

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043247.D
 Acq On : 19 Nov 2025 19:52
 Operator : SY/MD
 Sample : Q3626-12DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 16-SG-1DL

Quant Time: Nov 20 00:09:54 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	2.780	49	102231	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	281627	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	224034	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	159151	9.691	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.900%

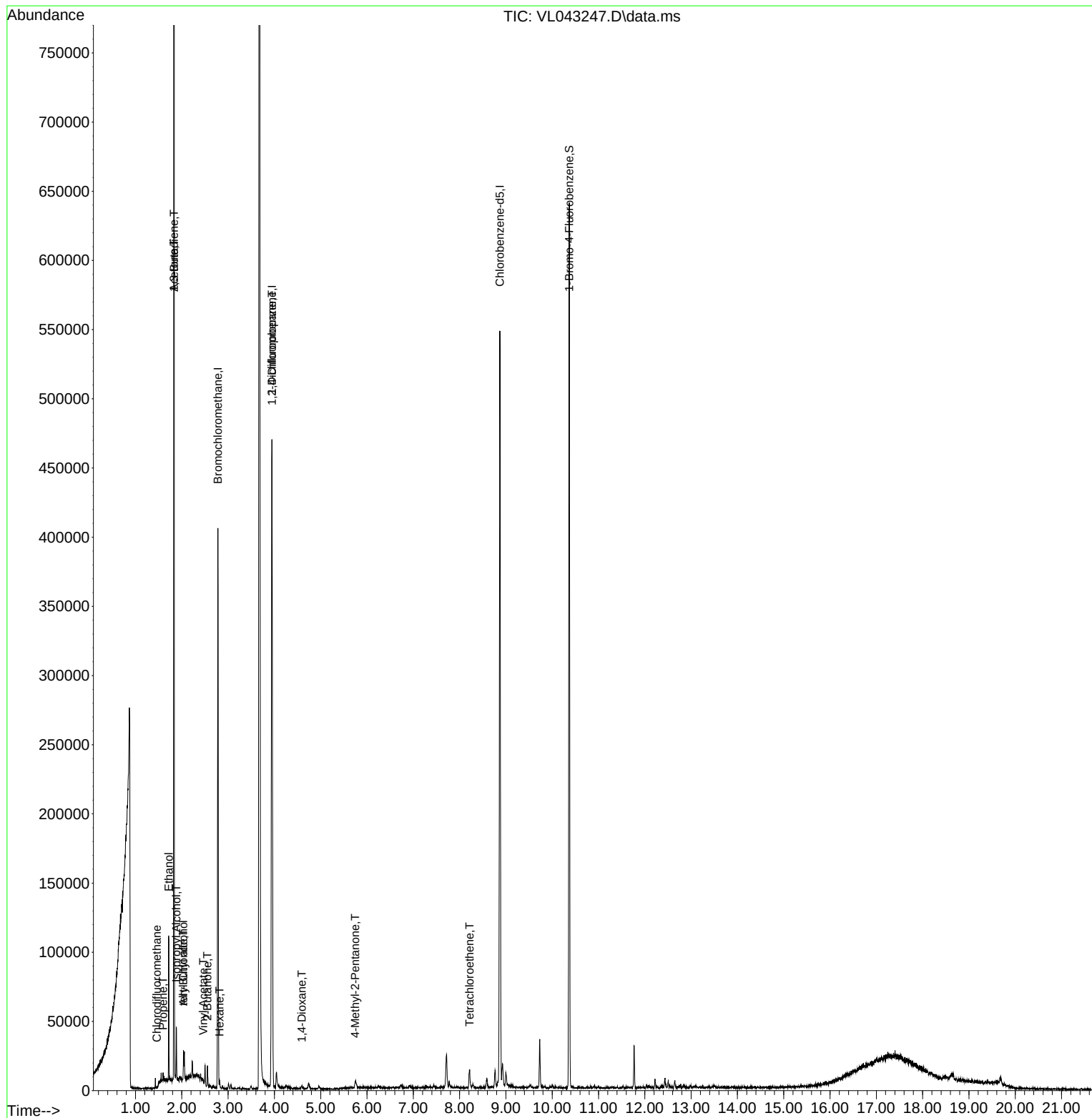
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.460	51	509	0.036	ppbv #	88
9) Propene	1.593	41	1279	0.212	ppbv #	86
13) Ethanol	1.716	45	36573	17.273	ppbv	99
15) Acetone	1.829	43	1127186	79.361	ppbv	96
16) 1,3-Butadiene	1.829	39	53369	8.428	ppbv #	14
17) tert-Butyl alcohol	2.036	59	8013	0.430	ppbv #	87
19) Isopropyl Alcohol	1.881	45	14613	1.821	ppbv #	36
20) Methylene Chloride	2.055	84	2823	Below Cal		95
21) Allyl Chloride	2.036	41	2315	0.242	ppbv #	46
23) Vinyl Acetate	2.463	43	604	0.035	ppbv #	56
26) Hexane	2.813	57	1324	0.099	ppbv #	53
34) 2-Butanone	2.554	43	9311	0.468	ppbv	96
39) 1,2-Dichloropropane	3.949	63	70842	7.177	ppbv #	24
40) 1,4-Dioxane	4.590	88	563	0.127	ppbv #	32
50) 4-Methyl-2-Pentanone	5.745	43	1589	0.057	ppbv #	39
52) Tetrachloroethene	8.215	164	2304	0.230	ppbv #	79

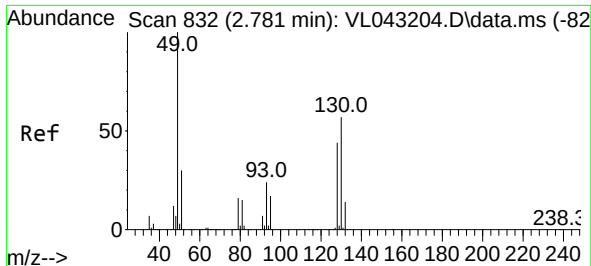
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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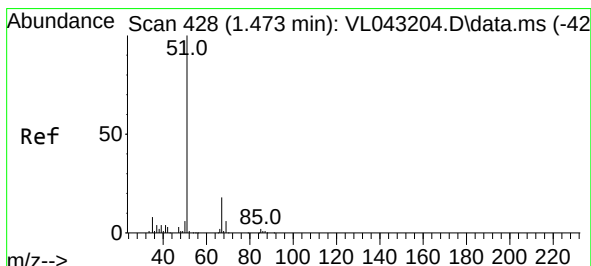
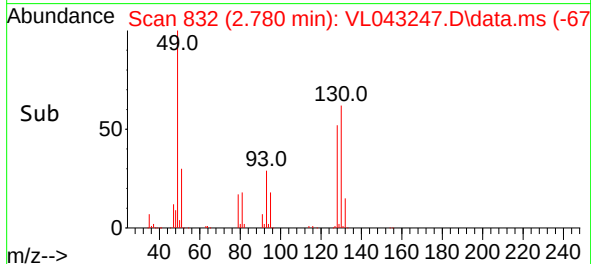
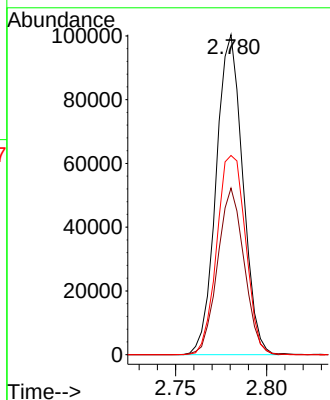
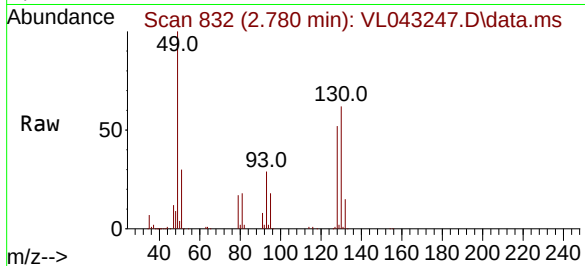




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.001 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

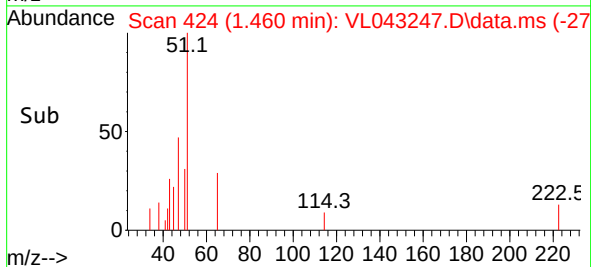
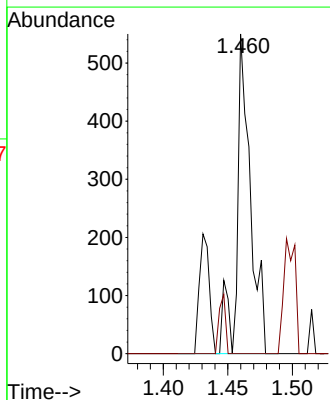
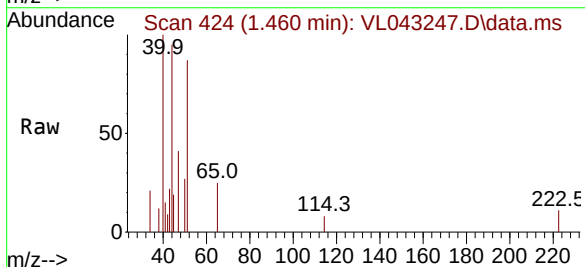
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

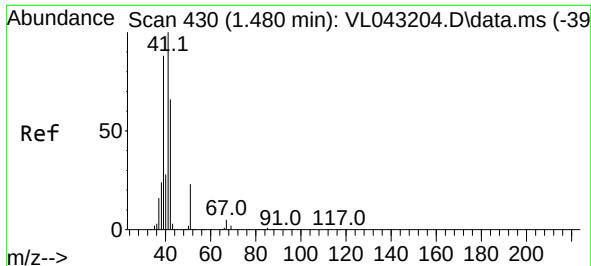
Tgt Ion: 49 Resp: 102231
Ion Ratio Lower Upper
49 100
128 51.8 23.0 69.0
130 67.0 29.9 89.7



#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 1.460 min Scan# 424
Delta R.T. -0.013 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 51 Resp: 509
Ion Ratio Lower Upper
51 100
67 24.0 14.9 22.3#





#9

Propene

Concen: 0.212 ppbv

RT: 1.593 min Scan# 41

Delta R.T. 0.113 min

Lab File: VL043247.D

Acq: 19 Nov 2025 19:52

Instrument :

MSVOA_1

ClientSampleId :

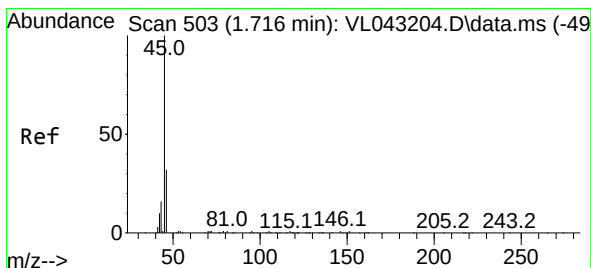
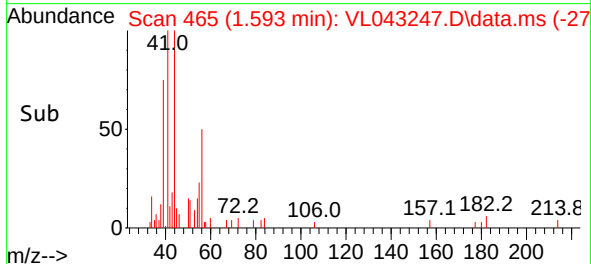
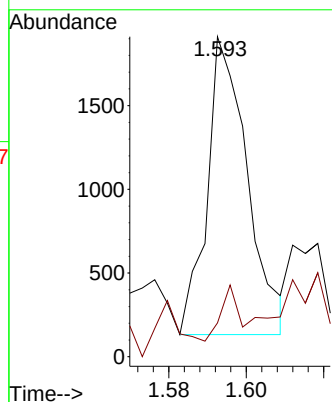
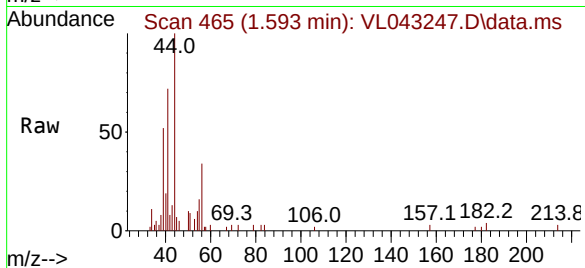
16-SG-1DL

Tgt Ion: 41 Resp: 1279

Ion Ratio Lower Upper

41 100

42 0.0 3.7 5.5#



#13

Ethanol

Concen: 17.273 ppbv

RT: 1.716 min Scan# 503

Delta R.T. -0.000 min

Lab File: VL043247.D

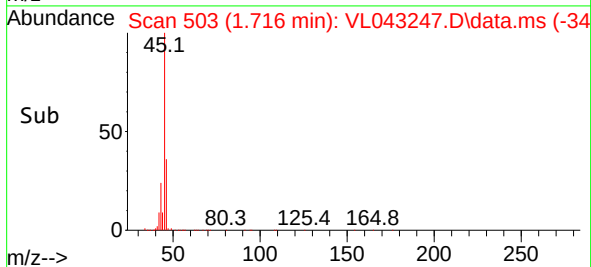
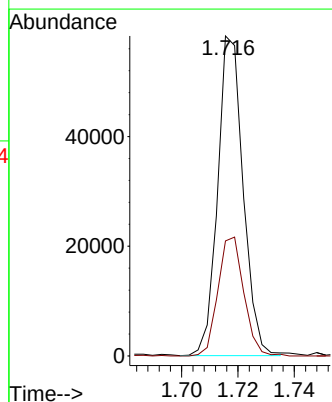
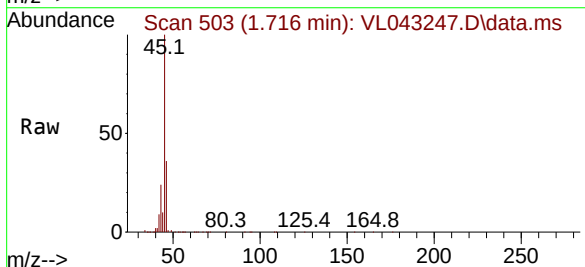
Acq: 19 Nov 2025 19:52

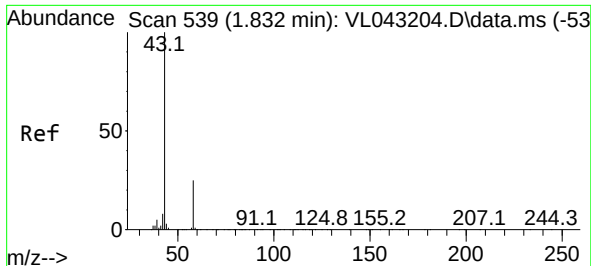
Tgt Ion: 45 Resp: 36573

Ion Ratio Lower Upper

45 100

46 37.9 15.0 59.8

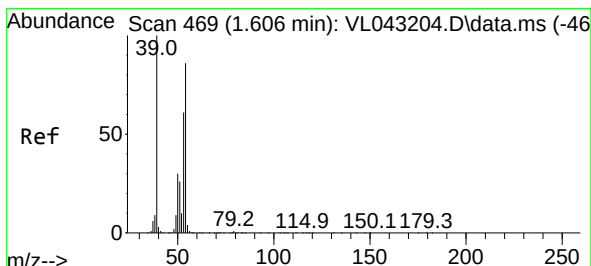
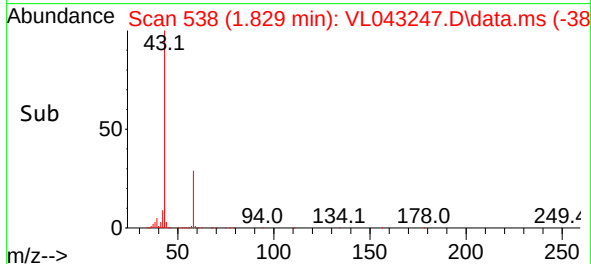
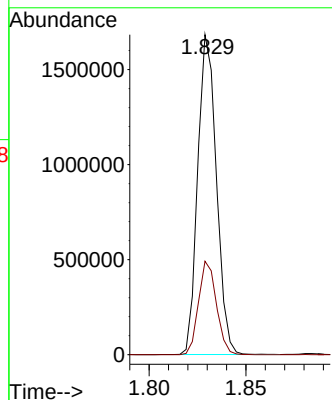
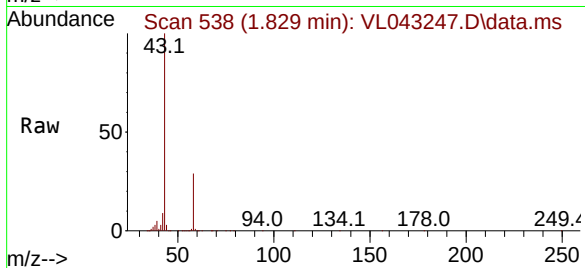




#15
Acetone
Concen: 79.361 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.004 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

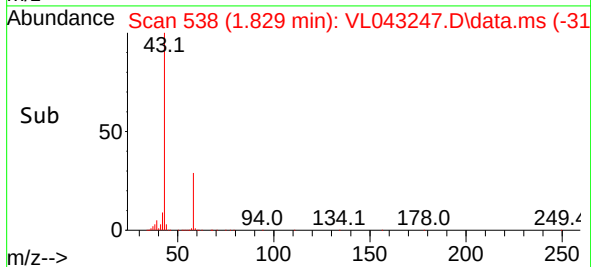
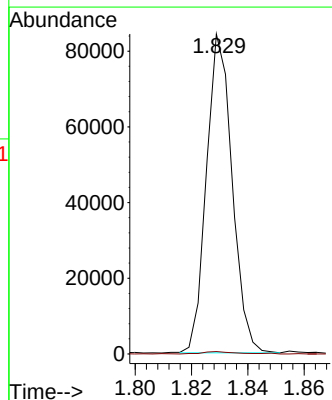
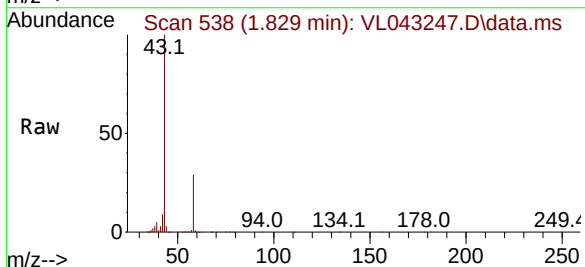
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

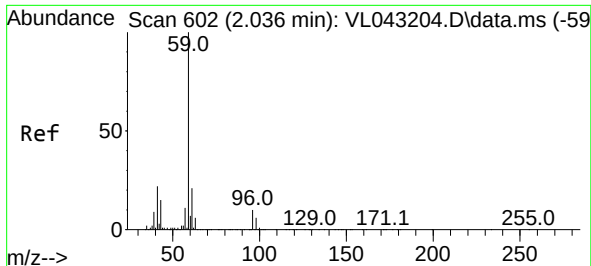
Tgt Ion: 43 Resp: 1127186
Ion Ratio Lower Upper
43 100
58 28.1 20.7 31.1



#16
1,3-Butadiene
Concen: 8.428 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.223 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 39 Resp: 53369
Ion Ratio Lower Upper
39 100
54 1.1 59.4 89.2#





#17

tert-Butyl alcohol

Concen: 0.430 ppbv

RT: 2.036 min Scan# 602

Delta R.T. -0.000 min

Lab File: VL043247.D

Acq: 19 Nov 2025 19:52

Instrument :

MSVOA_1

ClientSampleId :

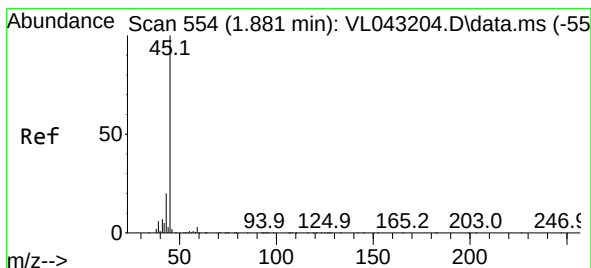
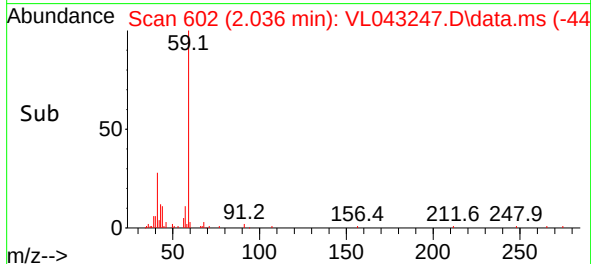
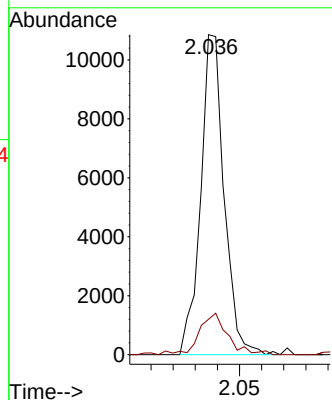
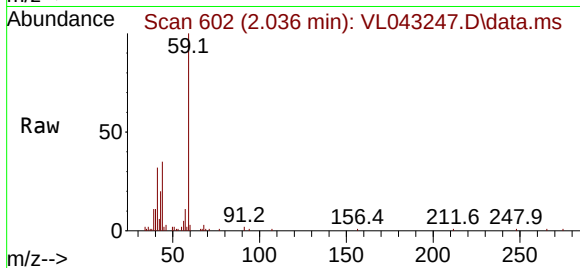
16-SG-1DL

Tgt Ion: 59 Resp: 8013

Ion Ratio Lower Upper

59 100

57 16.0 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 1.821 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL043247.D

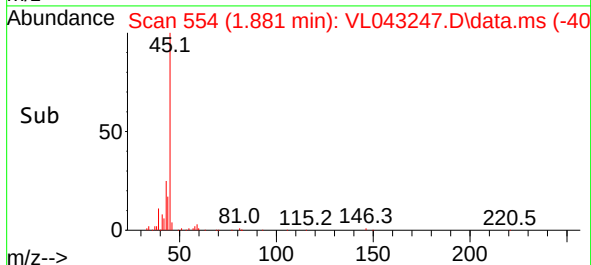
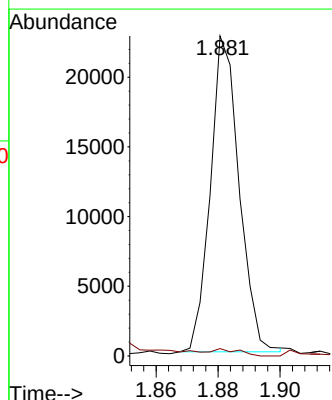
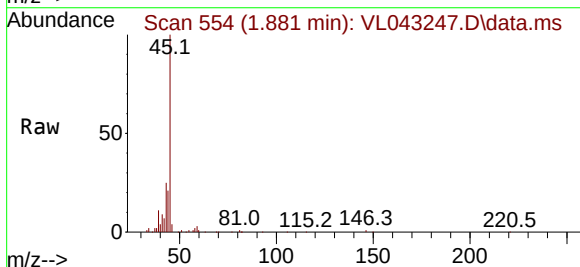
Acq: 19 Nov 2025 19:52

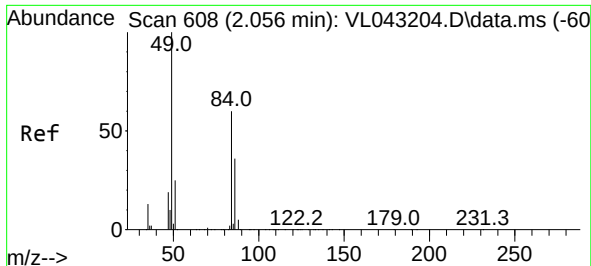
Tgt Ion: 45 Resp: 14613

Ion Ratio Lower Upper

45 100

58 0.0 31.3 46.9#

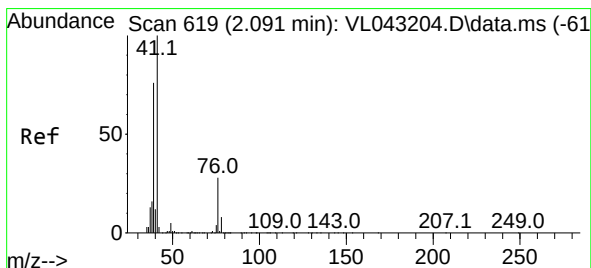
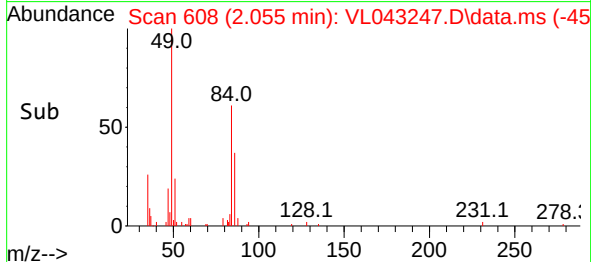
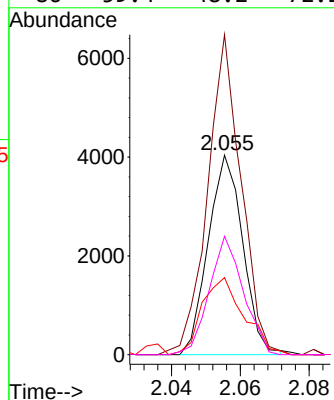
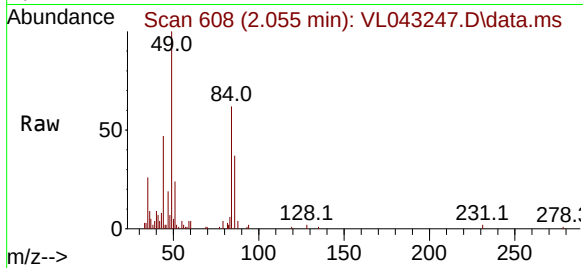




#20
Methylene Chloride
Concen: Below Cal
RT: 2.055 min Scan# 601
Delta R.T. -0.001 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

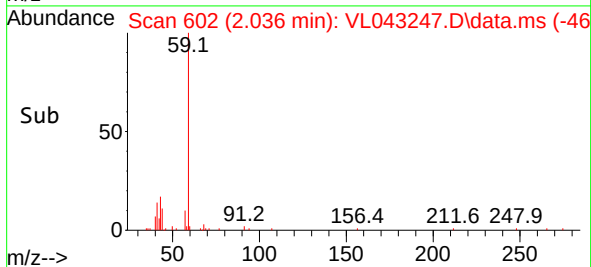
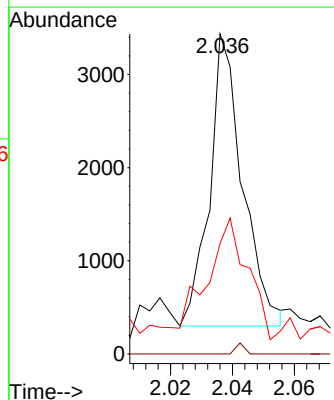
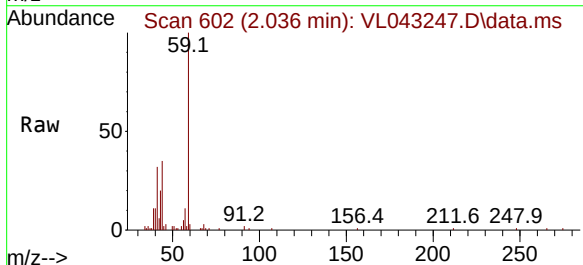
Instrument :
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ClientSampleId :
16-SG-1DL

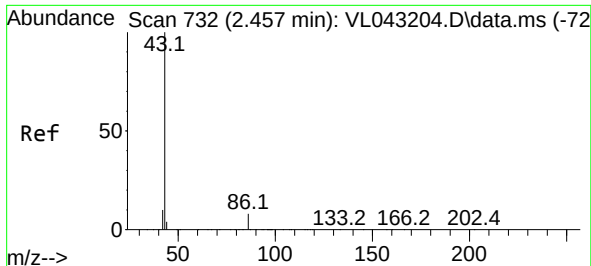
Tgt Ion:	84	Resp:	2823
Ion	Ratio	Lower	Upper
84	100		
49	158.3	132.9	199.3
51	37.2	34.8	52.2
86	59.4	48.2	72.2



#21
Allyl Chloride
Concen: 0.242 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.055 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion:	41	Resp:	2315
Ion	Ratio	Lower	Upper
41	100		
76	1.1	22.1	33.1#
39	124.2	61.0	91.4#

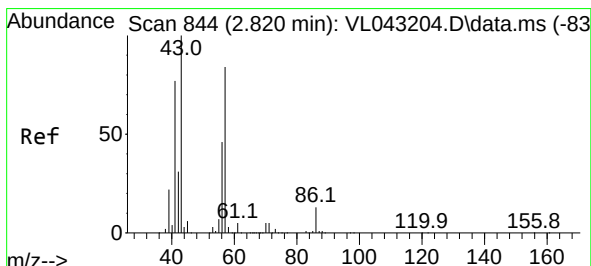
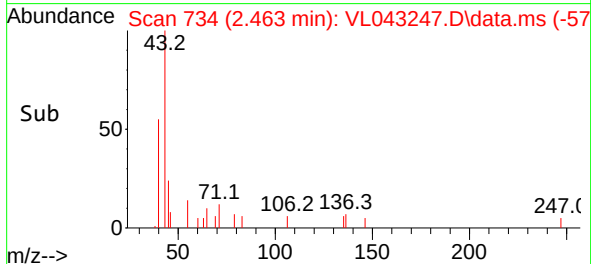
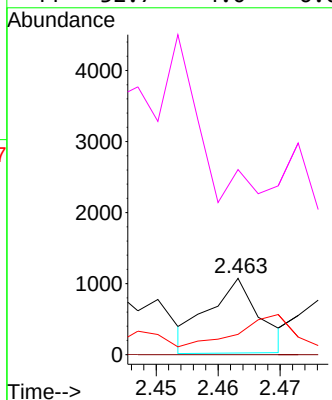
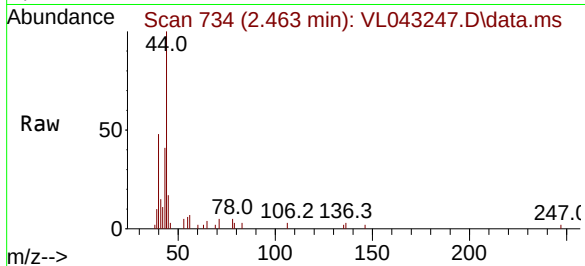




#23
 Vinyl Acetate
 Concen: 0.035 ppbv
 RT: 2.463 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VL043247.D
 Acq: 19 Nov 2025 19:52

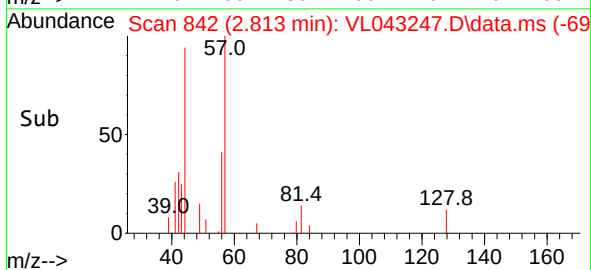
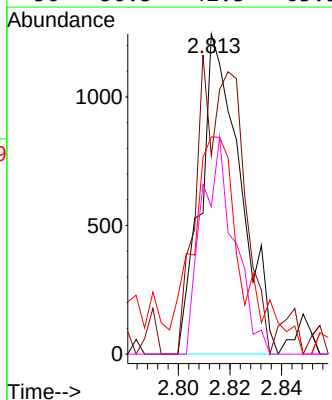
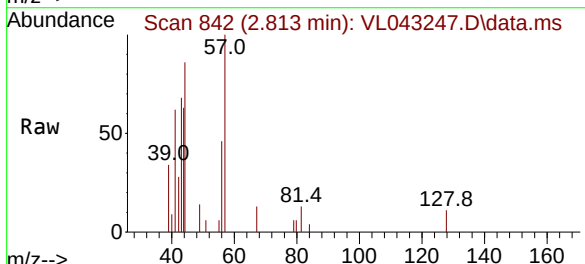
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 16-SG-1DL

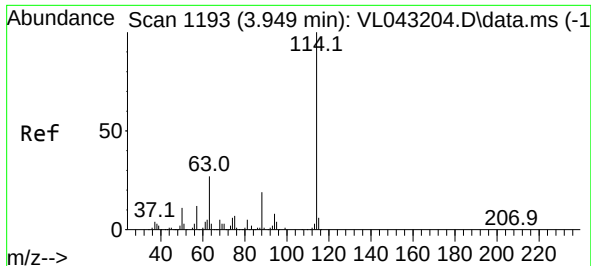
Tgt Ion: 43	Resp: 604
Ion Ratio	Lower Upper
43 100	
86 0.0	6.2 9.2#
42 25.1	8.0 12.0#
44 32.7	4.0 6.0#



#26
 Hexane
 Concen: 0.099 ppbv
 RT: 2.813 min Scan# 842
 Delta R.T. -0.007 min
 Lab File: VL043247.D
 Acq: 19 Nov 2025 19:52

Tgt Ion: 57	Resp: 1324
Ion Ratio	Lower Upper
57 100	
41 116.3	74.6 111.8#
43 115.0	179.0 268.4#
56 56.3	42.3 63.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.004 min

Lab File: VL043247.D

Acq: 19 Nov 2025 19:52

Instrument :

MSVOA_L

ClientSampleId :

16-SG-1DL

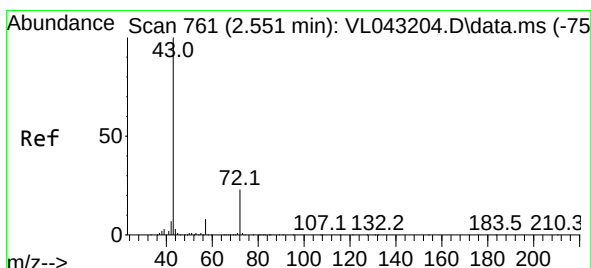
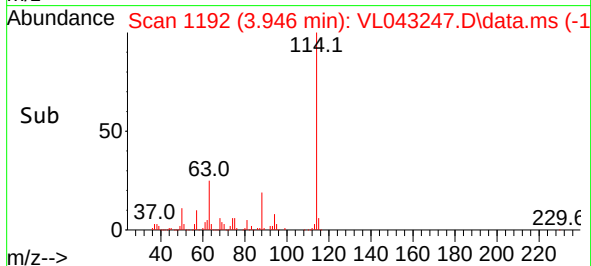
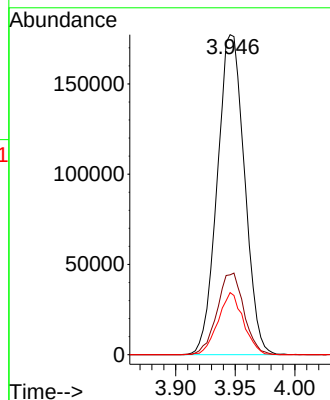
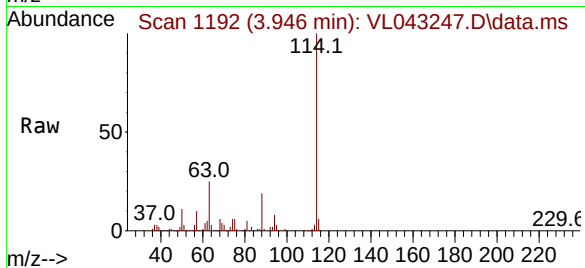
Tgt Ion:114 Resp: 281627

Ion Ratio Lower Upper

114 100

63 25.2 21.0 31.6

88 18.0 14.9 22.3



#34

2-Butanone

Concen: 0.468 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.003 min

Lab File: VL043247.D

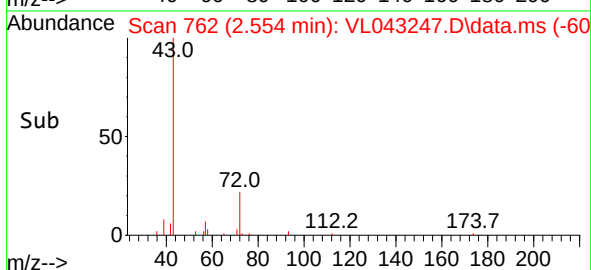
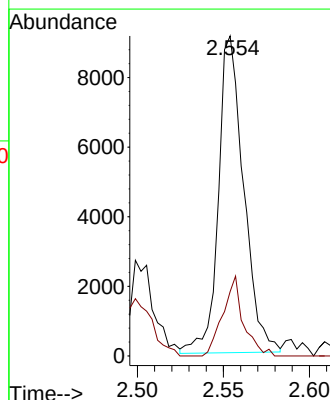
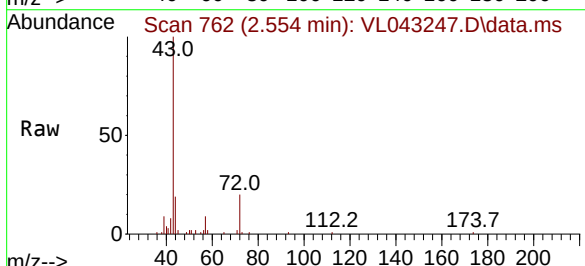
Acq: 19 Nov 2025 19:52

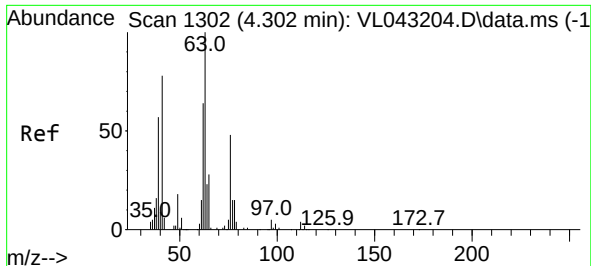
Tgt Ion: 43 Resp: 9311

Ion Ratio Lower Upper

43 100

72 20.5 18.1 27.1





#39

1,2-Dichloropropane

Concen: 7.177 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.353 min

Lab File: VL043247.D

Acq: 19 Nov 2025 19:52

Instrument :

MSVOA_1

ClientSampleId :

16-SG-1DL

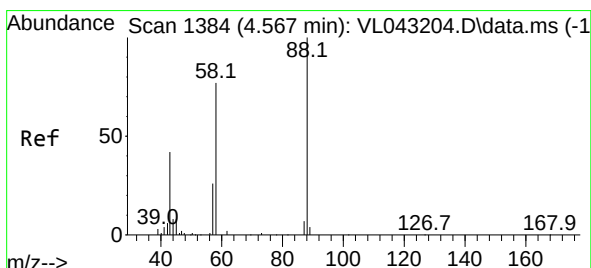
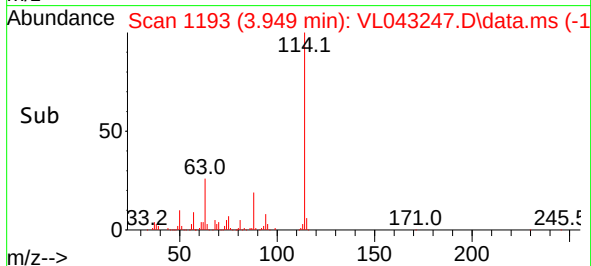
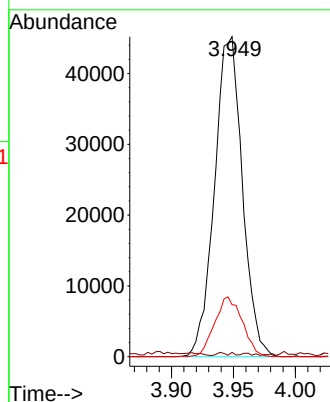
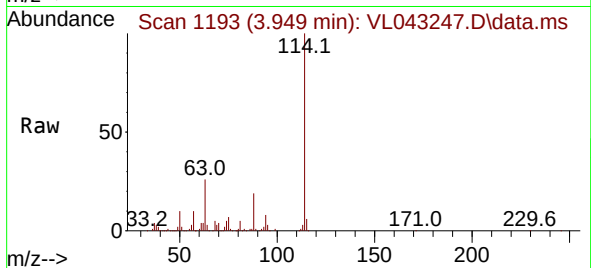
Tgt Ion: 63 Resp: 70842

Ion Ratio Lower Upper

63 100

41 0.5 62.6 93.8#

62 16.3 51.0 76.6#



#40

1,4-Dioxane

Concen: 0.127 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.022 min

Lab File: VL043247.D

Acq: 19 Nov 2025 19:52

Tgt Ion: 88 Resp: 563

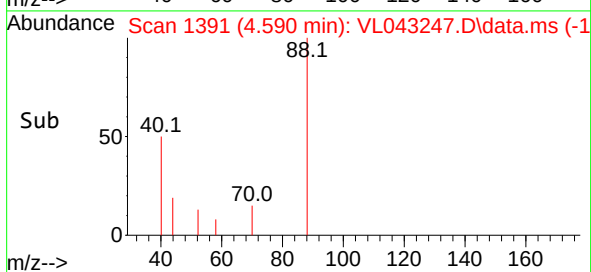
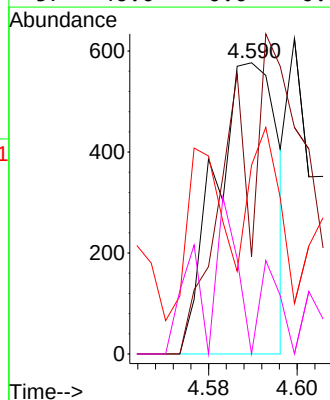
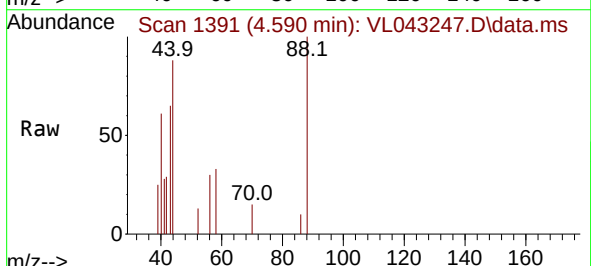
Ion Ratio Lower Upper

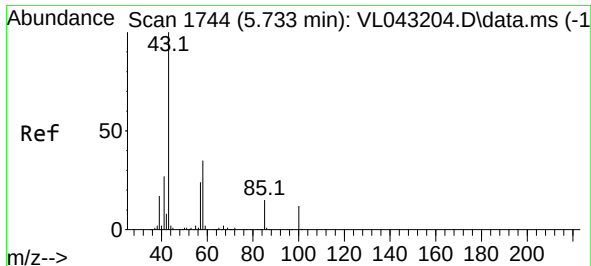
88 100

58 149.7 63.0 94.6#

43 67.7 32.5 48.7#

57 46.0 0.0 0.0#

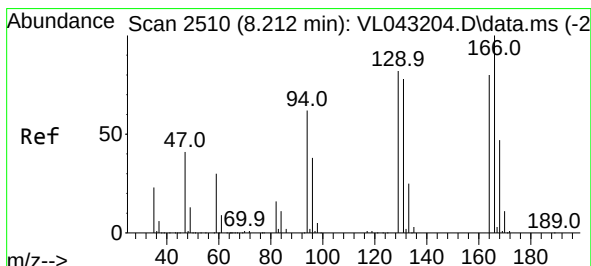
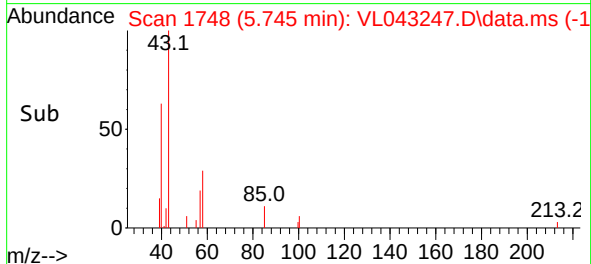
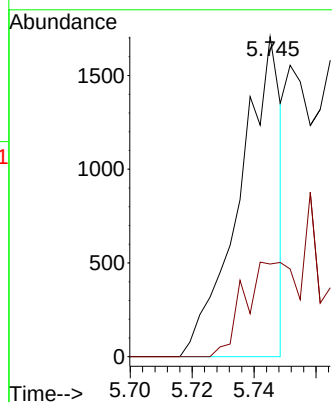
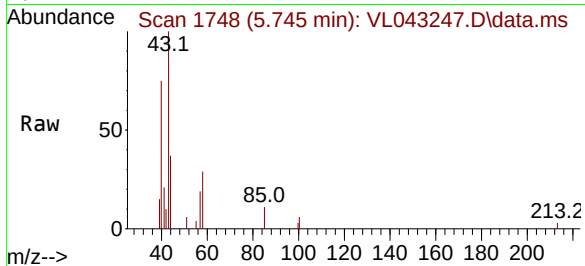




#50
4-Methyl-2-Pentanone
Concen: 0.057 ppbv
RT: 5.745 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

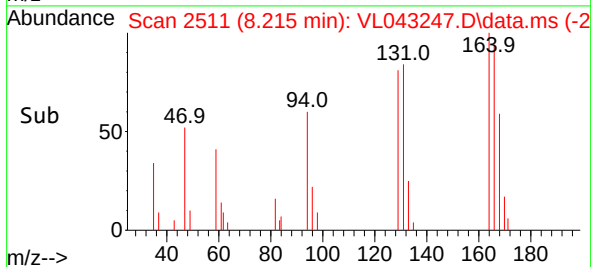
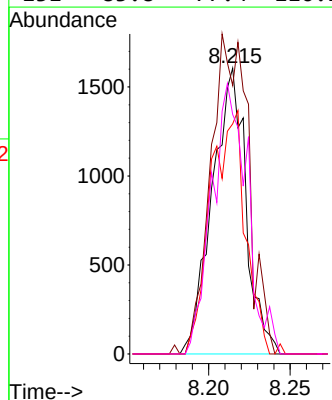
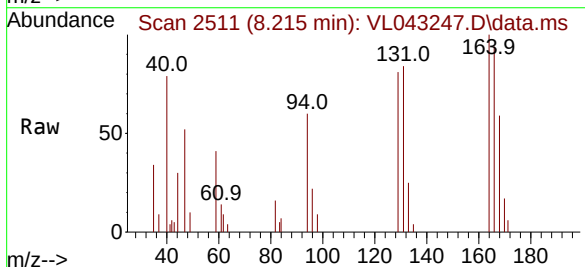
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

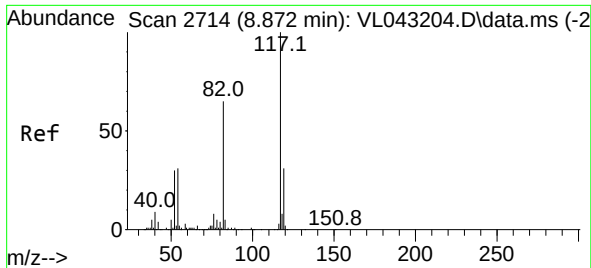
Tgt Ion: 43 Resp: 1589
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#



#52
Tetrachloroethene
Concen: 0.230 ppbv
RT: 8.215 min Scan# 2511
Delta R.T. 0.003 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 164 Resp: 2304
Ion Ratio Lower Upper
164 100
166 94.0 99.4 149.2#
129 80.5 81.8 122.8#
131 83.8 77.4 116.2

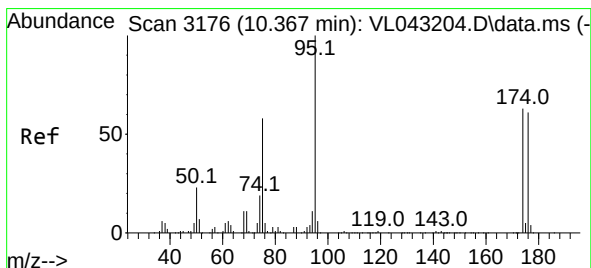
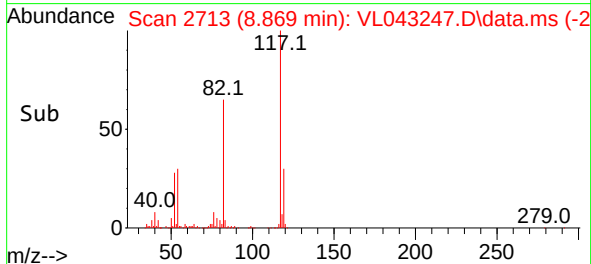
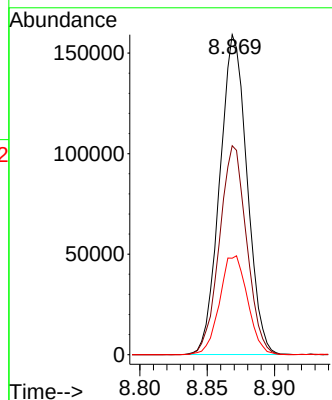
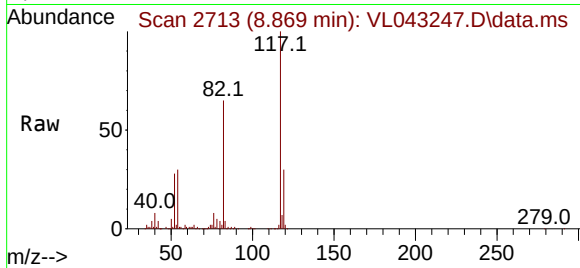




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL

Tgt Ion:117 Resp: 224034
Ion Ratio Lower Upper
117 100
82 65.2 56.1 84.1
119 31.8 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.691 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043247.D
Acq: 19 Nov 2025 19:52

Tgt Ion: 95 Resp: 159151
Ion Ratio Lower Upper
95 100
174 66.1 50.2 75.2
175 4.8 4.1 6.1

