

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043253.D
 Acq On : 19 Nov 2025 23:12
 Operator : SY/MD
 Sample : Q3626-11DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 15-SG-1DL

Quant Time: Nov 20 00:13:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

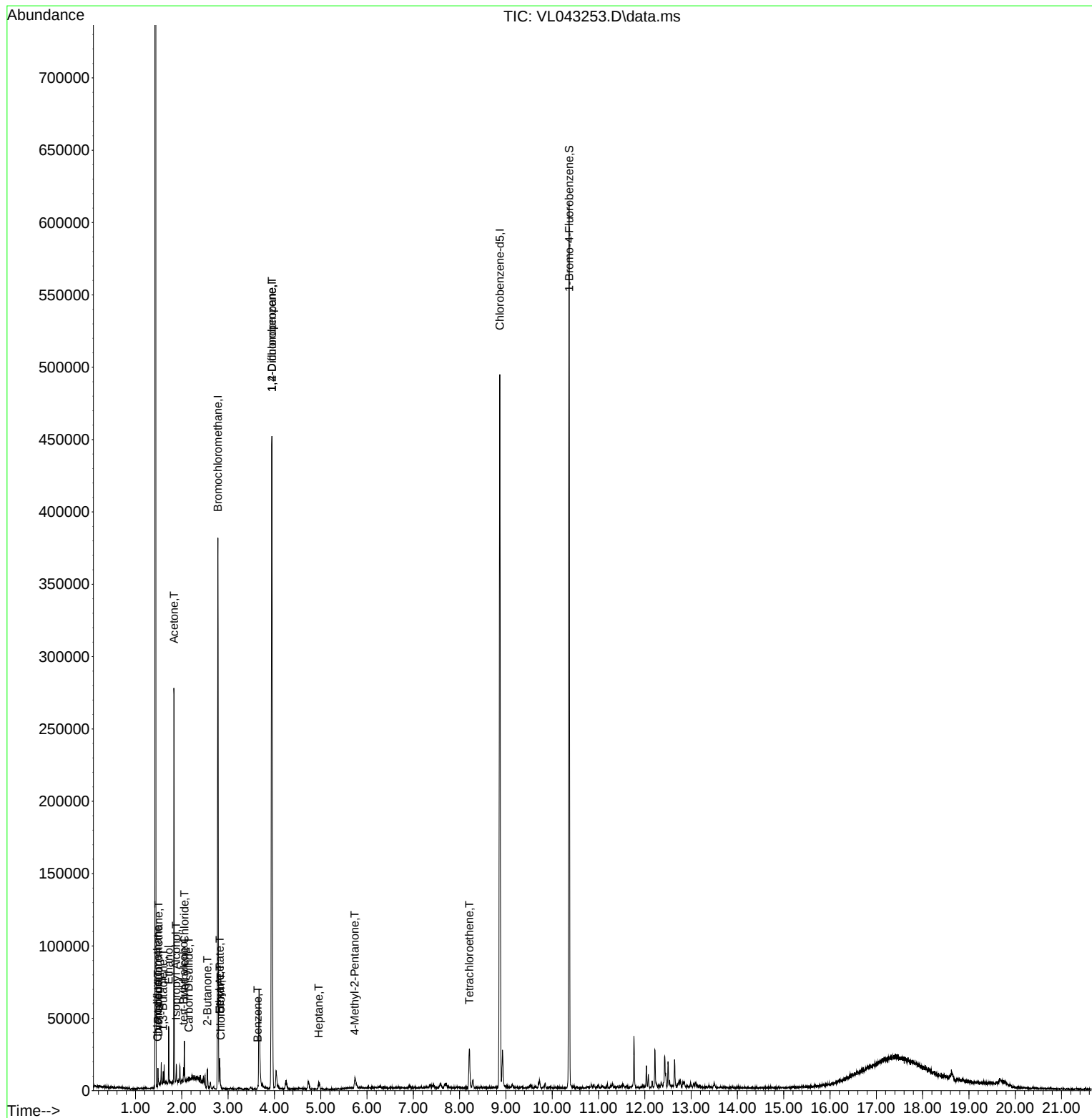
Internal Standards						
1) Bromochloromethane	2.777	49	97568	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	261435	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	198573	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	142507	9.791	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	635	0.046	ppbv	89
3) Chlorodifluoromethane	1.476	51	579	0.043	ppbv #	71
9) Propene	1.486	41	1412	0.246	ppbv #	1
10) Heptane	4.959	43	1160	0.068	ppbv #	34
13) Ethanol	1.719	45	14283	7.068	ppbv	99
15) Acetone	1.829	43	118278	8.725	ppbv	99
16) 1,3-Butadiene	1.596	39	879	0.145	ppbv #	36
17) tert-Butyl alcohol	2.039	59	3488	0.196	ppbv	95
19) Isopropyl Alcohol	1.881	45	5404	0.706	ppbv #	1
20) Methylene Chloride	2.059	84	4098	0.262	ppbv #	77
25) Ethyl Acetate	2.819	43	3403	0.116	ppbv #	75
26) Hexane	2.819	57	4125	0.322	ppbv #	43
27) Carbon Disulfide	2.149	76	889	0.068	ppbv #	1
29) Chloroform	2.839	83	674	0.037	ppbv #	78
34) 2-Butanone	2.551	43	8708	0.472	ppbv #	90
36) Benzene	3.642	78	770	0.031	ppbv #	76
39) 1,2-Dichloropropane	3.946	63	66945	7.306	ppbv #	26
50) 4-Methyl-2-Pentanone	5.736	43	2173	0.084	ppbv #	1
52) Tetrachloroethene	8.212	164	3777	0.406	ppbv	93

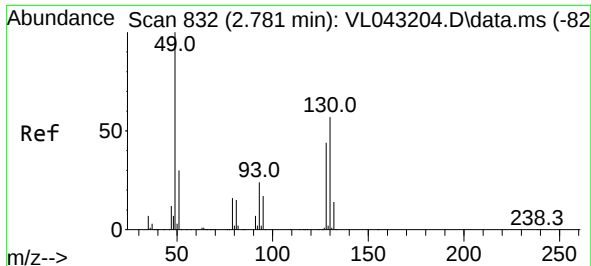
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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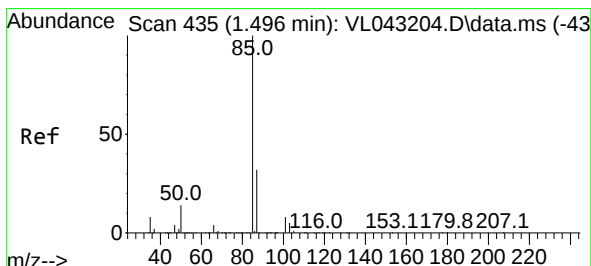
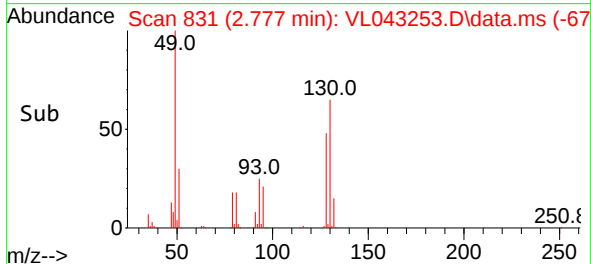
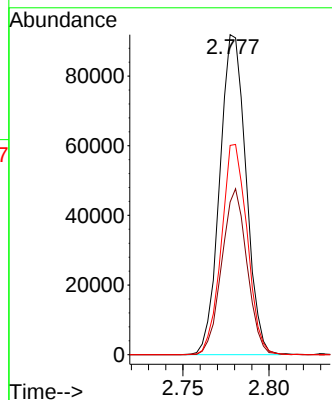
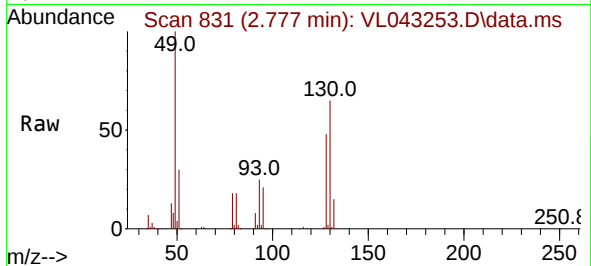




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

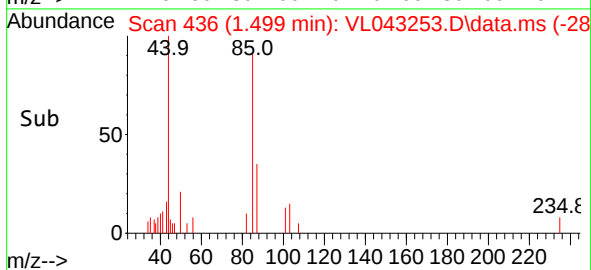
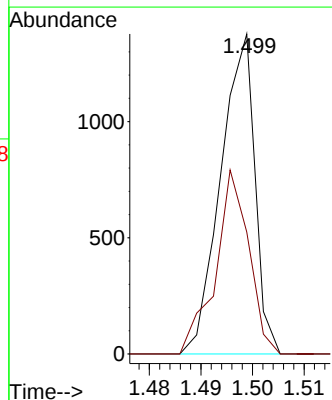
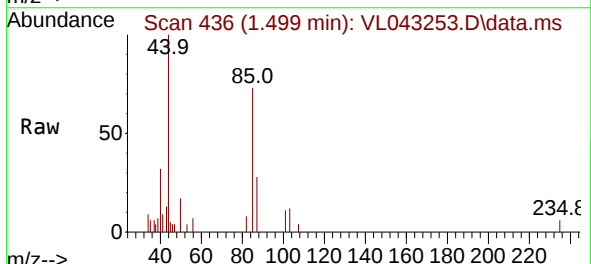
Instrument :
MSVOA_L
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15-SG-1DL

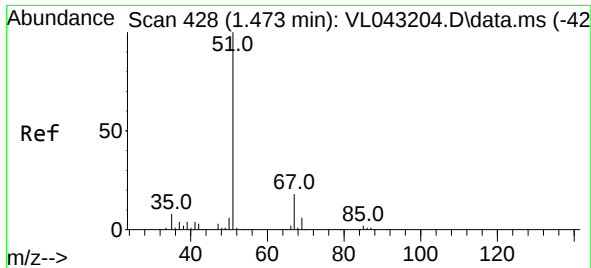
Tgt Ion: 49 Resp: 97568
Ion Ratio Lower Upper
49 100
128 49.8 23.0 69.0
130 64.6 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.046 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 85 Resp: 635
Ion Ratio Lower Upper
85 100
87 38.1 25.4 38.2

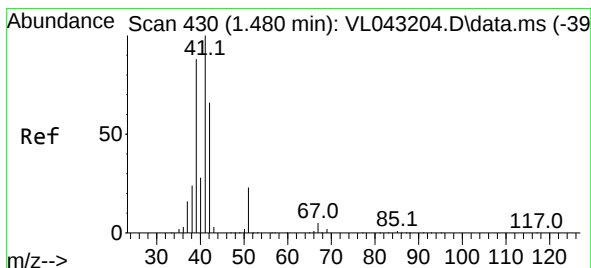
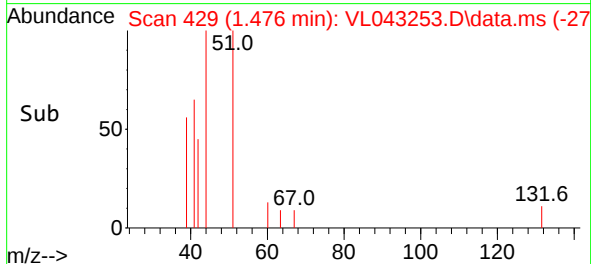
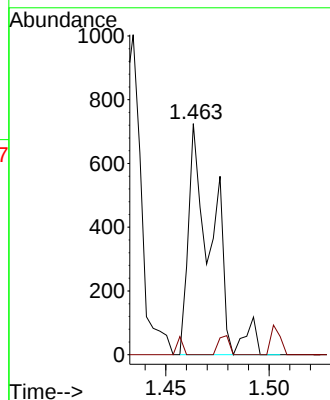
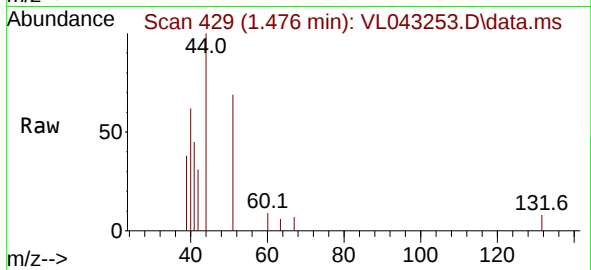




#3
Chlorodifluoromethane
Concen: 0.043 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

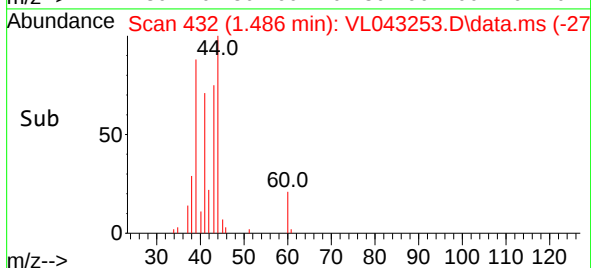
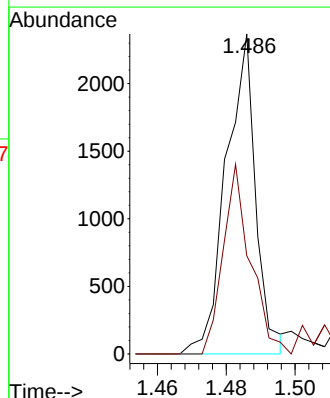
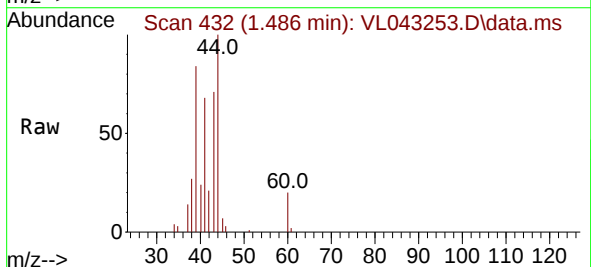
Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

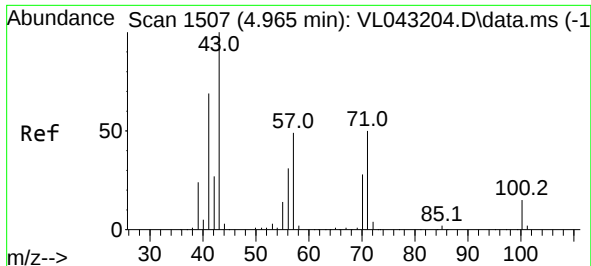
Tgt Ion: 51 Resp: 579
Ion Ratio Lower Upper
51 100
67 5.7 14.9 22.3#



#9
Propene
Concen: 0.246 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.006 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 41 Resp: 1412
Ion Ratio Lower Upper
41 100
42 70.8 3.7 5.5#

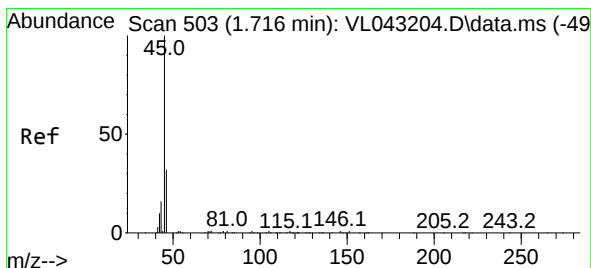
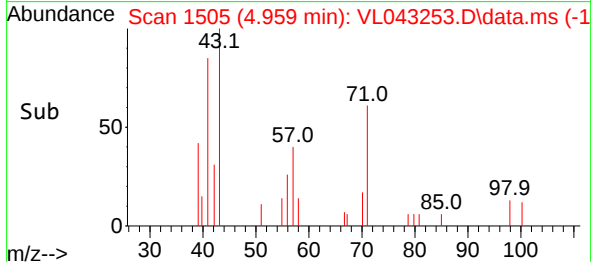
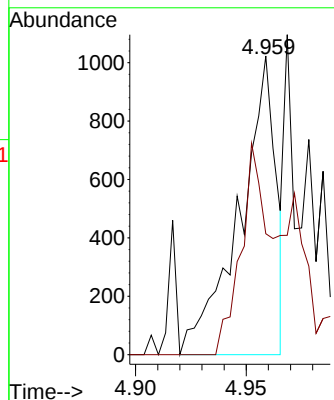
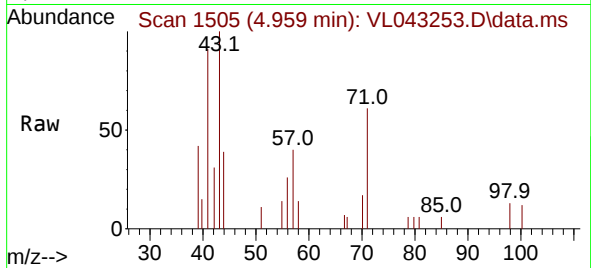




#10
Heptane
Concen: 0.068 ppbv
RT: 4.959 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

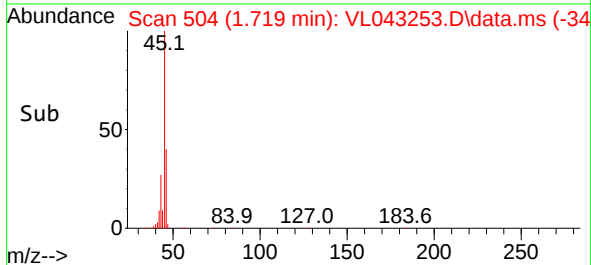
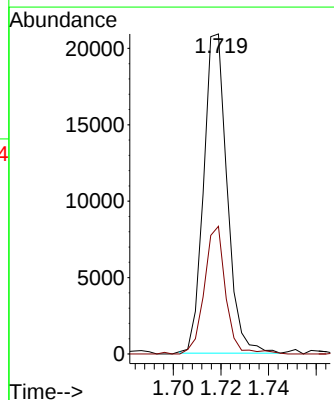
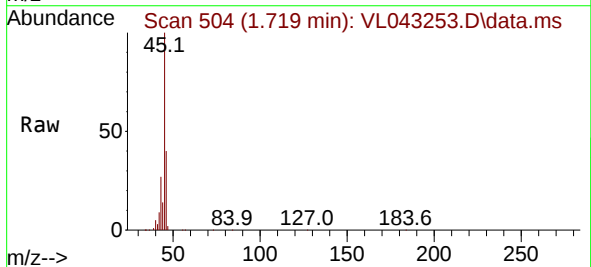
Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

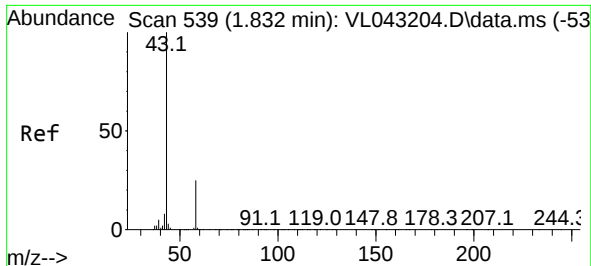
Tgt Ion: 43 Resp: 1160
Ion Ratio Lower Upper
43 100
57 94.6 39.7 59.5#



#13
Ethanol
Concen: 7.068 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 45 Resp: 14283
Ion Ratio Lower Upper
45 100
46 36.6 15.0 59.8

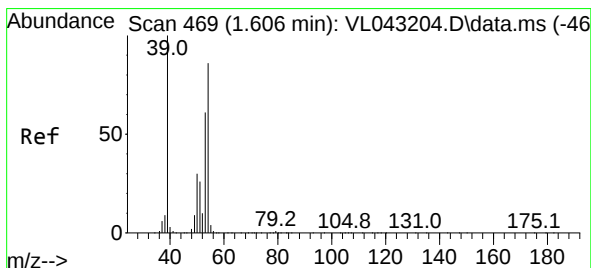
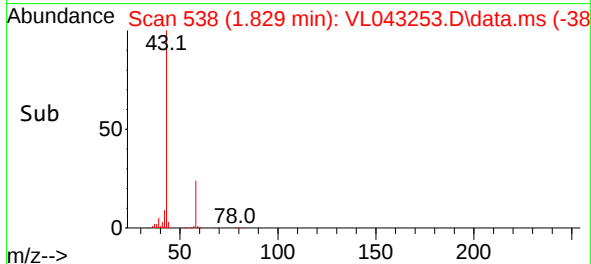
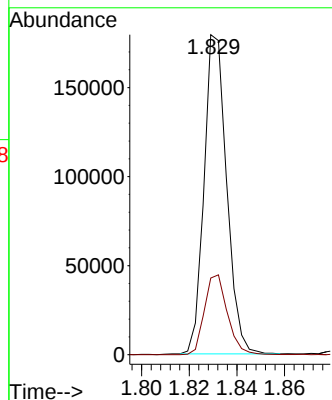
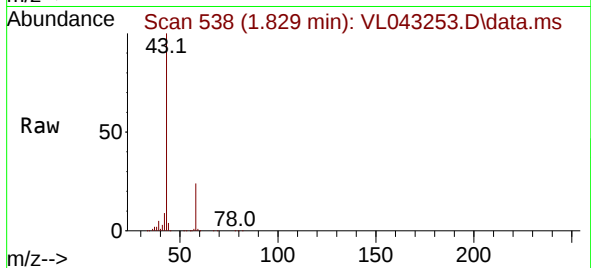




#15
Acetone
Concen: 8.725 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

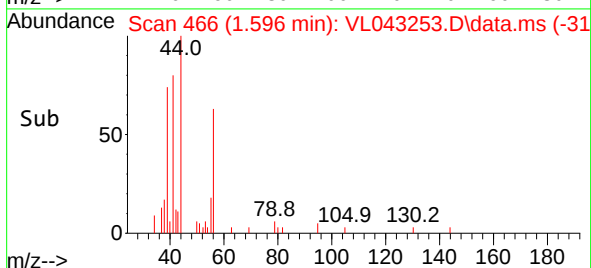
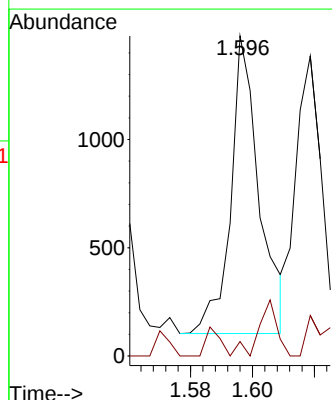
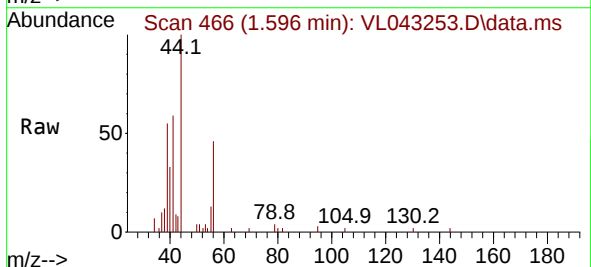
Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

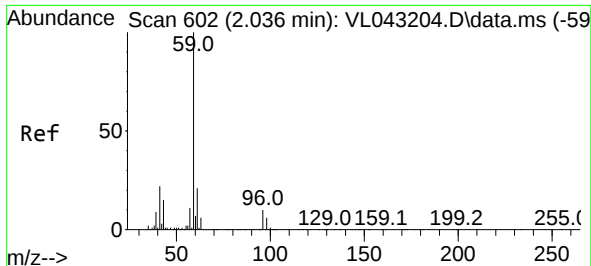
Tgt Ion: 43 Resp: 118278
Ion Ratio Lower Upper
43 100
58 25.5 20.7 31.1



#16
1,3-Butadiene
Concen: 0.145 ppbv
RT: 1.596 min Scan# 466
Delta R.T. -0.010 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 39 Resp: 879
Ion Ratio Lower Upper
39 100
54 19.9 59.4 89.2#





#17

tert-Butyl alcohol

Concen: 0.196 ppbv

RT: 2.039 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL043253.D

Acq: 19 Nov 2025 23:12

Instrument :

MSVOA_L

ClientSampleId :

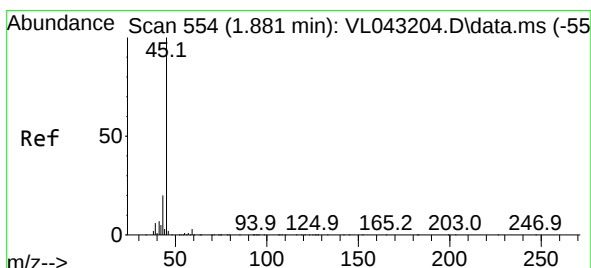
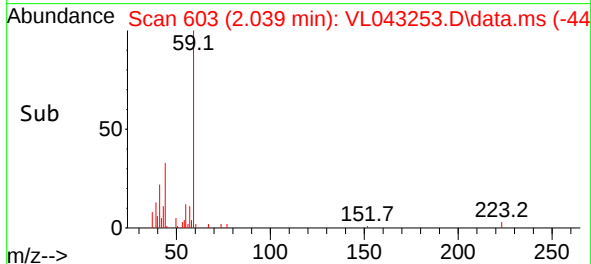
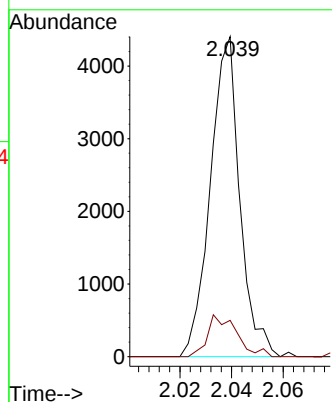
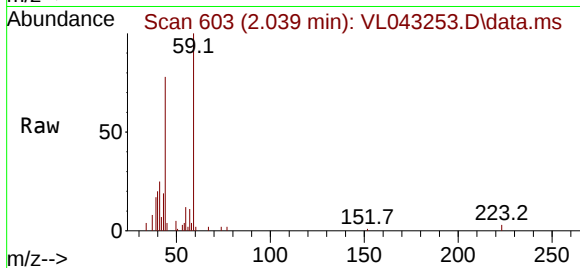
15-SG-1DL

Tgt Ion: 59 Resp: 3488

Ion Ratio Lower Upper

59 100

57 13.0 9.0 13.4



#19

Isopropyl Alcohol

Concen: 0.706 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL043253.D

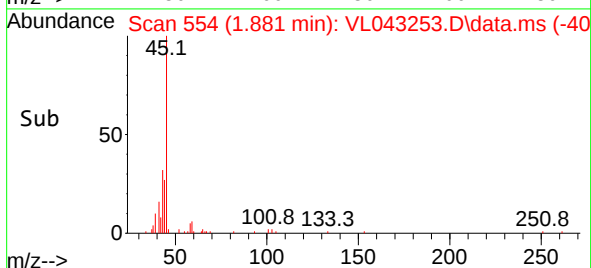
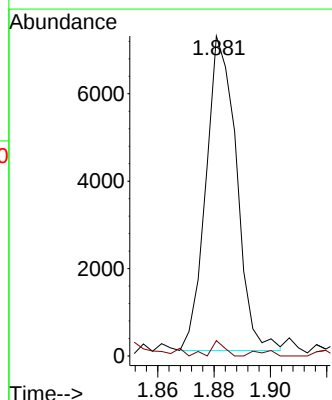
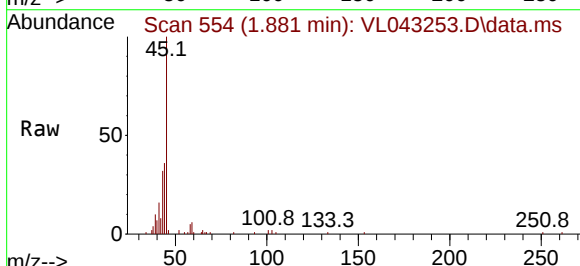
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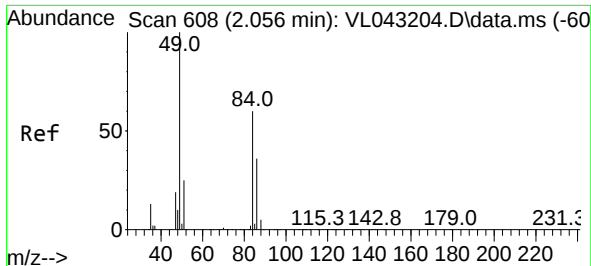
Tgt Ion: 45 Resp: 5404

Ion Ratio Lower Upper

45 100

58 557.6 31.3 46.9#

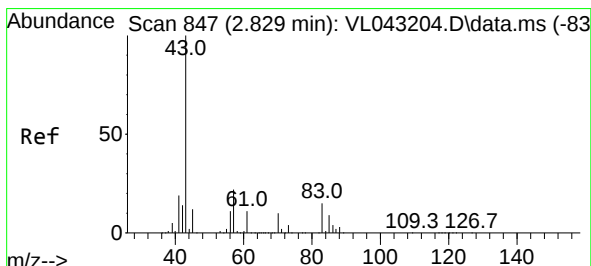
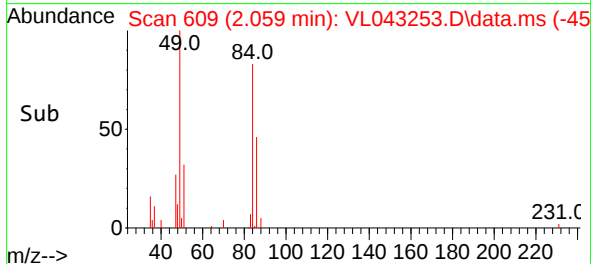
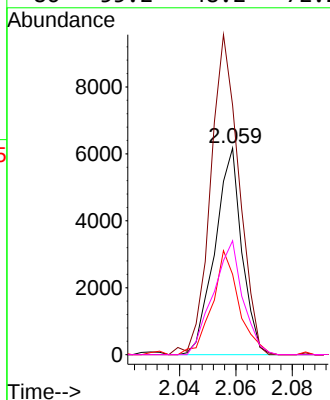
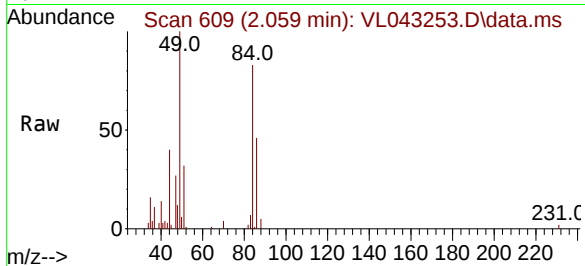




#20
Methylene Chloride
Concen: 0.262 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

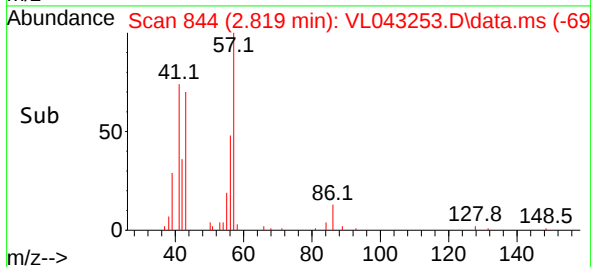
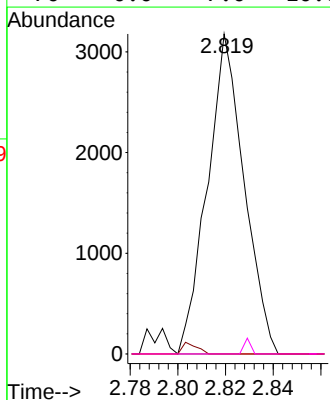
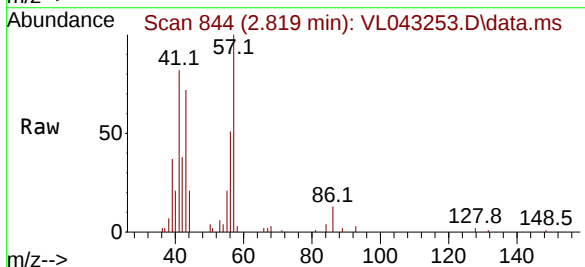
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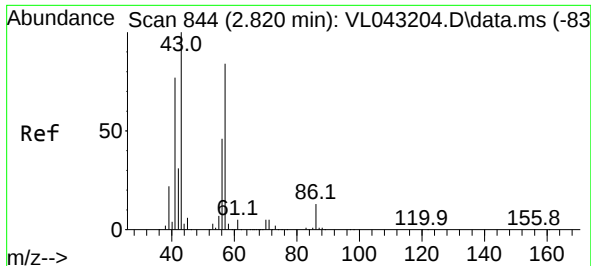
Tgt Ion: 84 Resp: 4098
Ion Ratio Lower Upper
84 100
49 120.8 132.9 199.3#
51 38.9 34.8 52.2
86 55.2 48.2 72.2



#25
Ethyl Acetate
Concen: 0.116 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.010 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 43 Resp: 3403
Ion Ratio Lower Upper
43 100
45 0.0 8.1 12.1#
61 0.0 7.0 10.4#
70 0.0 7.0 10.6#

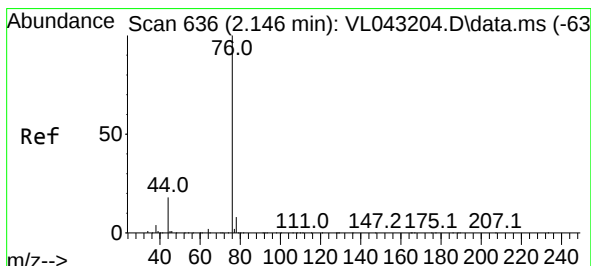
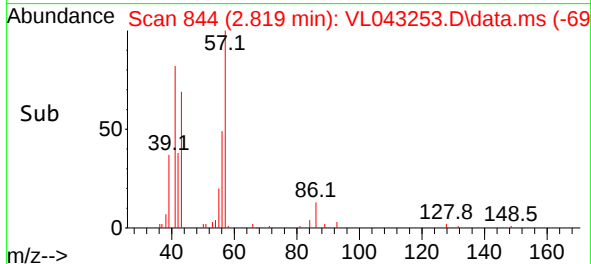
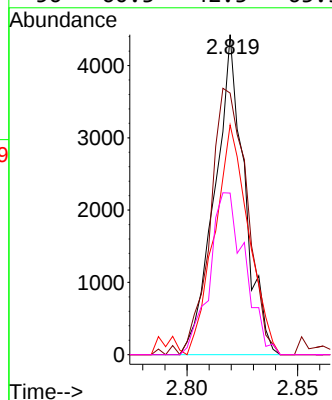
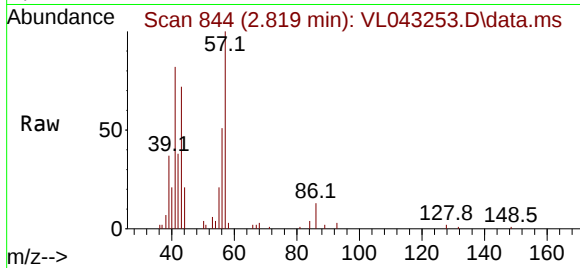




#26
Hexane
Concen: 0.322 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

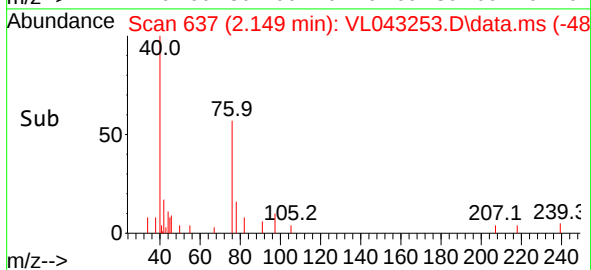
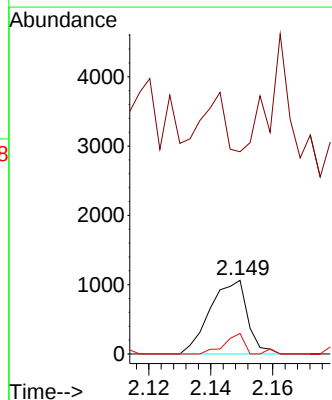
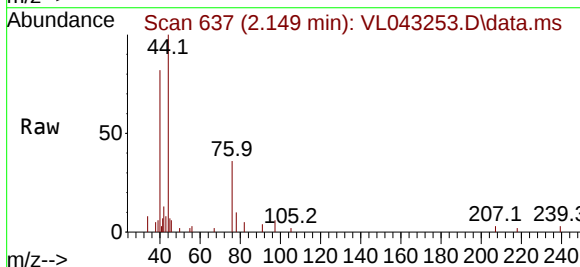
Instrument :
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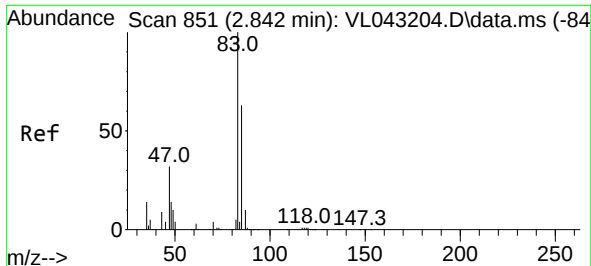
Tgt Ion: 57	Resp: 4125
Ion Ratio	Lower Upper
57 100	
41 107.6	74.6 111.8
43 85.7	179.0 268.4#
56 60.3	42.3 63.5



#27
Carbon Disulfide
Concen: 0.068 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 76	Resp: 889		
Ion Ratio	Lower	Upper	
76 100			
44 891.0	16.1	24.1#	
78 16.0	9.6	14.4#	





#29

Chloroform

Concen: 0.037 ppbv

RT: 2.839 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL043253.D

Acq: 19 Nov 2025 23:12

Instrument :

MSVOA_L

ClientSampleId :

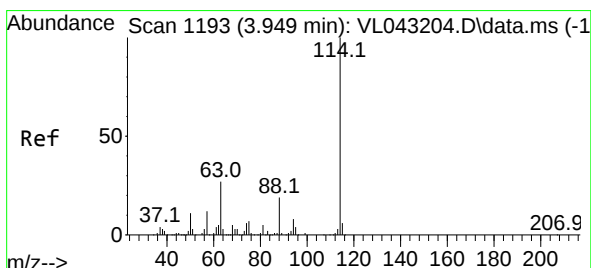
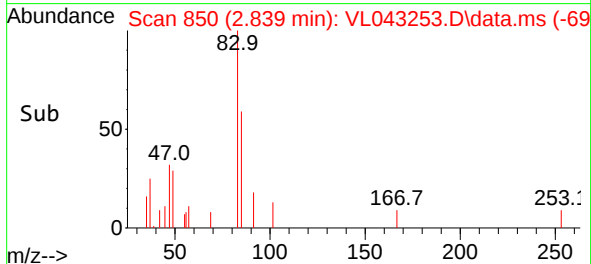
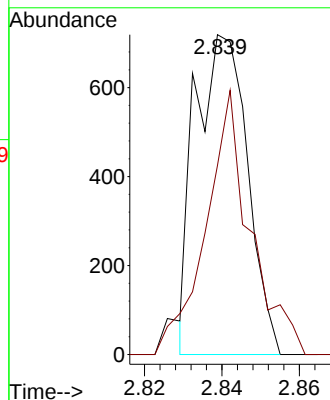
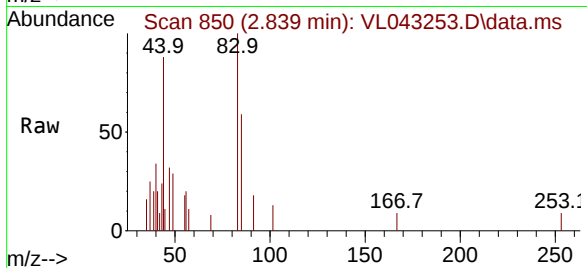
15-SG-1DL

Tgt Ion: 83 Resp: 674

Ion Ratio Lower Upper

83 100

85 46.3 50.5 75.7#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.003 min

Lab File: VL043253.D

Acq: 19 Nov 2025 23:12

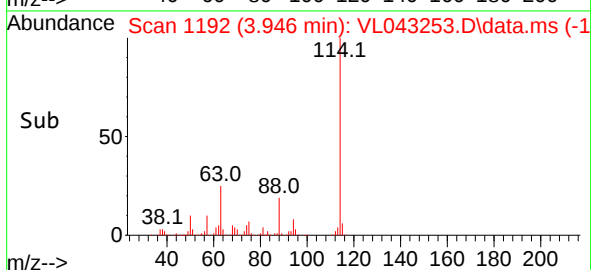
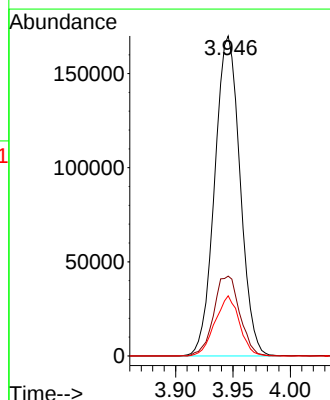
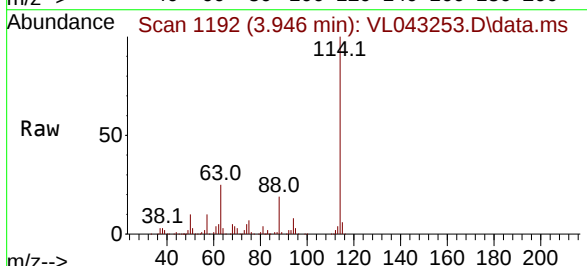
Tgt Ion: 114 Resp: 261435

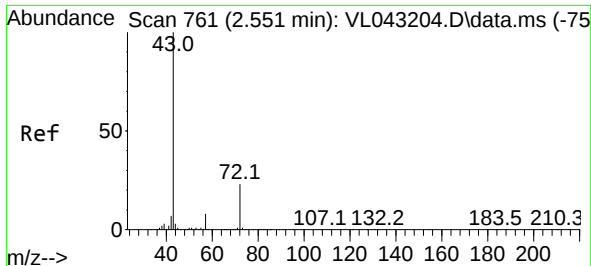
Ion Ratio Lower Upper

114 100

63 25.7 21.0 31.6

88 18.1 14.9 22.3

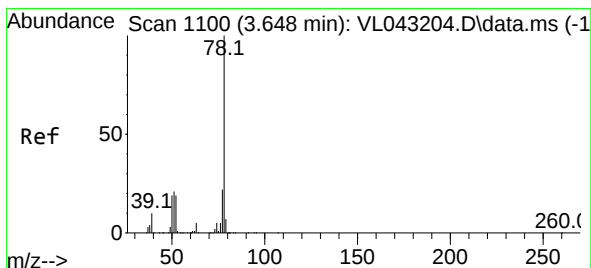
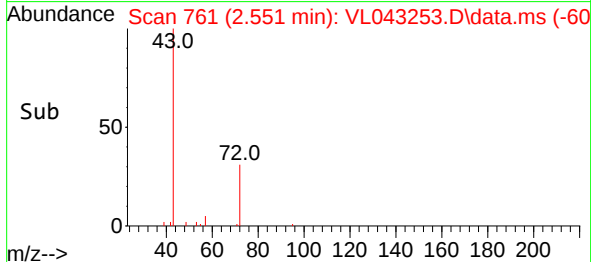
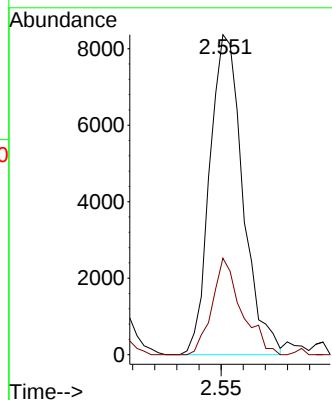
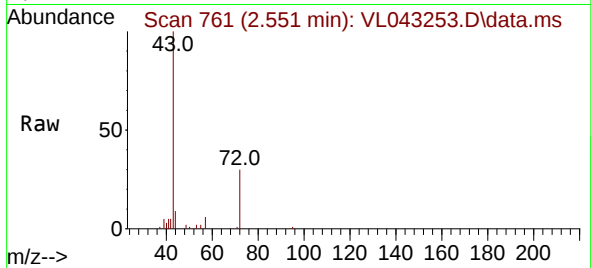




#34
2-Butanone
Concen: 0.472 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

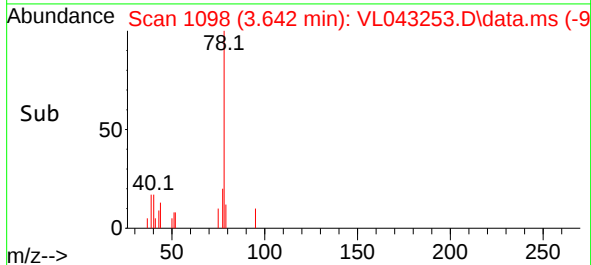
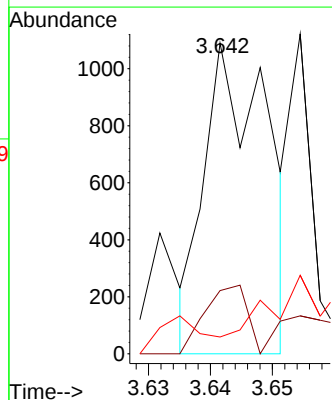
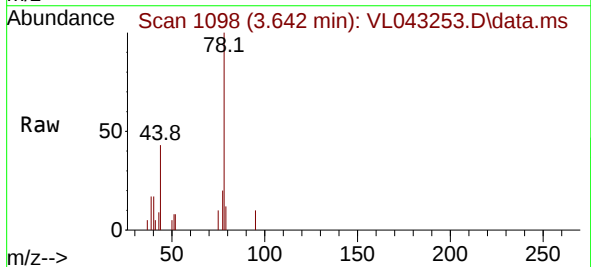
Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

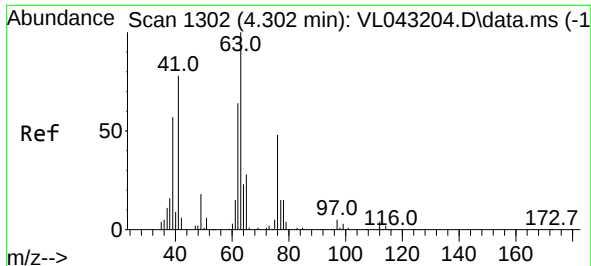
Tgt Ion: 43 Resp: 8708
Ion Ratio Lower Upper
43 100
72 27.2 18.1 27.1#



#36
Benzene
Concen: 0.031 ppbv
RT: 3.642 min Scan# 1098
Delta R.T. -0.007 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion: 78 Resp: 770
Ion Ratio Lower Upper
78 100
77 25.8 17.5 26.3
50 0.0 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 7.306 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.356 min

Lab File: VL043253.D

Acq: 19 Nov 2025 23:12

Instrument :

MSVOA_L

ClientSampleId :

15-SG-1DL

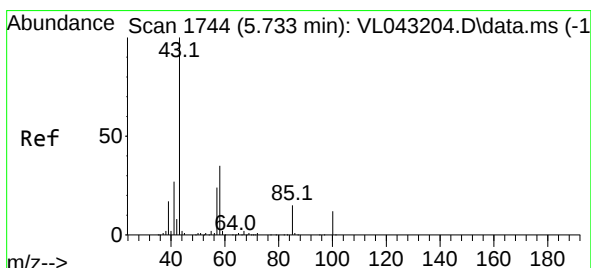
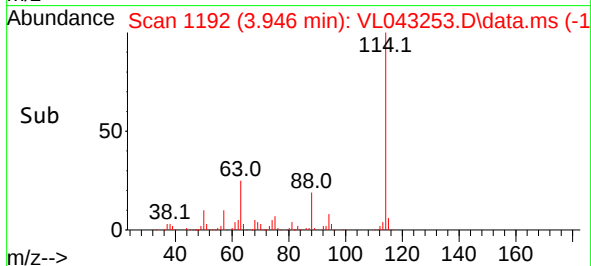
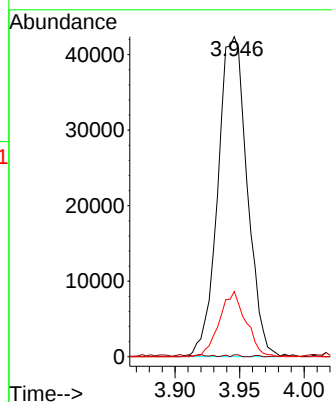
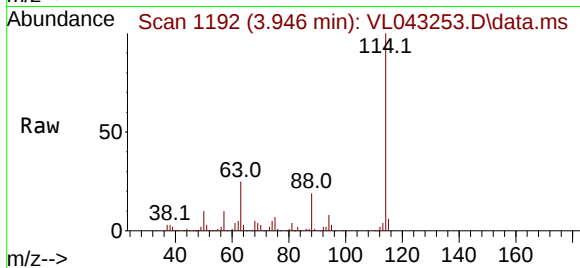
Tgt Ion: 63 Resp: 66945

Ion Ratio Lower Upper

63 100

41 0.6 62.6 93.8#

62 20.4 51.0 76.6#



#50

4-Methyl-2-Pentanone

Concen: 0.084 ppbv

RT: 5.736 min Scan# 1745

Delta R.T. 0.003 min

Lab File: VL043253.D

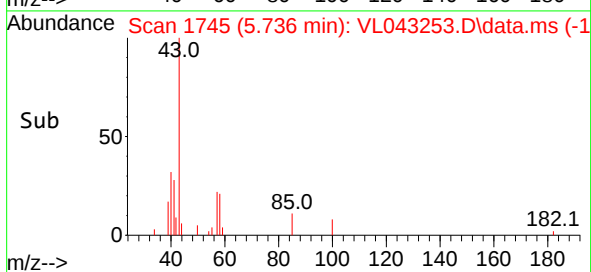
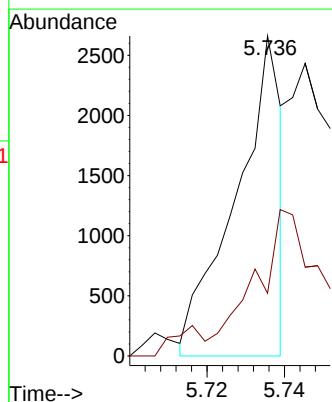
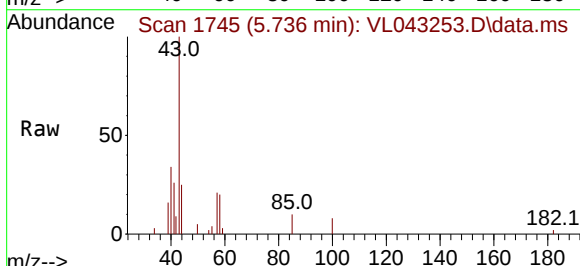
Acq: 19 Nov 2025 23:12

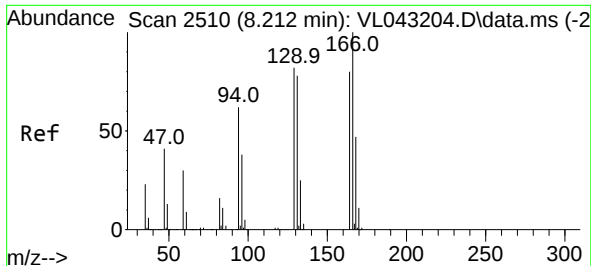
Tgt Ion: 43 Resp: 2173

Ion Ratio Lower Upper

43 100

58 104.3 28.4 42.6#



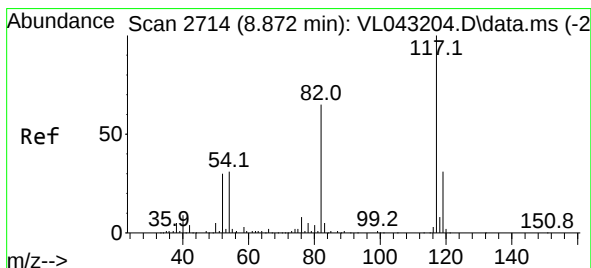
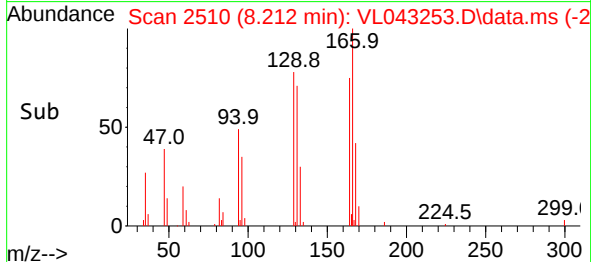
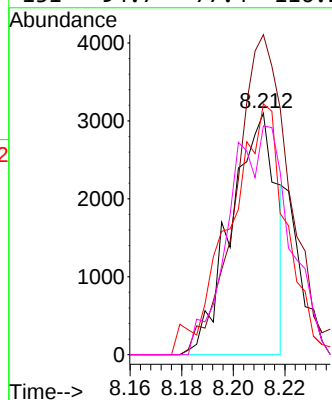
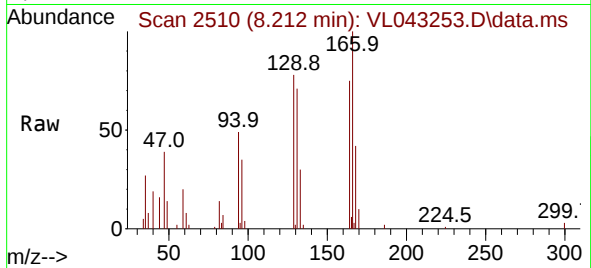


#52
Tetrachloroethene
Concen: 0.406 ppbv
RT: 8.212 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Instrument :
MSVOA_L
ClientSampleId :
15-SG-1DL

Tgt Ion:164 Resp: 3777

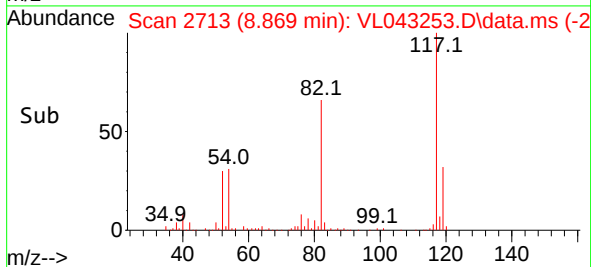
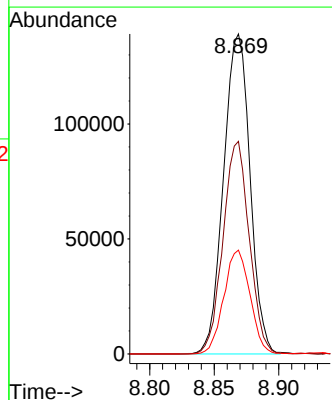
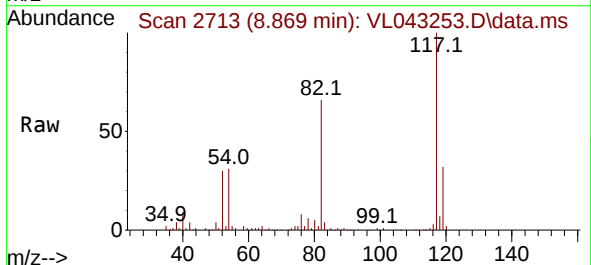
Ion	Ratio	Lower	Upper
164	100		
166	132.5	99.4	149.2
129	91.3	81.8	122.8
131	94.7	77.4	116.2

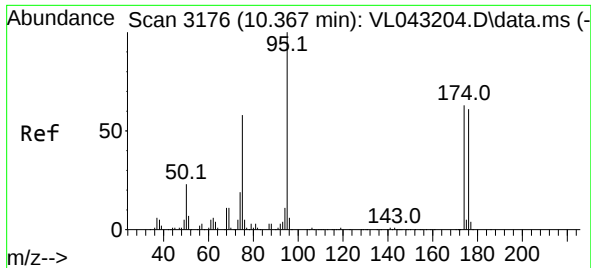


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.003 min
Lab File: VL043253.D
Acq: 19 Nov 2025 23:12

Tgt Ion:117 Resp: 198573

Ion	Ratio	Lower	Upper
117	100		
82	65.9	56.1	84.1
119	32.1	25.0	37.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.791 ppbv
 RT: 10.364 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL043253.D
 Acq: 19 Nov 2025 23:12

Instrument :
 MSVOA_L
 ClientSampleId :
 15-SG-1DL

Tgt Ion: 95 Resp: 142507
 Ion Ratio Lower Upper
 95 100
 174 66.4 50.2 75.2
 175 5.0 4.1 6.1

