

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042783.D
 Acq On : 29 Jul 2025 14:59
 Operator : SY/MD
 Sample : Q2712-04DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DUP

Quant Time: Jul 30 01:12:57 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	149234	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	414556	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	375438	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	313505	10.544	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	18307	0.928	ppbv	95
3) Chlorodifluoromethane	1.466	51	670724	26.095	ppbv #	63
4) Chloromethane	1.534	50	7001	0.877	ppbv #	86
6) Bromomethane	1.470	94	2375	0.779	ppbv #	73
7) Chloroethane	1.460	64	216794	71.144	ppbv #	45
8) Dichlorotetrafluoroethane	1.499	85	18307	1.128	ppbv #	21
9) Propene	1.560	41	835896	89.480	ppbv	95
10) Heptane	4.994	43	9470	0.376	ppbv #	70
11) Trichlorofluoromethane	1.881	101	23955	1.178	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	1166	0.075	ppbv	94
13) Ethanol	1.729	45	1614593	2372.579	ppbv	99
15) Acetone	1.839	43	375117	18.203	ppbv	99
16) 1,3-Butadiene	1.625	39	52852	6.013	ppbv #	20
17) tert-Butyl alcohol	2.059	59	15826	0.852	ppbv #	72
19) Isopropyl Alcohol	1.890	45	108788	9.934	ppbv #	17
20) Methylene Chloride	2.068	84	5728	0.882	ppbv	88
21) Allyl Chloride	1.968	41	384990	30.313	ppbv #	50
23) Vinyl Acetate	2.460	43	86222	3.451	ppbv #	91
25) Ethyl Acetate	2.842	43	753351	16.516	ppbv #	91
26) Hexane	2.832	57	18015	0.900	ppbv #	1
27) Carbon Disulfide	2.153	76	1748	0.102	ppbv #	1
28) Methyl tert-Butyl Ether	2.564	73	534	0.056	ppbv #	1
29) Chloroform	2.855	83	22312	0.722	ppbv	94
31) cis-1,2-Dichloroethene	2.842	61	87934	4.277	ppbv #	23
34) 2-Butanone	2.564	43	66086	2.250	ppbv	99
35) Carbon Tetrachloride	3.774	117	4493	0.146	ppbv #	84
36) Benzene	3.664	78	10676	0.272	ppbv #	90
39) 1,2-Dichloropropane	3.968	63	107957	7.444	ppbv #	22
41) Tetrahydrofuran	3.065	42	16406	1.098	ppbv #	51
43) Methyl Methacrylate	4.884	69	330	0.024	ppbv #	1
44) 2,2,4-Trimethylpentane	4.651	57	6826	0.107	ppbv #	22
50) 4-Methyl-2-Pentanone	5.774	43	6844	0.181	ppbv #	40
51) 2-Hexanone	7.454	43	14728	0.515	ppbv #	63
53) Toluene	6.946	91	74098	1.756	ppbv	99
58) Ethyl Benzene	9.367	91	12354	0.208	ppbv	96
59) m/p-Xylene	9.542	91	43951	0.928	ppbv	100
60) o-Xylene	9.975	91	22134	0.467	ppbv	93
61) Styrene	9.882	104	25657	1.288	ppbv	98
62) Isopropylbenzene	10.548	105	7077	0.101	ppbv	96
64) n-propylbenzene	10.998	120	5760	0.316	ppbv	92
65) tert-Butylbenzene	11.542	119	16804	0.271	ppbv #	39
66) Benzyl Chloride	11.548	91	23949	4.703	ppbv #	67
67) sec-Butylbenzene	11.859	105	16656	0.189	ppbv	98

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

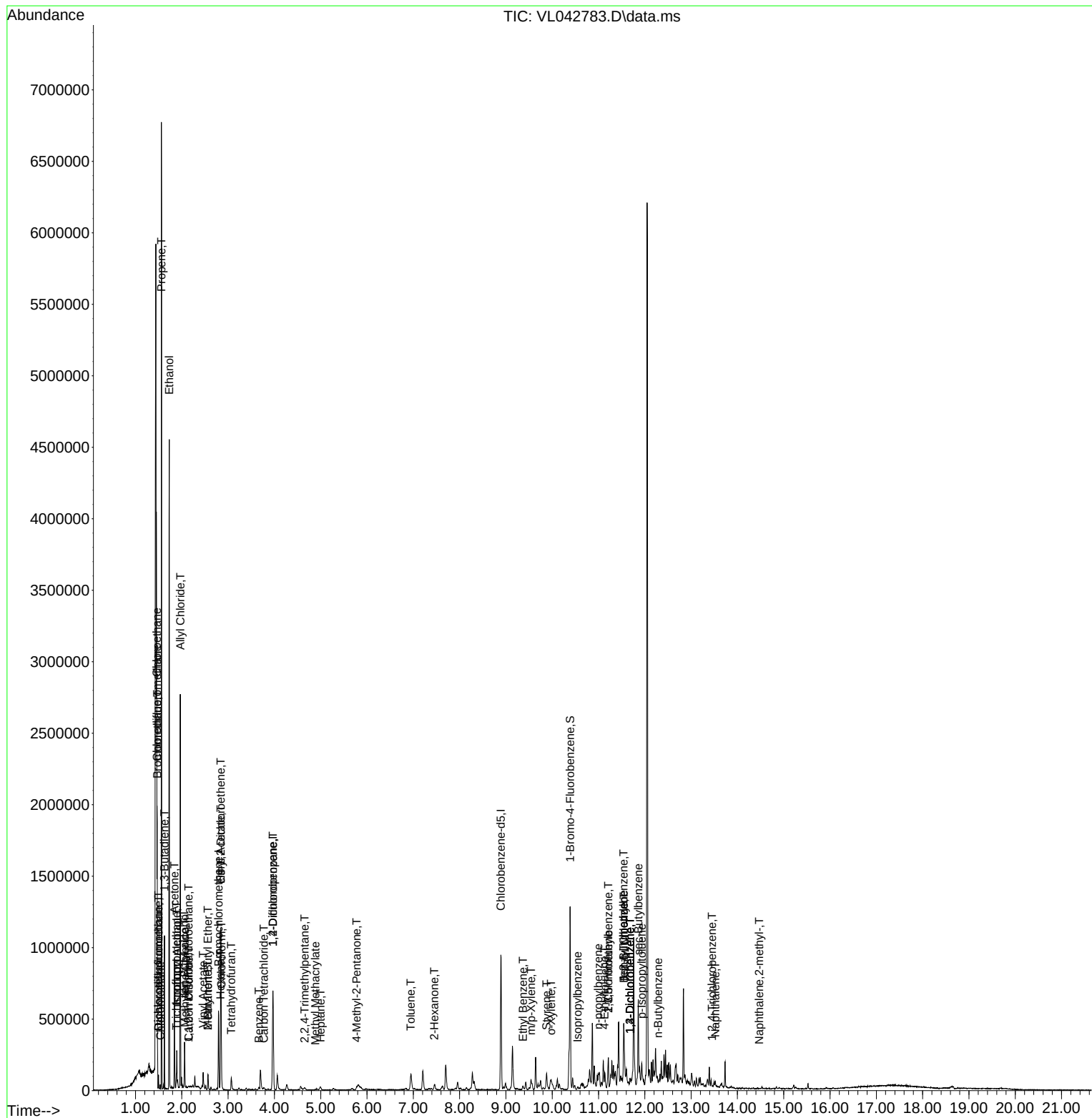
69) p-Isopropyltoluene	11.934	119	52731	0.733	ppbv	99
70) n-Butylbenzene	12.286	91	2644	0.038	ppbv #	1
71) 2-Chlorotoluene	11.212	91	4971	0.093	ppbv	74
72) 4-Ethyltoluene	11.131	105	28626	0.506	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.212	105	33945	0.729	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	129719	2.554	ppbv #	61
75) 1,3-Dichlorobenzene	11.681	146	11370	0.319	ppbv	96
76) 1,4-Dichlorobenzene	11.681	146	11370	0.326	ppbv	94
77) 1,2-Dichlorobenzene	11.681	146	11370	0.325	ppbv	89
79) Naphthalene	13.523	128	14648	0.689	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	372	1.140	ppbv #	56
81) 1,2,4-Trichlorobenzene	13.452	180	189	0.441	ppbv #	77

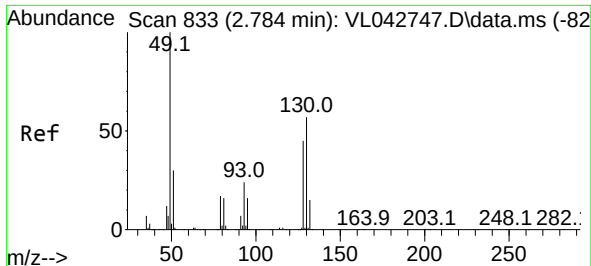
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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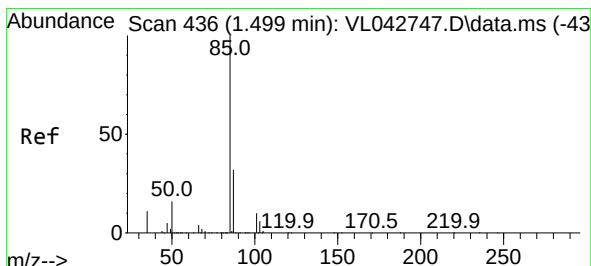
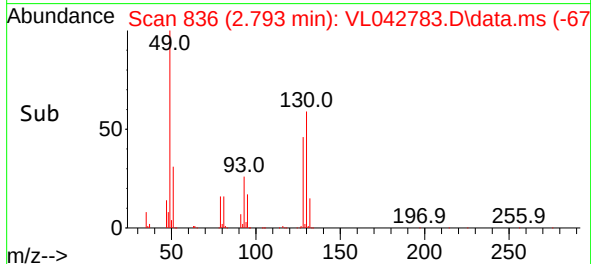
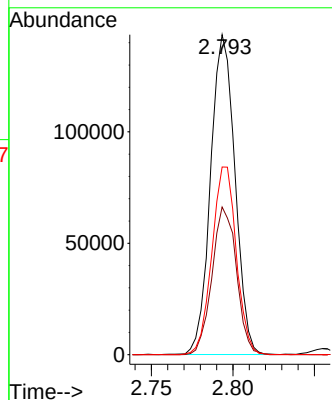
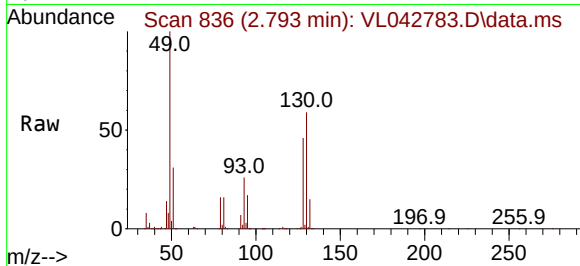




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.793 min Scan# 81
 Delta R.T. 0.009 min
 Lab File: VL042783.D
 Acq: 29 Jul 2025 14:59

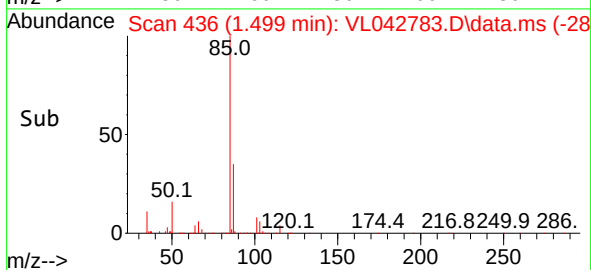
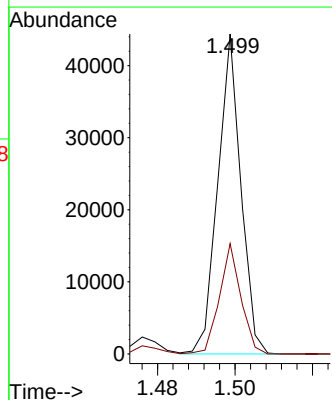
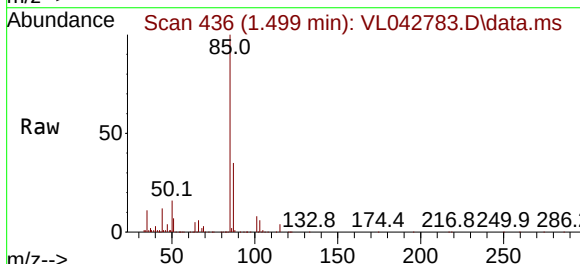
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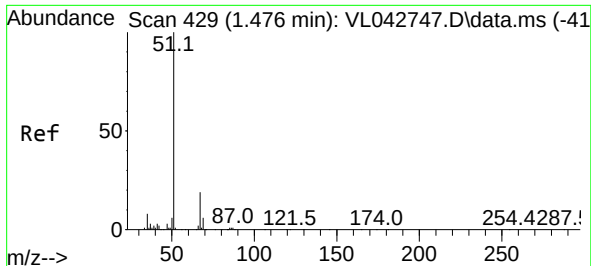
Tgt Ion: 49 Resp: 149234
 Ion Ratio Lower Upper
 49 100
 128 46.2 23.6 71.0
 130 58.8 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.928 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042783.D
 Acq: 29 Jul 2025 14:59

Tgt Ion: 85 Resp: 18307
 Ion Ratio Lower Upper
 85 100
 87 34.5 25.4 38.2

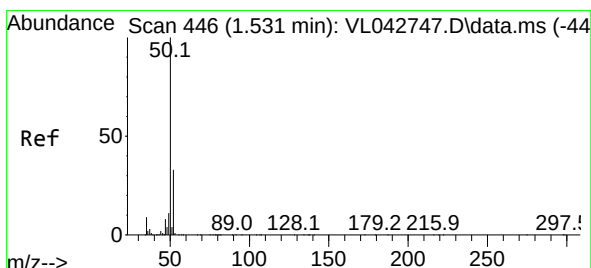
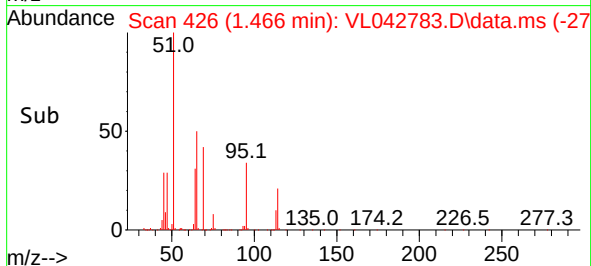
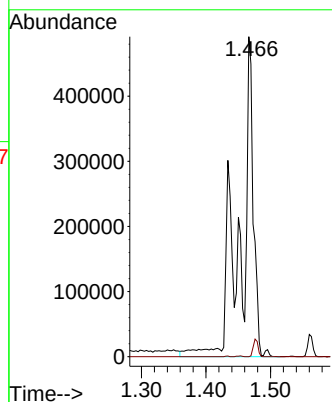
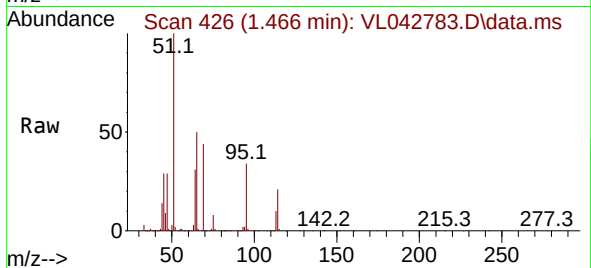




#3
Chlorodifluoromethane
Concen: 26.095 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

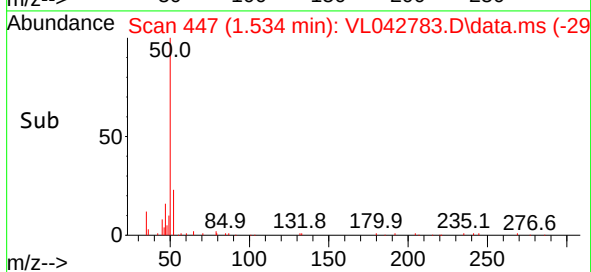
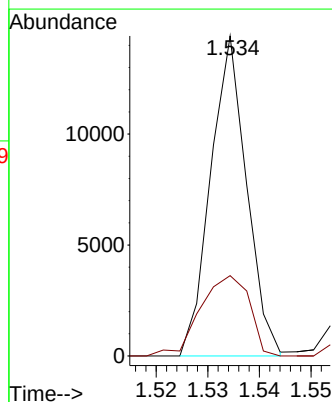
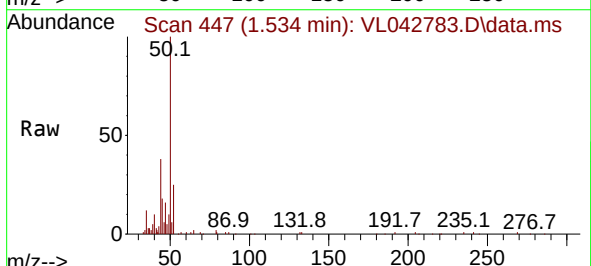
Instrument :
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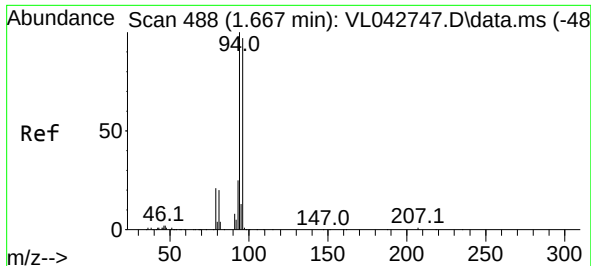
Tgt Ion: 51 Resp: 670724
Ion Ratio Lower Upper
51 100
67 2.3 15.0 22.6#



#4
Chloromethane
Concen: 0.877 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 50 Resp: 7001
Ion Ratio Lower Upper
50 100
52 25.1 26.6 40.0#

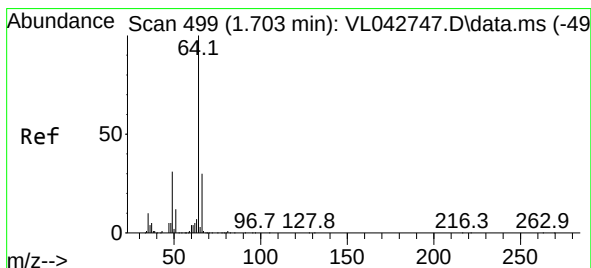
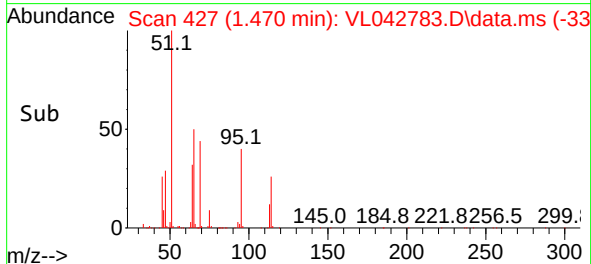
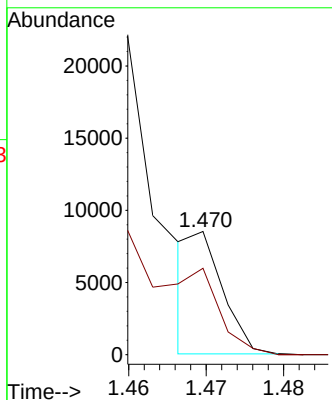
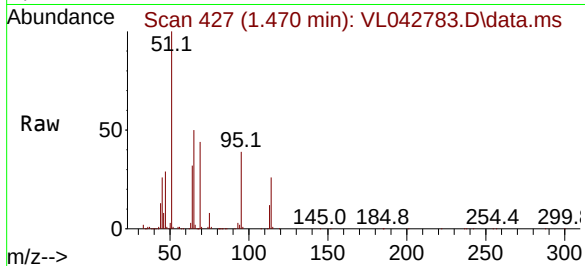




#6
Bromomethane
Concen: 0.779 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.198 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

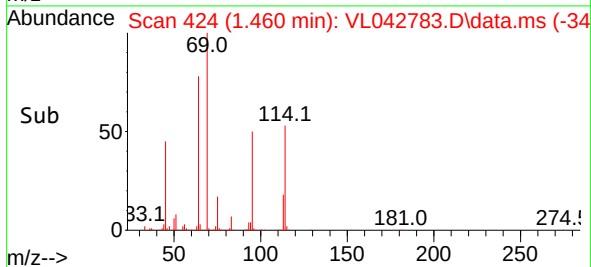
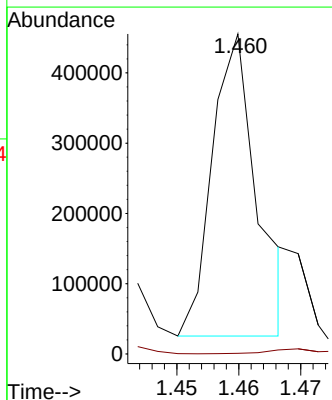
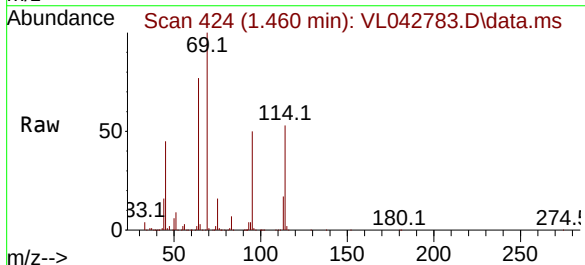
Instrument :
MSVOA_L
ClientSampleId :
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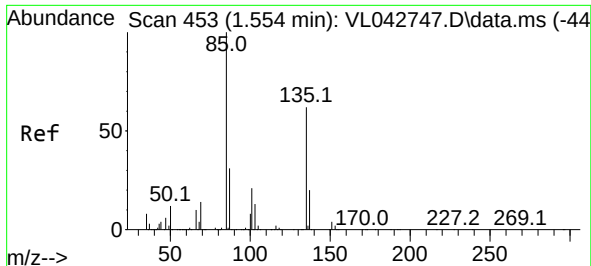
Tgt Ion: 94 Resp: 2375
Ion Ratio Lower Upper
94 100
96 70.6 77.6 116.4#



#7
Chloroethane
Concen: 71.144 ppbv
RT: 1.460 min Scan# 424
Delta R.T. -0.243 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 64 Resp: 216794
Ion Ratio Lower Upper
64 100
66 0.2 24.1 36.1#

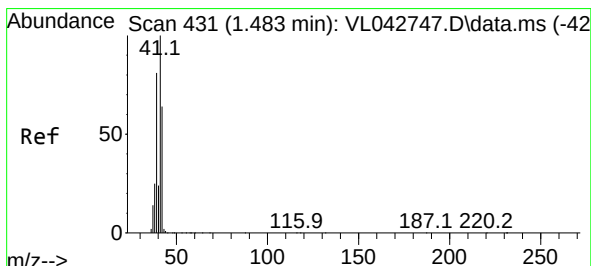
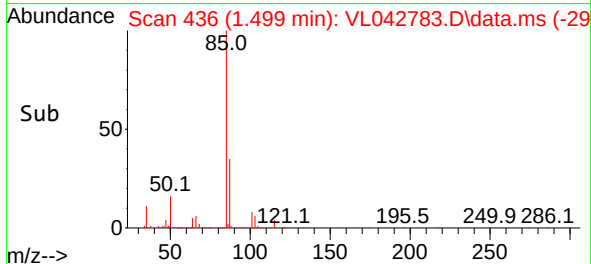
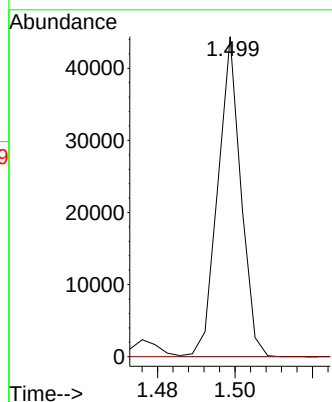
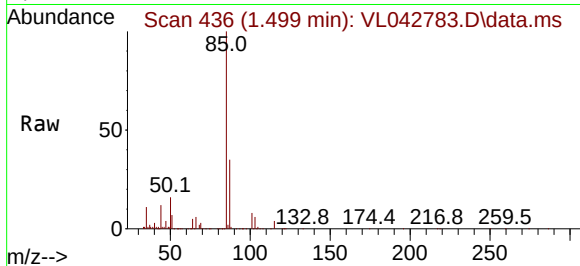




#8
 Dichlorotetrafluoroethane
 Concen: 1.128 ppbv
 RT: 1.499 min Scan# 41
 Delta R.T. -0.055 min
 Lab File: VL042783.D
 Acq: 29 Jul 2025 14:59

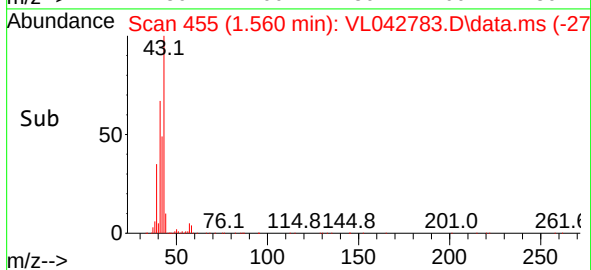
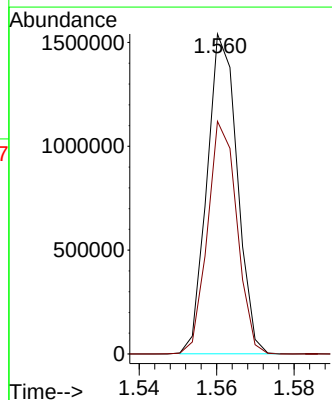
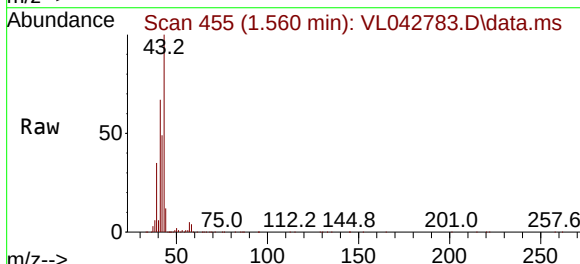
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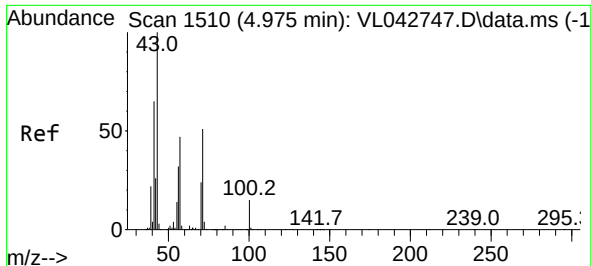
Tgt Ion: 85 Resp: 18307
 Ion Ratio Lower Upper
 85 100
 135 1.5 50.6 76.0#



#9
 Propene
 Concen: 89.480 ppbv
 RT: 1.560 min Scan# 455
 Delta R.T. 0.078 min
 Lab File: VL042783.D
 Acq: 29 Jul 2025 14:59

Tgt Ion: 41 Resp: 835896
 Ion Ratio Lower Upper
 41 100
 42 70.9 53.2 79.8

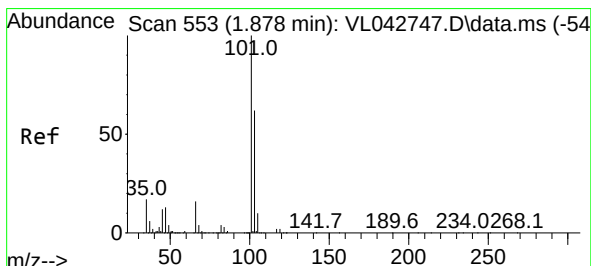
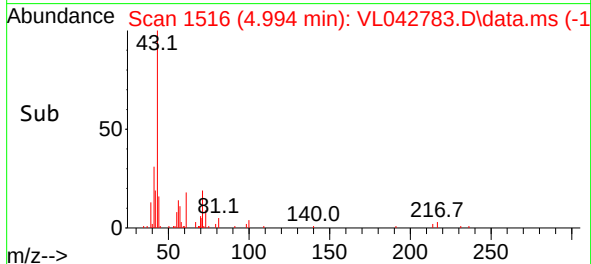
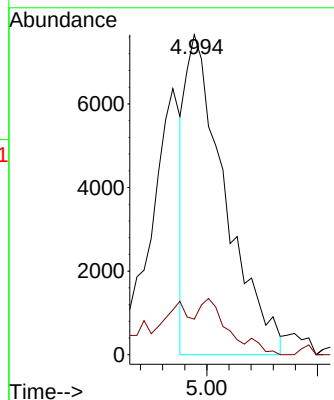
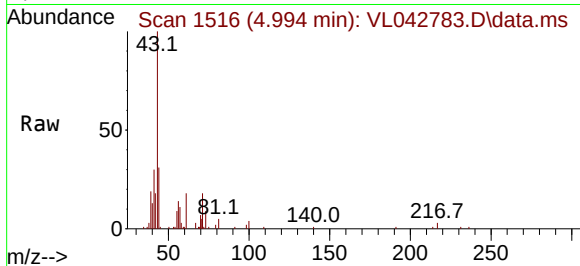




#10
Heptane
Concen: 0.376 ppbv
RT: 4.994 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

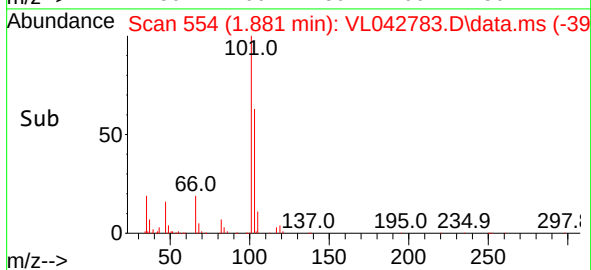
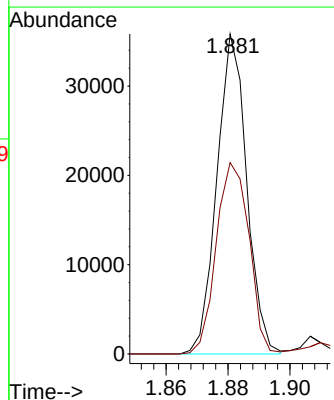
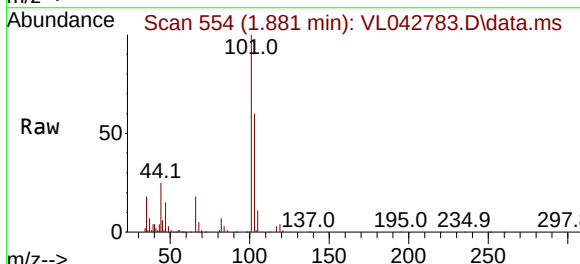
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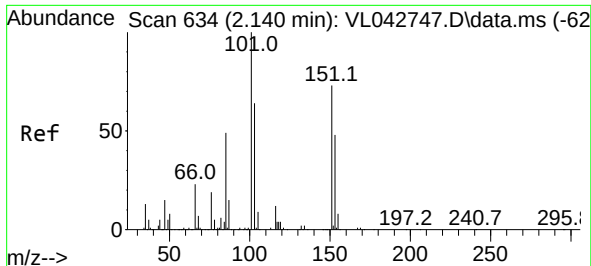
Tgt Ion: 43 Resp: 9470
Ion Ratio Lower Upper
43 100
57 29.1 39.9 59.9#



#11
Trichlorofluoromethane
Concen: 1.178 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 101 Resp: 23955
Ion Ratio Lower Upper
101 100
103 59.8 49.6 74.4

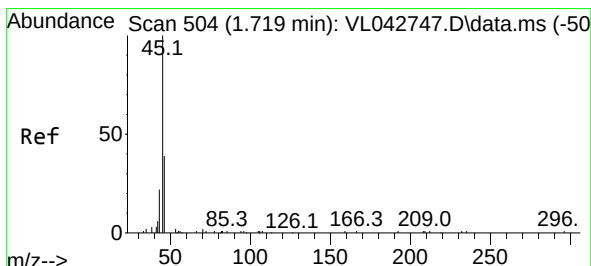
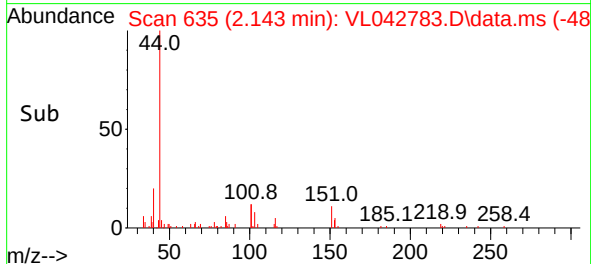
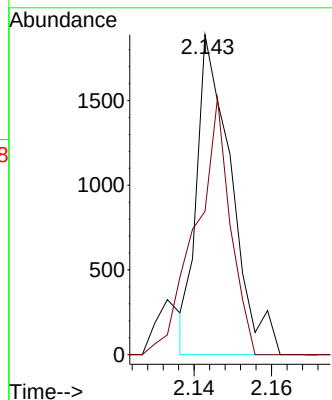
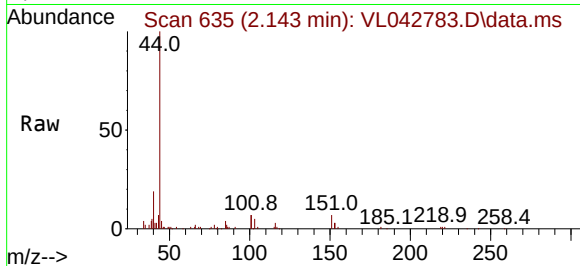




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.075 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

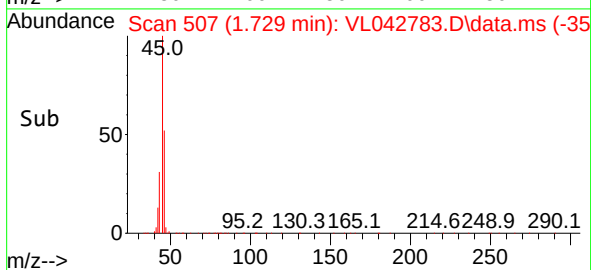
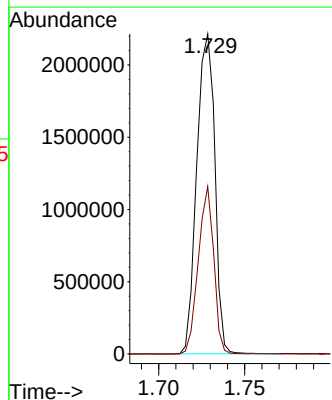
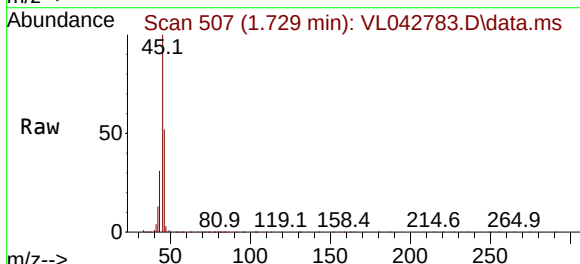
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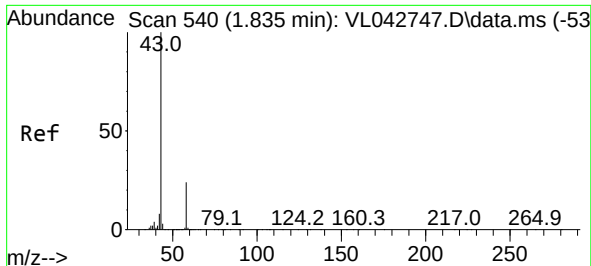
Tgt Ion:101 Resp: 1166
Ion Ratio Lower Upper
101 100
151 80.4 60.5 90.7



#13
Ethanol
Concen: 2372.579 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 45 Resp: 1614593
Ion Ratio Lower Upper
45 100
46 45.2 17.8 71.4

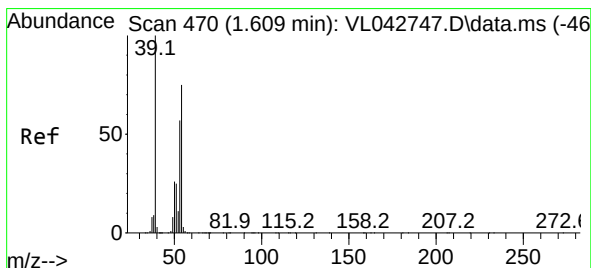
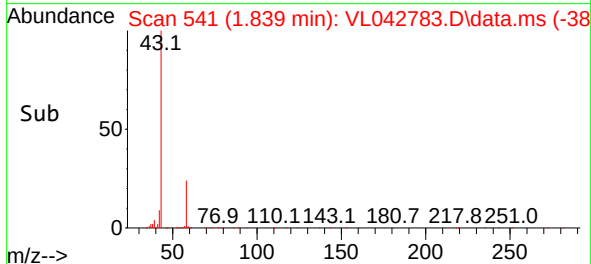
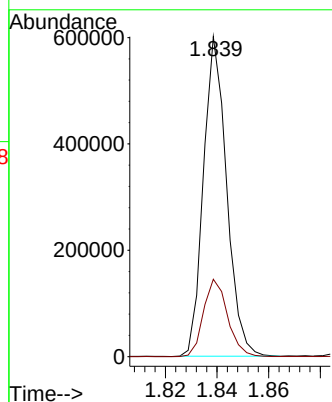
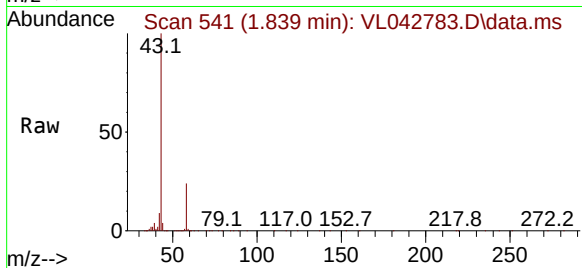




#15
Acetone
Concen: 18.203 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

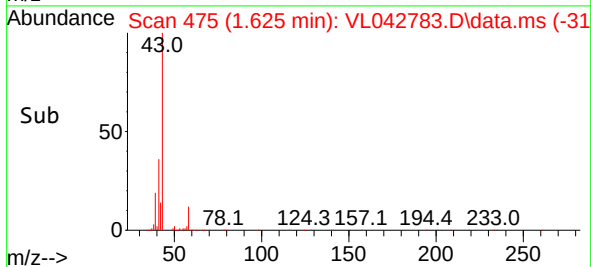
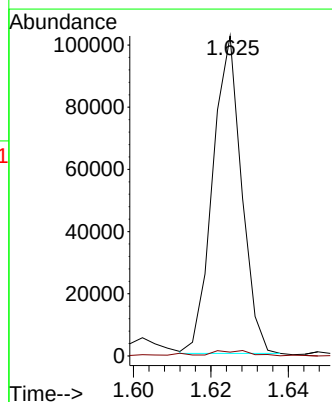
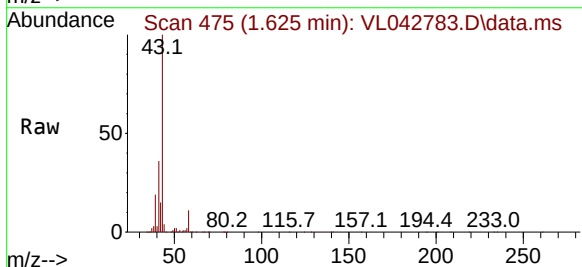
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

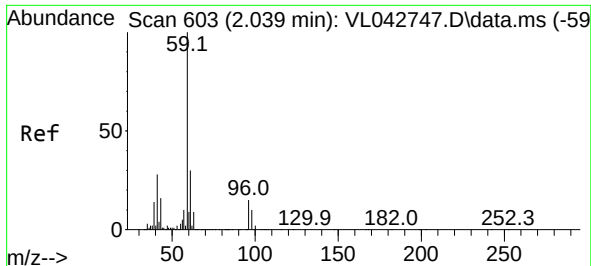
Tgt Ion: 43 Resp: 375117
Ion Ratio Lower Upper
43 100
58 25.2 19.8 29.8



#16
1,3-Butadiene
Concen: 6.013 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.016 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 39 Resp: 52852
Ion Ratio Lower Upper
39 100
54 3.2 54.5 81.7#





#17

tert-Butyl alcohol

Concen: 0.852 ppbv

RT: 2.059 min Scan# 603

Delta R.T. 0.019 min

Lab File: VL042783.D

Acq: 29 Jul 2025 14:59

Instrument :

MSVOA_L

ClientSampleId :

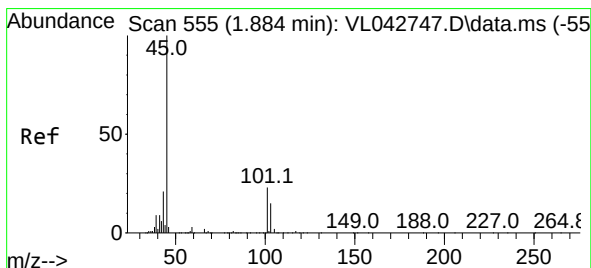
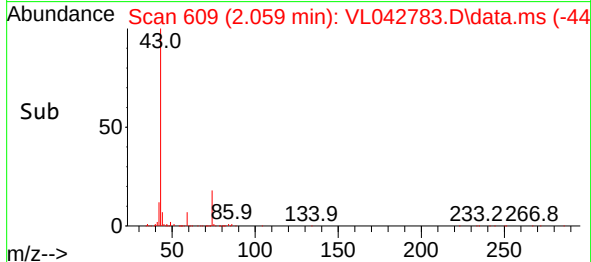
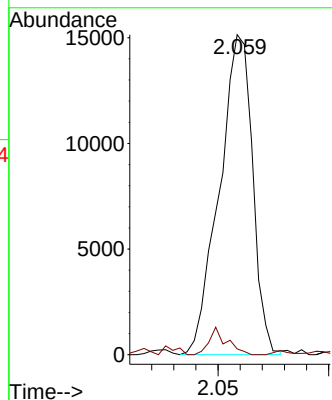
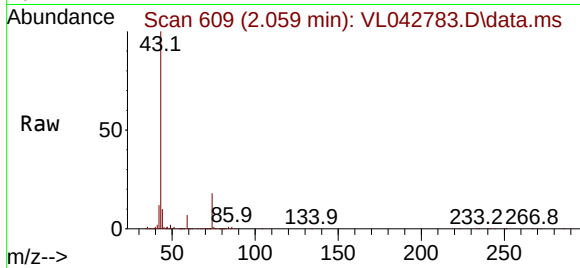
IA2DUP

Tgt Ion: 59 Resp: 15826

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 9.934 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042783.D

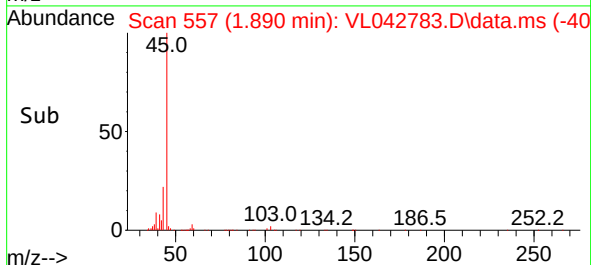
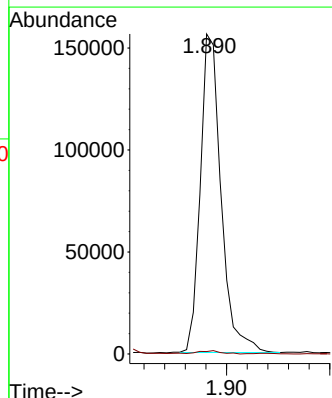
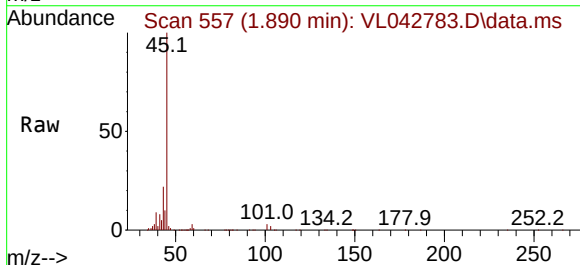
Acq: 29 Jul 2025 14:59

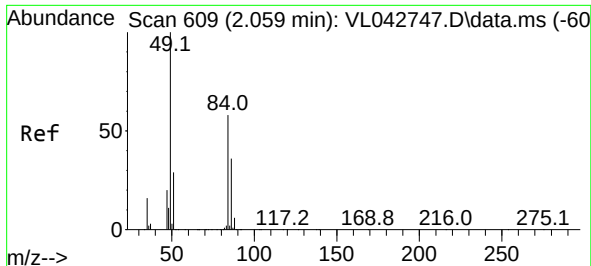
Tgt Ion: 45 Resp: 108788

Ion Ratio Lower Upper

45 100

58 87.1 30.0 45.0#

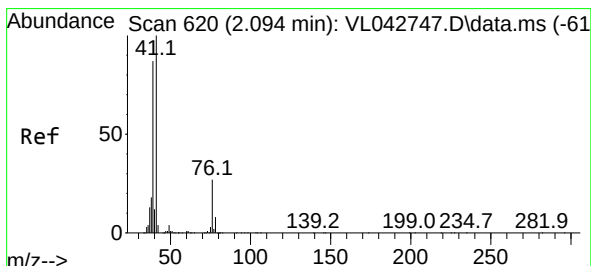
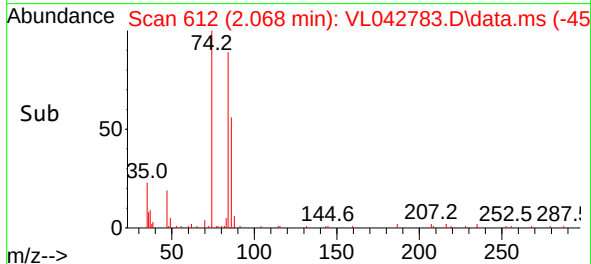
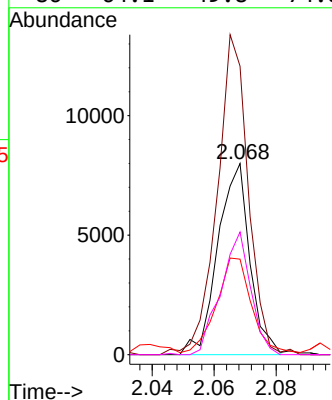
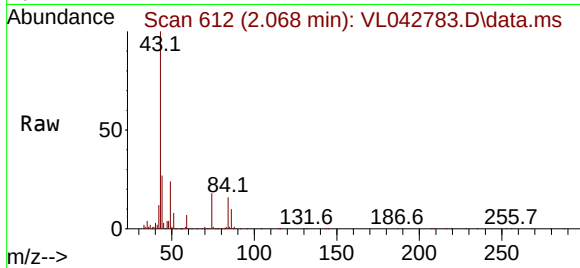




#20
Methylene Chloride
Concen: 0.882 ppbv
RT: 2.068 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

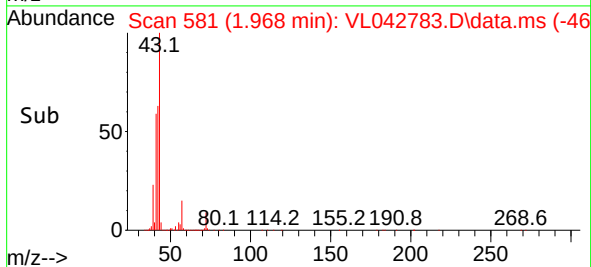
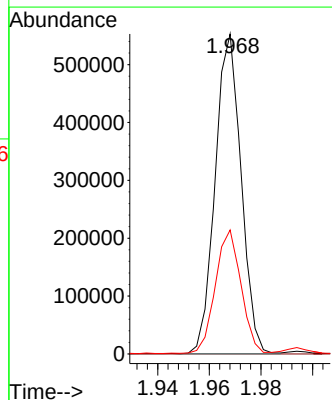
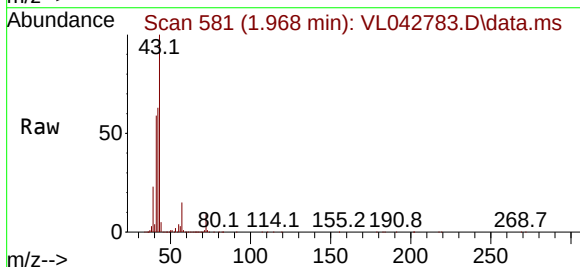
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

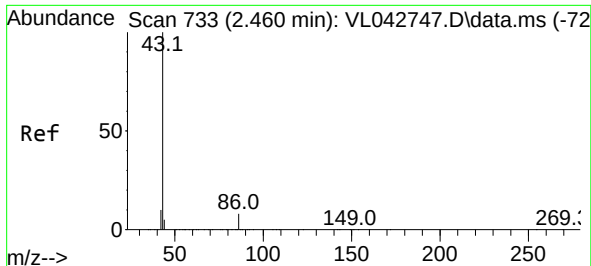
Tgt Ion: 84 Resp: 5728
Ion Ratio Lower Upper
84 100
49 148.6 138.6 208.0
51 48.8 40.6 61.0
86 64.1 49.8 74.8



#21
Allyl Chloride
Concen: 30.313 ppbv
RT: 1.968 min Scan# 581
Delta R.T. -0.126 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 41 Resp: 384990
Ion Ratio Lower Upper
41 100
76 0.0 21.1 31.7#
39 40.2 68.3 102.5#

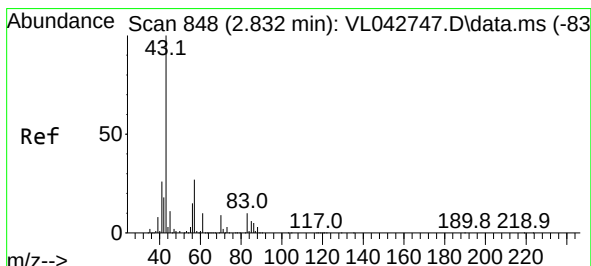
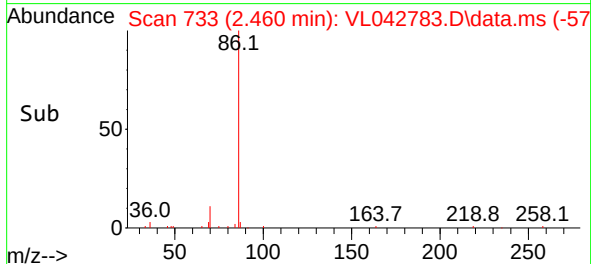
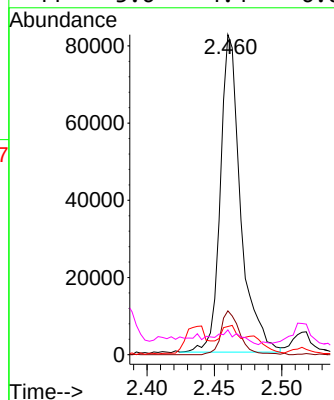
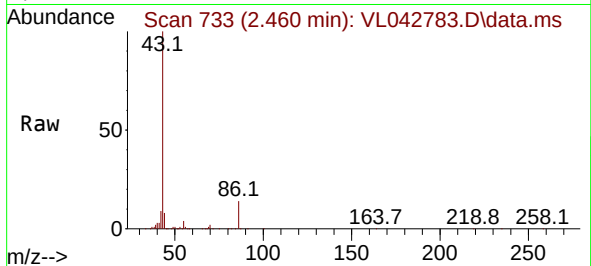




#23
 Vinyl Acetate
 Concen: 3.451 ppbv
 RT: 2.460 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: VL042783.D
 Acq: 29 Jul 2025 14:59

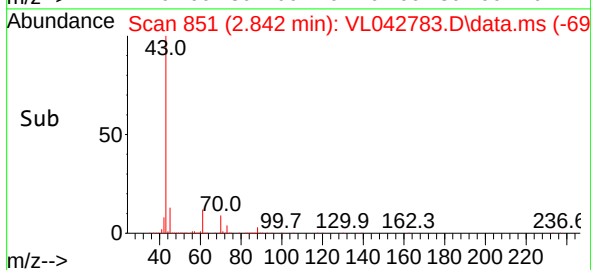
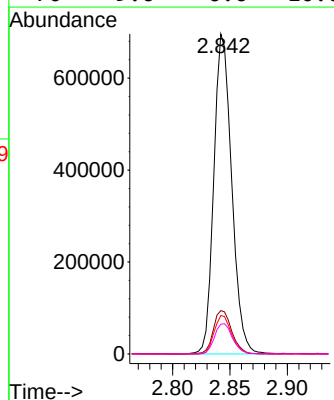
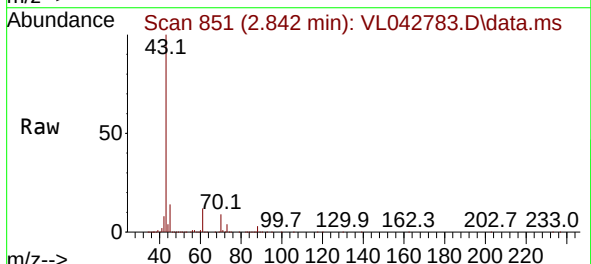
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DUP

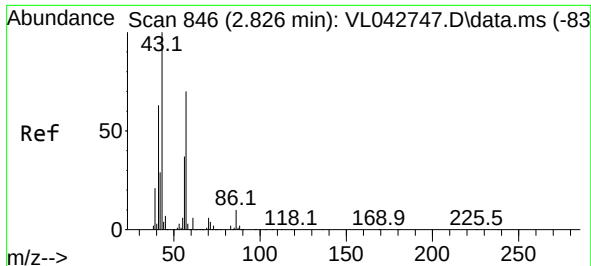
Tgt Ion:	43	Resp:	86222
Ion	Ratio	Lower	Upper
43	100		
86	13.8	6.1	9.1#
42	8.1	7.8	11.8
44	3.6	4.4	6.6#



#25
 Ethyl Acetate
 Concen: 16.516 ppbv
 RT: 2.842 min Scan# 851
 Delta R.T. 0.010 min
 Lab File: VL042783.D
 Acq: 29 Jul 2025 14:59

Tgt Ion:	43	Resp:	753351
Ion	Ratio	Lower	Upper
43	100		
45	14.1	7.8	11.6#
61	11.7	6.7	10.1#
70	9.6	6.6	10.0

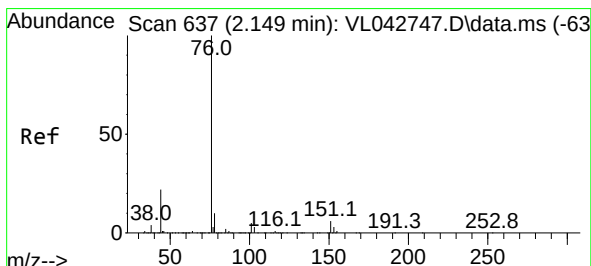
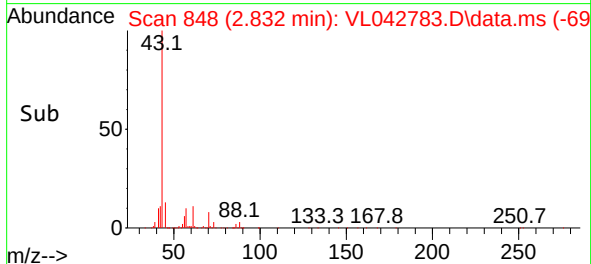
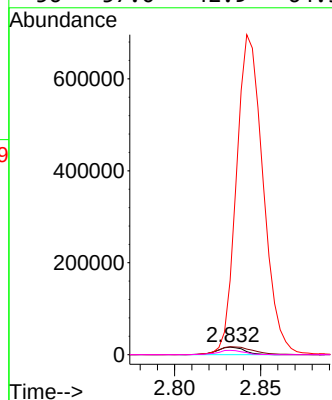
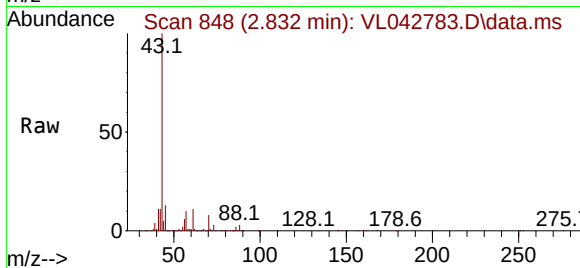




#26
Hexane
Concen: 0.900 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

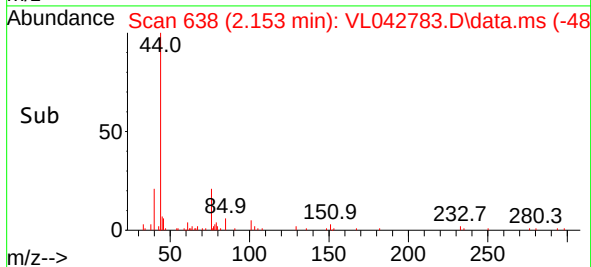
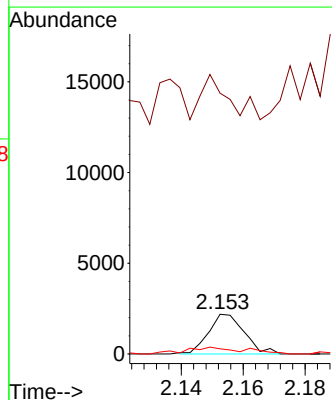
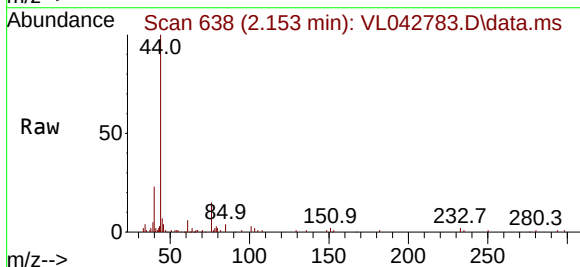
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

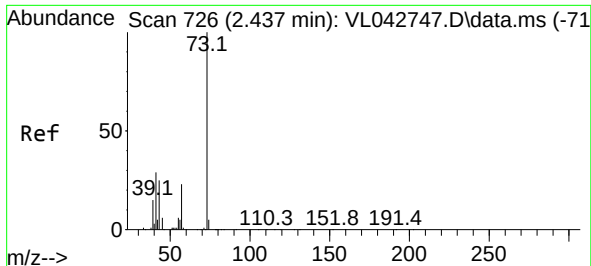
Tgt Ion: 57 Resp: 18015
Ion Ratio Lower Upper
57 100
41 140.1 75.4 113.2#
43 4208.4 185.0 277.6#
56 57.0 42.9 64.3



#27
Carbon Disulfide
Concen: 0.102 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 76 Resp: 1748
Ion Ratio Lower Upper
76 100
44 1145.5 19.3 28.9#
78 33.0 9.9 14.9#

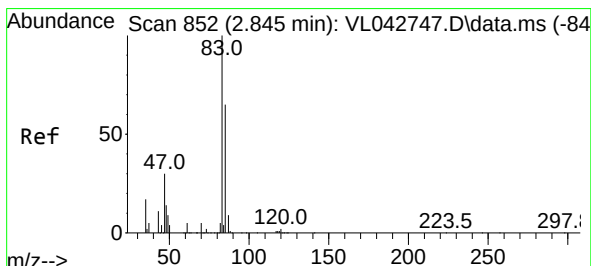
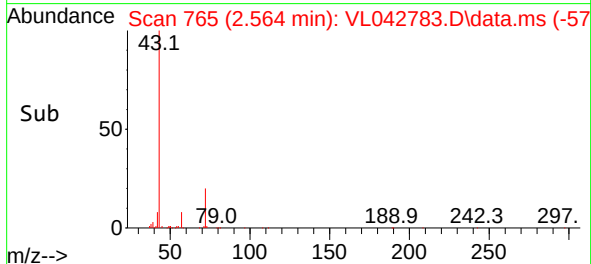
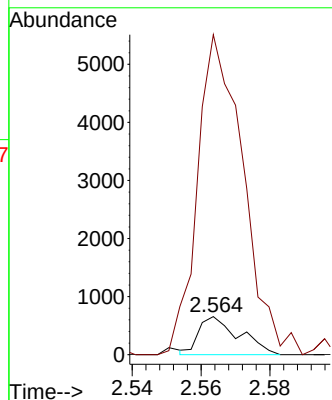
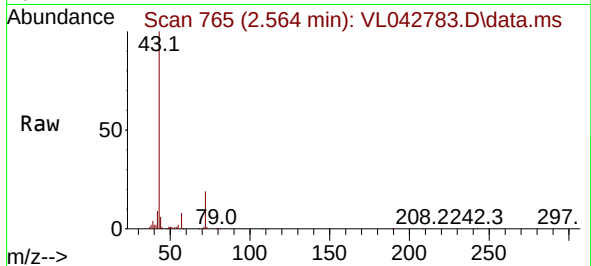




#28
Methyl tert-Butyl Ether
Concen: 0.056 ppbv
RT: 2.564 min Scan# 70
Delta R.T. 0.126 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

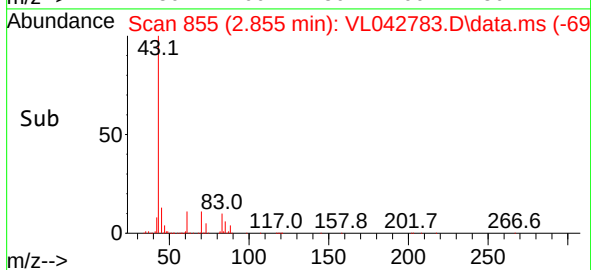
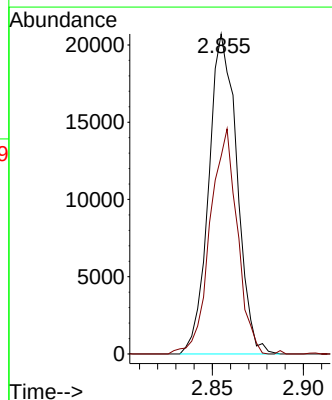
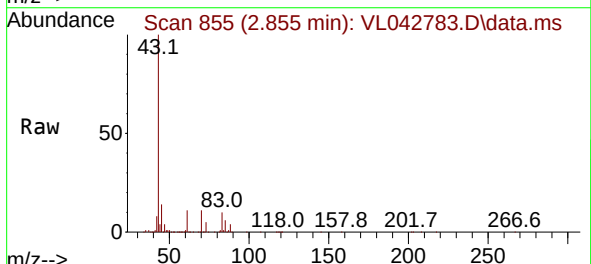
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

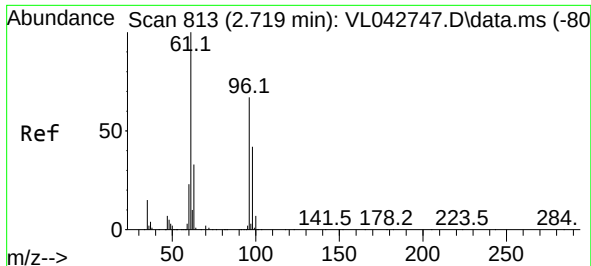
Tgt Ion: 73 Resp: 534
Ion Ratio Lower Upper
73 100
57 967.2 19.8 29.8#



#29
Chloroform
Concen: 0.722 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 83 Resp: 22312
Ion Ratio Lower Upper
83 100
85 60.7 52.2 78.2

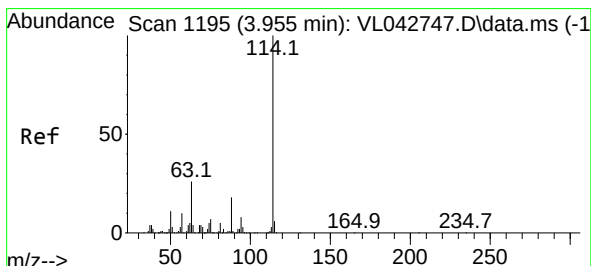
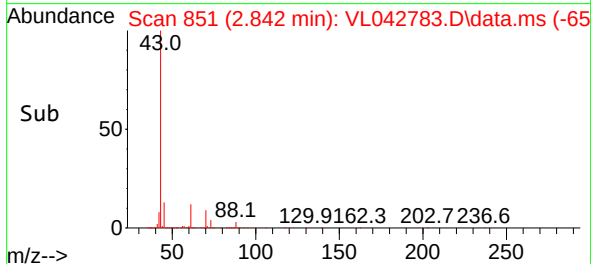
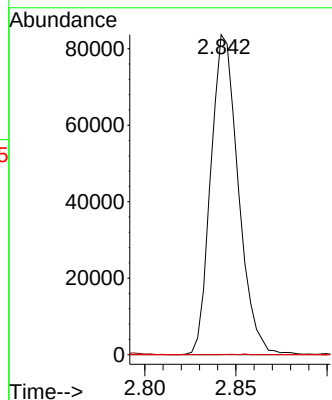
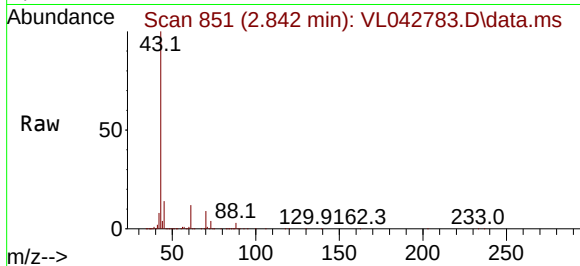




#31
 cis-1,2-Dichloroethene
 Concen: 4.277 ppbv
 RT: 2.842 min Scan# 813
 Delta R.T. 0.123 min
 Lab File: VL042783.D
 Acq: 29 Jul 2025 14:59

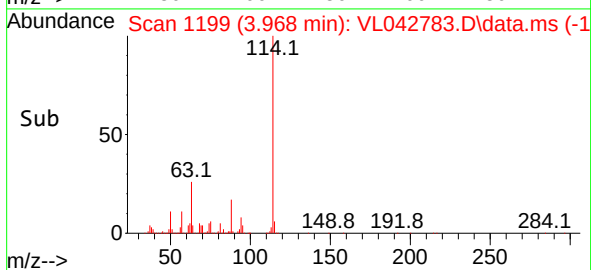
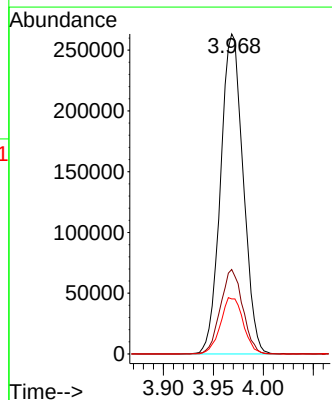
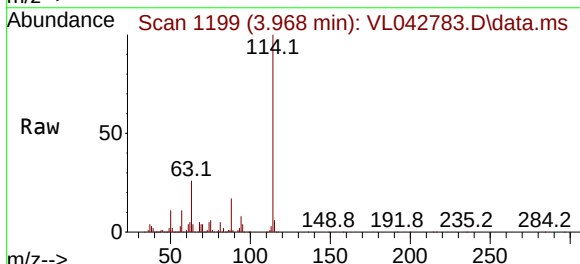
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DUP

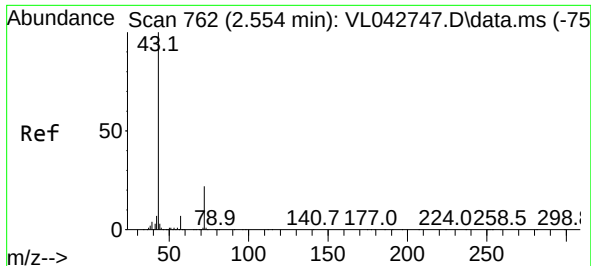
Tgt Ion: 61 Resp: 87934
 Ion Ratio Lower Upper
 61 100
 96 0.0 53.5 80.3#
 98 0.0 33.6 50.4#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.968 min Scan# 1199
 Delta R.T. 0.013 min
 Lab File: VL042783.D
 Acq: 29 Jul 2025 14:59

Tgt Ion: 114 Resp: 414556
 Ion Ratio Lower Upper
 114 100
 63 26.1 20.5 30.7
 88 17.7 14.0 21.0

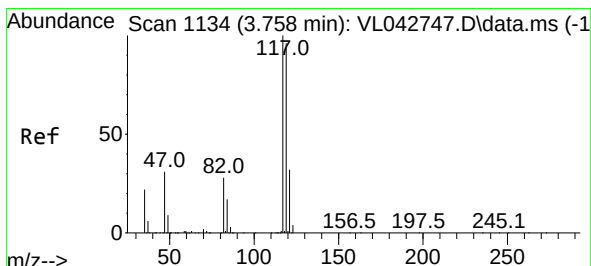
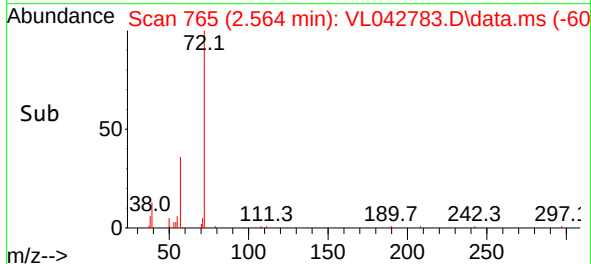
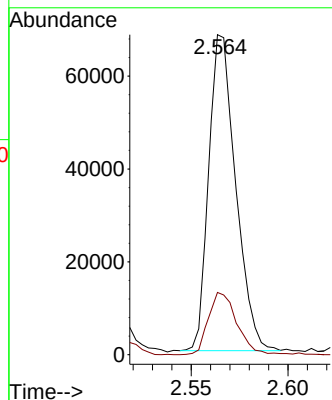
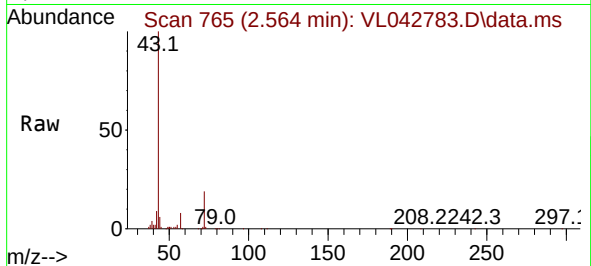




#34
2-Butanone
Concen: 2.250 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

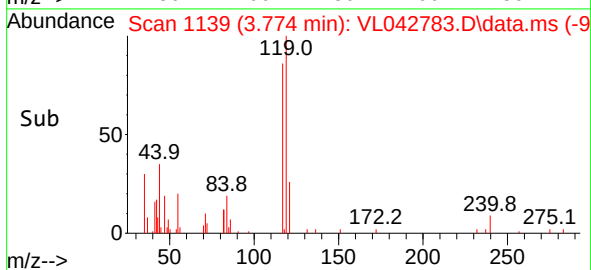
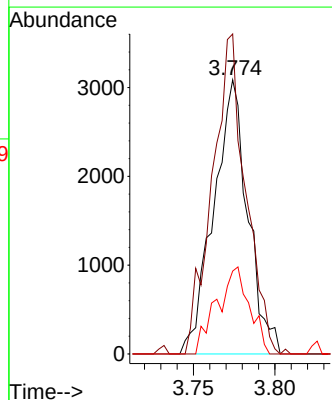
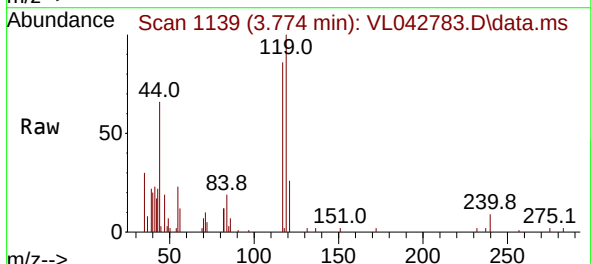
Instrument :
MSVOA_1
ClientSampleId :
IA2DUP

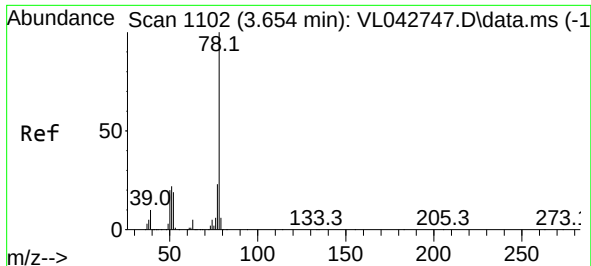
Tgt Ion: 43 Resp: 66086
Ion Ratio Lower Upper
43 100
72 21.1 17.4 26.0



#35
Carbon Tetrachloride
Concen: 0.146 ppbv
RT: 3.774 min Scan# 1139
Delta R.T. 0.016 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 117 Resp: 4493
Ion Ratio Lower Upper
117 100
119 116.8 77.1 115.7#
121 30.2 25.5 38.3

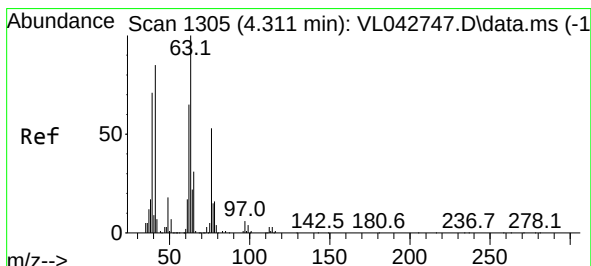
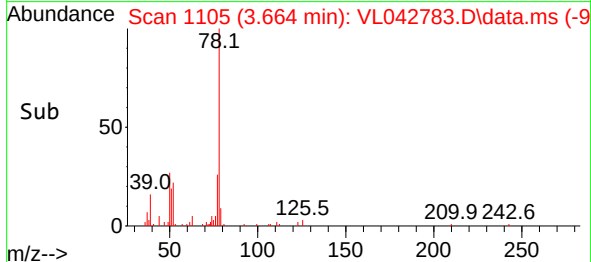
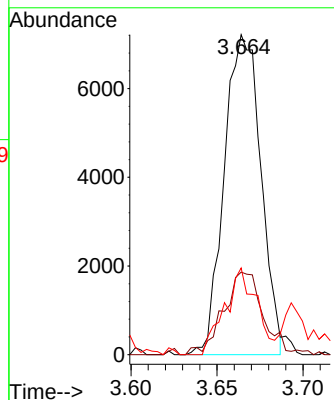
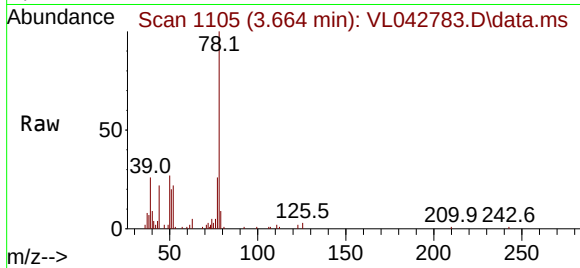




#36
Benzene
Concen: 0.272 ppbv
RT: 3.664 min Scan# 1102
Delta R.T. 0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

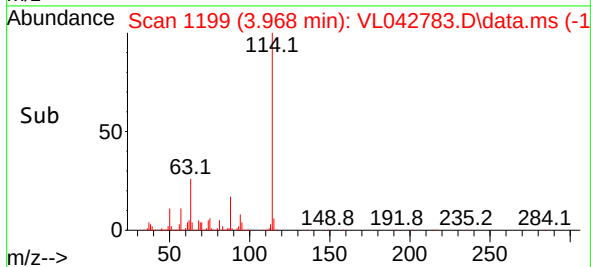
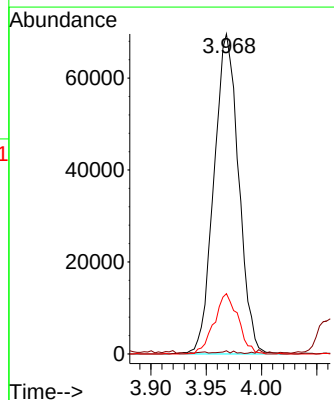
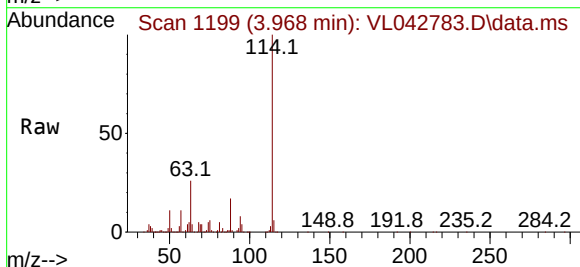
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

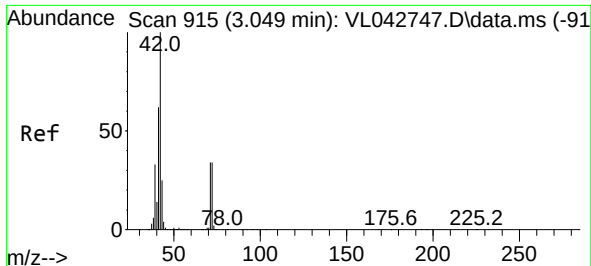
Tgt Ion: 78 Resp: 10676
Ion Ratio Lower Upper
78 100
77 25.8 18.5 27.7
50 27.1 16.2 24.2#



#39
1,2-Dichloropropane
Concen: 7.444 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.343 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 63 Resp: 107957
Ion Ratio Lower Upper
63 100
41 0.6 68.2 102.4#
62 18.8 52.0 78.0#

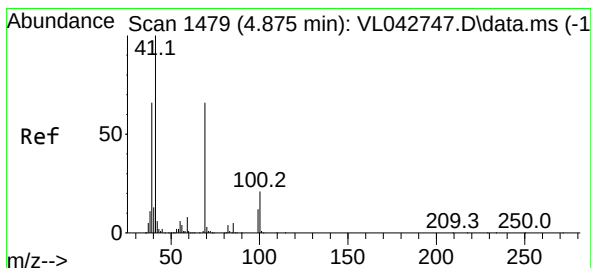
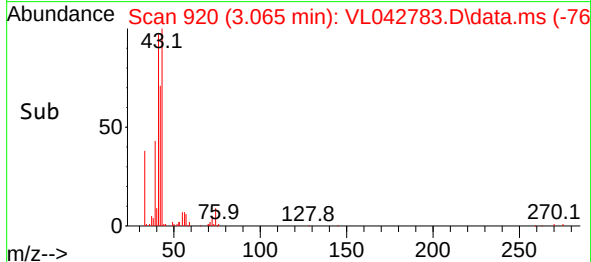
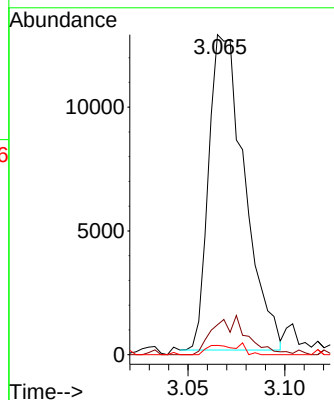
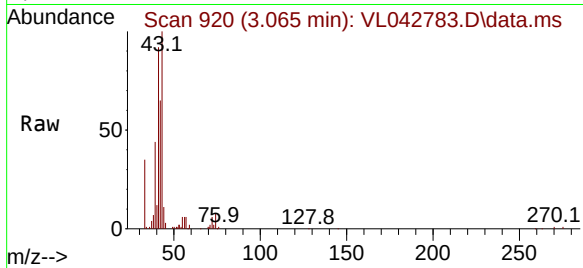




#41
Tetrahydrofuran
Concen: 1.098 ppbv
RT: 3.065 min Scan# 915
Delta R.T. 0.016 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

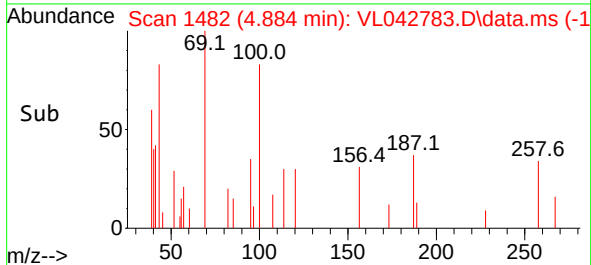
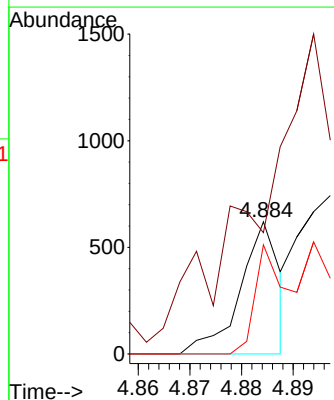
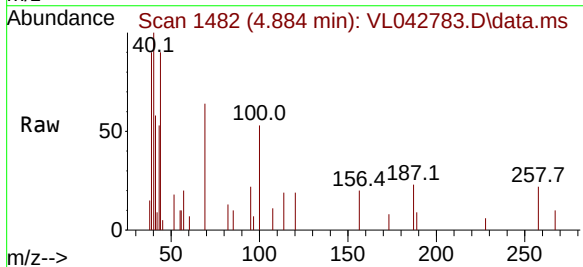
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

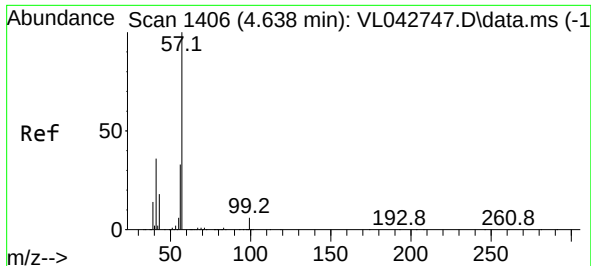
Tgt Ion: 42 Resp: 16406
Ion Ratio Lower Upper
42 100
72 12.4 30.9 46.3#
71 2.9 28.6 43.0#



#43
Methyl Methacrylate
Concen: 0.024 ppbv
RT: 4.884 min Scan# 1482
Delta R.T. 0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 69 Resp: 330
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#

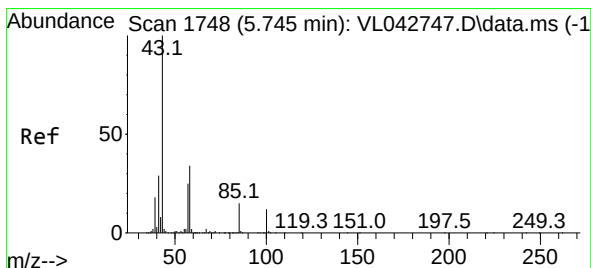
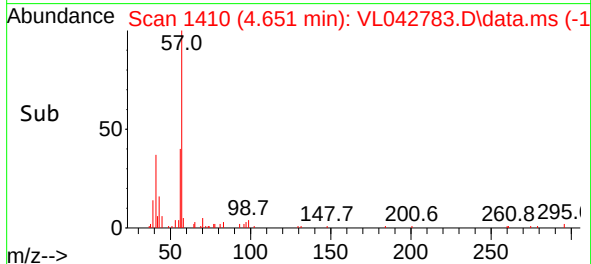
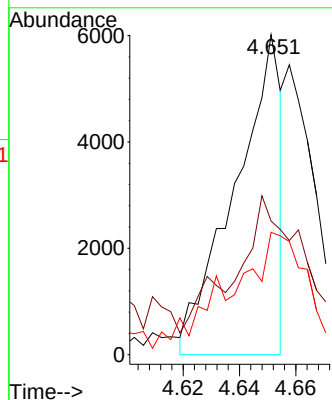
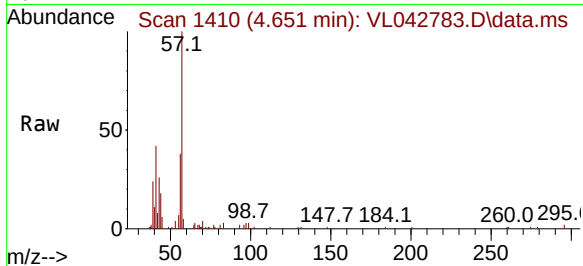




#44
2,2,4-Trimethylpentane
Concen: 0.107 ppbv
RT: 4.651 min Scan# 1406
Delta R.T. 0.013 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

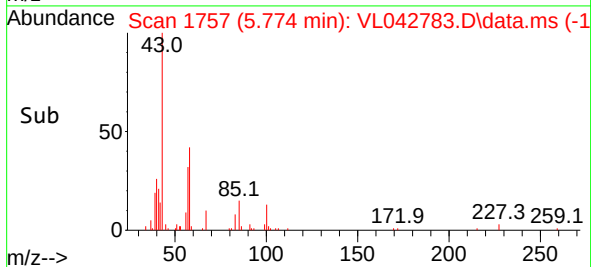
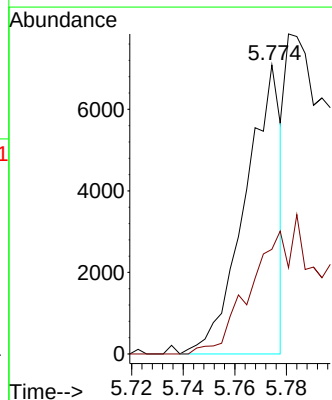
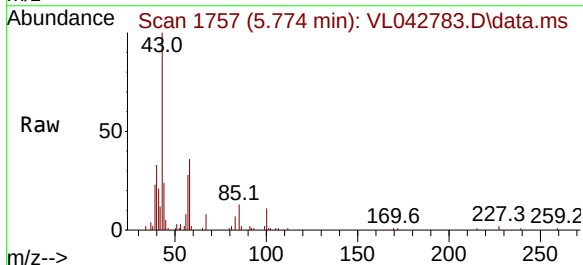
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

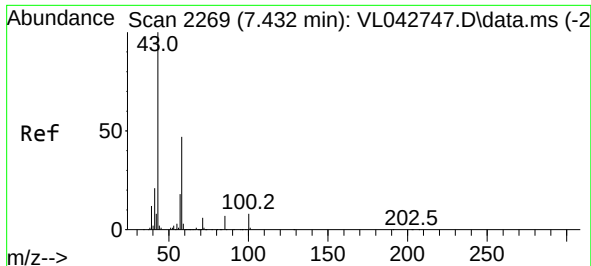
Tgt Ion: 57 Resp: 6826
Ion Ratio Lower Upper
57 100
41 81.0 28.3 42.5#
56 75.6 25.8 38.6#



#50
4-Methyl-2-Pentanone
Concen: 0.181 ppbv
RT: 5.774 min Scan# 1757
Delta R.T. 0.029 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 43 Resp: 6844
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#

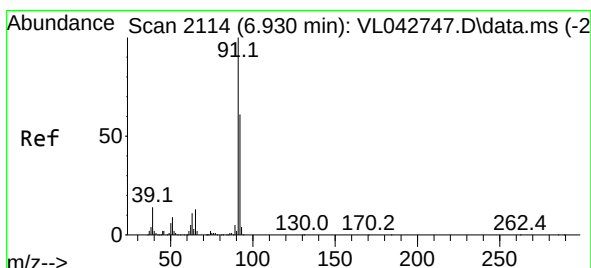
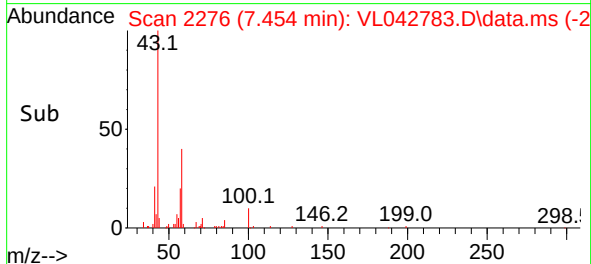
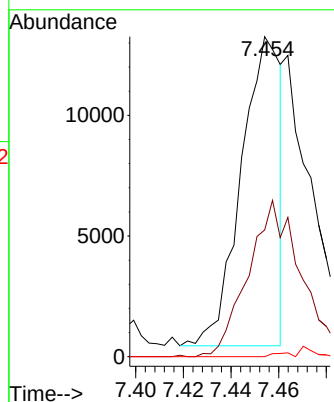
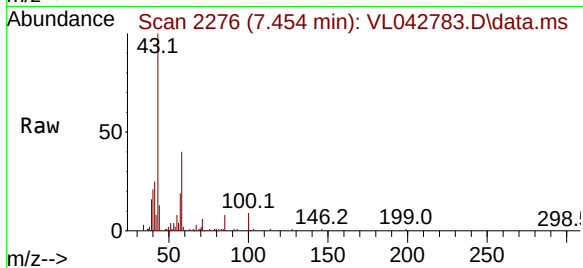




#51
2-Hexanone
Concen: 0.515 ppbv
RT: 7.454 min Scan# 2119
Delta R.T. 0.023 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

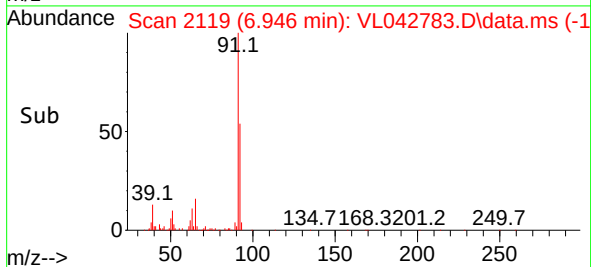
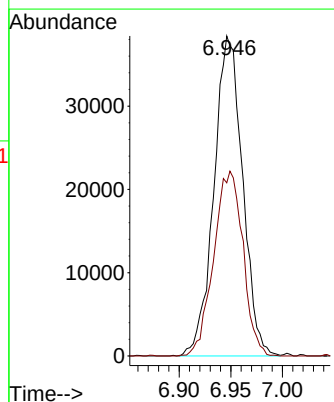
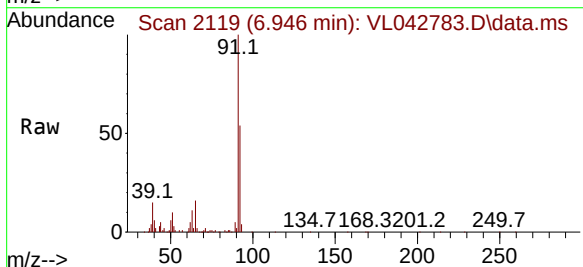
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

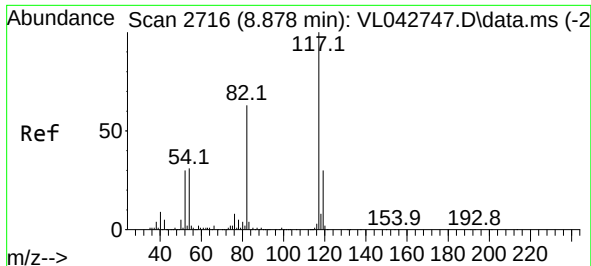
Tgt Ion: 43 Resp: 14728
Ion Ratio Lower Upper
43 100
58 72.3 38.0 57.0#
98 0.0 0.2 0.4#



#53
Toluene
Concen: 1.756 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 91 Resp: 74098
Ion Ratio Lower Upper
91 100
92 59.0 48.0 72.0

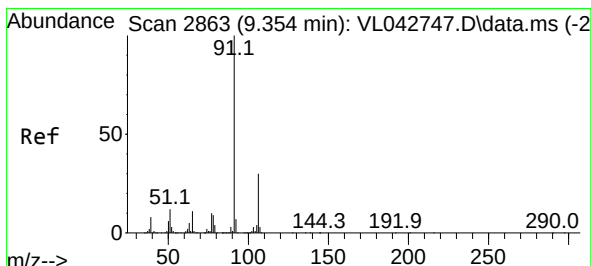
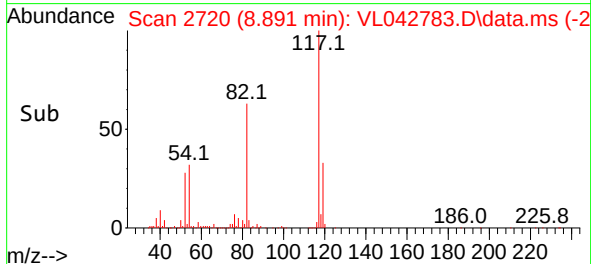
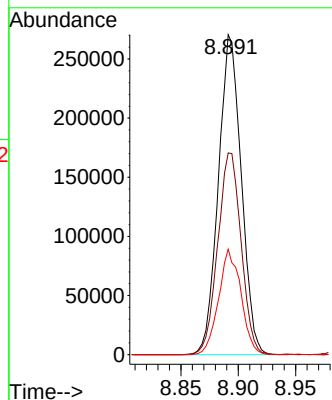
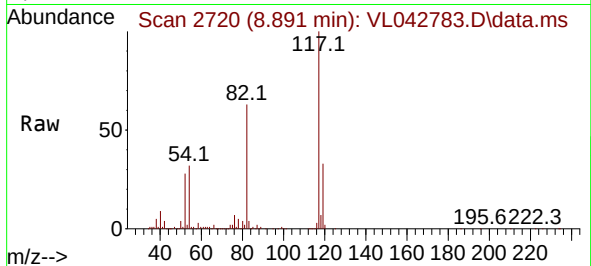




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

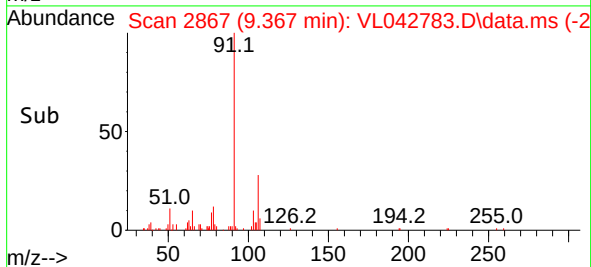
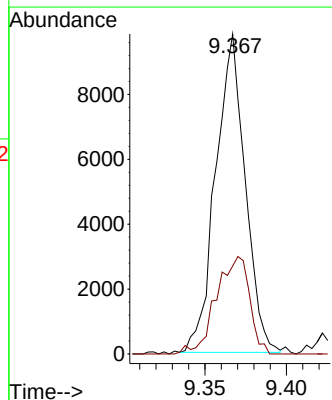
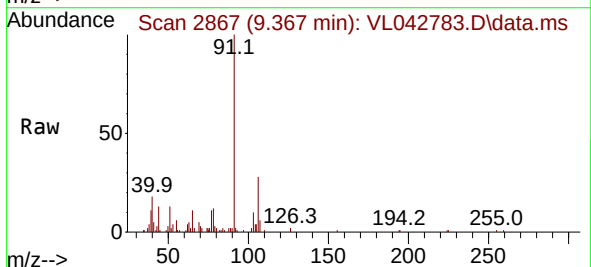
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

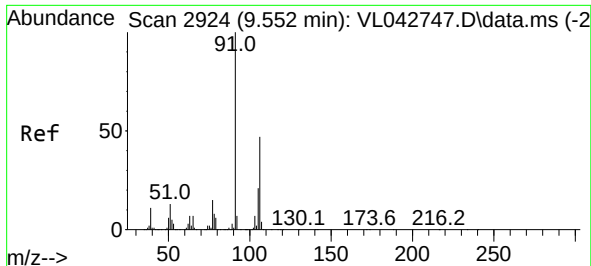
Tgt Ion:117 Resp: 375438
Ion Ratio Lower Upper
117 100
82 64.4 53.3 79.9
119 32.2 25.8 38.6



#58
Ethyl Benzene
Concen: 0.208 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.013 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 91 Resp: 12354
Ion Ratio Lower Upper
91 100
106 27.6 23.8 35.6





#59

m/p-Xylene

Concen: 0.928 ppbv

RT: 9.542 min Scan# 2924

Delta R.T. -0.010 min

Lab File: VL042783.D

Acq: 29 Jul 2025 14:59

Instrument :

MSVOA_L

ClientSampleId :

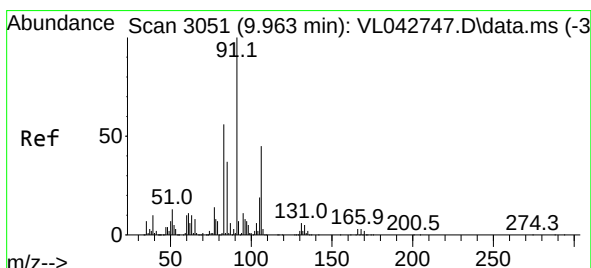
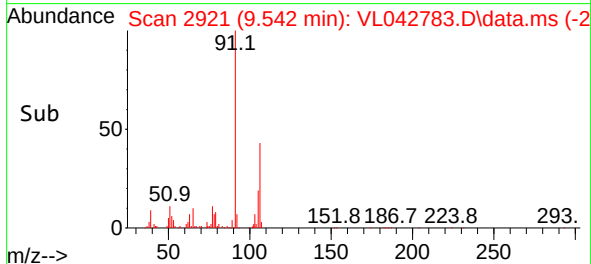
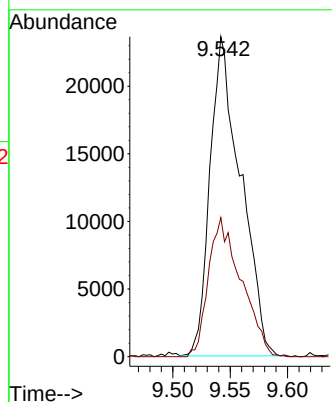
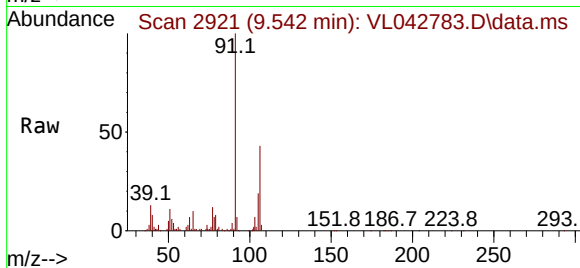
IA2DUP

Tgt Ion: 91 Resp: 43951

Ion Ratio Lower Upper

91 100

106 46.5 37.4 56.2



#60

o-Xylene

Concen: 0.467 ppbv

RT: 9.975 min Scan# 3055

Delta R.T. 0.013 min

Lab File: VL042783.D

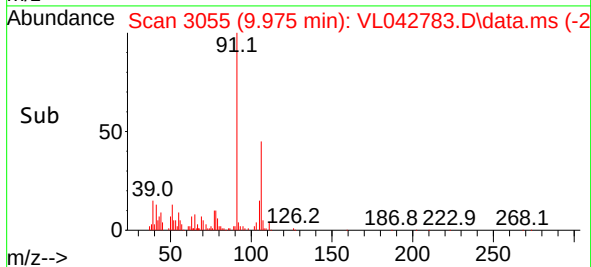
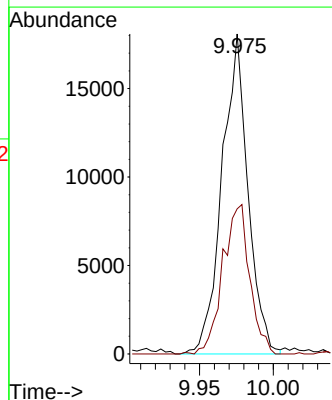
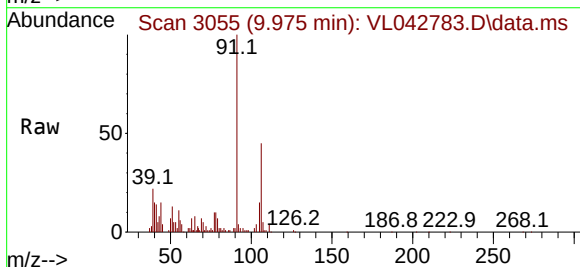
Acq: 29 Jul 2025 14:59

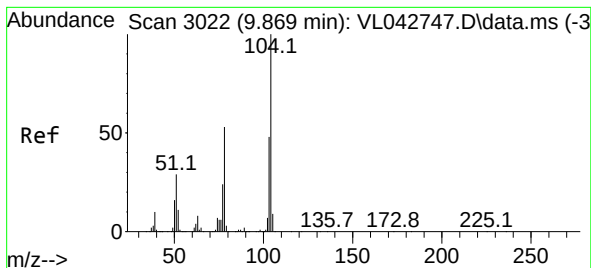
Tgt Ion: 91 Resp: 22134

Ion Ratio Lower Upper

91 100

106 48.4 22.0 66.0





#61

Styrene

Concen: 1.288 ppbv

RT: 9.882 min Scan# 3022

Delta R.T. 0.013 min

Lab File: VL042783.D

Acq: 29 Jul 2025 14:59

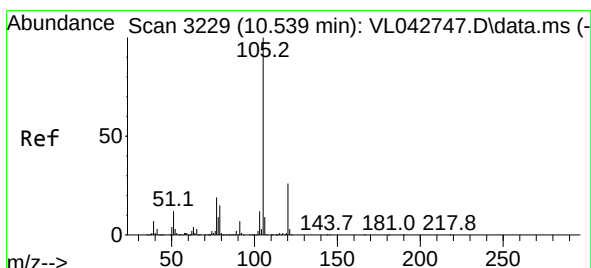
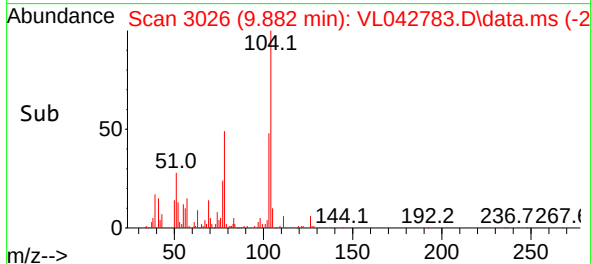
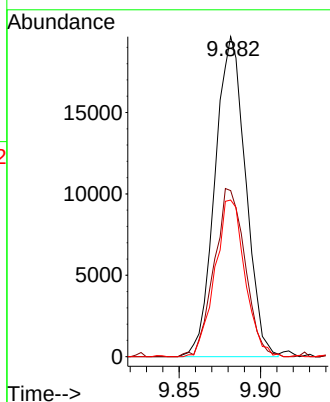
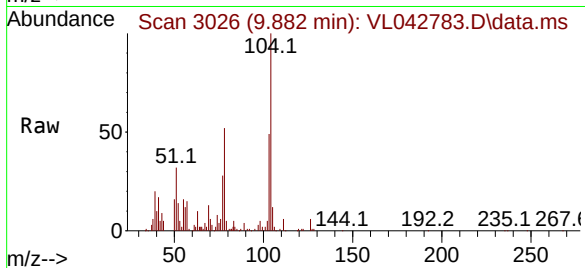
Instrument :

MSVOA_1

ClientSampleId :

IA2DUP

Tgt Ion:104	Resp:	25657
Ion Ratio	Lower	Upper
104	100	
78	52.9	41.5 62.3
103	48.1	37.5 56.3



#62

Isopropylbenzene

Concen: 0.101 ppbv

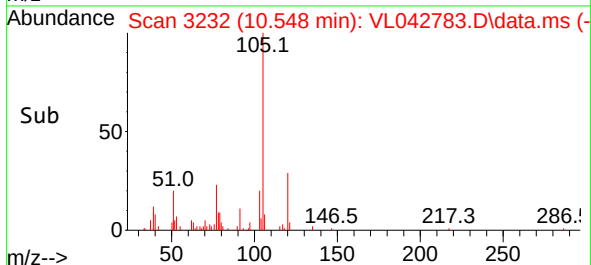
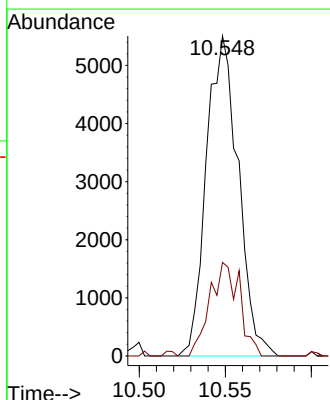
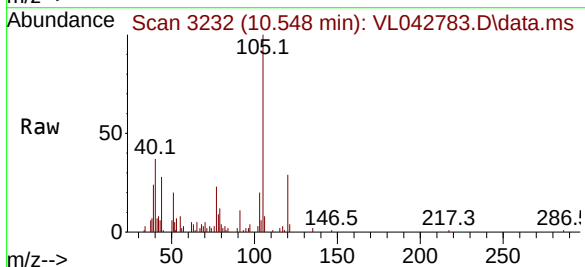
RT: 10.548 min Scan# 3232

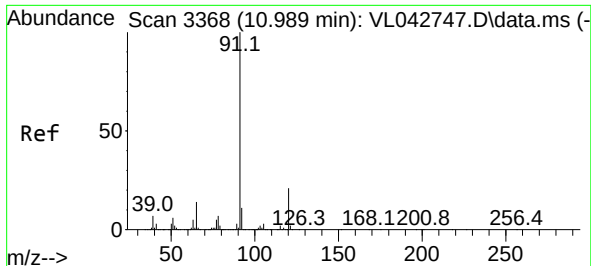
Delta R.T. 0.010 min

Lab File: VL042783.D

Acq: 29 Jul 2025 14:59

Tgt Ion:105	Resp:	7077
Ion Ratio	Lower	Upper
105	100	
120	27.7	20.5 30.7

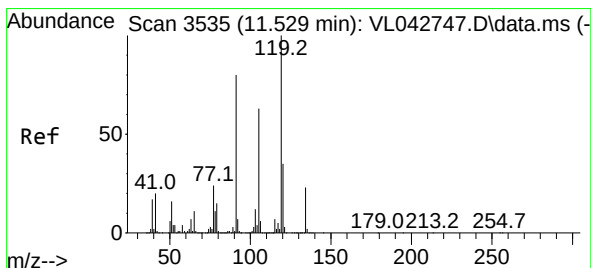
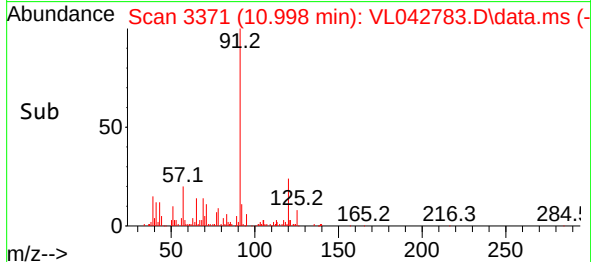
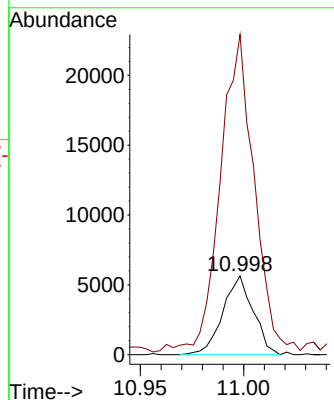
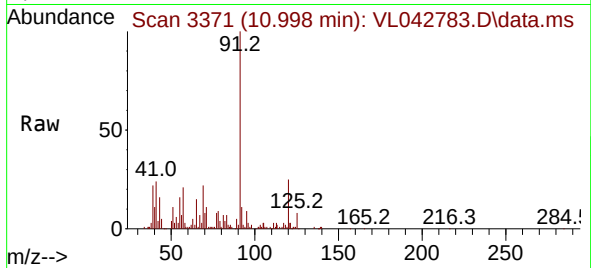




#64
n-propylbenzene
Concen: 0.316 ppbv
RT: 10.998 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

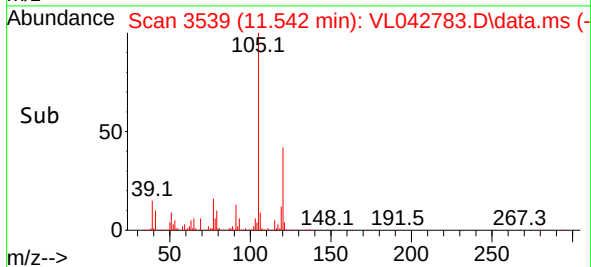
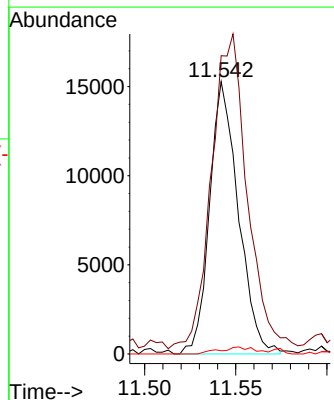
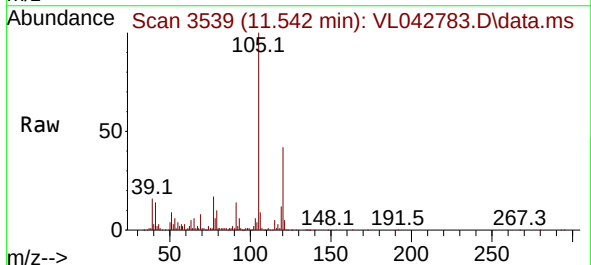
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

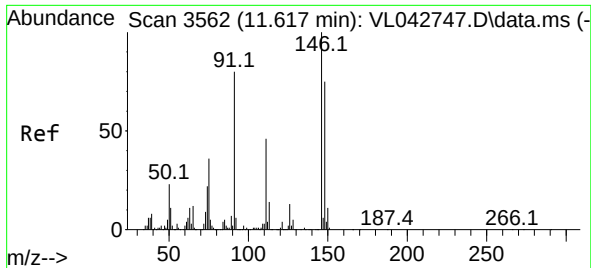
Tgt Ion:120 Resp: 5760
Ion Ratio Lower Upper
120 100
91 444.8 372.7 559.1



#65
tert-Butylbenzene
Concen: 0.271 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.013 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion:119 Resp: 16804
Ion Ratio Lower Upper
119 100
91 139.9 64.0 96.0#
134 3.9 17.3 25.9#

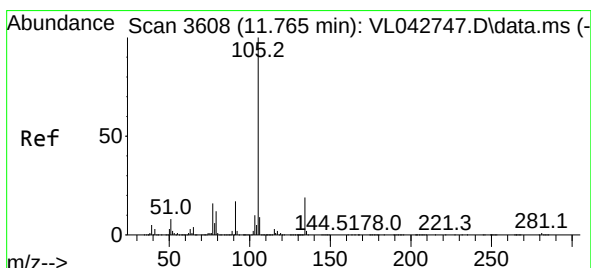
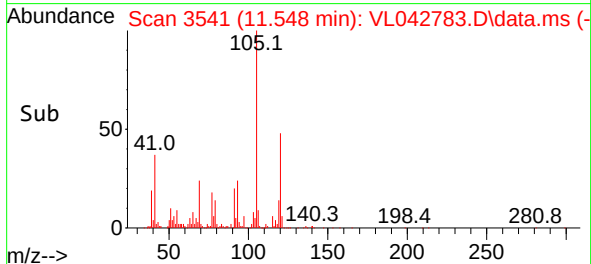
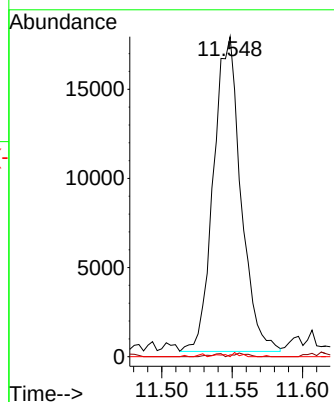
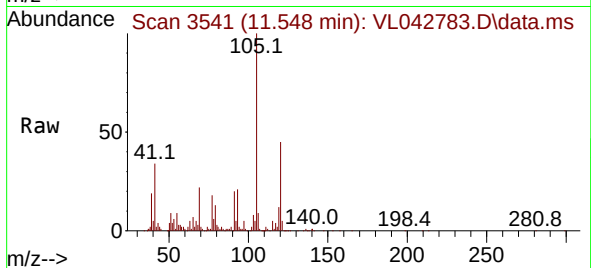




#66
Benzyl Chloride
Concen: 4.703 ppbv
RT: 11.548 min Scan# 311
Delta R.T. -0.068 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

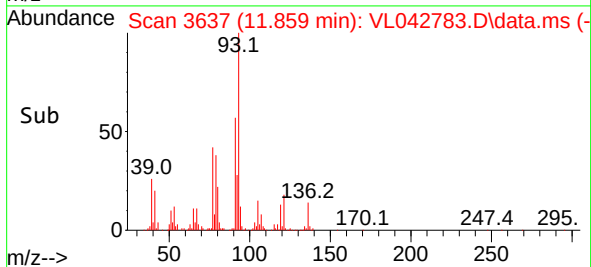
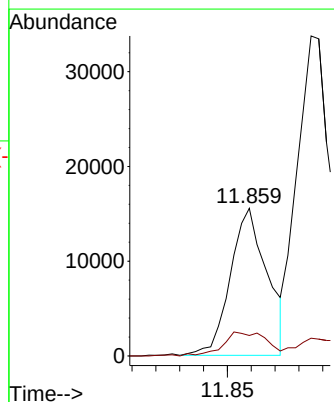
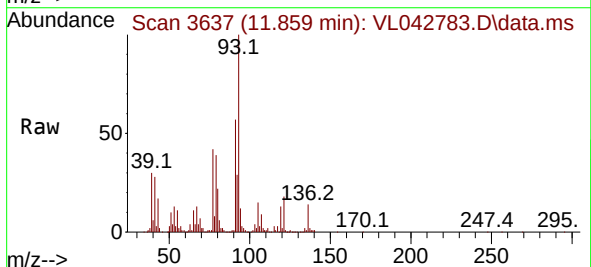
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

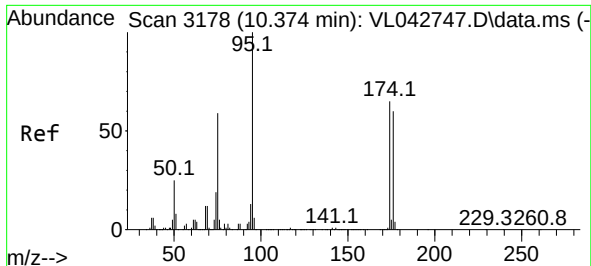
Tgt Ion: 91 Resp: 23949
Ion Ratio Lower Upper
91 100
126 1.0 14.4 21.6#
128 0.8 5.2 7.8#



#67
sec-Butylbenzene
Concen: 0.189 ppbv
RT: 11.859 min Scan# 3637
Delta R.T. 0.094 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 105 Resp: 16656
Ion Ratio Lower Upper
105 100
134 20.4 15.5 23.3

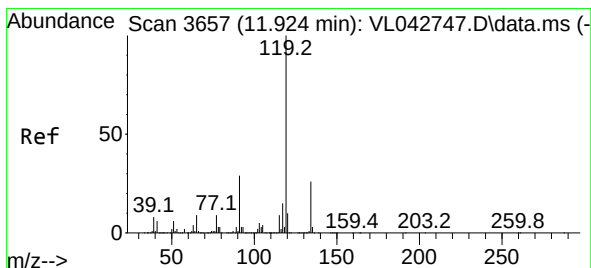
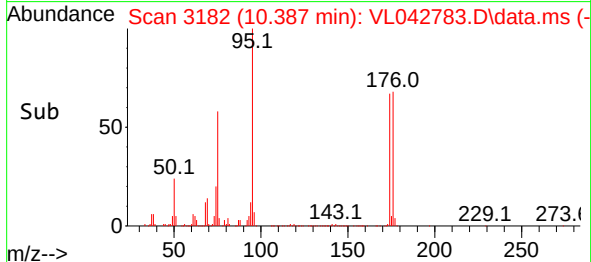
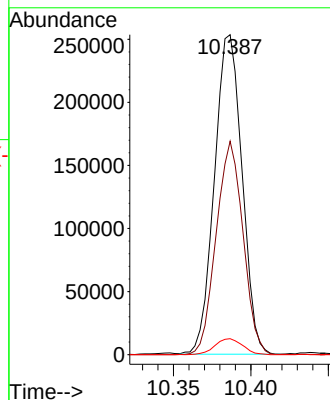
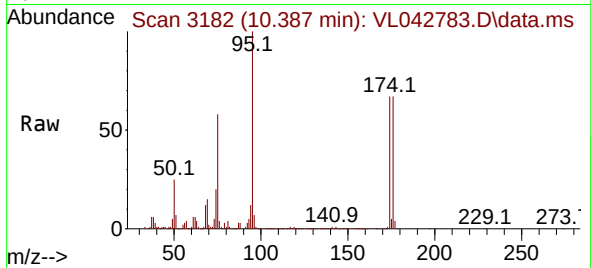




#68
1-Bromo-4-Fluorobenzene
Concen: 10.544 ppbv
RT: 10.387 min Scan# 3178
Delta R.T. 0.013 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

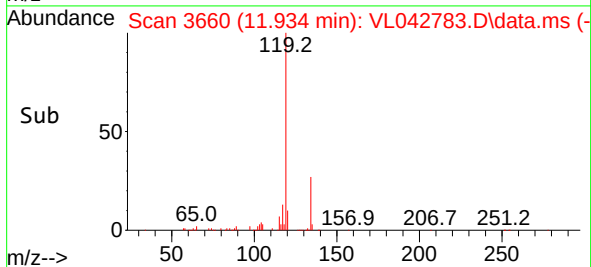
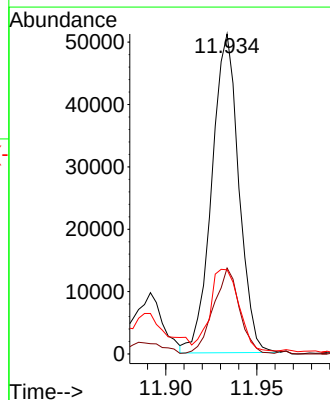
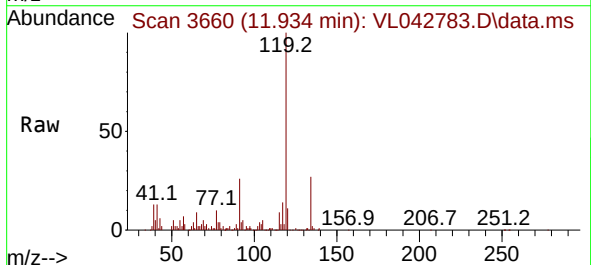
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

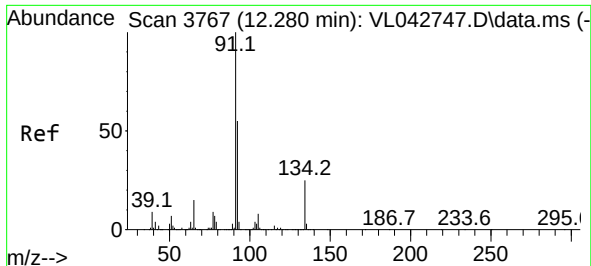
Tgt Ion: 95 Resp: 313505
Ion Ratio Lower Upper
95 100
174 65.1 53.8 80.6
175 5.0 4.0 6.0



#69
p-Isopropyltoluene
Concen: 0.733 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 119 Resp: 52731
Ion Ratio Lower Upper
119 100
134 26.3 20.6 31.0
91 28.0 23.2 34.8

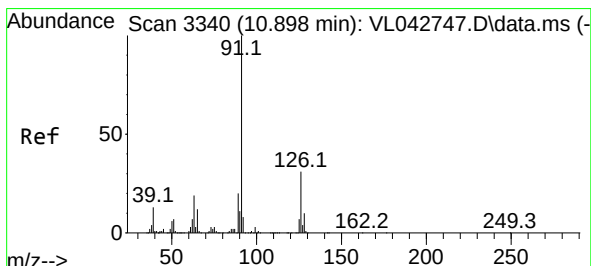
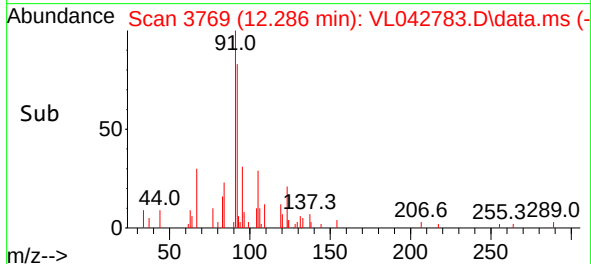
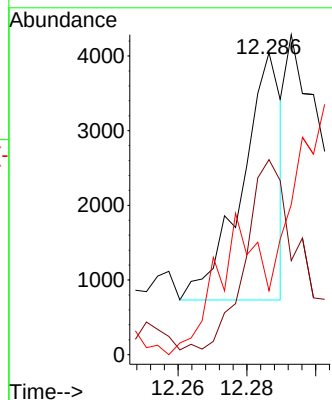
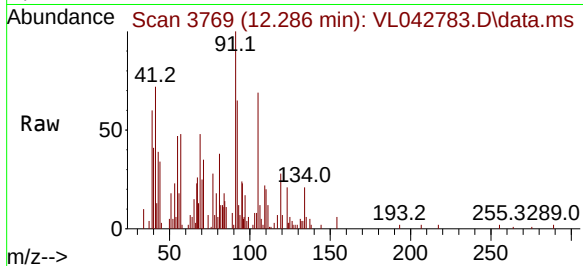




#70
n-Butylbenzene
Concen: 0.038 ppbv
RT: 12.286 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

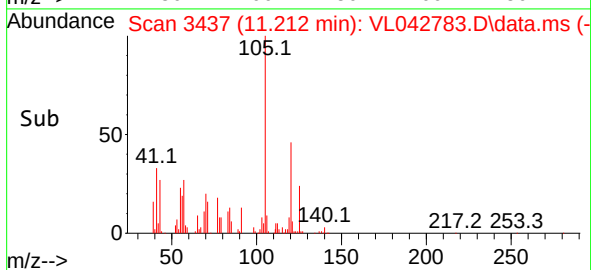
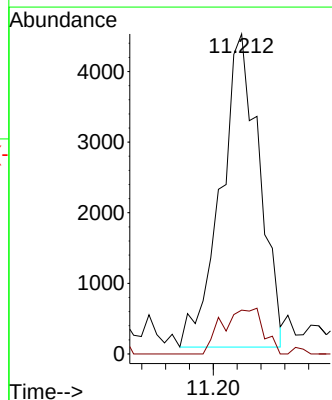
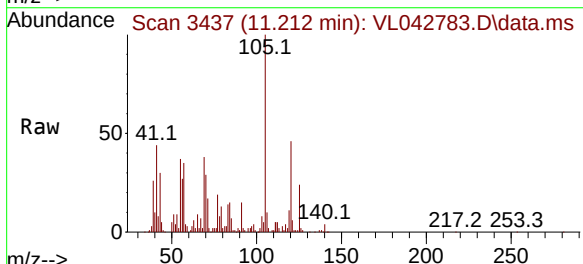
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

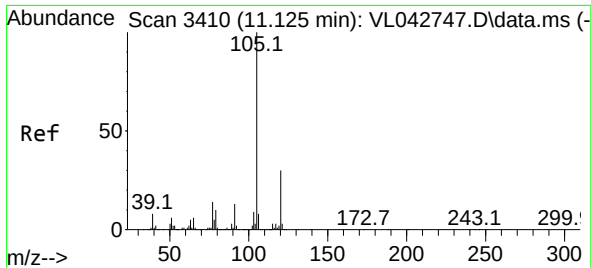
Tgt Ion: 91 Resp: 2644
Ion Ratio Lower Upper
91 100
92 0.0 43.4 65.2#
134 202.9 19.6 29.4#



#71
2-Chlorotoluene
Concen: 0.093 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.314 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion: 91 Resp: 4971
Ion Ratio Lower Upper
91 100
126 16.1 12.0 48.2

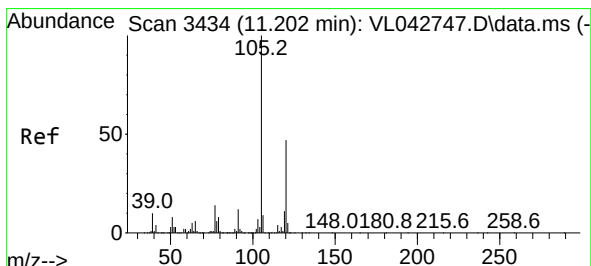
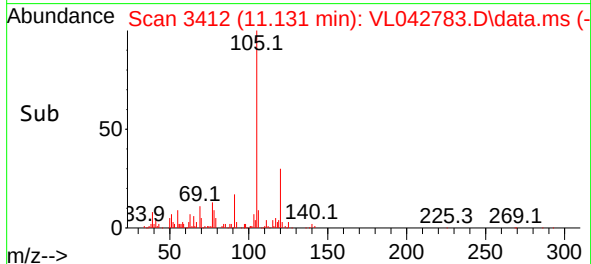
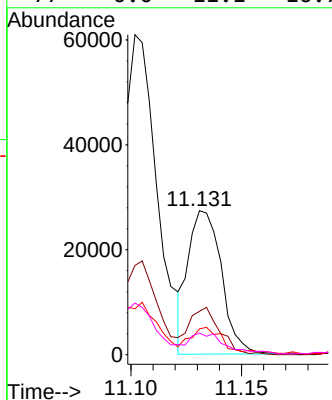
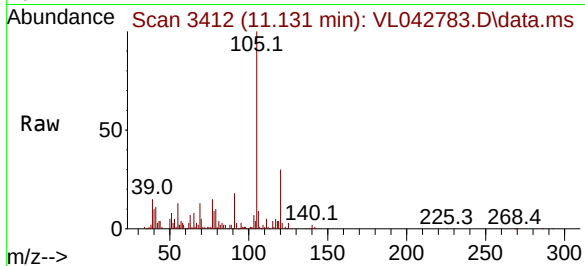




#72
4-Ethyltoluene
Concen: 0.506 ppbv
RT: 11.131 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

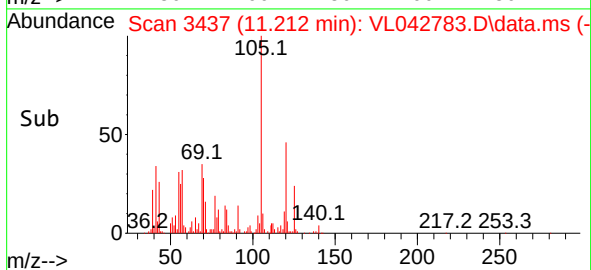
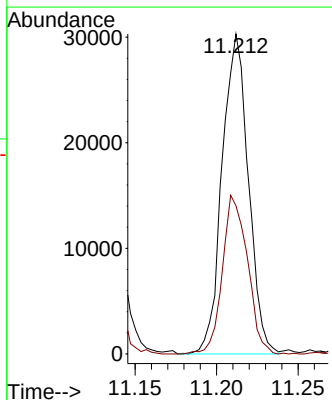
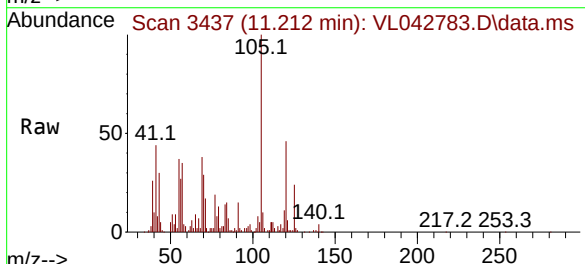
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

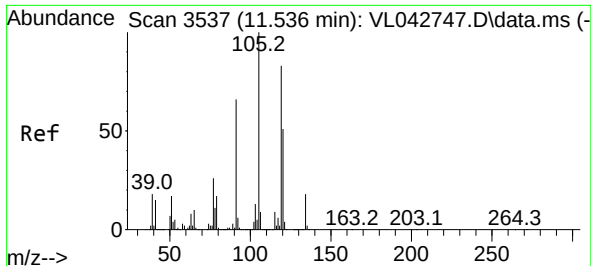
Tgt Ion:	105	Resp:	28626
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.4	36.6#
91	0.0	10.6	15.8#
77	0.0	11.1	16.7#



#73
1,3,5-Trimethylbenzene
Concen: 0.729 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion:	105	Resp:	33945
Ion Ratio	Lower	Upper	
105	100		
120	46.3	37.8	56.8



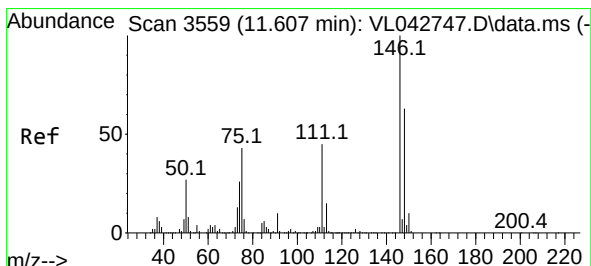
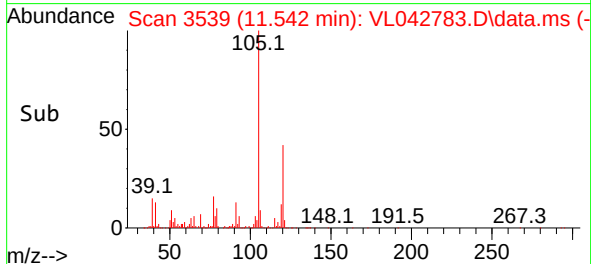
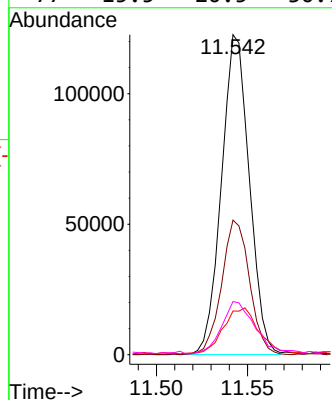
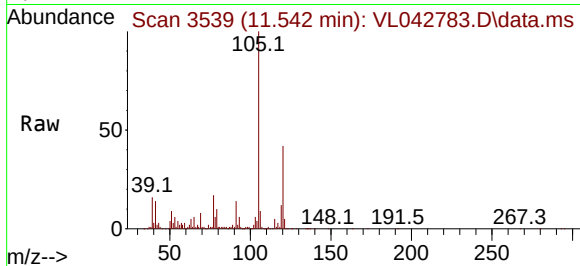


#74
1,2,4-Trimethylbenzene
Concen: 2.554 ppbv
RT: 11.542 min Scan# 3537
Delta R.T. 0.006 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

Tgt Ion:105 Resp: 129719

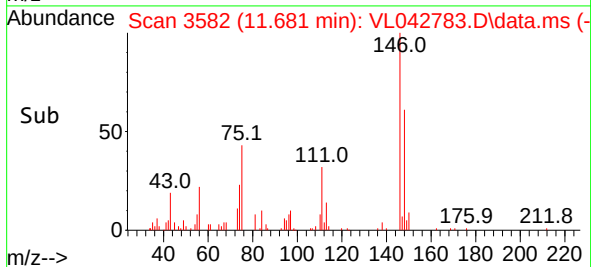
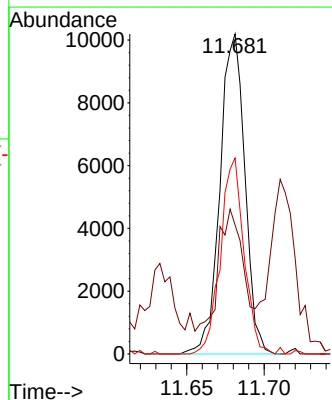
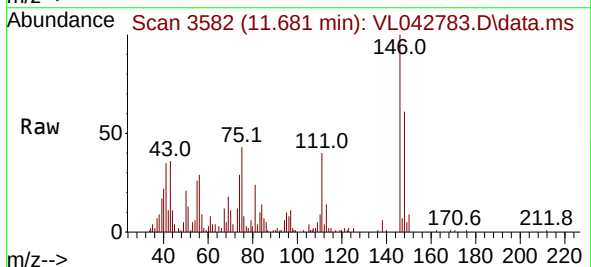
Ion	Ratio	Lower	Upper
105	100		
120	42.0	40.8	61.2
91	13.2	53.0	79.4#
77	15.5	20.5	30.7#

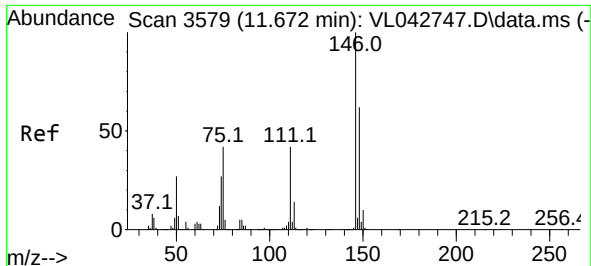


#75
1,3-Dichlorobenzene
Concen: 0.319 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.074 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion:146 Resp: 11370

Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.7	68.0
148	58.4	31.9	95.5

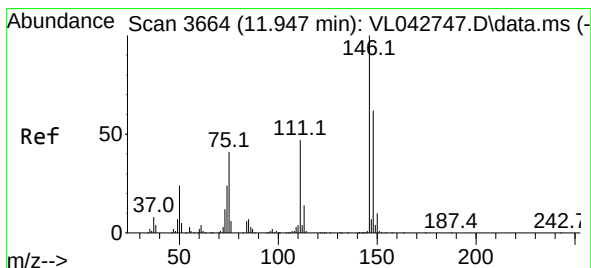
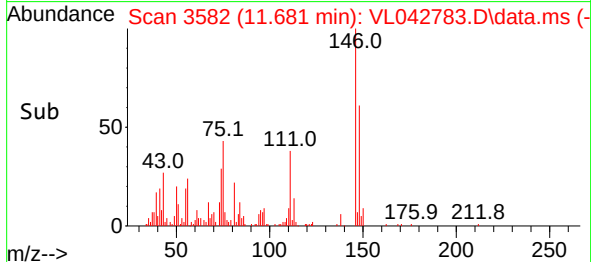
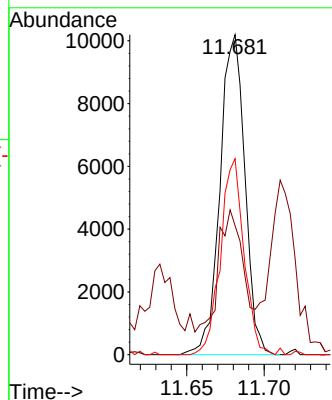
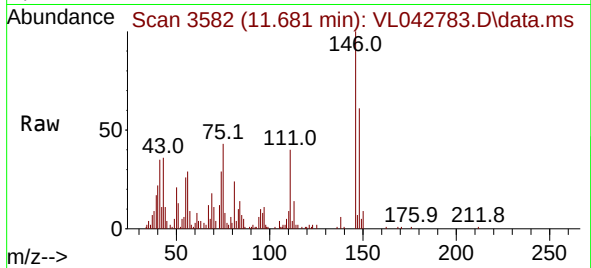




#76
1,4-Dichlorobenzene
Concen: 0.326 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. 0.010 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

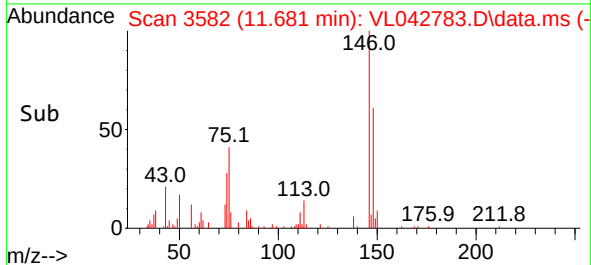
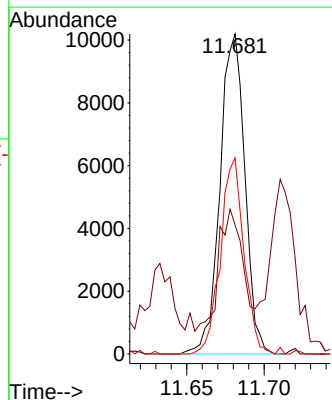
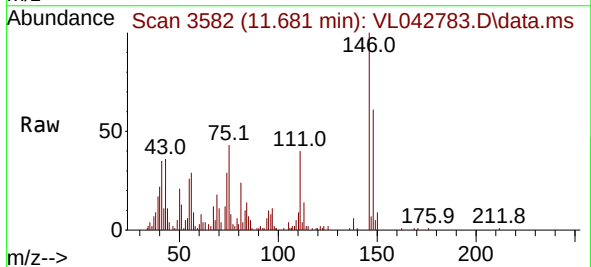
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

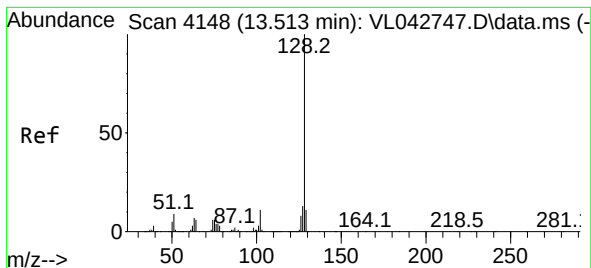
Tgt Ion:146 Resp: 11370
Ion Ratio Lower Upper
146 100
111 46.3 21.4 64.2
148 58.7 32.1 96.3



#77
1,2-Dichlorobenzene
Concen: 0.325 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. -0.266 min
Lab File: VL042783.D
Acq: 29 Jul 2025 14:59

Tgt Ion:146 Resp: 11370
Ion Ratio Lower Upper
146 100
111 38.3 23.7 71.1
148 58.4 32.6 97.7





#79

Naphthalene

Concen: 0.689 ppbv

RT: 13.523 min Scan# 4148

Delta R.T. 0.010 min

Lab File: VL042783.D

Acq: 29 Jul 2025 14:59

Instrument :

MSVOA_L

ClientSampleId :

IA2DUP

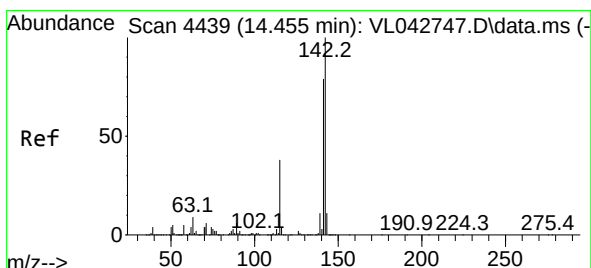
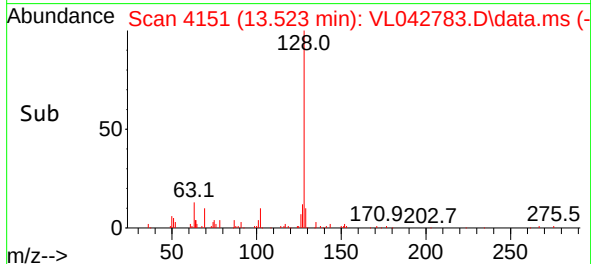
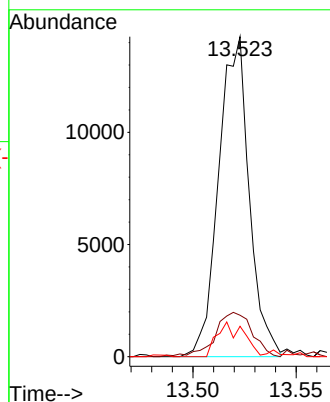
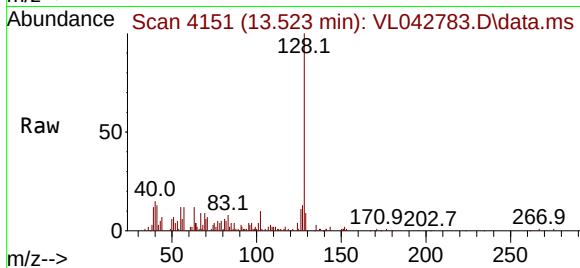
Tgt Ion:128 Resp: 14648

Ion Ratio Lower Upper

128 100

127 12.9 10.5 15.7

129 9.8 8.6 13.0



#80

Naphthalene,2-methyl-

Concen: 1.140 ppbv

RT: 14.471 min Scan# 4444

Delta R.T. 0.016 min

Lab File: VL042783.D

Acq: 29 Jul 2025 14:59

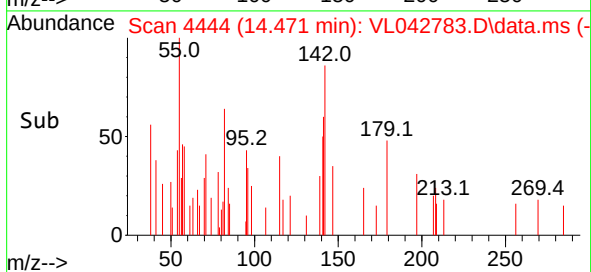
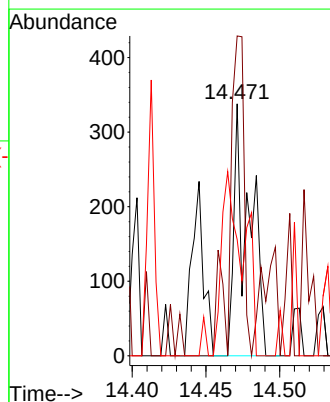
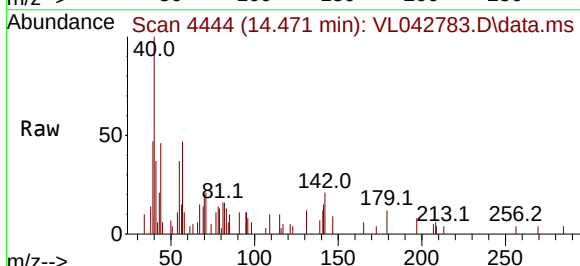
Tgt Ion:142 Resp: 372

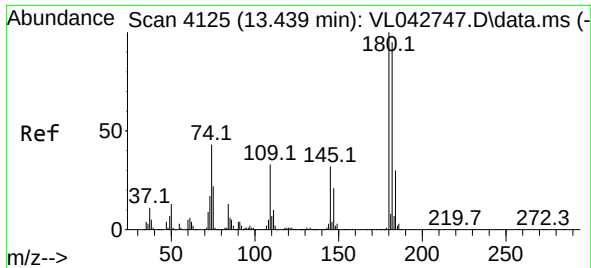
Ion Ratio Lower Upper

142 100

141 118.3 65.8 98.8#

115 70.7 31.2 46.8#





#81

1,2,4-Trichlorobenzene

Concen: 0.441 ppbv

RT: 13.452 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042783.D

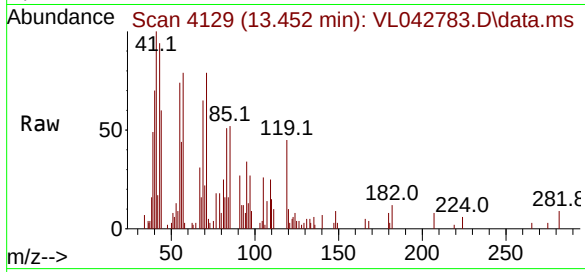
Acq: 29 Jul 2025 14:59

Instrument :

MSVOA_L

ClientSampleId :

IA2DUP



Tgt Ion:180 Resp: 189

Ion Ratio Lower Upper

180 100

182 76.7 76.2 114.2

184 11.1 24.8 37.2#

