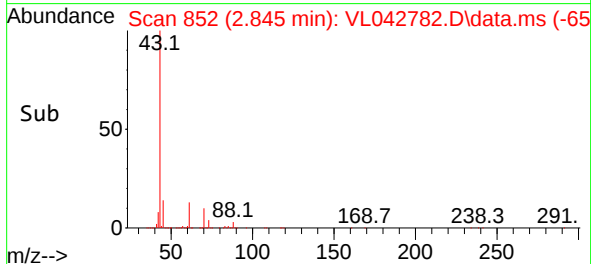
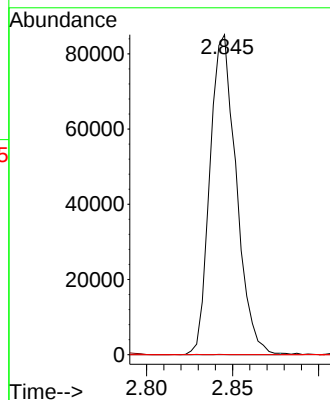
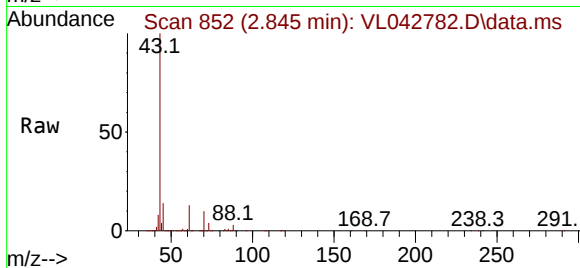




#31
 cis-1,2-Dichloroethene
 Concen: 4.396 ppbv
 RT: 2.845 min Scan# 813
 Delta R.T. 0.126 min
 Lab File: VL042782.D
 Acq: 29 Jul 2025 14:24

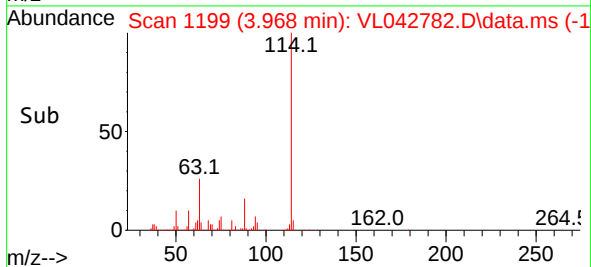
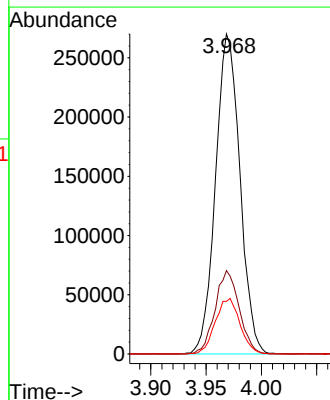
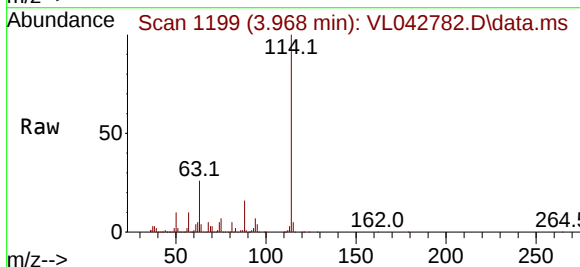
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

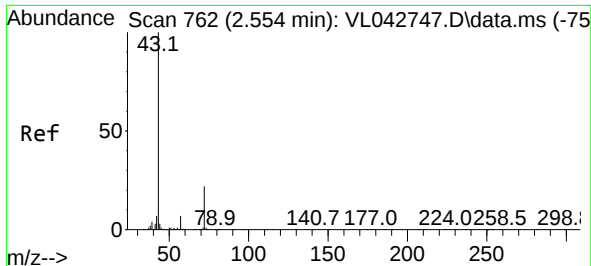
Tgt Ion: 61 Resp: 90452
 Ion Ratio Lower Upper
 61 100
 96 0.1 53.5 80.3#
 98 0.0 33.6 50.4#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.968 min Scan# 1199
 Delta R.T. 0.013 min
 Lab File: VL042782.D
 Acq: 29 Jul 2025 14:24

Tgt Ion: 114 Resp: 414208
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.5 30.7
 88 17.6 14.0 21.0

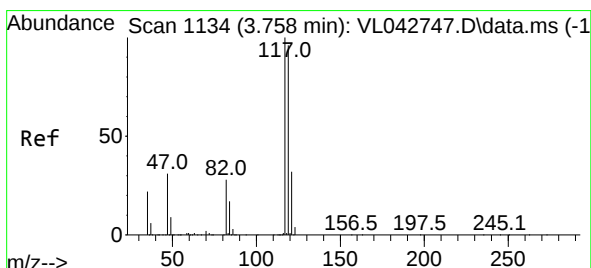
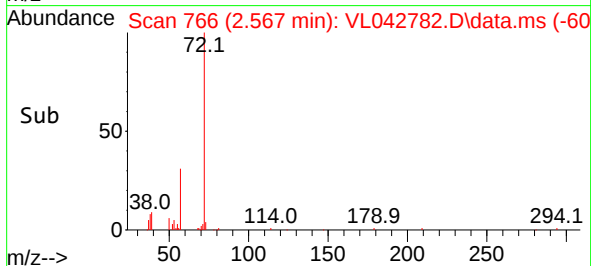
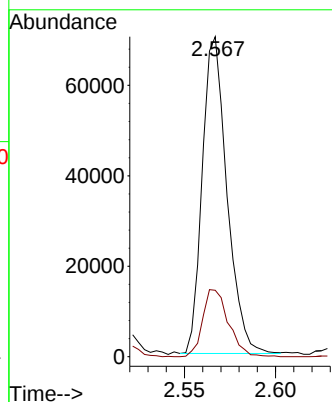
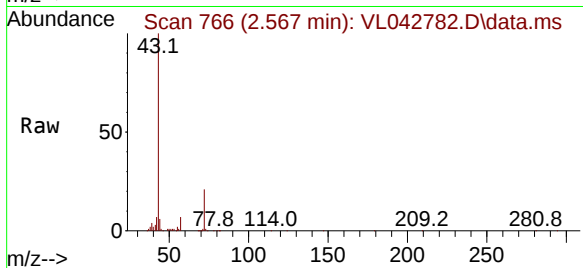




#34
2-Butanone
Concen: 2.254 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

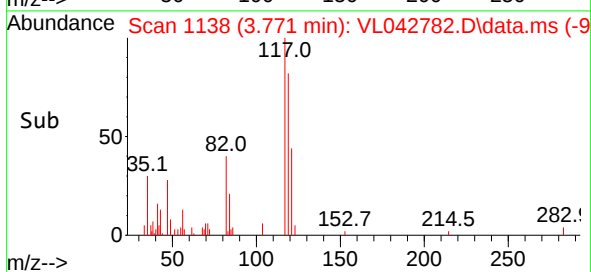
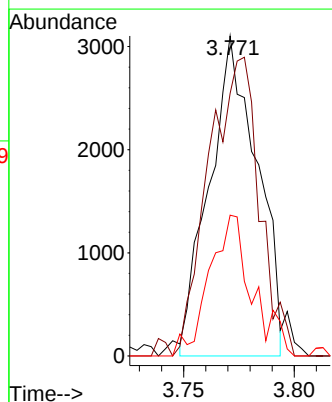
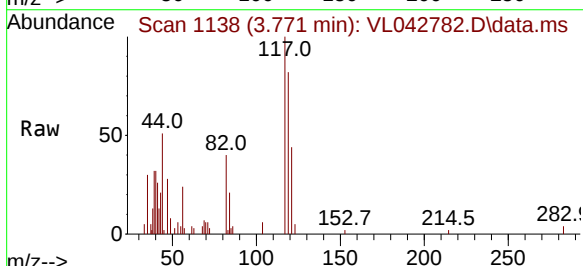
Instrument :
MSVOA_L
ClientSampleId :
IA2

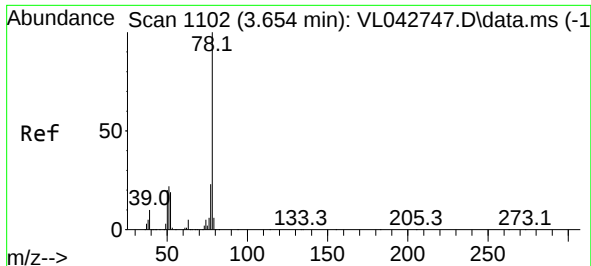
Tgt Ion: 43 Resp: 66120
Ion Ratio Lower Upper
43 100
72 22.1 17.4 26.0



#35
Carbon Tetrachloride
Concen: 0.152 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 117 Resp: 4664
Ion Ratio Lower Upper
117 100
119 82.2 77.1 115.7
121 38.6 25.5 38.3#

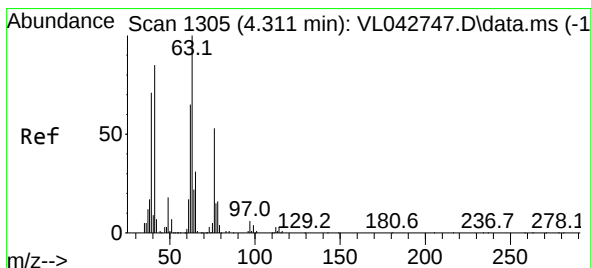
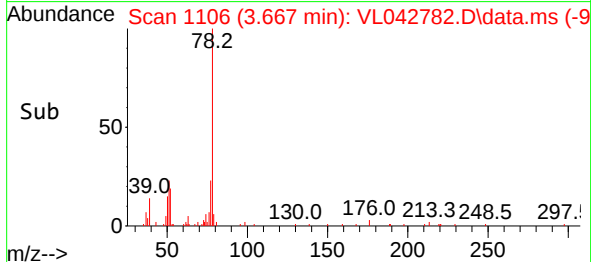
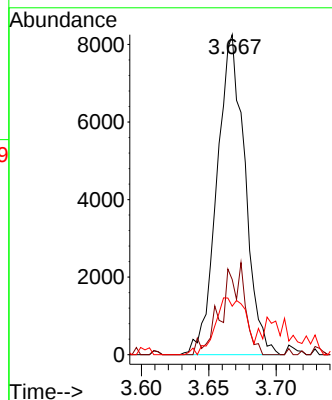
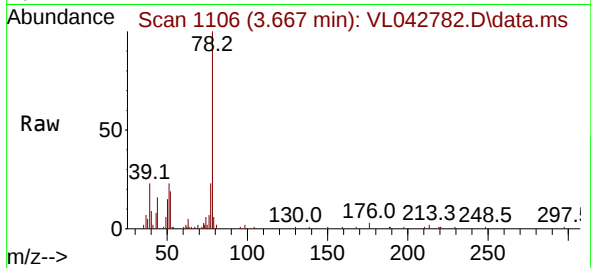




#36
Benzene
Concen: 0.302 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

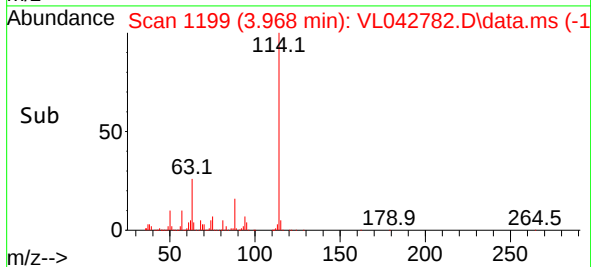
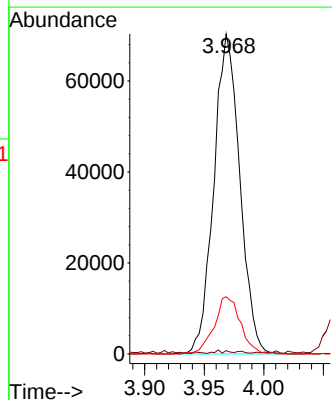
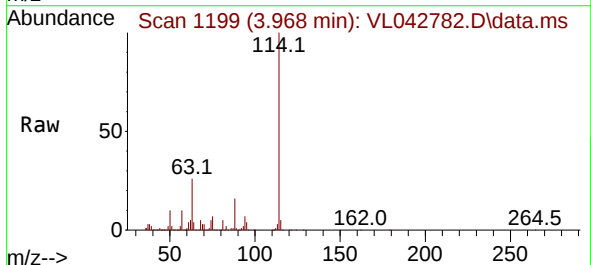
Instrument :
MSVOA_L
ClientSampleId :
IA2

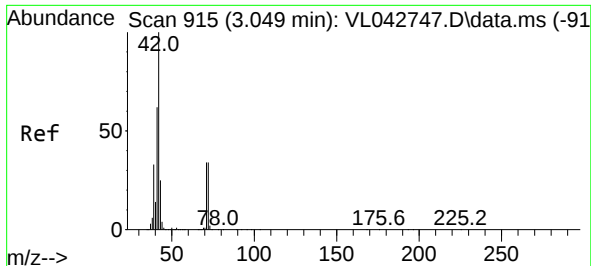
Tgt Ion: 78 Resp: 11868
Ion Ratio Lower Upper
78 100
77 23.5 18.5 27.7
50 15.1 16.2 24.2#



#39
1,2-Dichloropropane
Concen: 7.362 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.343 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 63 Resp: 106679
Ion Ratio Lower Upper
63 100
41 0.7 68.2 102.4#
62 17.9 52.0 78.0#





#41

Tetrahydrofuran

Concen: 1.059 ppbv

RT: 3.072 min Scan# 91

Delta R.T. 0.023 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

IA2

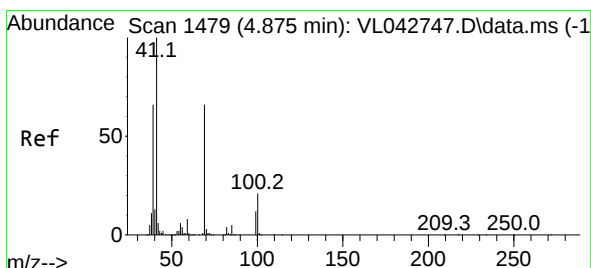
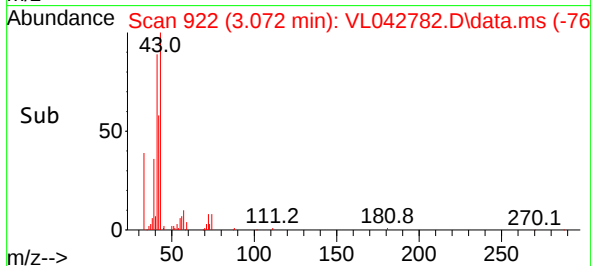
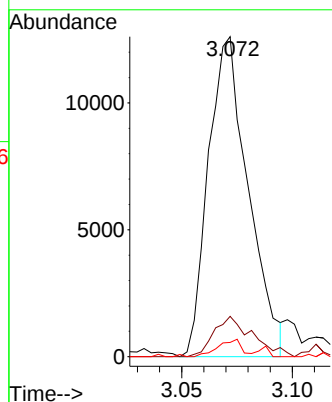
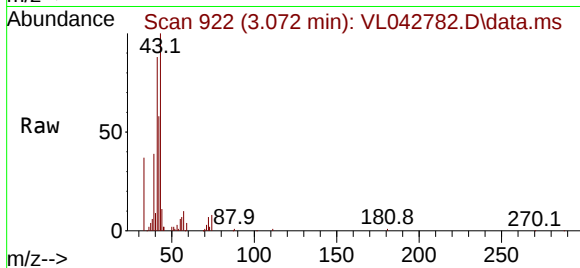
Tgt Ion: 42 Resp: 15808

Ion Ratio Lower Upper

42 100

72 12.2 30.9 46.3#

71 4.1 28.6 43.0#



#43

Methyl Methacrylate

Concen: 0.042 ppbv

RT: 4.894 min Scan# 1485

Delta R.T. 0.019 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

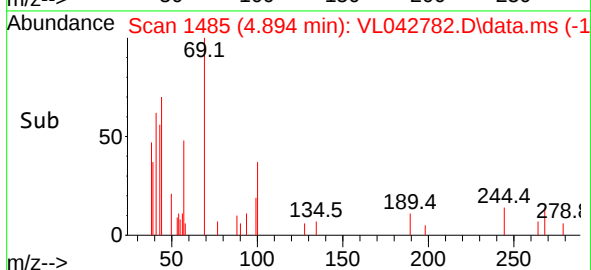
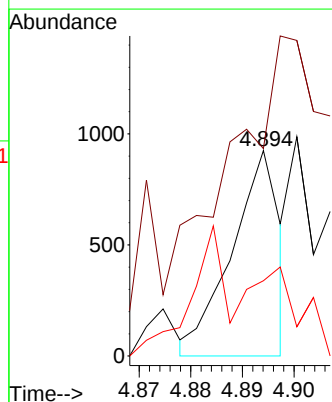
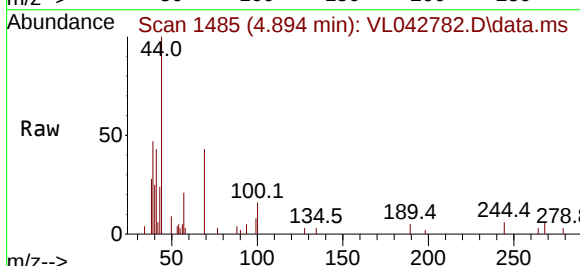
Tgt Ion: 69 Resp: 591

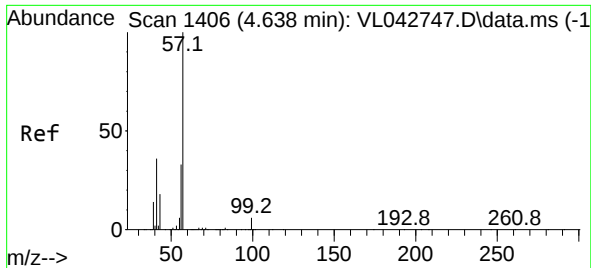
Ion Ratio Lower Upper

69 100

41 0.0 125.7 188.5#

100 118.1 28.6 42.8#

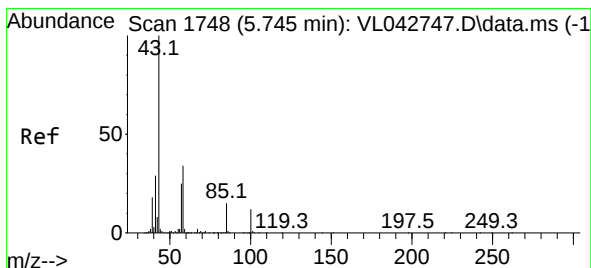
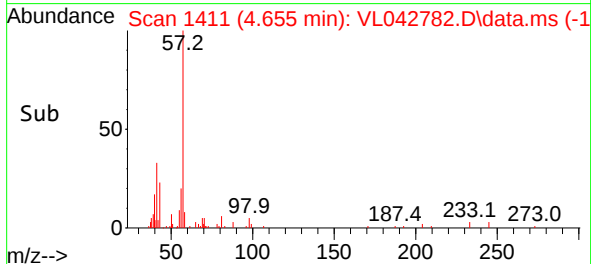
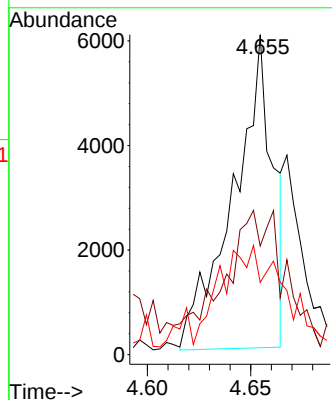
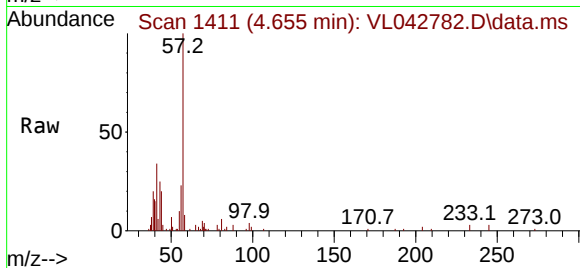




#44
2,2,4-Trimethylpentane
Concen: 0.124 ppbv
RT: 4.655 min Scan# 1406
Delta R.T. 0.016 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

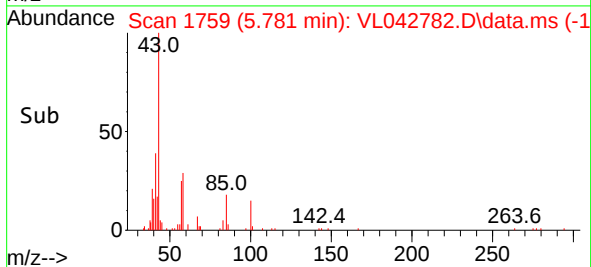
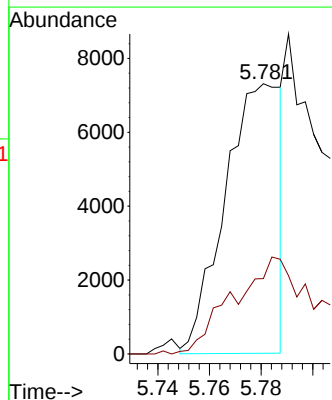
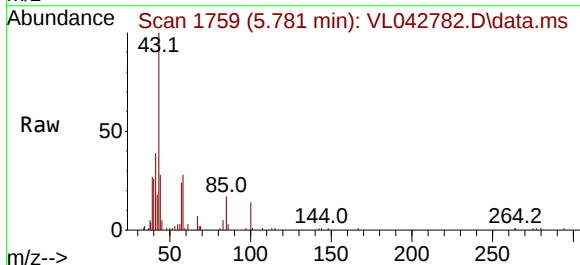
Instrument :
MSVOA_L
ClientSampleId :
IA2

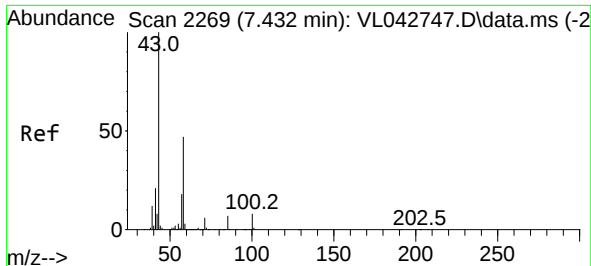
Tgt Ion: 57 Resp: 7965
Ion Ratio Lower Upper
57 100
41 69.8 28.3 42.5#
56 63.9 25.8 38.6#



#50
4-Methyl-2-Pentanone
Concen: 0.290 ppbv
RT: 5.781 min Scan# 1759
Delta R.T. 0.036 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 43 Resp: 10949
Ion Ratio Lower Upper
43 100
58 63.9 27.8 41.8#

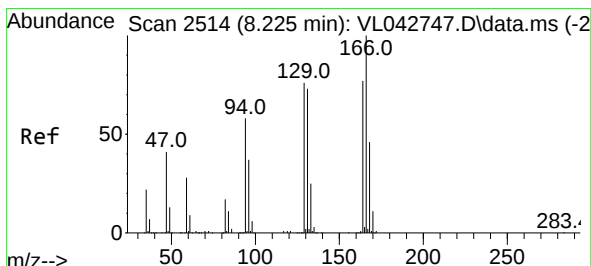
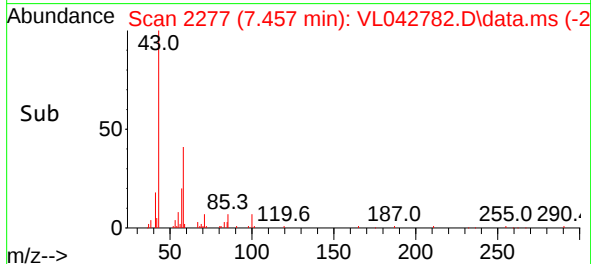
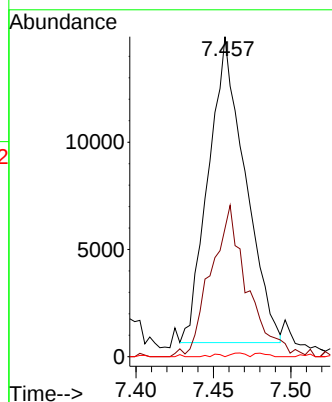
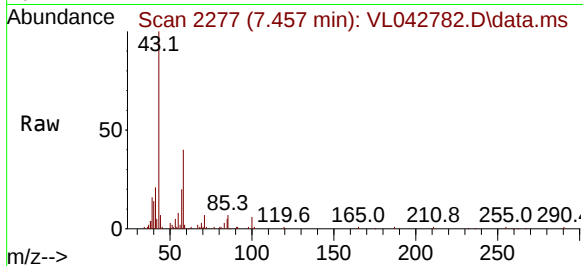




#51
2-Hexanone
Concen: 0.825 ppbv
RT: 7.457 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

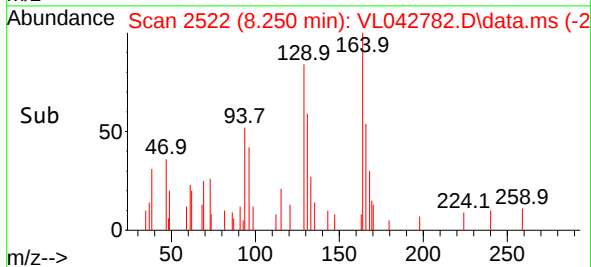
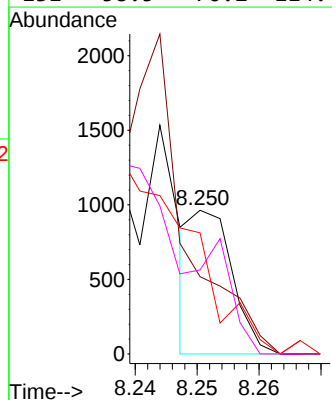
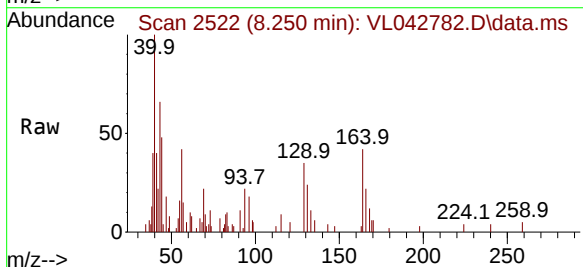
Instrument :
MSVOA_L
ClientSampleId :
IA2

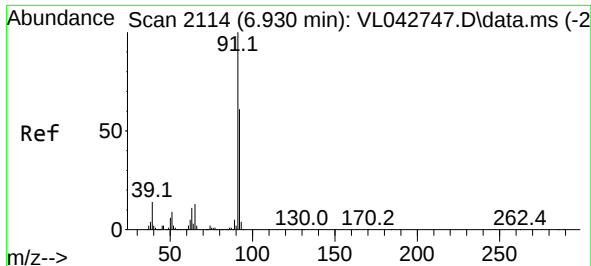
Tgt Ion: 43 Resp: 23562
Ion Ratio Lower Upper
43 100
58 49.5 38.0 57.0
98 1.1 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.027 ppbv
RT: 8.250 min Scan# 2522
Delta R.T. 0.026 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 164 Resp: 439
Ion Ratio Lower Upper
164 100
166 53.8 104.0 156.0#
129 84.2 79.2 118.8
131 58.5 76.2 114.4#

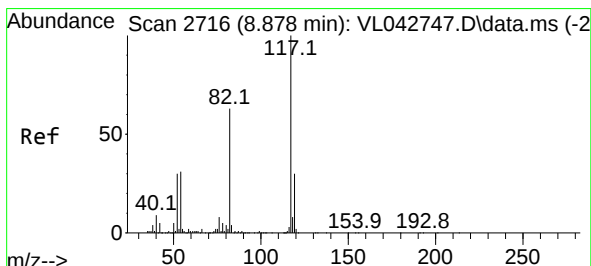
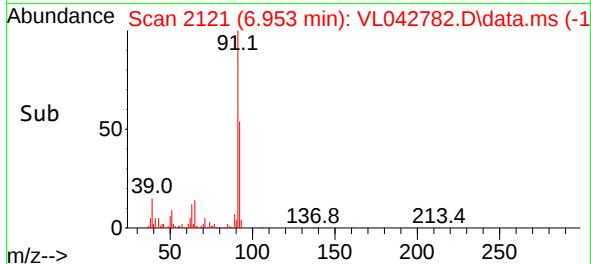
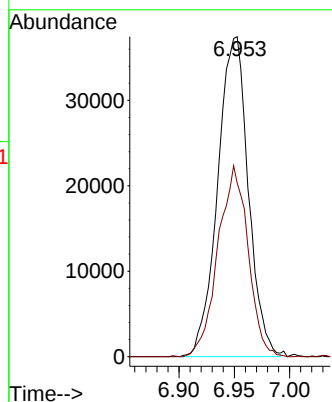
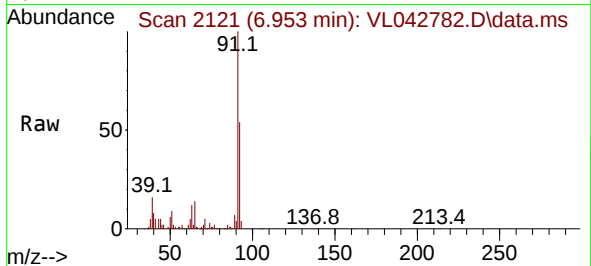




#53
Toluene
Concen: 1.711 ppbv
RT: 6.953 min Scan# 2114
Delta R.T. 0.023 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

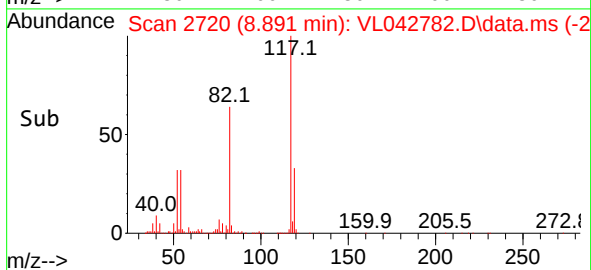
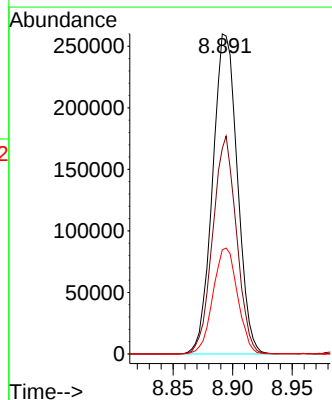
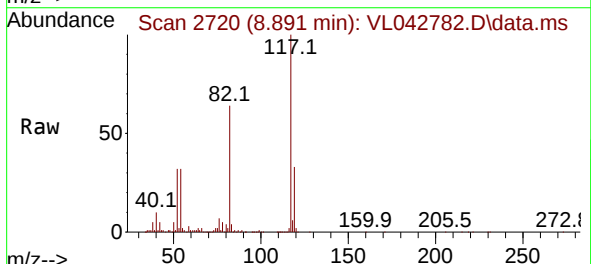
Instrument :
MSVOA_L
ClientSampleId :
IA2

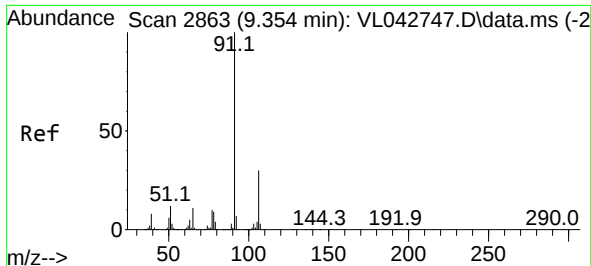
Tgt Ion: 91 Resp: 72108
Ion Ratio Lower Upper
91 100
92 58.6 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 117 Resp: 375602
Ion Ratio Lower Upper
117 100
82 65.3 53.3 79.9
119 32.9 25.8 38.6





#58

Ethyl Benzene

Concen: 0.209 ppbv

RT: 9.367 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

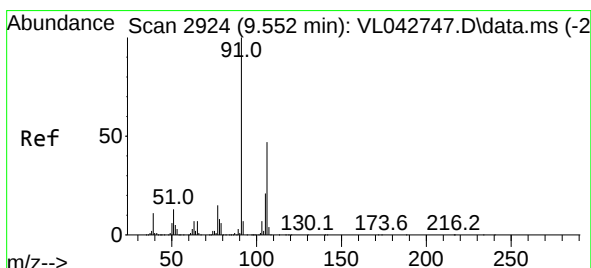
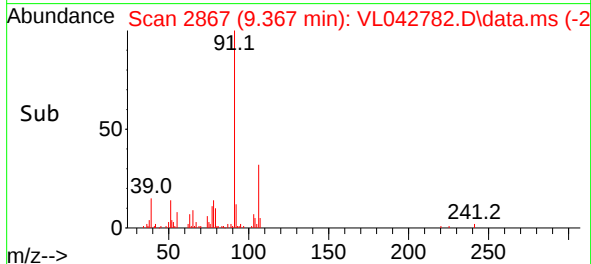
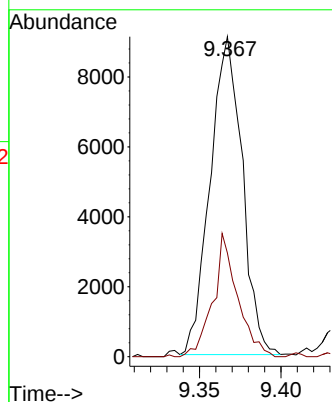
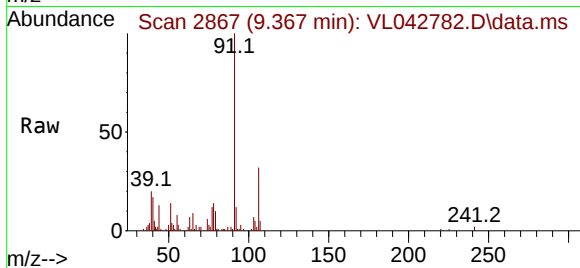
IA2

Tgt Ion: 91 Resp: 12419

Ion Ratio Lower Upper

91 100

106 32.6 23.8 35.6



#59

m/p-Xylene

Concen: 0.927 ppbv

RT: 9.545 min Scan# 2922

Delta R.T. -0.006 min

Lab File: VL042782.D

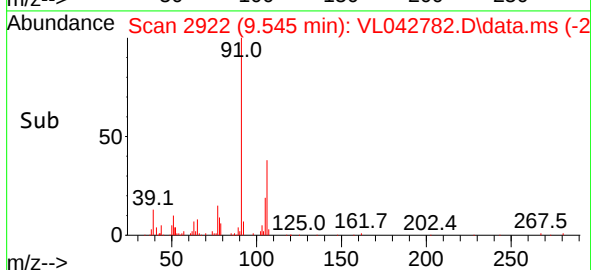
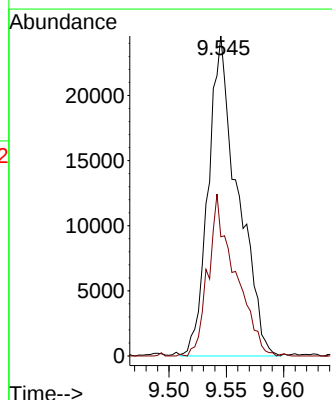
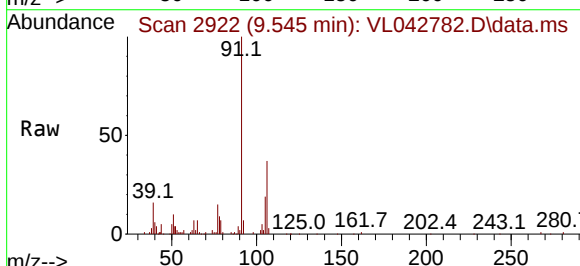
Acq: 29 Jul 2025 14:24

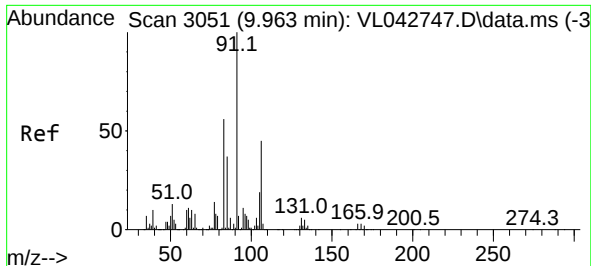
Tgt Ion: 91 Resp: 43961

Ion Ratio Lower Upper

91 100

106 46.2 37.4 56.2

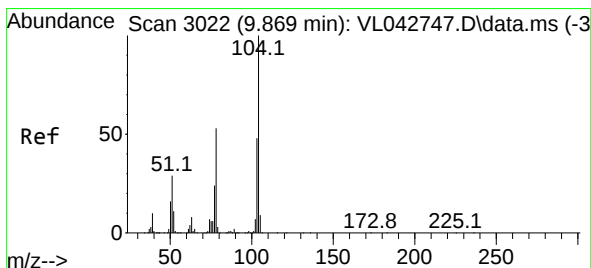
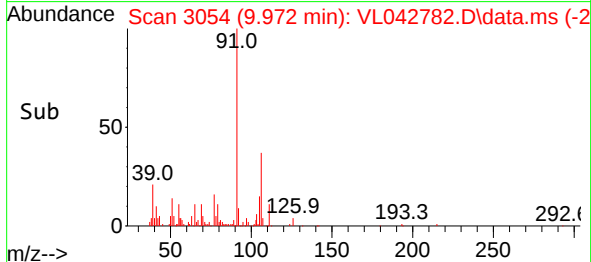
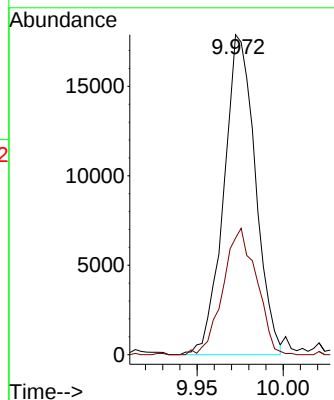
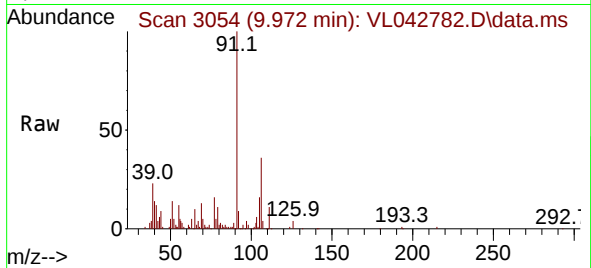




#60
o-Xylene
Concen: 0.482 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

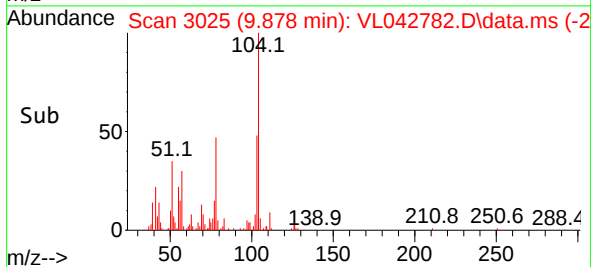
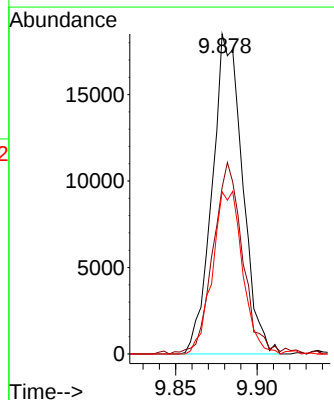
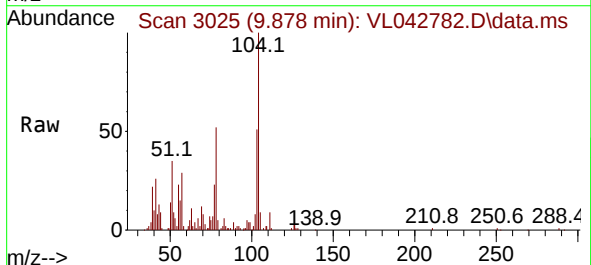
Instrument :
MSVOA_L
ClientSampleId :
IA2

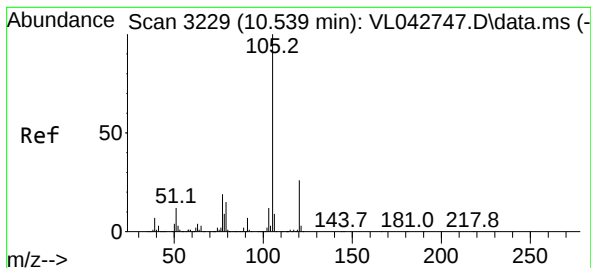
Tgt Ion: 91 Resp: 22835
Ion Ratio Lower Upper
91 100
106 41.9 22.0 66.0



#61
Styrene
Concen: 1.198 ppbv
RT: 9.878 min Scan# 3025
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 104 Resp: 23868
Ion Ratio Lower Upper
104 100
78 59.2 41.5 62.3
103 50.8 37.5 56.3





#62

Isopropylbenzene

Concen: 0.088 ppbv

RT: 10.545 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

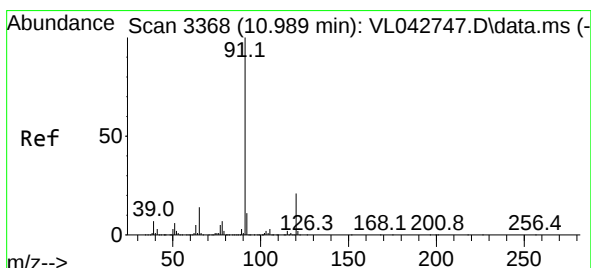
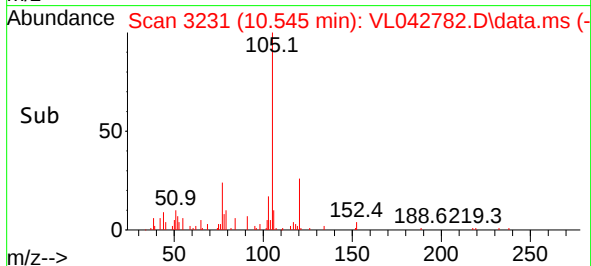
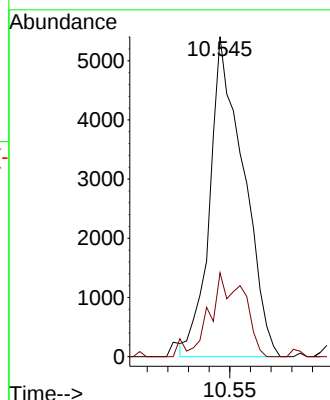
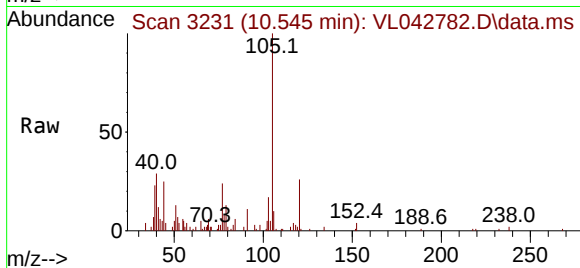
IA2

Tgt Ion:105 Resp: 6145

Ion Ratio Lower Upper

105 100

120 26.9 20.5 30.7



#64

n-propylbenzene

Concen: 0.280 ppbv

RT: 10.995 min Scan# 3370

Delta R.T. 0.006 min

Lab File: VL042782.D

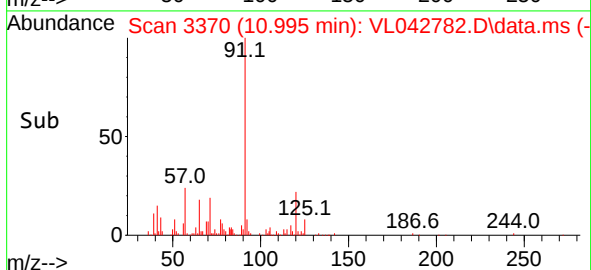
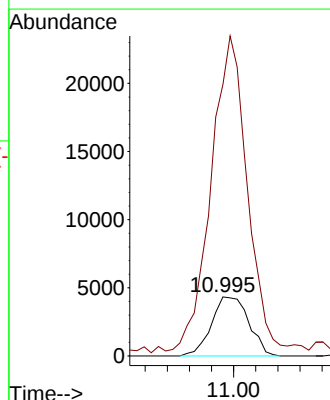
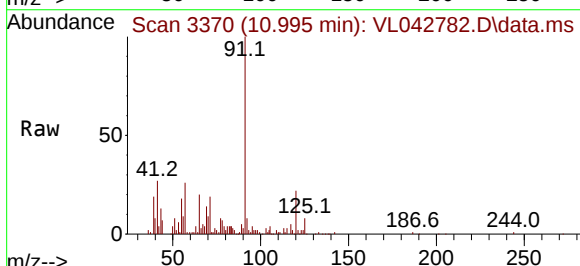
Acq: 29 Jul 2025 14:24

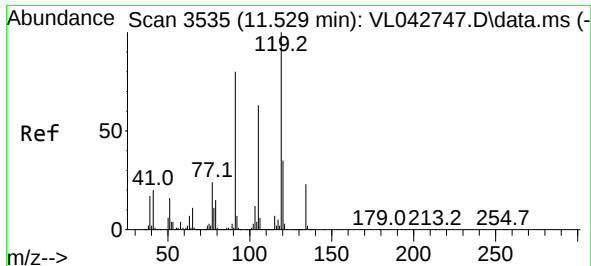
Tgt Ion:120 Resp: 5095

Ion Ratio Lower Upper

120 100

91 526.8 372.7 559.1

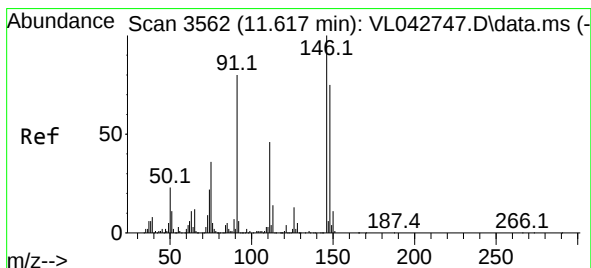
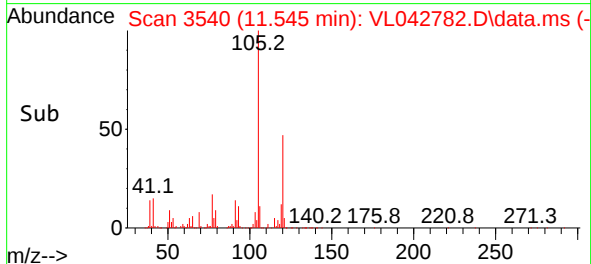
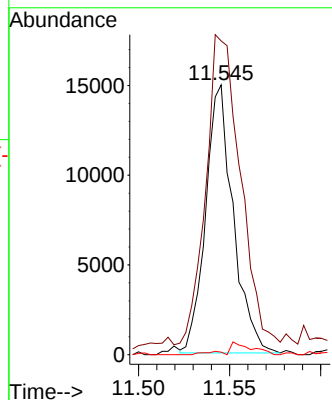
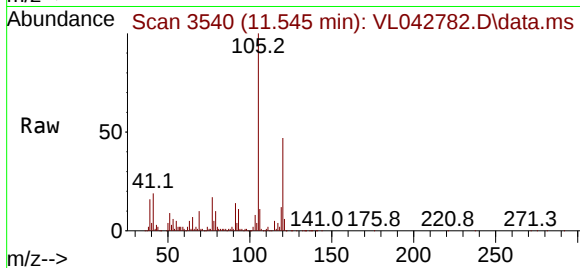




#65
tert-Butylbenzene
Concen: 0.253 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.016 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

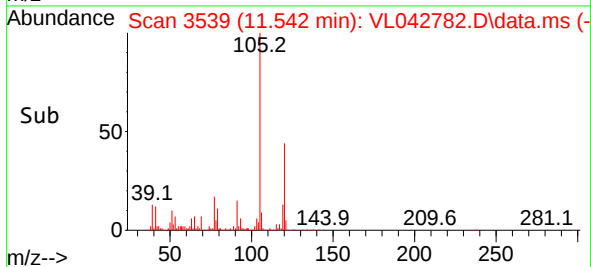
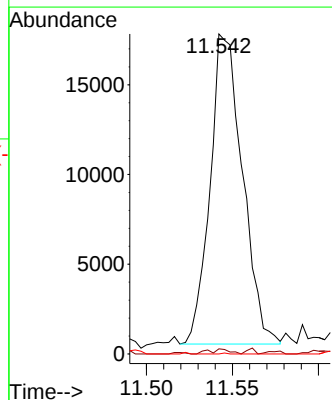
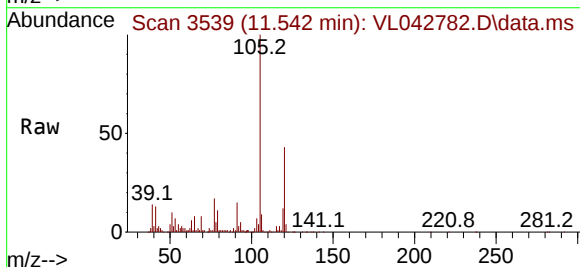
Instrument :
MSVOA_L
ClientSampleId :
IA2

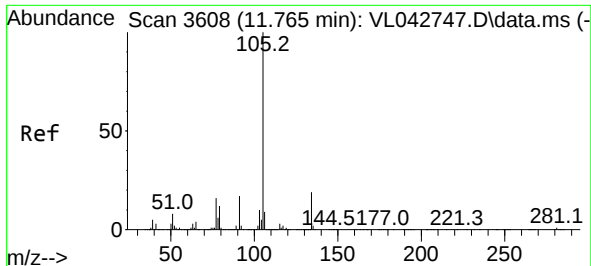
Tgt Ion:119 Resp: 15693
Ion Ratio Lower Upper
119 100
91 147.7 64.0 96.0#
134 4.5 17.3 25.9#



#66
Benzyl Chloride
Concen: 4.441 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.074 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 91 Resp: 22625
Ion Ratio Lower Upper
91 100
126 2.1 14.4 21.6#
128 0.0 5.2 7.8#

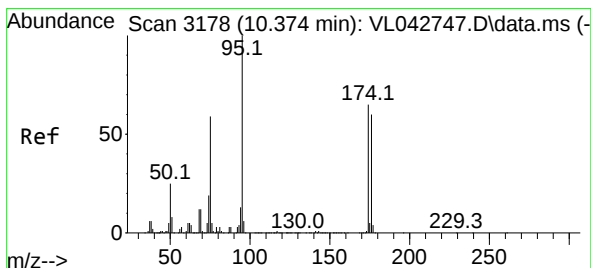
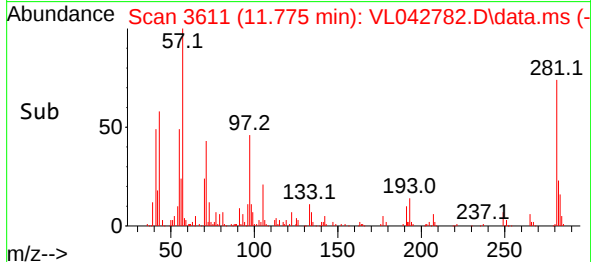
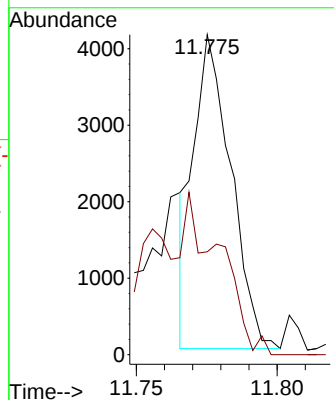
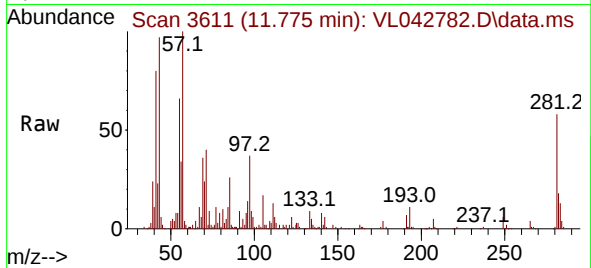




#67
 sec-Butylbenzene
 Concen: 0.043 ppbv
 RT: 11.775 min Scan# 3611
 Delta R.T. 0.010 min
 Lab File: VL042782.D
 Acq: 29 Jul 2025 14:24

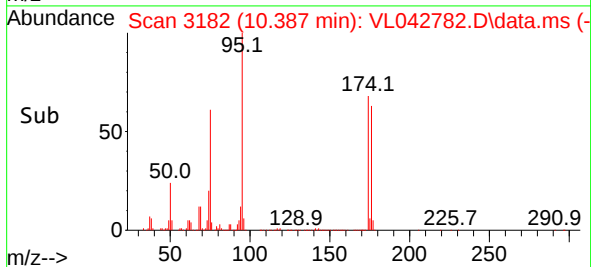
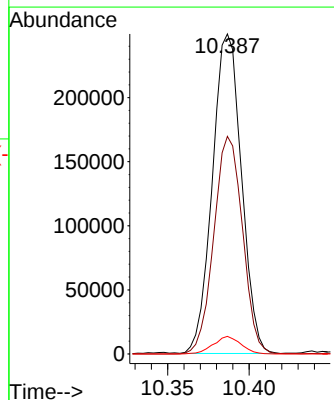
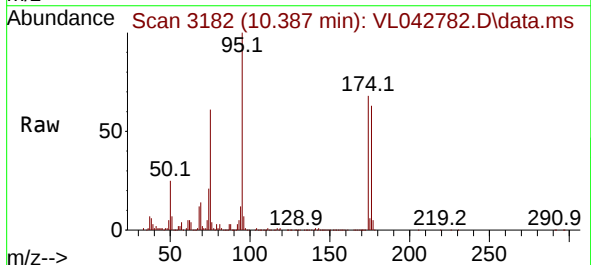
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

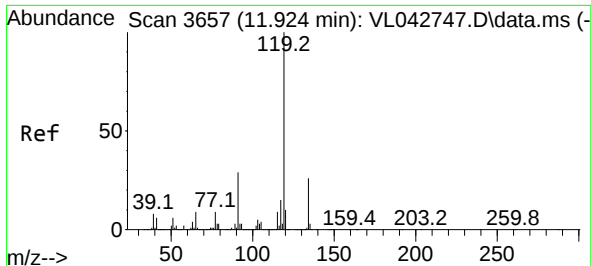
Tgt Ion:105 Resp: 3788
 Ion Ratio Lower Upper
 105 100
 134 111.2 15.5 23.3#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.394 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. 0.013 min
 Lab File: VL042782.D
 Acq: 29 Jul 2025 14:24

Tgt Ion: 95 Resp: 309167
 Ion Ratio Lower Upper
 95 100
 174 67.2 53.8 80.6
 175 5.2 4.0 6.0

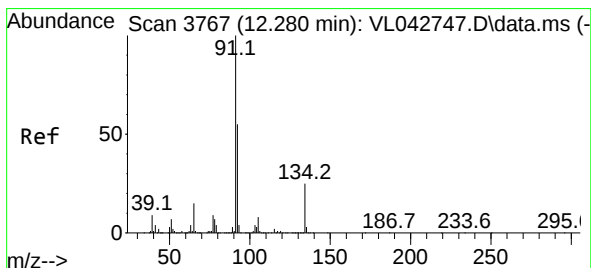
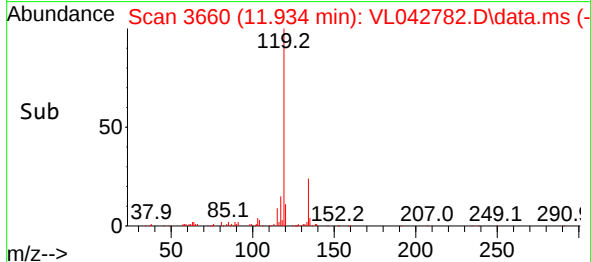
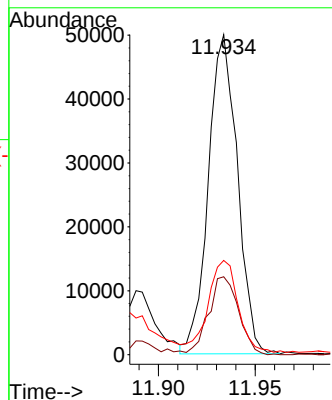
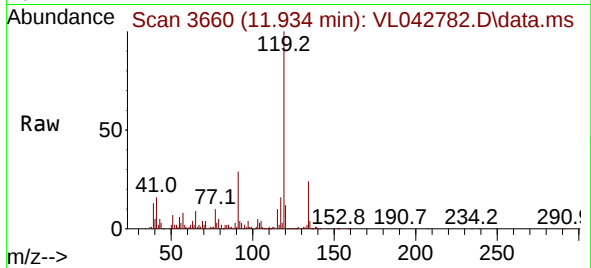




#69
p-Isopropyltoluene
Concen: 0.723 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

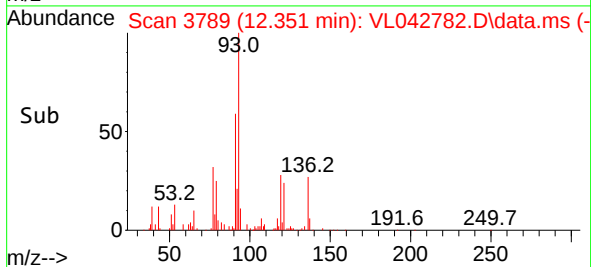
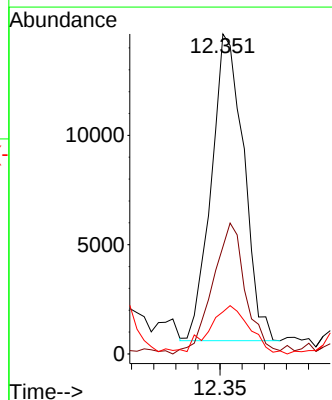
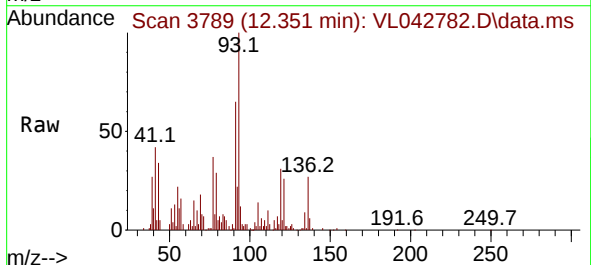
Instrument :
MSVOA_L
ClientSampleId :
IA2

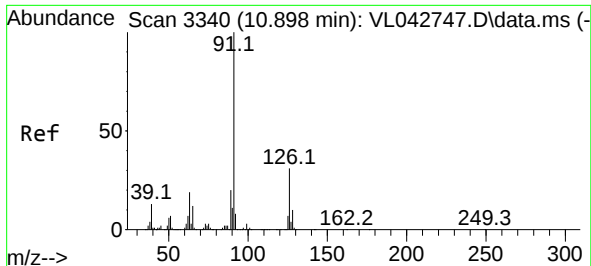
Tgt Ion:119 Resp: 52072
Ion Ratio Lower Upper
119 100
134 25.5 20.6 31.0
91 30.1 23.2 34.8



#70
n-Butylbenzene
Concen: 0.205 ppbv
RT: 12.351 min Scan# 3789
Delta R.T. 0.071 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 91 Resp: 14251
Ion Ratio Lower Upper
91 100
92 0.0 43.4 65.2#
134 20.4 19.6 29.4

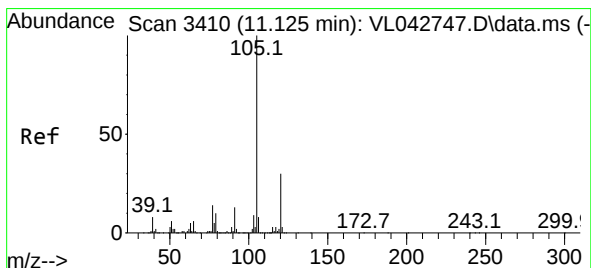
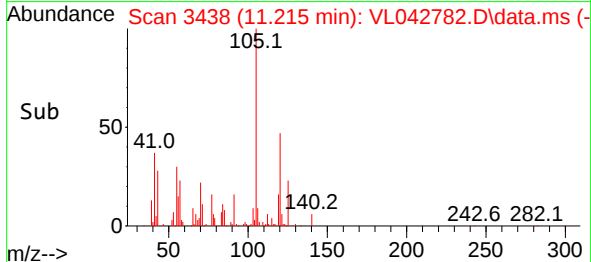
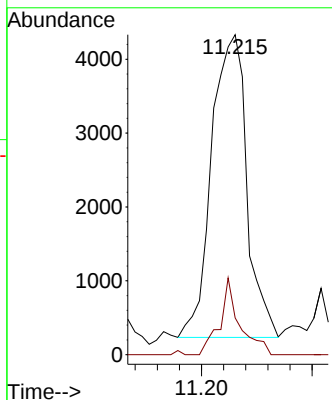
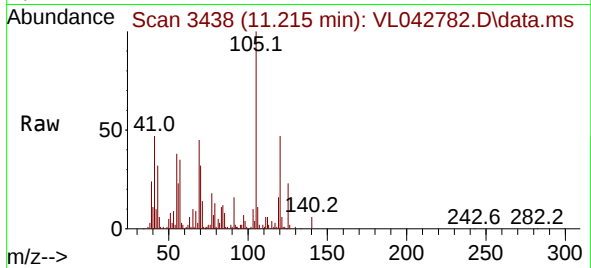




#71
2-Chlorotoluene
Concen: 0.084 ppbv
RT: 11.215 min Scan# 3413
Delta R.T. 0.317 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

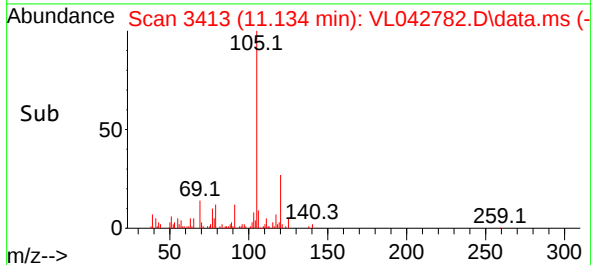
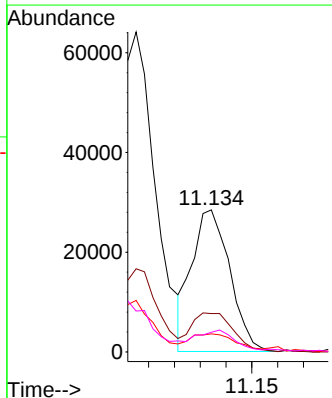
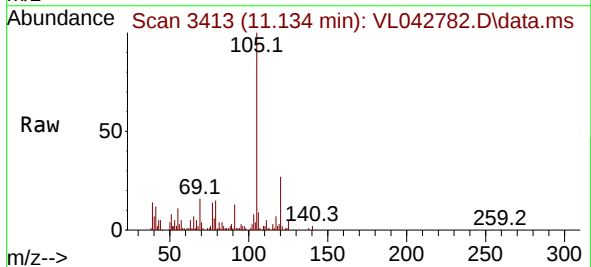
Instrument :
MSVOA_L
ClientSampleId :
IA2

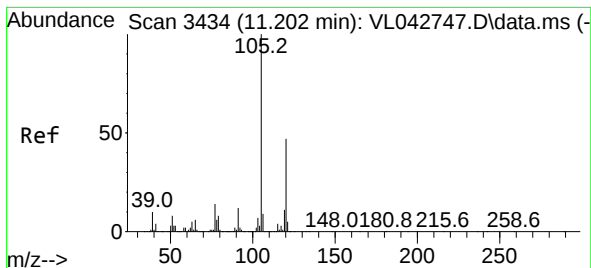
Tgt Ion: 91 Resp: 4515
Ion Ratio Lower Upper
91 100
126 14.6 12.0 48.2



#72
4-Ethyltoluene
Concen: 0.513 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 105 Resp: 29045
Ion Ratio Lower Upper
105 100
120 0.0 24.4 36.6#
91 0.0 10.6 15.8#
77 0.0 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.732 ppbv

RT: 11.212 min Scan# 34

Delta R.T. 0.010 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

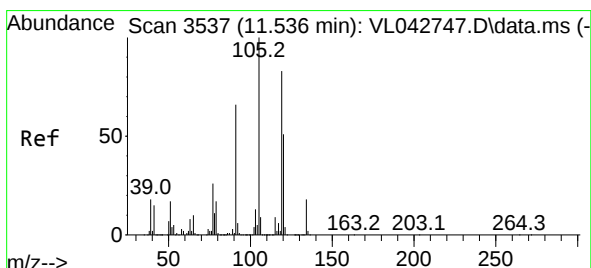
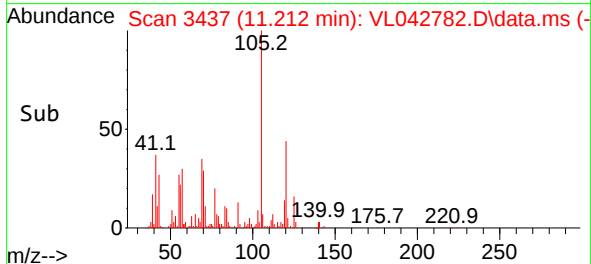
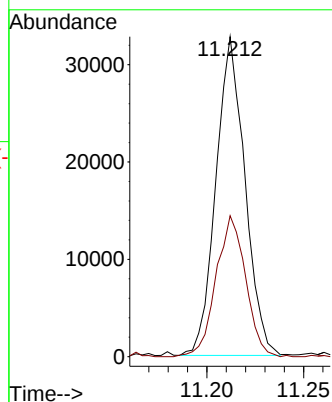
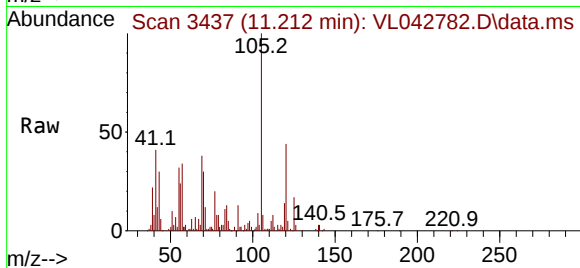
IA2

Tgt Ion:105 Resp: 34083

Ion Ratio Lower Upper

105 100

120 44.2 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 2.598 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.010 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Tgt Ion:105 Resp: 132016

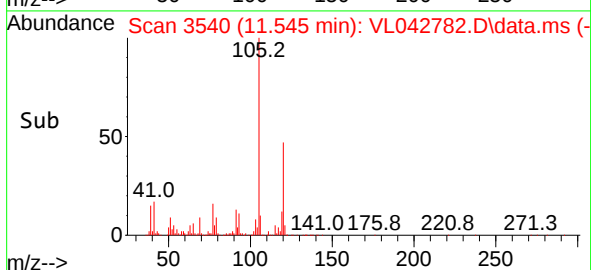
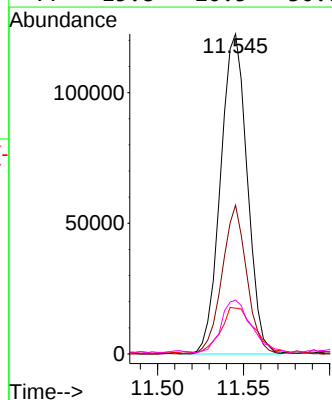
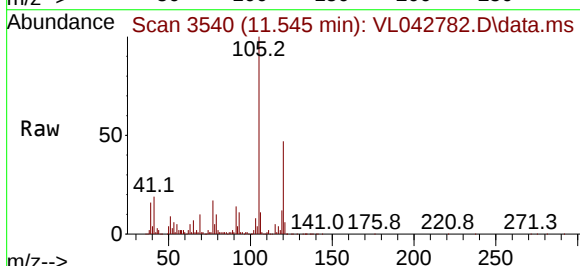
Ion Ratio Lower Upper

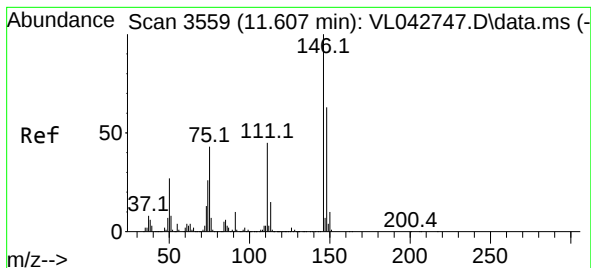
105 100

120 46.5 40.8 61.2

91 13.8 53.0 79.4#

77 15.8 20.5 30.7#





#75

1,3-Dichlorobenzene

Concen: 0.302 ppbv

RT: 11.681 min Scan# 3582

Delta R.T. 0.074 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

IA2

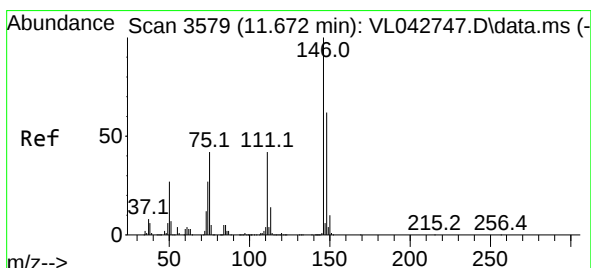
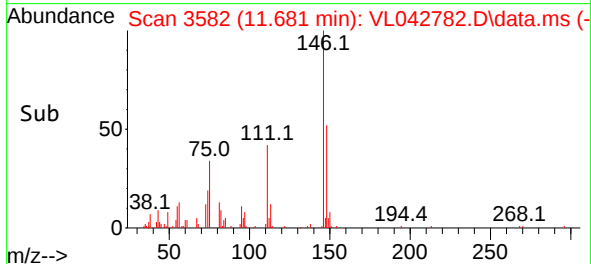
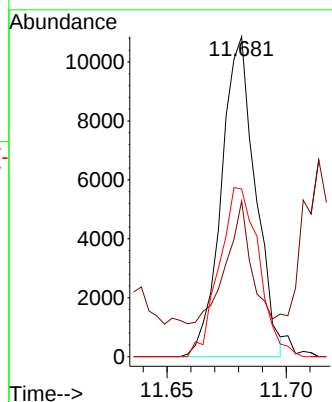
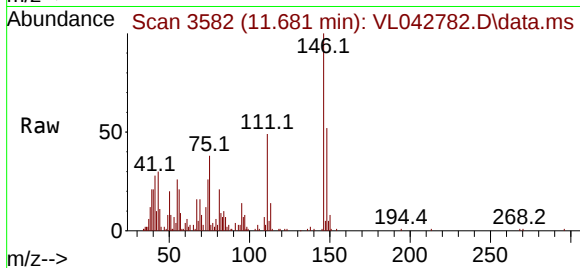
Tgt Ion:146 Resp: 10764

Ion Ratio Lower Upper

146 100

111 48.6 22.7 68.0

148 61.6 31.9 95.5



#76

1,4-Dichlorobenzene

Concen: 0.309 ppbv

RT: 11.681 min Scan# 3582

Delta R.T. 0.010 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

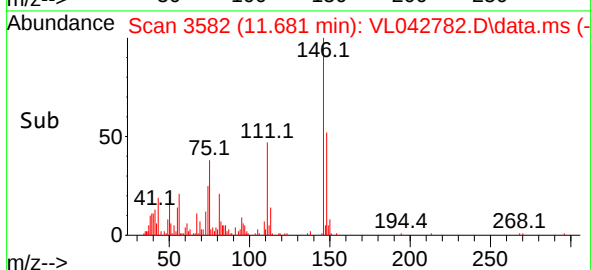
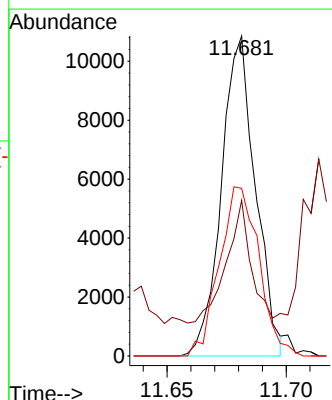
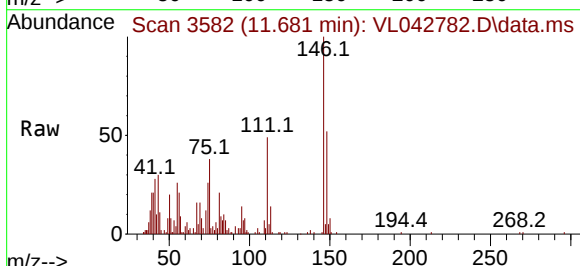
Tgt Ion:146 Resp: 10764

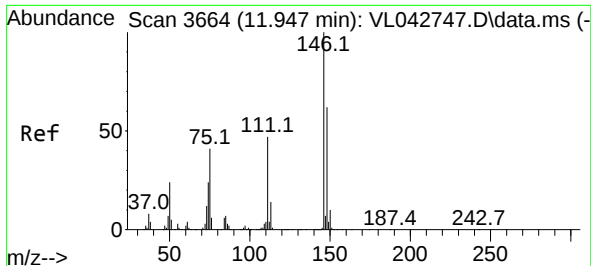
Ion Ratio Lower Upper

146 100

111 44.2 21.4 64.2

148 61.6 32.1 96.3

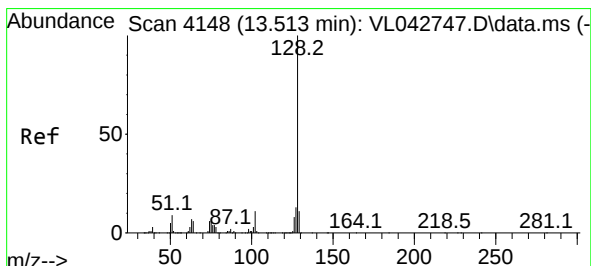
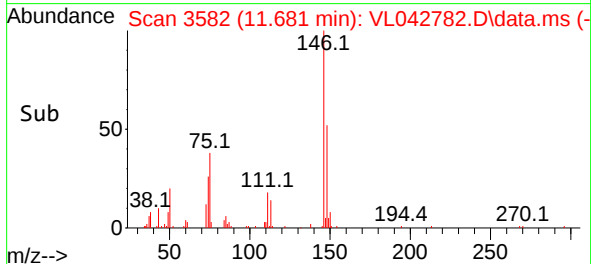
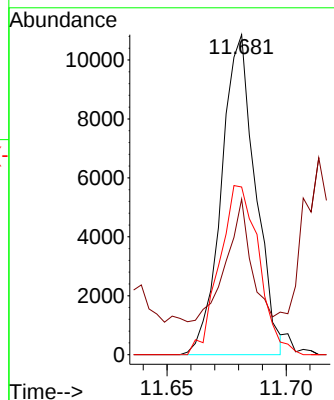
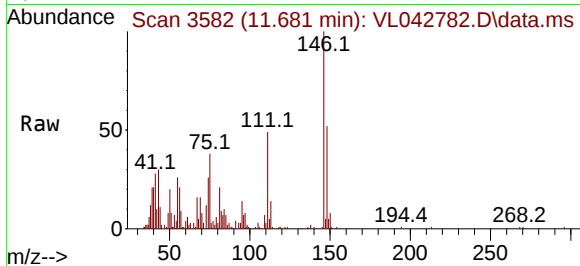




#77
1,2-Dichlorobenzene
Concen: 0.307 ppbv
RT: 11.681 min Scan# 311
Delta R.T. -0.265 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

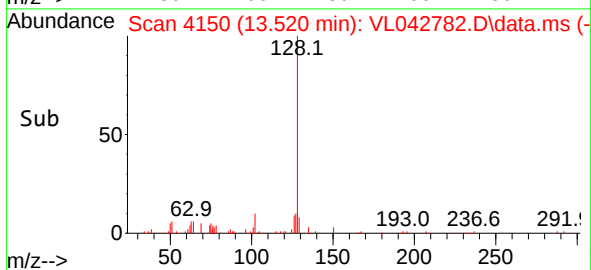
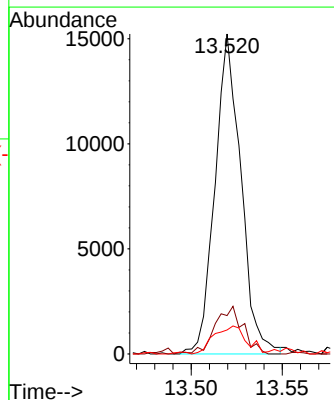
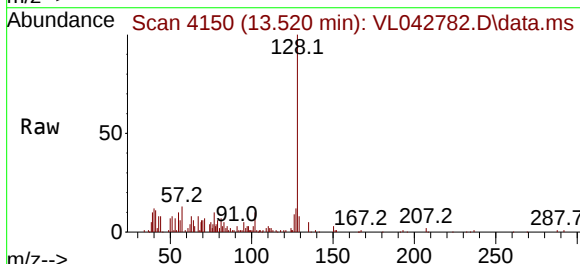
Instrument :
MSVOA_L
ClientSampleId :
IA2

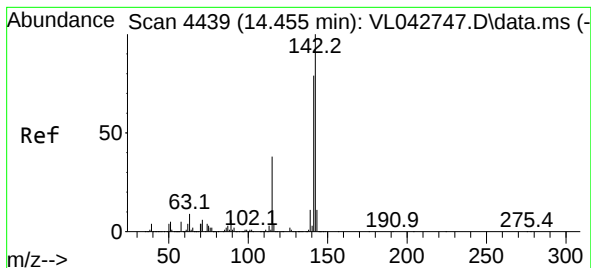
Tgt Ion:146 Resp: 10764
Ion Ratio Lower Upper
146 100
111 29.4 23.7 71.1
148 61.6 32.6 97.7



#79
Naphthalene
Concen: 0.697 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion:128 Resp: 15108
Ion Ratio Lower Upper
128 100
127 12.0 10.5 15.7
129 7.0 8.6 13.0#





#80

Naphthalene, 2-methyl-

Concen: 1.146 ppbv

RT: 14.487 min Scan# 4449

Delta R.T. 0.032 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

IA2

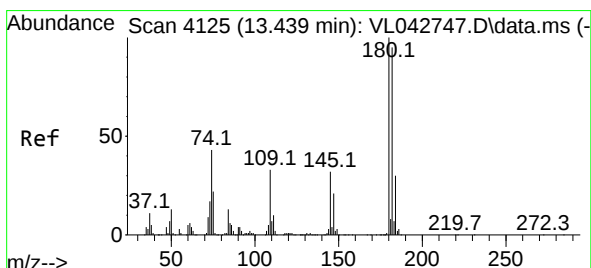
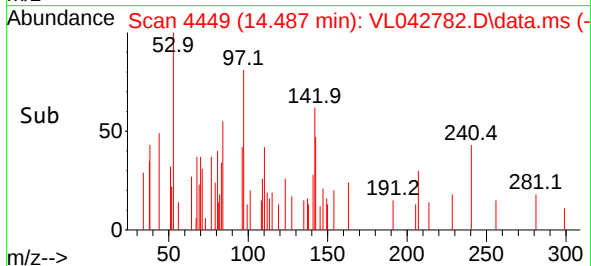
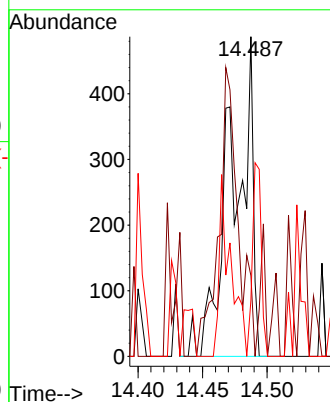
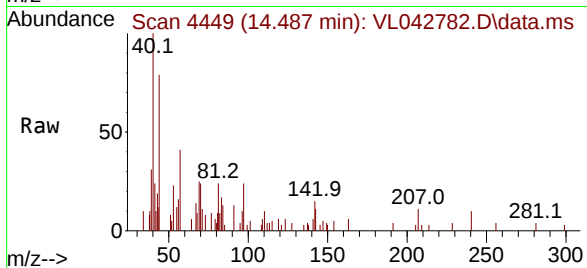
Tgt Ion:142 Resp: 548

Ion Ratio Lower Upper

142 100

141 92.3 65.8 98.8

115 64.6 31.2 46.8#



#81

1,2,4-Trichlorobenzene

Concen: 0.439 ppbv

RT: 13.448 min Scan# 4128

Delta R.T. 0.010 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Tgt Ion:180 Resp: 134

Ion Ratio Lower Upper

180 100

182 0.0 76.2 114.2#

184 0.0 24.8 37.2#

