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 Data File : VL042903.D
 Acq On : 08 Sep 2025 14:19
 Operator : SY/MD
 Sample : Q3038-01 10X
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

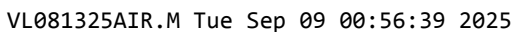
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

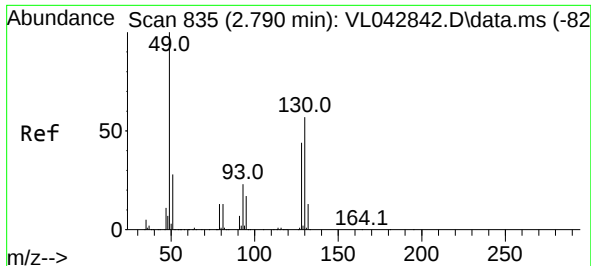
Quant Time: Sep 09 00:56:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	143276	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	361706	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.878	117	297866	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	219883	9.843	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.476	85	898	0.043	ppbv	90
3) Chlorodifluoromethane	1.473	51	55582	2.395	ppbv	94
4) Chloromethane	1.534	50	612	0.072	ppbv #	72
6) Bromomethane	1.661	94	114	0.034	ppbv #	4
7) Chloroethane	1.492	64	2782	0.854	ppbv #	41
9) Propene	1.483	41	4920	0.491	ppbv	98
11) Trichlorofluoromethane	1.877	101	846	0.041	ppbv	98
13) Ethanol	1.722	45	9793	10.685	ppbv #	32
15) Acetone	1.835	43	53934	2.846	ppbv	98
16) 1,3-Butadiene	1.602	39	4204	0.489	ppbv #	27
17) tert-Butyl alcohol	2.043	59	867	0.039	ppbv #	89
19) Isopropyl Alcohol	1.887	45	55005	4.859	ppbv #	37
20) Methylene Chloride	2.062	84	4628	0.583	ppbv	89
23) Vinyl Acetate	2.457	43	1112	0.043	ppbv #	74
25) Ethyl Acetate	2.829	43	6379	0.139	ppbv #	86
26) Hexane	2.826	57	7824	0.370	ppbv #	47
27) Carbon Disulfide	2.153	76	1303	0.063	ppbv #	1
29) Chloroform	2.852	83	1260	0.042	ppbv #	60
34) 2-Butanone	2.557	43	33068	1.354	ppbv	98
36) Benzene	3.651	78	2167	0.063	ppbv	99
39) 1,2-Dichloropropane	3.952	63	95422	7.543	ppbv #	26
51) 2-Hexanone	7.444	43	1305	0.050	ppbv #	87
52) Tetrachloroethene	8.221	164	55805	4.454	ppbv	93
53) Toluene	6.927	91	3692	0.090	ppbv	95
71) 2-Chlorotoluene	10.856	91	54775	1.165	ppbv #	46
79) Naphthalene	13.513	128	1391	0.033	ppbv #	92

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

Quant Time: Sep 09 00:56:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

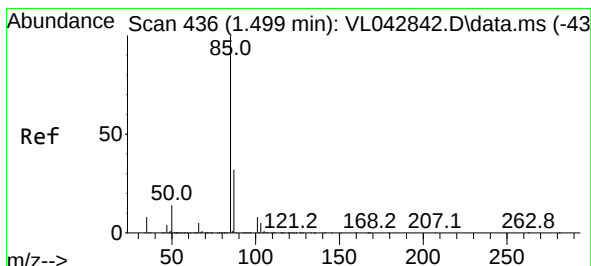
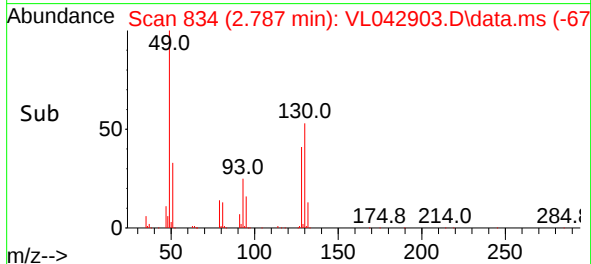
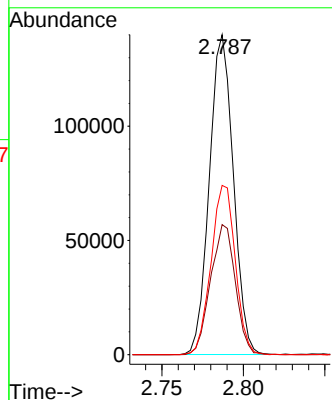
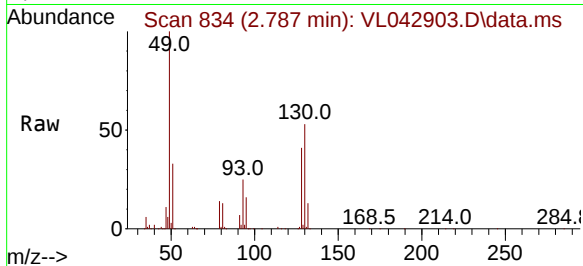




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.010 min
 Lab File: VL042903.D
 Acq: 08 Sep 2025 14:19

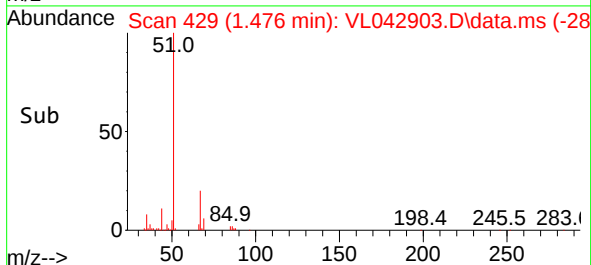
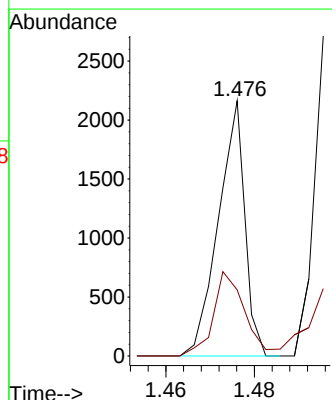
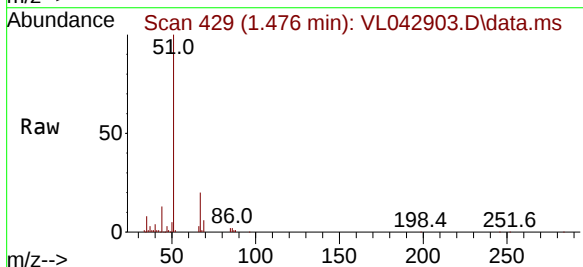
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 SV-1

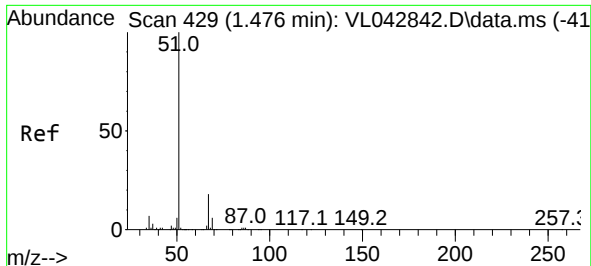
Tgt Ion: 49 Resp: 143276
 Ion Ratio Lower Upper
 49 100
 128 42.0 23.7 71.1
 130 53.6 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 0.043 ppbv
 RT: 1.476 min Scan# 429
 Delta R.T. -0.016 min
 Lab File: VL042903.D
 Acq: 08 Sep 2025 14:19

Tgt Ion: 85 Resp: 898
 Ion Ratio Lower Upper
 85 100
 87 25.9 25.3 37.9

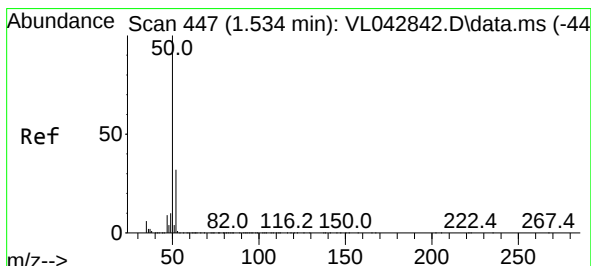
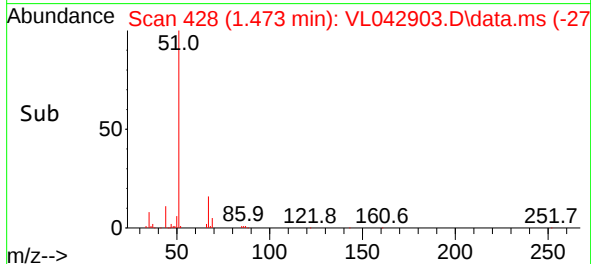
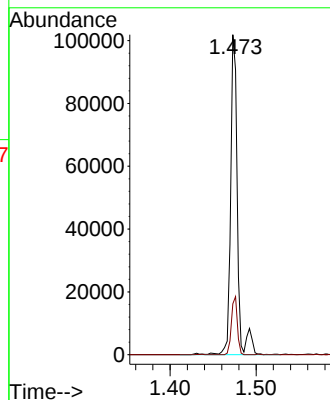
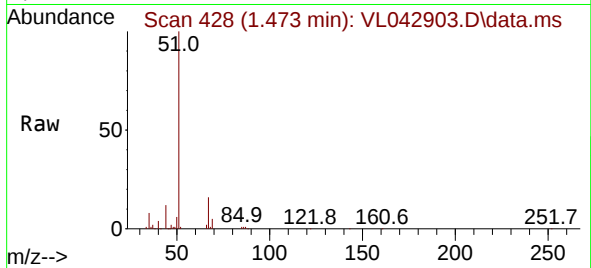




#3
Chlorodifluoromethane
Concen: 2.395 ppbv
RT: 1.473 min Scan# 429
Delta R.T. 0.003 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

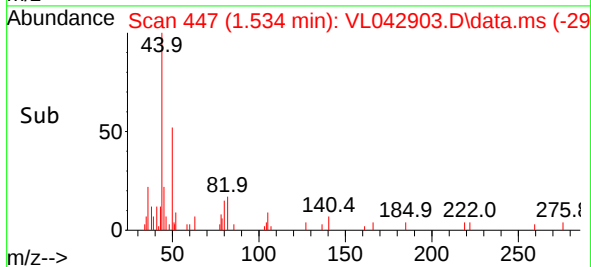
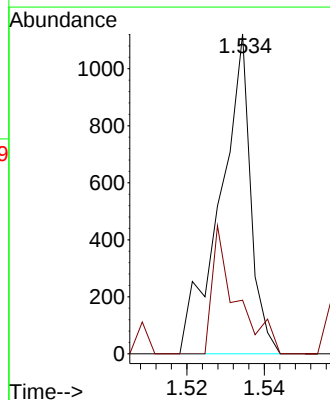
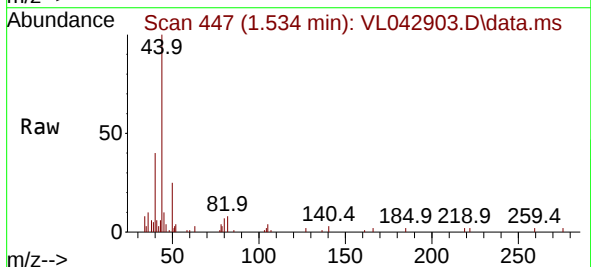
Instrument :
MSVOA_L
ClientSampleId :
SV-1

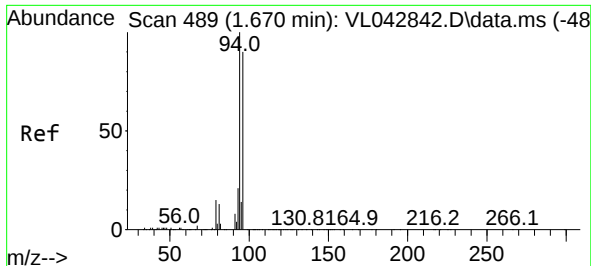
Tgt Ion: 51 Resp: 55582
Ion Ratio Lower Upper
51 100
67 15.8 14.9 22.3



#4
Chloromethane
Concen: 0.072 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.006 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

Tgt Ion: 50 Resp: 612
Ion Ratio Lower Upper
50 100
52 16.8 25.9 38.9#

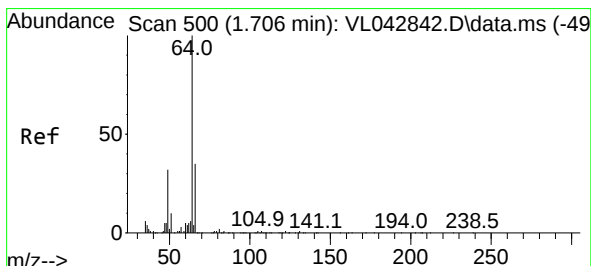
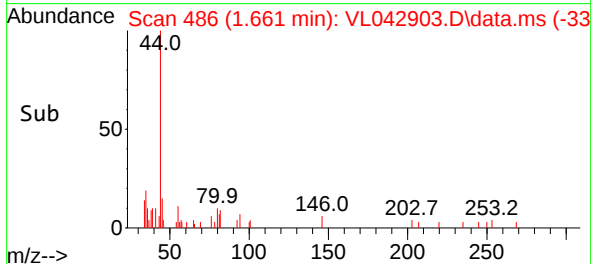
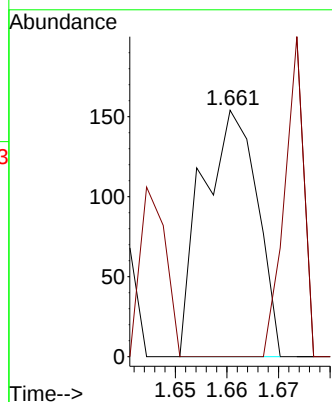
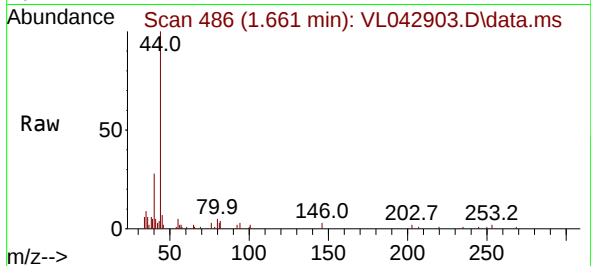




#6
 Bromomethane
 Concen: 0.034 ppbv
 RT: 1.661 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042903.D
 Acq: 08 Sep 2025 14:19

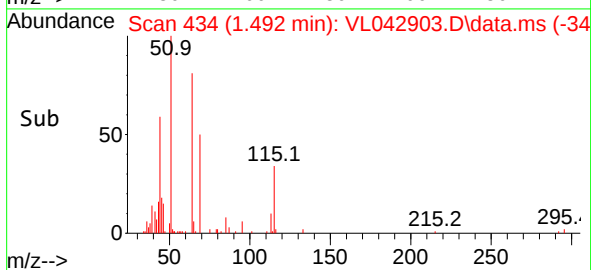
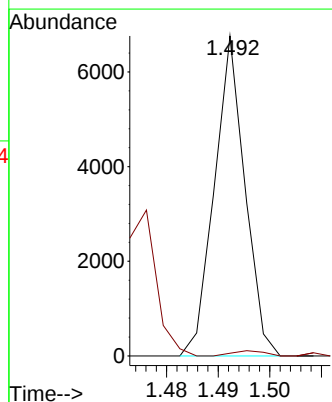
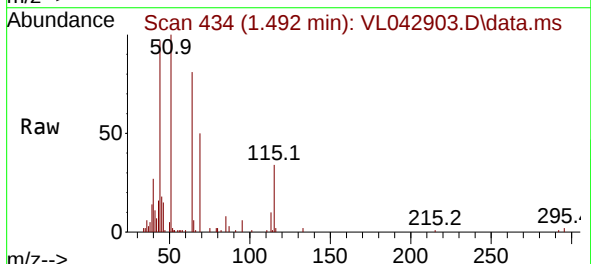
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

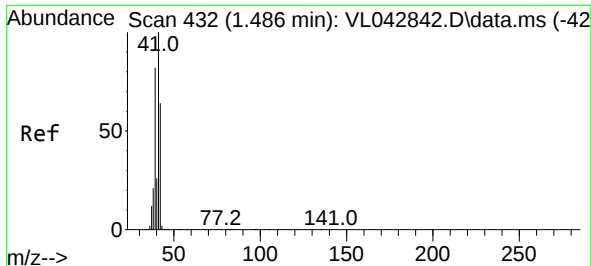
Tgt Ion: 94 Resp: 114
 Ion Ratio Lower Upper
 94 100
 96 0.0 72.1 108.1#



#7
 Chloroethane
 Concen: 0.854 ppbv
 RT: 1.492 min Scan# 434
 Delta R.T. -0.207 min
 Lab File: VL042903.D
 Acq: 08 Sep 2025 14:19

Tgt Ion: 64 Resp: 2782
 Ion Ratio Lower Upper
 64 100
 66 0.9 28.6 42.8#





#9

Propene

Concen: 0.491 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042903.D

Acq: 08 Sep 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

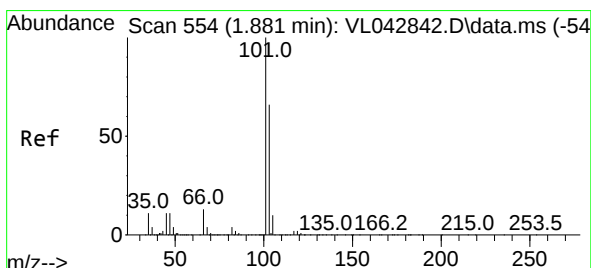
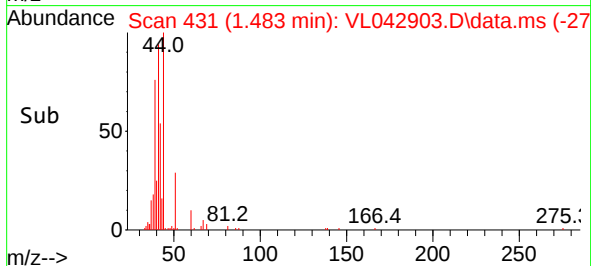
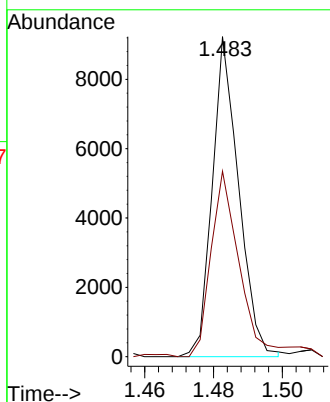
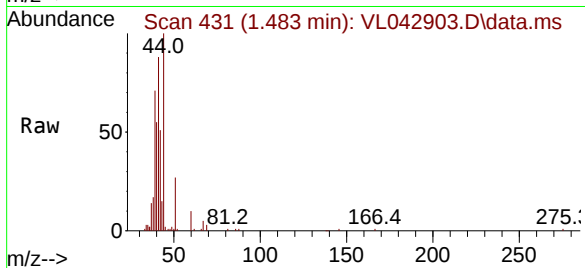
SV-1

Tgt Ion: 41 Resp: 4920

Ion Ratio Lower Upper

41 100

42 68.0 53.0 79.4



#11

Trichlorofluoromethane

Concen: 0.041 ppbv

RT: 1.877 min Scan# 553

Delta R.T. 0.006 min

Lab File: VL042903.D

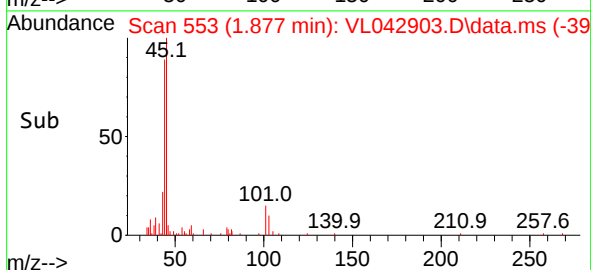
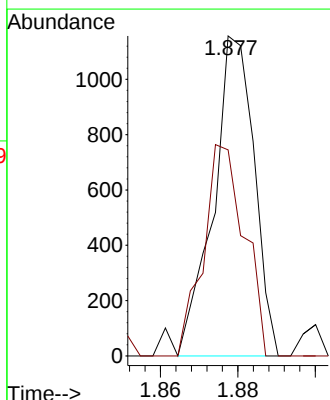
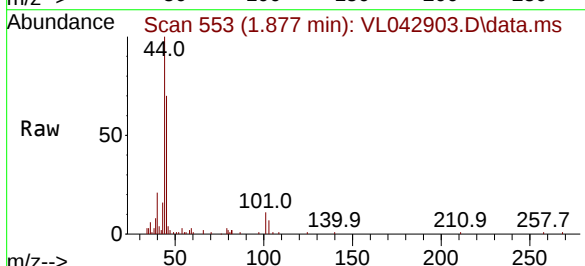
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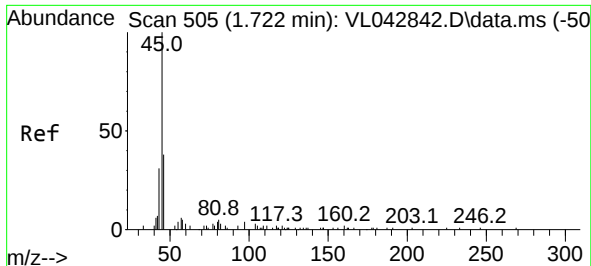
Tgt Ion: 101 Resp: 846

Ion Ratio Lower Upper

101 100

103 64.4 52.5 78.7

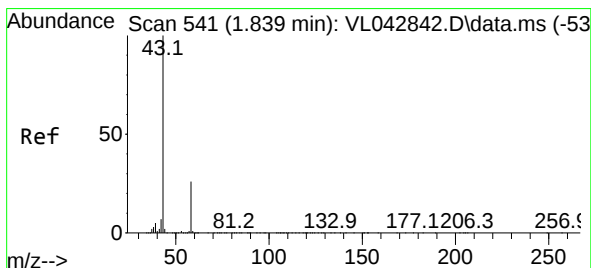
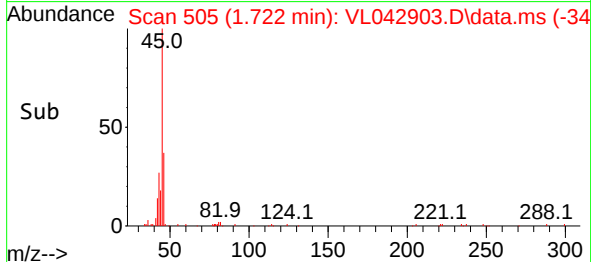
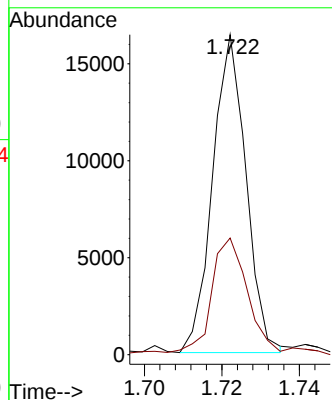
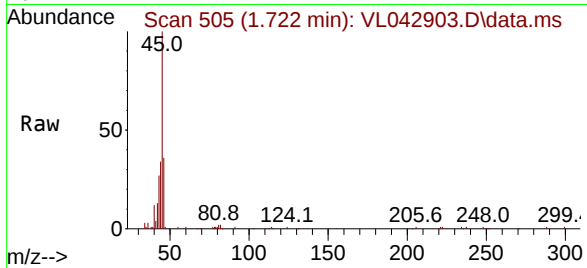




#13
Ethanol
Concen: 10.685 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

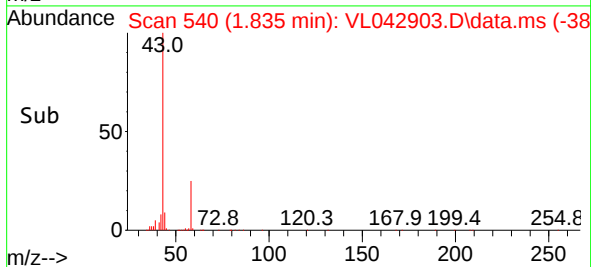
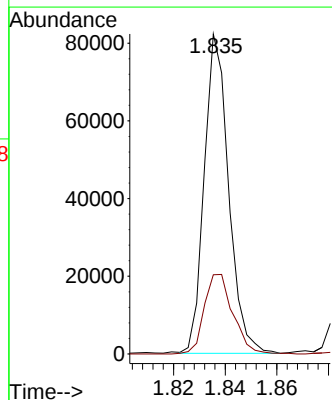
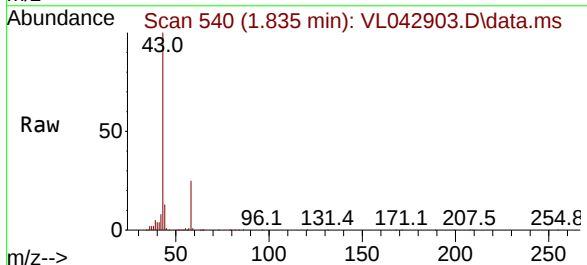
Instrument :
MSVOA_L
ClientSampleId :
SV-1

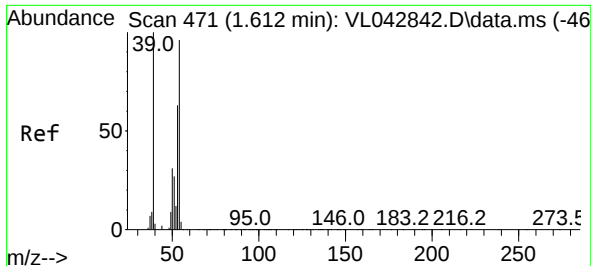
Tgt Ion: 45 Resp: 9793
Ion Ratio Lower Upper
45 100
46 0.0 17.5 69.9#



#15
Acetone
Concen: 2.846 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

Tgt Ion: 43 Resp: 53934
Ion Ratio Lower Upper
43 100
58 29.3 22.4 33.6

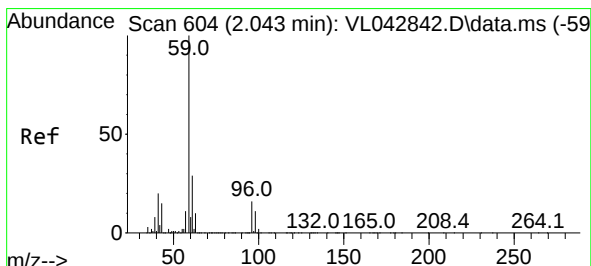
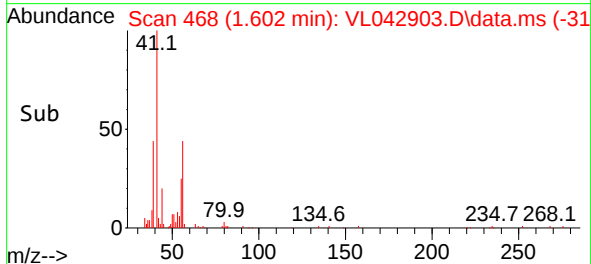
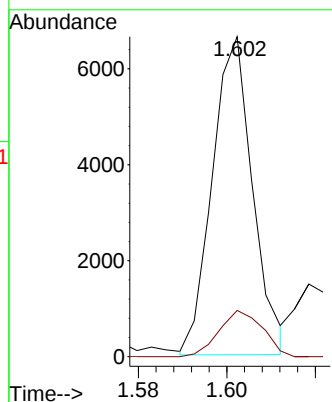
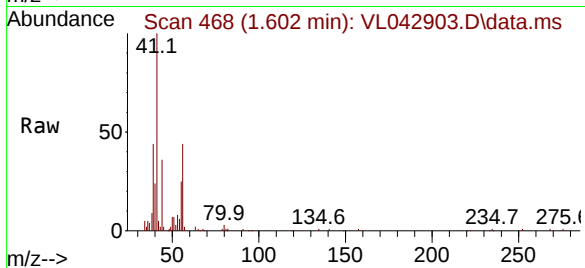




#16
1,3-Butadiene
Concen: 0.489 ppbv
RT: 1.602 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

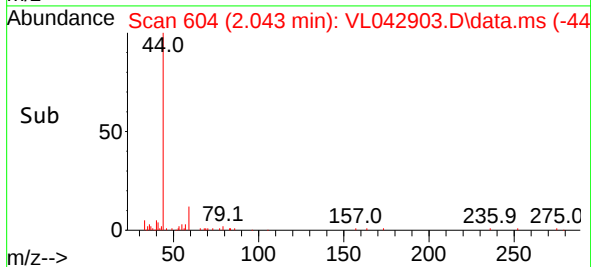
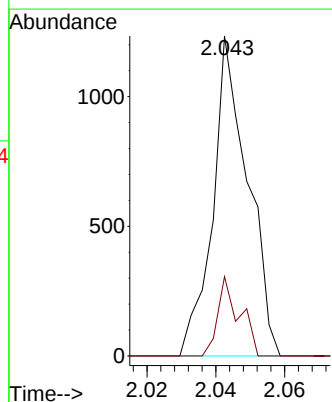
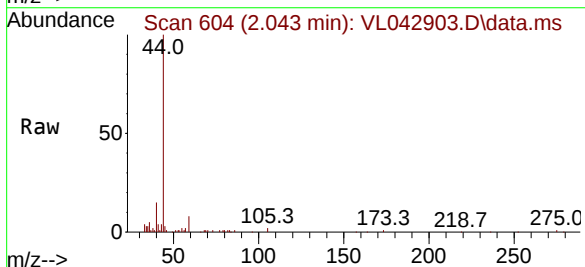
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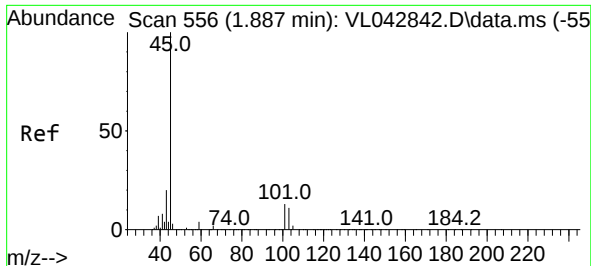
Tgt Ion: 39 Resp: 4204
Ion Ratio Lower Upper
39 100
54 15.7 63.6 95.4#



#17
tert-Butyl alcohol
Concen: 0.039 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.010 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

Tgt Ion: 59 Resp: 867
Ion Ratio Lower Upper
59 100
57 15.5 9.0 13.4#

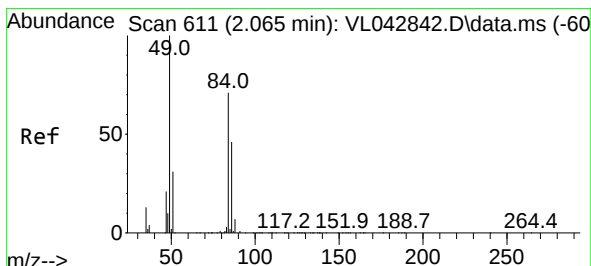
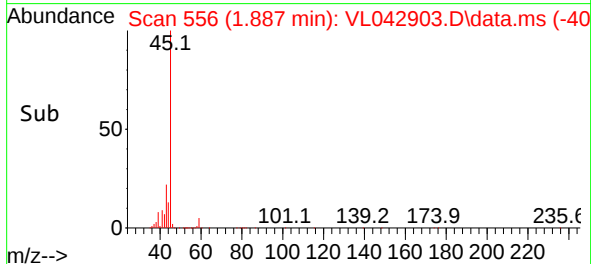
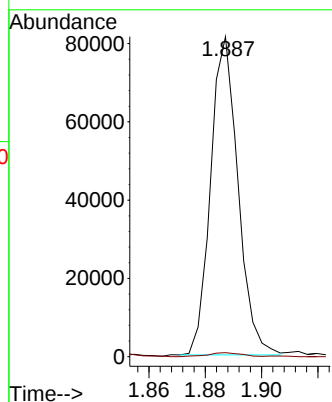
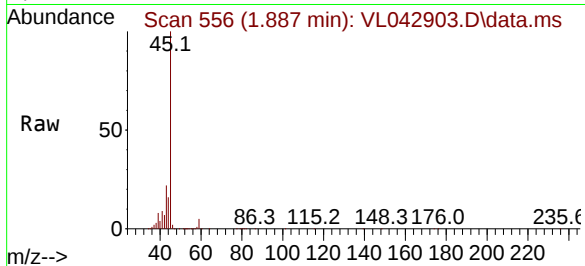




#19
Isopropyl Alcohol
Concen: 4.859 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

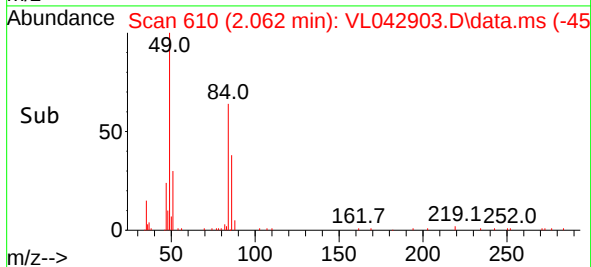
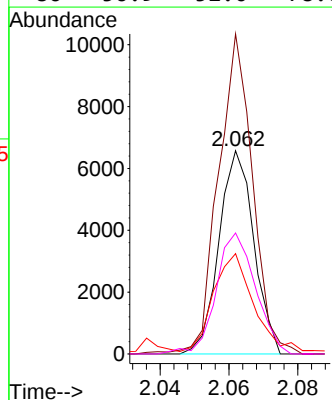
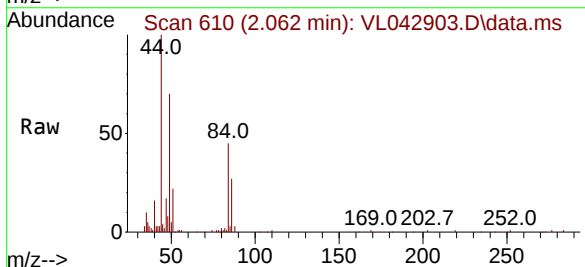
Instrument :
MSVOA_L
ClientSampleId :
SV-1

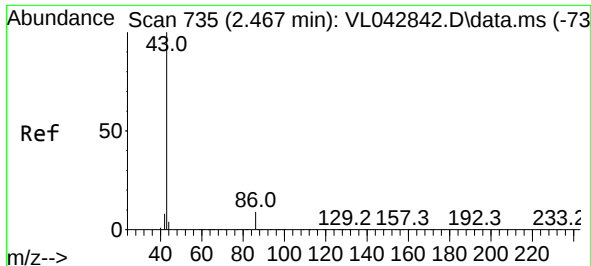
Tgt Ion: 45 Resp: 55005
Ion Ratio Lower Upper
45 100
58 1.7 32.7 49.1#



#20
Methylene Chloride
Concen: 0.583 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

Tgt Ion: 84 Resp: 4628
Ion Ratio Lower Upper
84 100
49 155.6 112.3 168.5
51 48.2 36.0 54.0
86 56.9 52.0 78.0

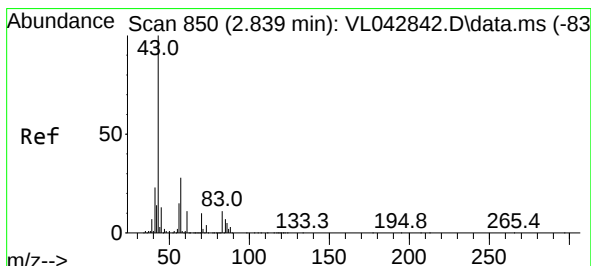
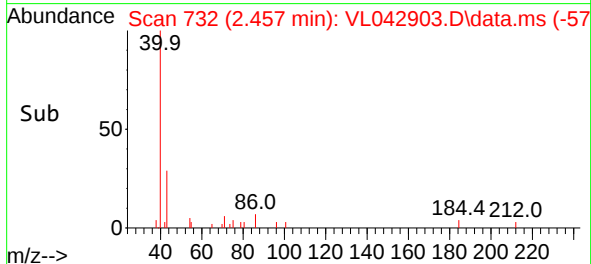
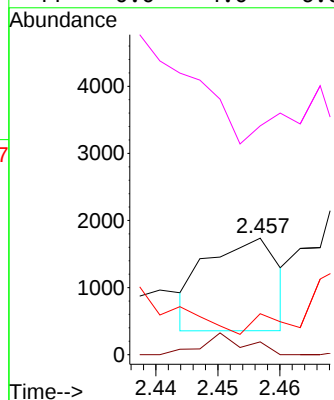
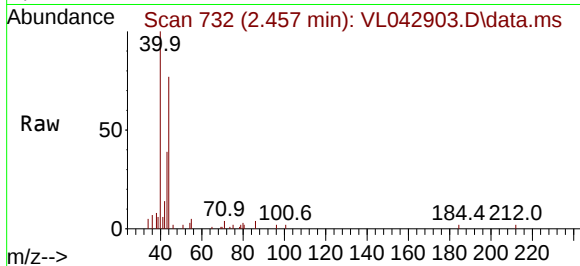




#23
 Vinyl Acetate
 Concen: 0.043 ppbv
 RT: 2.457 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042903.D
 Acq: 08 Sep 2025 14:19

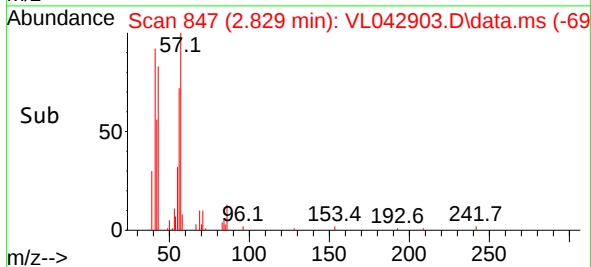
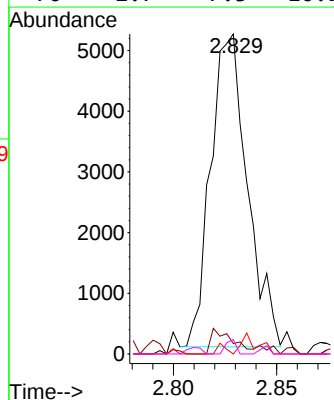
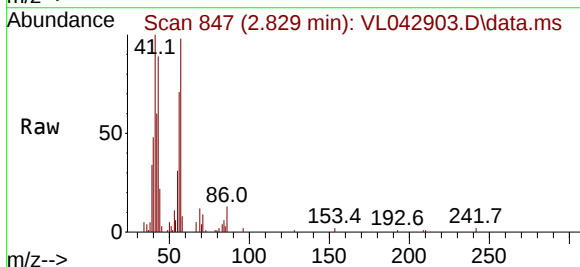
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

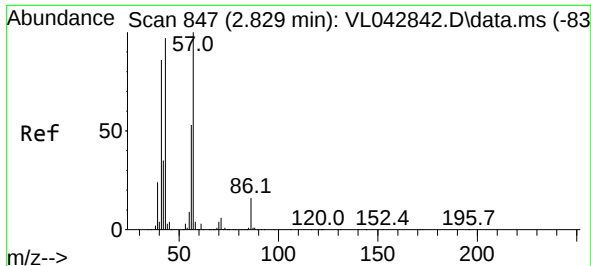
Tgt Ion: 43	Resp: 1112
Ion Ratio	Lower Upper
43 100	
86 23.6	6.6 9.8#
42 14.5	7.0 10.6#
44 0.0	4.0 6.0#



#25
 Ethyl Acetate
 Concen: 0.139 ppbv
 RT: 2.829 min Scan# 847
 Delta R.T. 0.003 min
 Lab File: VL042903.D
 Acq: 08 Sep 2025 14:19

Tgt Ion: 43	Resp: 6379
Ion Ratio	Lower Upper
43 100	
45 7.0	8.1 12.1#
61 2.8	7.4 11.2#
70 2.7	7.3 10.9#

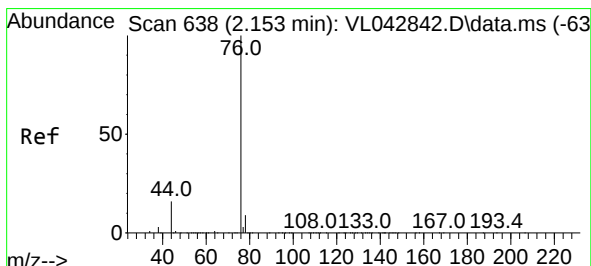
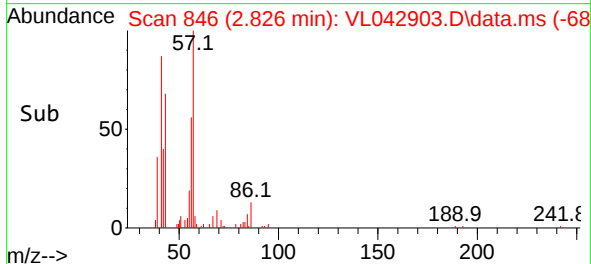
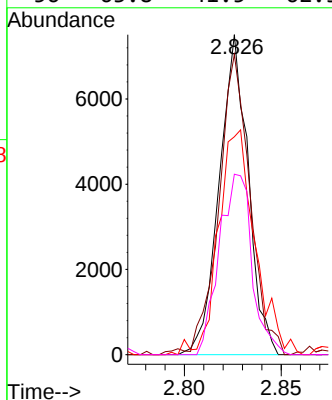
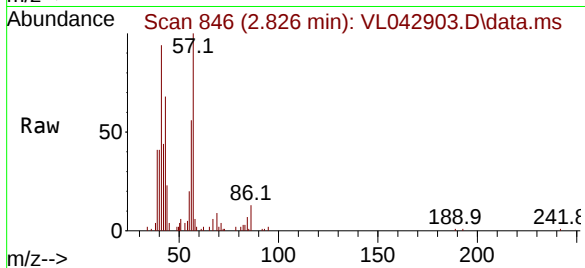




#26
Hexane
Concen: 0.370 ppbv
RT: 2.826 min Scan# 847
Delta R.T. 0.010 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

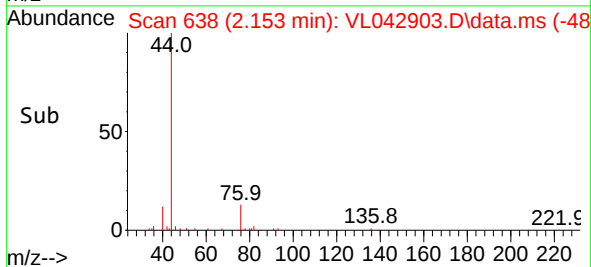
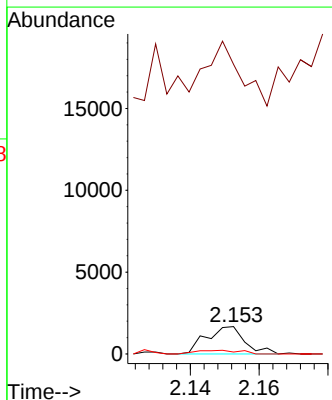
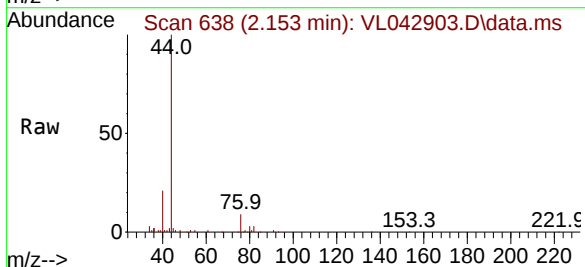
Instrument :
MSVOA_L
ClientSampleId :
SV-1

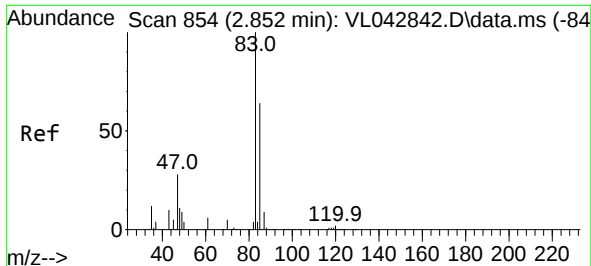
Tgt Ion: 57 Resp: 7824
Ion Ratio Lower Upper
57 100
41 102.4 68.6 103.0
43 90.7 168.5 252.7#
56 63.8 41.5 62.3#



#27
Carbon Disulfide
Concen: 0.063 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.010 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

Tgt Ion: 76 Resp: 1303
Ion Ratio Lower Upper
76 100
44 3164.5 15.9 23.9#
78 0.0 9.5 14.3#





#29

Chloroform

Concen: 0.042 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL042903.D

Acq: 08 Sep 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

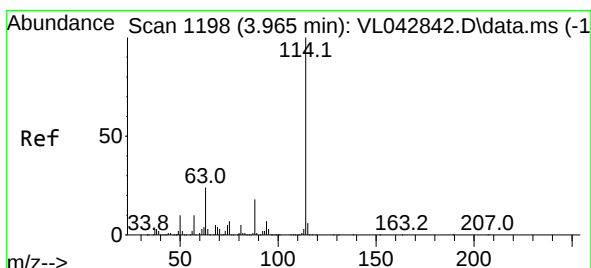
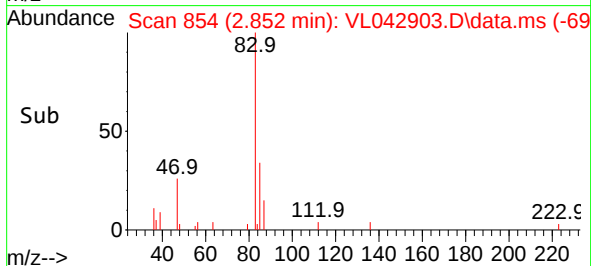
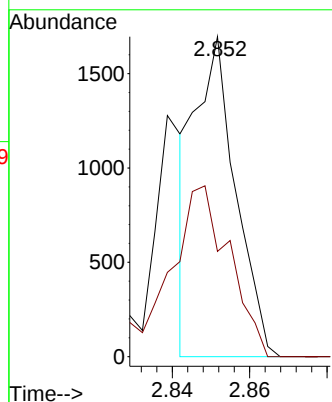
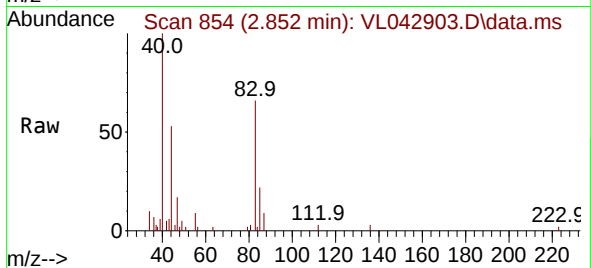
SV-1

Tgt Ion: 83 Resp: 1260

Ion Ratio Lower Upper

83 100

85 32.9 51.1 76.7#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.013 min

Lab File: VL042903.D

Acq: 08 Sep 2025 14:19

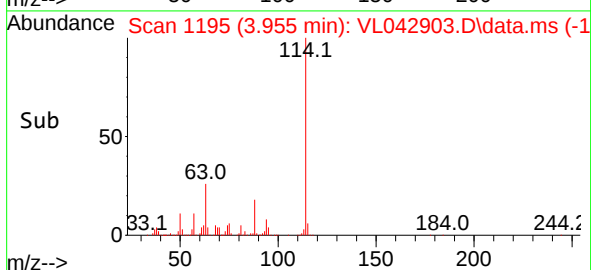
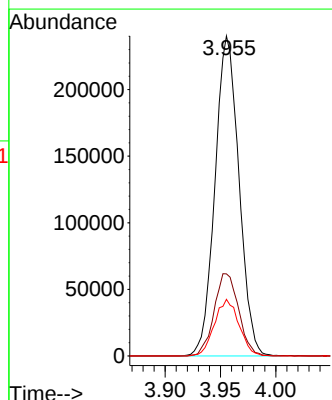
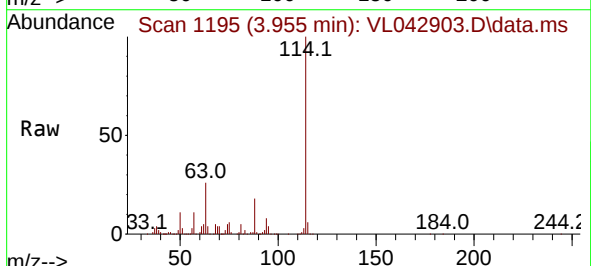
Tgt Ion: 114 Resp: 361706

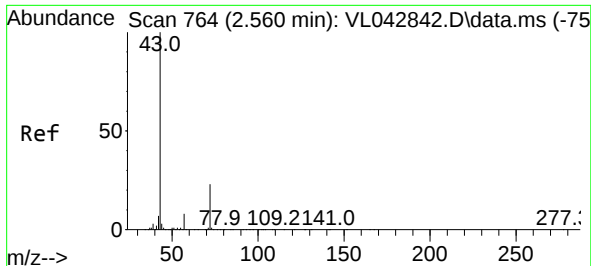
Ion Ratio Lower Upper

114 100

63 26.4 19.7 29.5

88 18.1 14.4 21.6

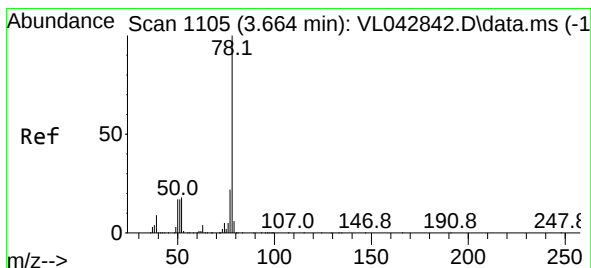
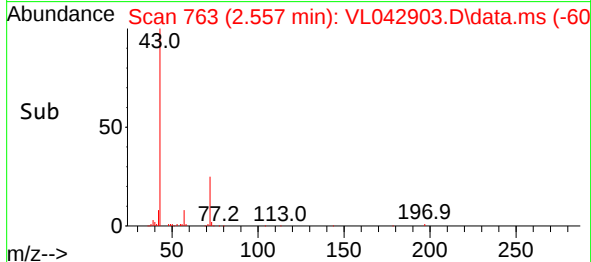
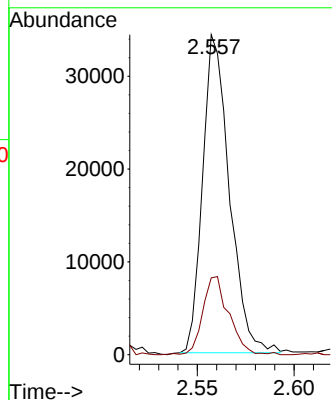
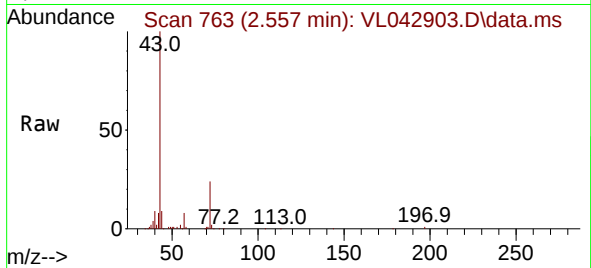




#34
2-Butanone
Concen: 1.354 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.010 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

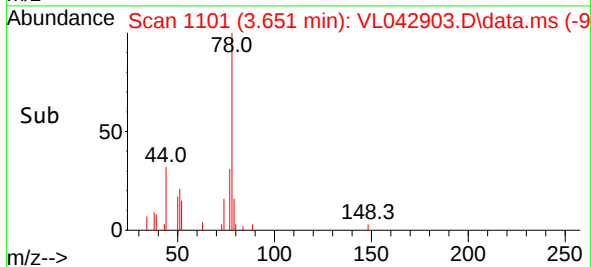
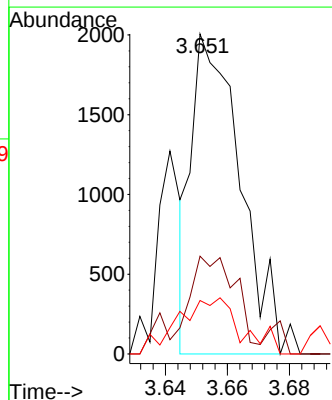
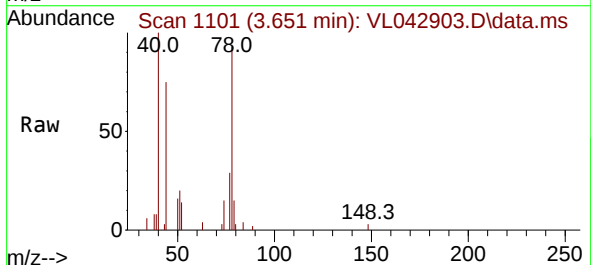
Instrument :
MSVOA_L
ClientSampleId :
SV-1

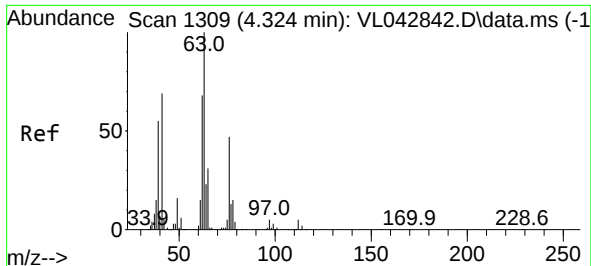
Tgt Ion: 43 Resp: 33068
Ion Ratio Lower Upper
43 100
72 24.2 18.6 28.0



#36
Benzene
Concen: 0.063 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.006 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

Tgt Ion: 78 Resp: 2167
Ion Ratio Lower Upper
78 100
77 22.4 17.7 26.5
50 16.7 13.9 20.9





#39

1,2-Dichloropropane

Concen: 7.543 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.346 min

Lab File: VL042903.D

Acq: 08 Sep 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

SV-1

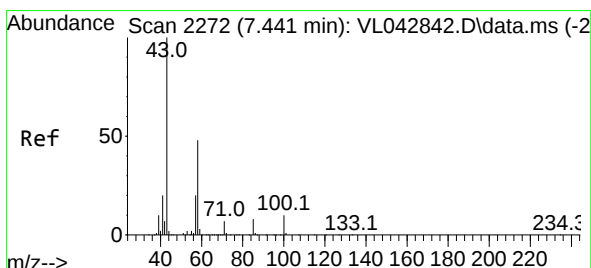
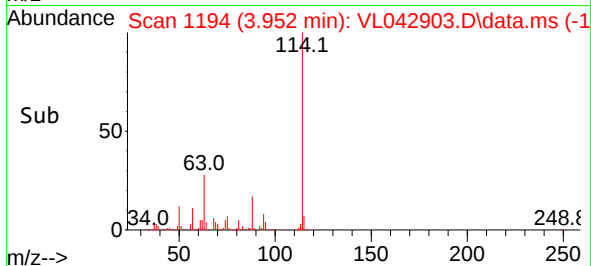
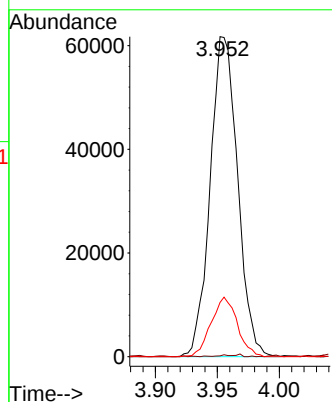
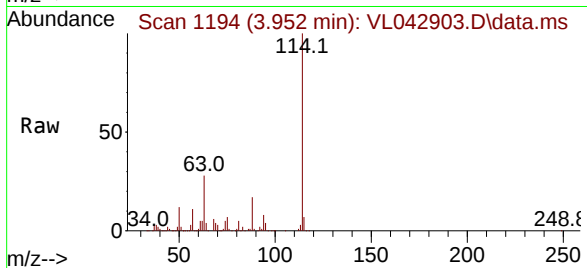
Tgt Ion: 63 Resp: 95422

Ion Ratio Lower Upper

63 100

41 0.4 55.0 82.4#

62 17.0 54.4 81.6#



#51

2-Hexanone

Concen: 0.050 ppbv

RT: 7.444 min Scan# 2273

Delta R.T. 0.026 min

Lab File: VL042903.D

Acq: 08 Sep 2025 14:19

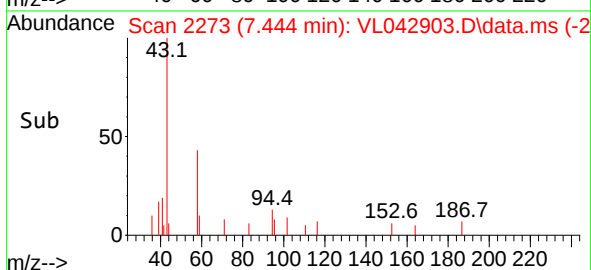
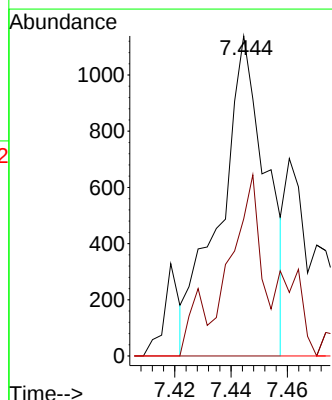
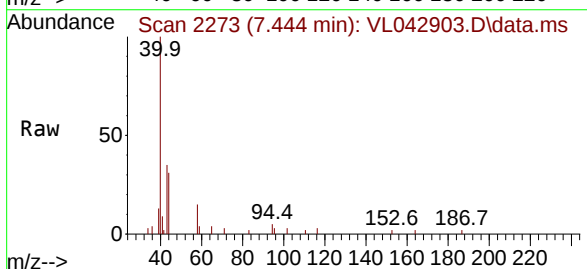
Tgt Ion: 43 Resp: 1305

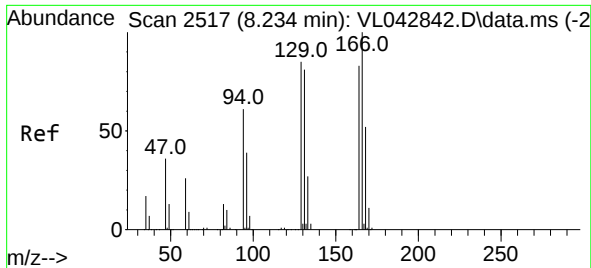
Ion Ratio Lower Upper

43 100

58 60.5 41.0 61.6

98 0.0 0.1 0.1#

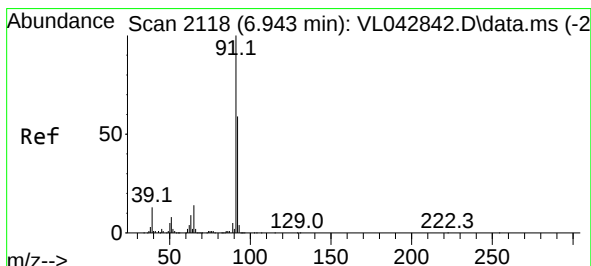
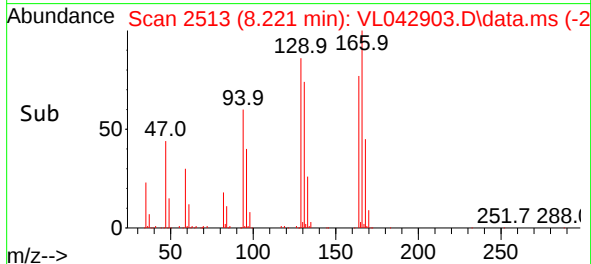
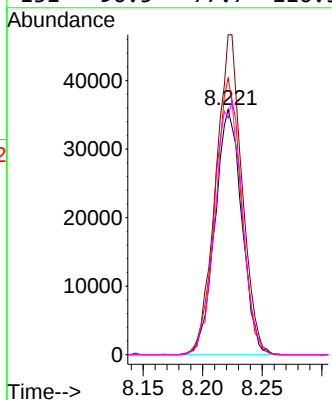
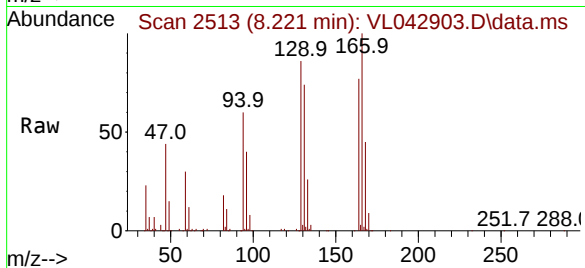




#52
Tetrachloroethene
Concen: 4.454 ppbv
RT: 8.221 min Scan# 2113
Delta R.T. 0.010 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

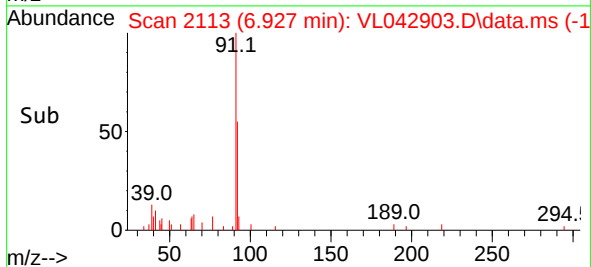
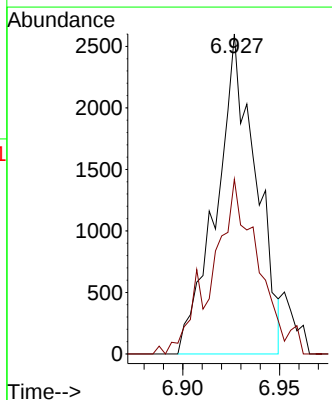
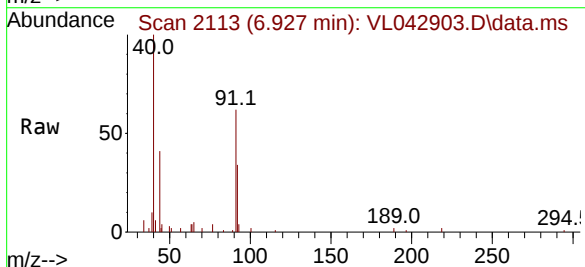
Instrument :
MSVOA_L
ClientSampleId :
SV-1

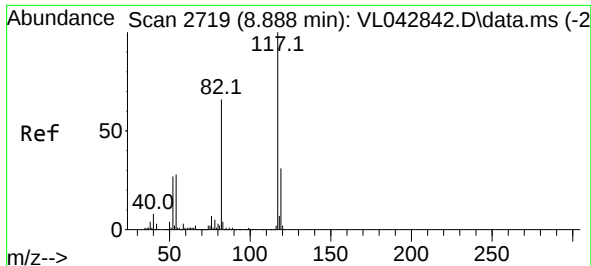
Tgt Ion:	164	Resp:	55805
Ion	Ratio	Lower	Upper
164	100		
166	130.4	96.5	144.7
129	112.8	81.8	122.6
131	96.5	77.7	116.5



#53
Toluene
Concen: 0.090 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

Tgt Ion:	91	Resp:	3692
Ion	Ratio	Lower	Upper
91	100		
92	63.2	47.8	71.6

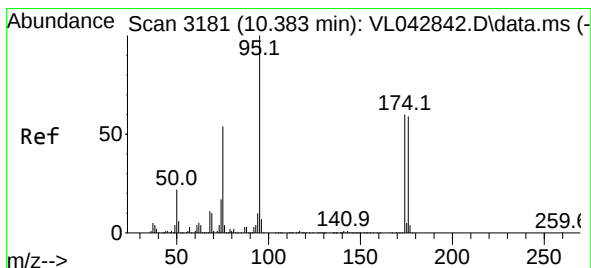
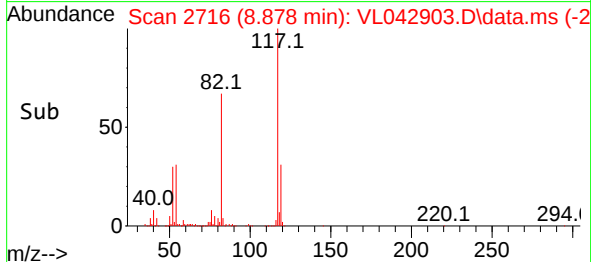
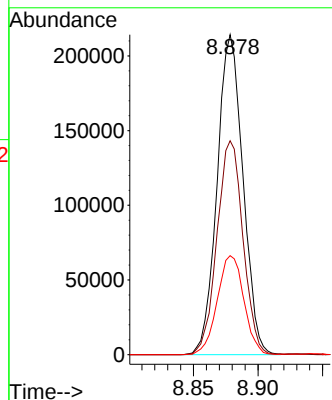
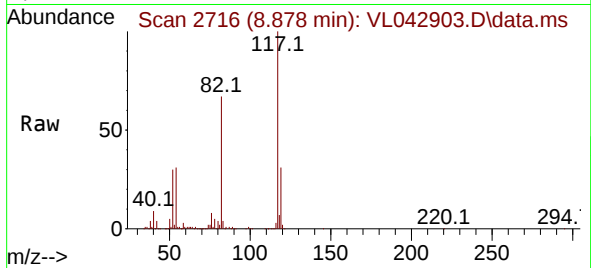




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

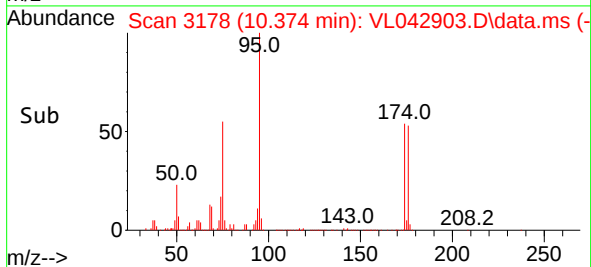
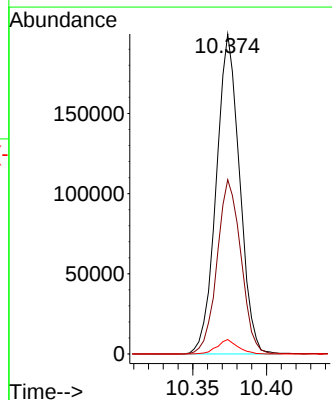
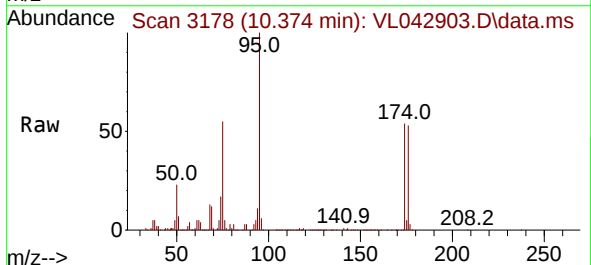
Instrument :
MSVOA_L
ClientSampleId :
SV-1

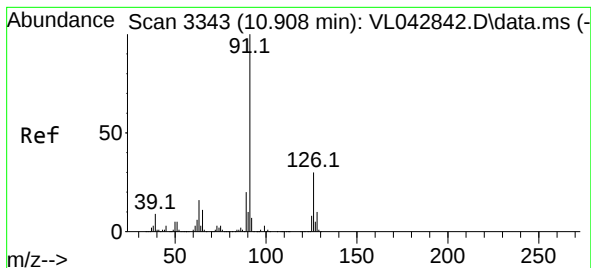
Tgt Ion:117 Resp: 297866
Ion Ratio Lower Upper
117 100
82 67.4 54.6 81.8
119 32.0 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.843 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

Tgt Ion: 95 Resp: 219883
Ion Ratio Lower Upper
95 100
174 55.7 48.4 72.6
175 4.0 3.8 5.8

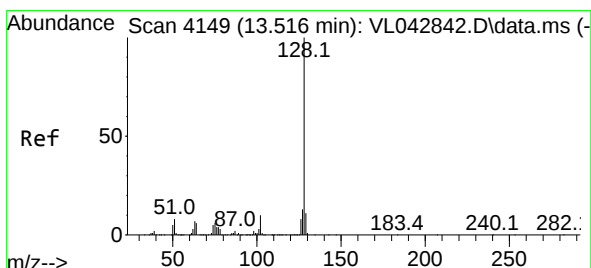
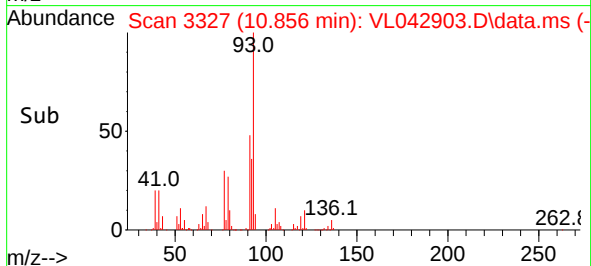
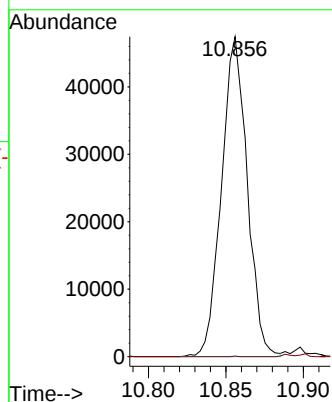
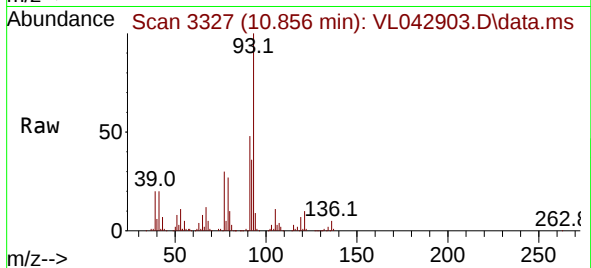




#71
2-Chlorotoluene
Concen: 1.165 ppbv
RT: 10.856 min Scan# 31
Delta R.T. -0.036 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 91 Resp: 54775
Ion Ratio Lower Upper
91 100
126 0.5 12.0 47.8#



#79
Naphthalene
Concen: 0.033 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.010 min
Lab File: VL042903.D
Acq: 08 Sep 2025 14:19

Tgt Ion: 128 Resp: 1391
Ion Ratio Lower Upper
128 100
127 11.1 10.6 16.0
129 6.8 8.9 13.3#

