

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042193.D
 Acq On : 27 Mar 2025 23:01
 Operator : SY/MD
 Sample : Q1669-08 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B16-2-3262025

Quant Time: Mar 28 02:19:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

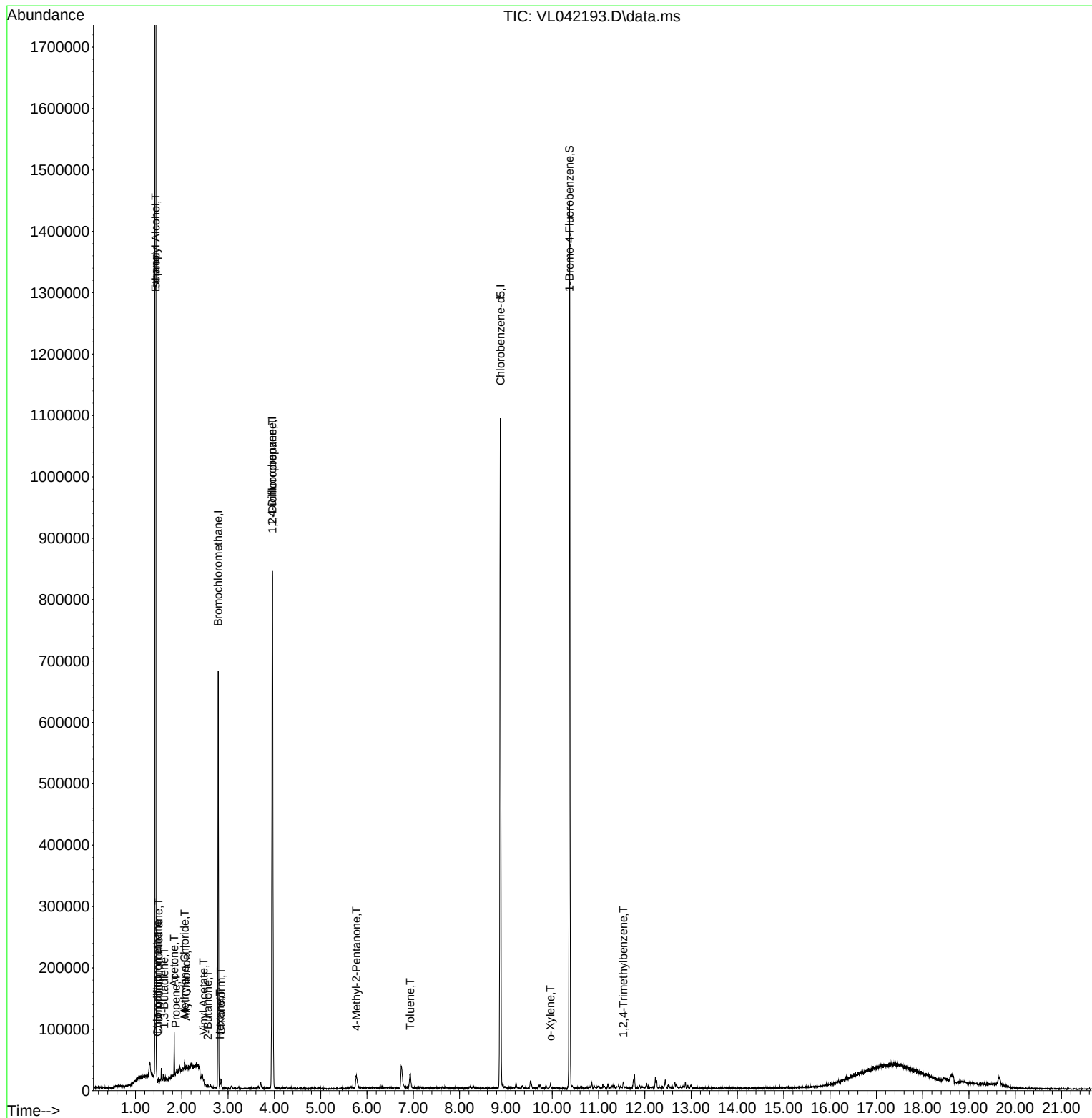
Internal Standards						
1) Bromochloromethane	2.787	49	177192	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	506720	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	451081	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	370742	10.008	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.100%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	1253	0.048	ppbv	97
3) Chlorodifluoromethane	1.473	51	1074	0.040	ppbv #	72
9) Propene	1.871	41	391	0.032	ppbv	96
13) Ethanol	1.434	45	197074	170.177	ppbv #	1
15) Acetone	1.835	43	29009	1.171	ppbv	95
16) 1,3-Butadiene	1.619	39	854	0.071	ppbv #	67
19) Isopropyl Alcohol	1.434	45	197074	14.095	ppbv #	31
20) Methylene Chloride	2.062	84	1503	0.163	ppbv	92
21) Allyl Chloride	2.098	41	532	0.030	ppbv #	51
23) Vinyl Acetate	2.467	43	1086	0.101	ppbv #	78
26) Hexane	2.826	57	1587	0.064	ppbv #	46
29) Chloroform	2.848	83	5326	0.146	ppbv	99
34) 2-Butanone	2.564	43	2838	0.077	ppbv	91
39) 1,2-Dichloropropane	3.959	63	130264	7.120	ppbv #	22
50) 4-Methyl-2-Pentanone	5.771	43	10890	0.187	ppbv #	57
53) Toluene	6.936	91	8493	0.143	ppbv #	12
60) o-Xylene	9.959	91	2966	0.046	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	3112	0.039	ppbv #	54

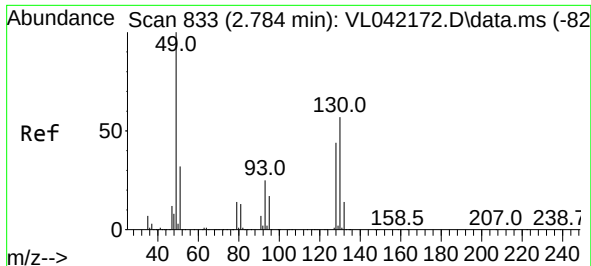
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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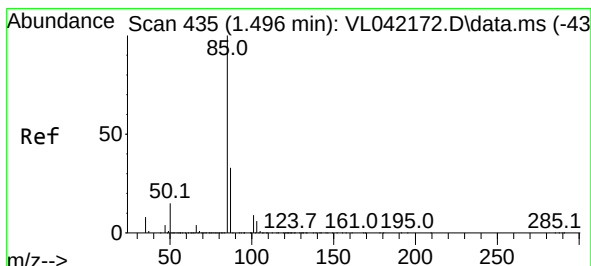
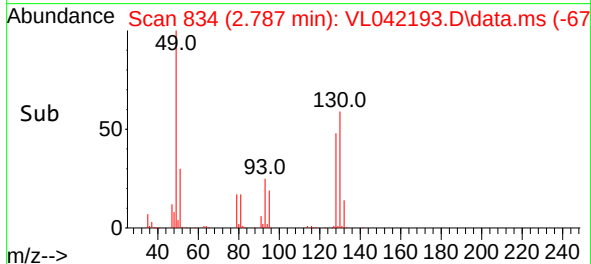
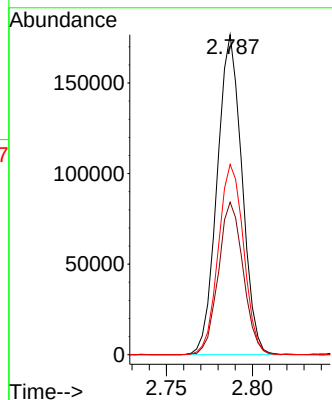
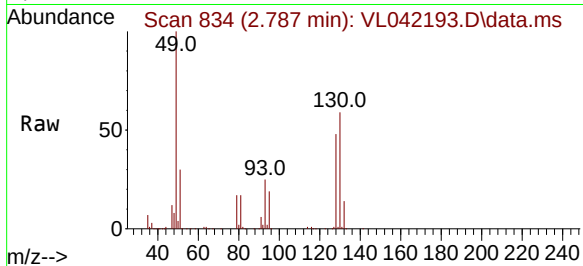




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

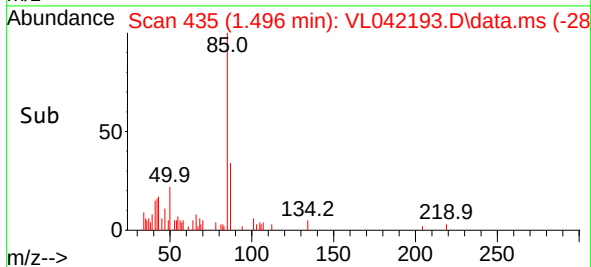
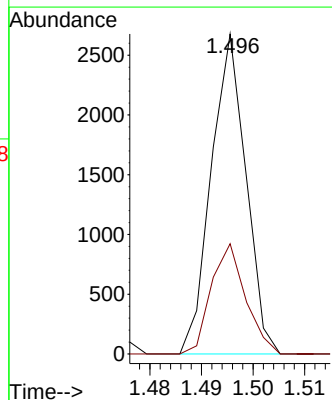
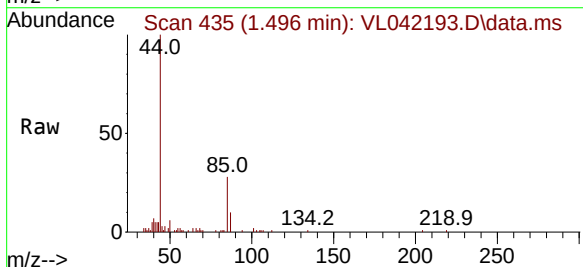
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025

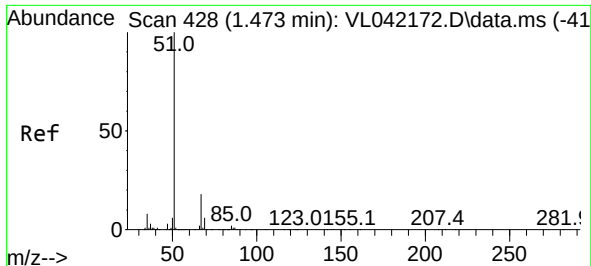
Tgt Ion: 49 Resp: 177192
Ion Ratio Lower Upper
49 100
128 47.7 22.9 68.5
130 60.7 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.048 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

Tgt Ion: 85 Resp: 1253
Ion Ratio Lower Upper
85 100
87 34.5 26.1 39.1

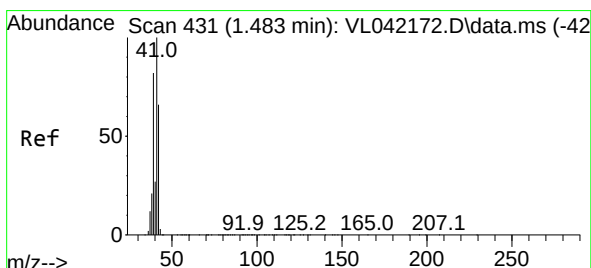
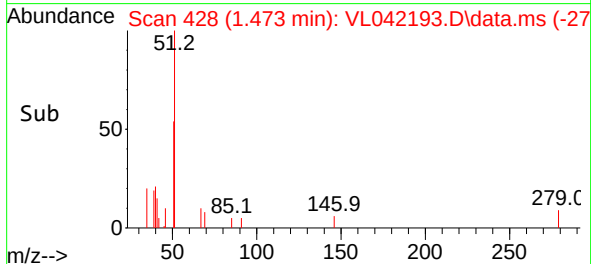
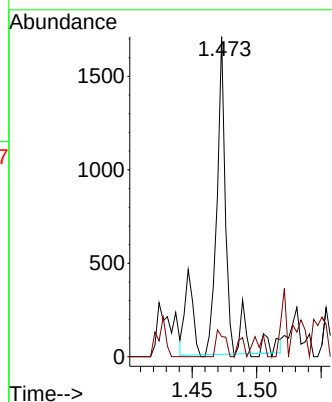
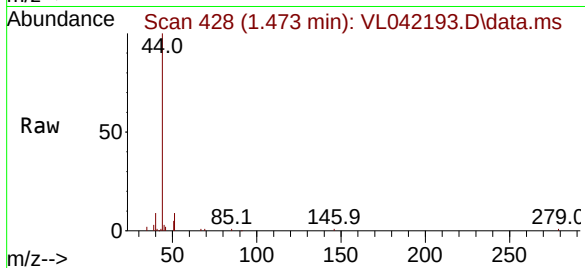




#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

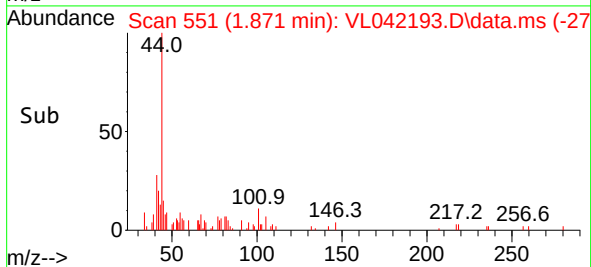
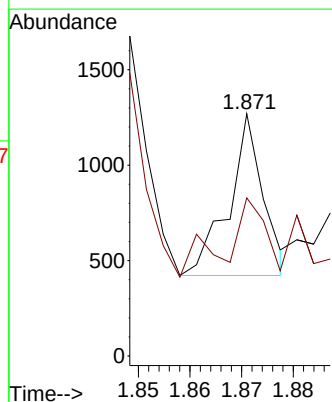
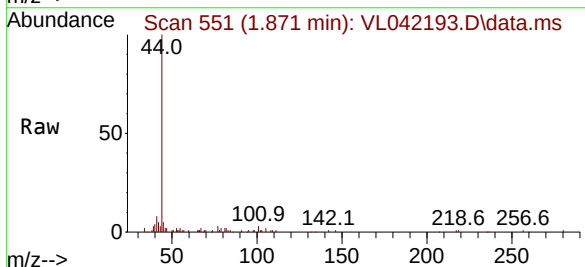
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025

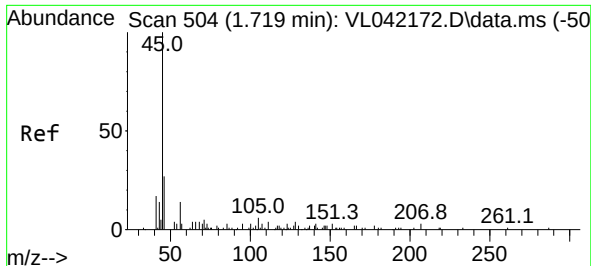
Tgt Ion: 51 Resp: 1074
Ion Ratio Lower Upper
51 100
67 6.4 15.0 22.6#



#9
Propene
Concen: 0.032 ppbv
RT: 1.871 min Scan# 551
Delta R.T. 0.388 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

Tgt Ion: 41 Resp: 391
Ion Ratio Lower Upper
41 100
42 72.4 55.4 83.2

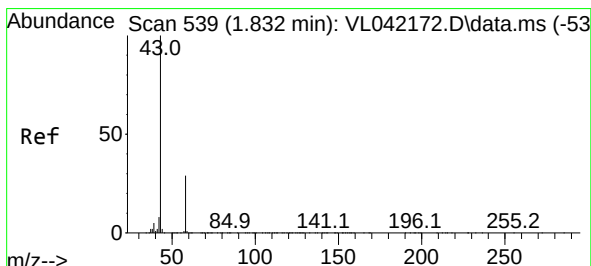
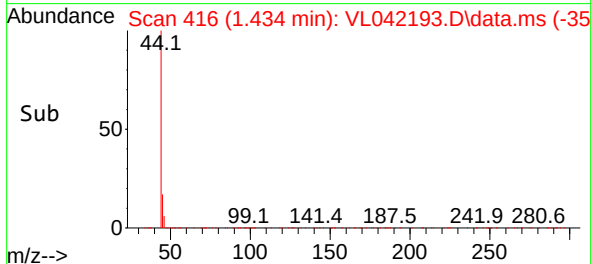
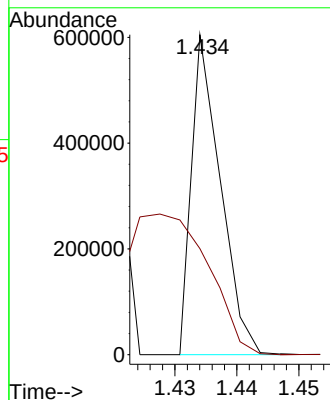
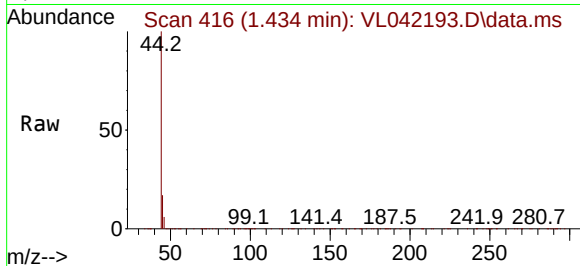




#13
Ethanol
Concen: 170.177 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.285 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

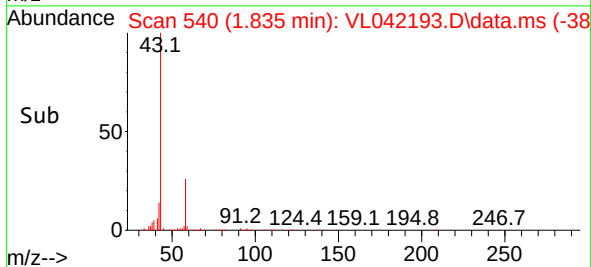
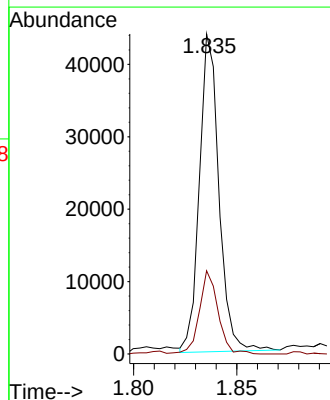
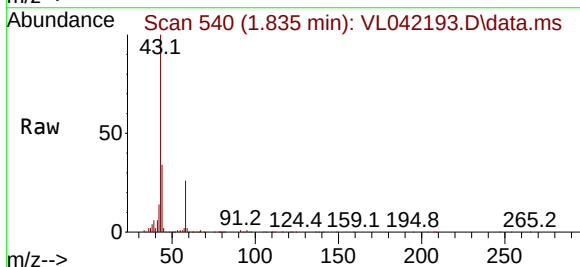
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025

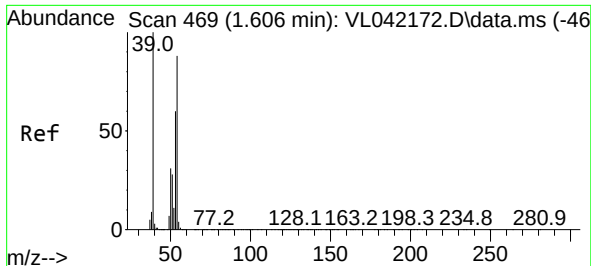
Tgt Ion: 45 Resp: 197074
Ion Ratio Lower Upper
45 100
46 125.3 20.2 80.8#



#15
Acetone
Concen: 1.171 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

Tgt Ion: 43 Resp: 29009
Ion Ratio Lower Upper
43 100
58 26.5 23.2 34.8

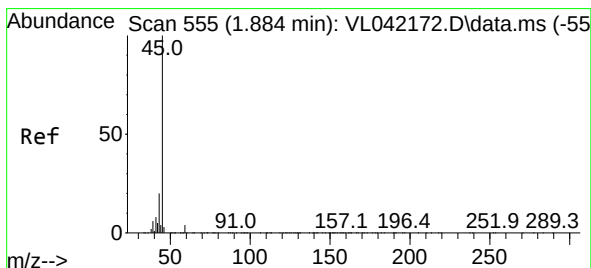
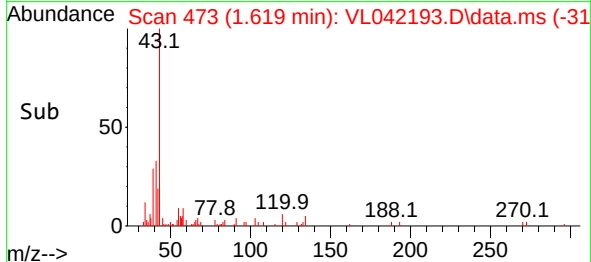
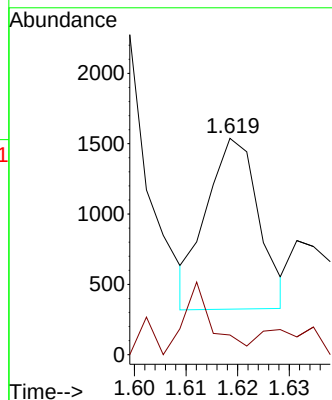
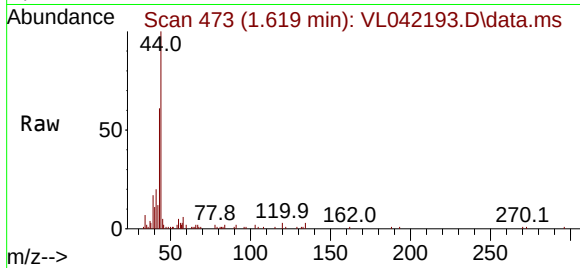




#16
1,3-Butadiene
Concen: 0.071 ppbv
RT: 1.619 min Scan# 416
Delta R.T. 0.013 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

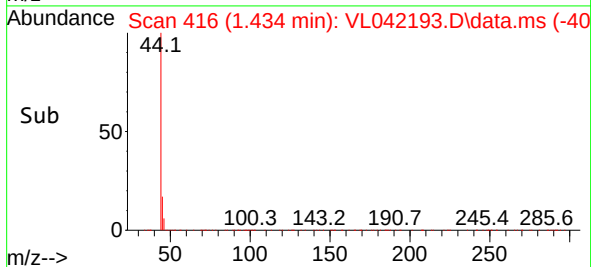
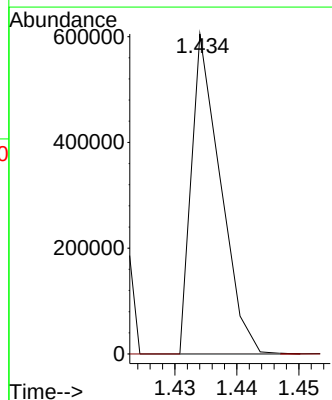
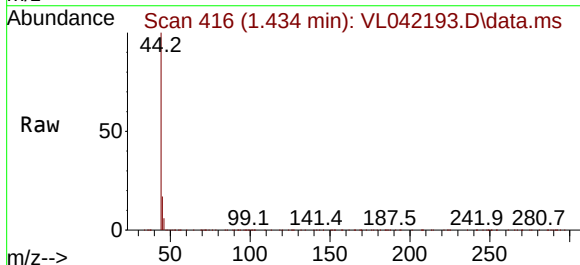
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025

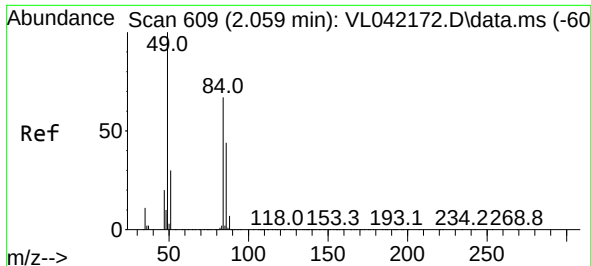
Tgt Ion: 39 Resp: 854
Ion Ratio Lower Upper
39 100
54 47.8 60.7 91.1#



#19
Isopropyl Alcohol
Concen: 14.095 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.450 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

Tgt Ion: 45 Resp: 197074
Ion Ratio Lower Upper
45 100
58 0.4 36.9 55.3#





#20

Methylene Chloride

Concen: 0.163 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042193.D

Acq: 27 Mar 2025 23:01

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B16-2-3262025

Tgt Ion: 84 Resp: 1503

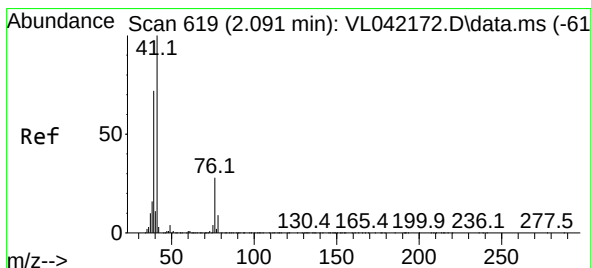
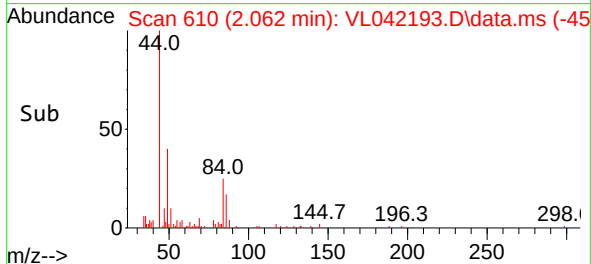
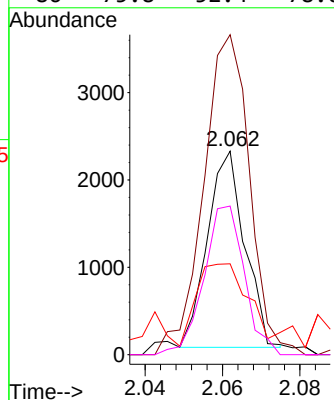
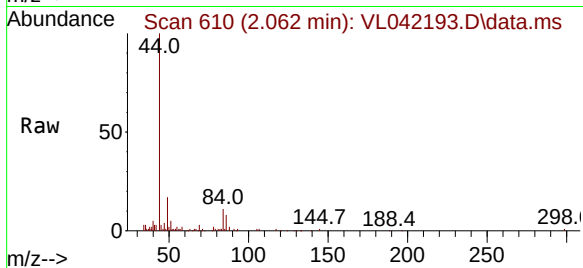
Ion Ratio Lower Upper

84 100

49 157.0 120.2 180.4

51 42.0 37.4 56.0

86 75.8 52.4 78.6



#21

Allyl Chloride

Concen: 0.030 ppbv

RT: 2.098 min Scan# 621

Delta R.T. 0.006 min

Lab File: VL042193.D

Acq: 27 Mar 2025 23:01

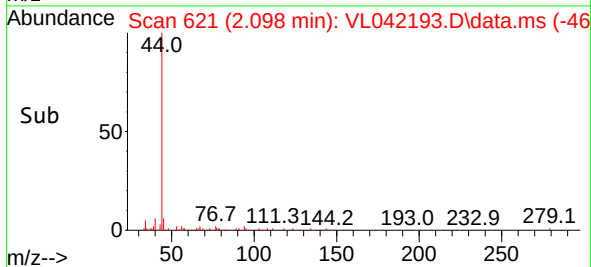
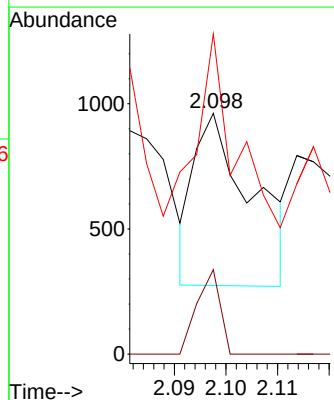
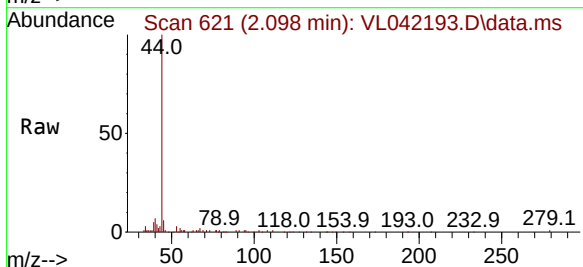
Tgt Ion: 41 Resp: 532

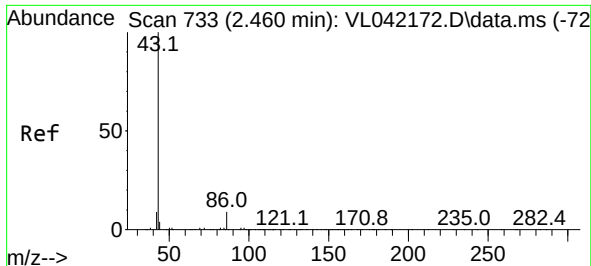
Ion Ratio Lower Upper

41 100

76 19.5 24.1 36.1#

39 128.8 61.1 91.7#

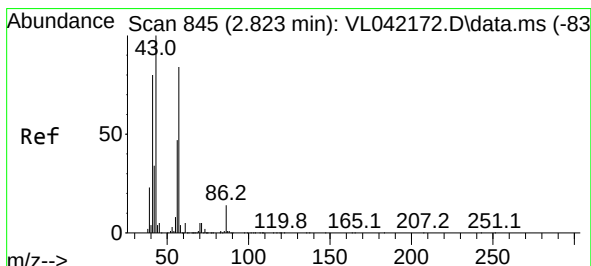
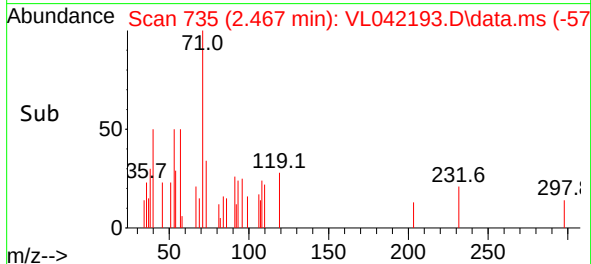
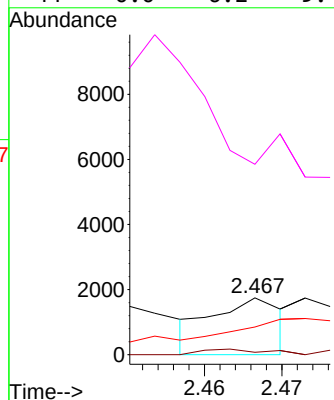
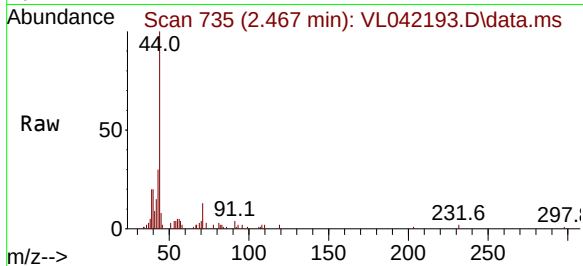




#23
 Vinyl Acetate
 Concen: 0.101 ppbv
 RT: 2.467 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VL042193.D
 Acq: 27 Mar 2025 23:01

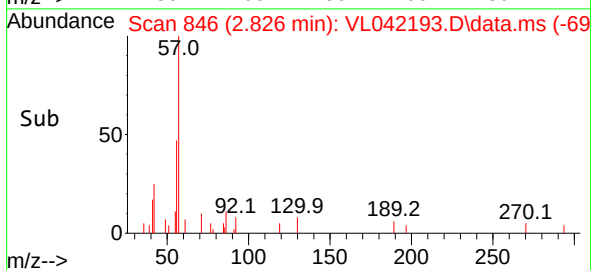
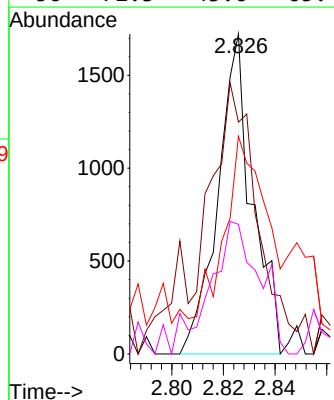
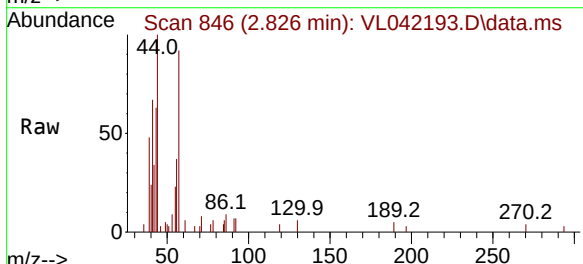
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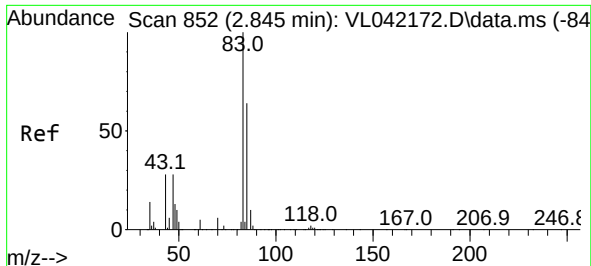
Tgt Ion: 43	Resp:	1086
Ion	Ratio	Lower Upper
43	100	
86	11.1	5.5 8.3#
42	0.0	8.6 13.0#
44	0.0	6.2 9.4#



#26
 Hexane
 Concen: 0.064 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. 0.003 min
 Lab File: VL042193.D
 Acq: 27 Mar 2025 23:01

Tgt Ion: 57	Resp:	1587
Ion	Ratio	Lower Upper
57	100	
41	147.7	76.6 114.8#
43	150.7	207.8 311.8#
56	72.3	43.6 65.4#





#29

Chloroform

Concen: 0.146 ppbv

RT: 2.848 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042193.D

Acq: 27 Mar 2025 23:01

Instrument :

MSVOA_L

ClientSampleId :

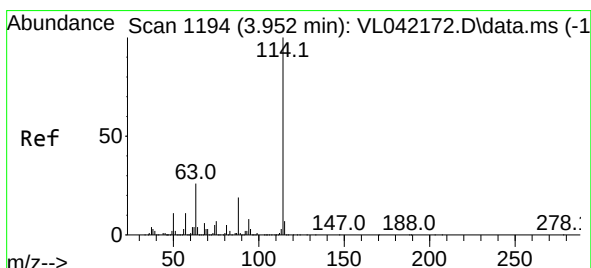
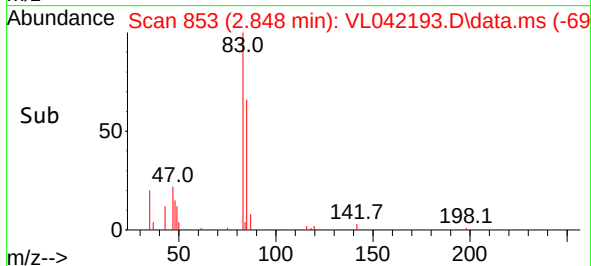
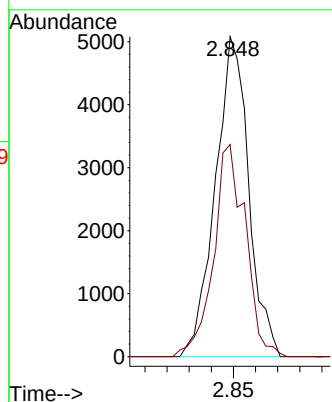
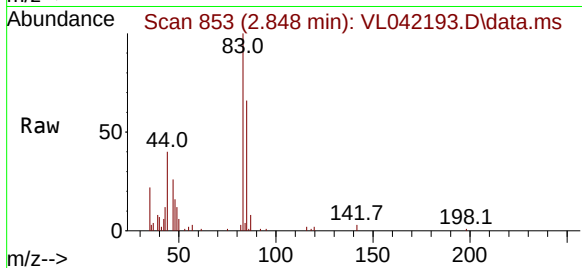
SSSG-B16-2-3262025

Tgt Ion: 83 Resp: 5326

Ion Ratio Lower Upper

83 100

85 65.3 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042193.D

Acq: 27 Mar 2025 23:01

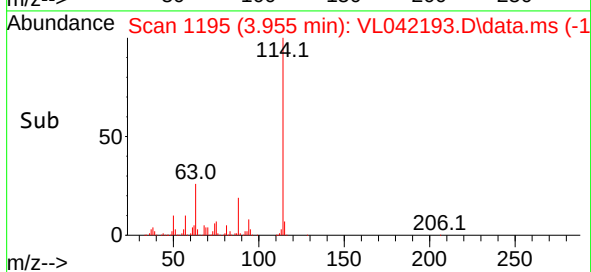
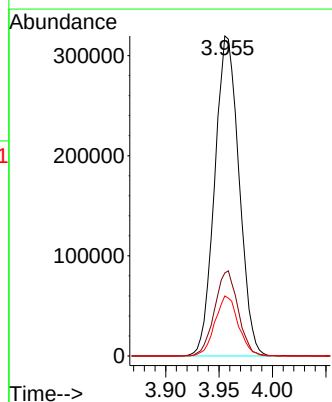
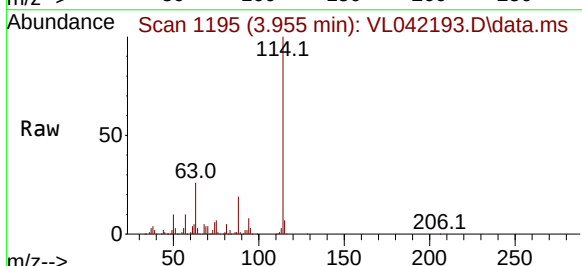
Tgt Ion: 114 Resp: 506720

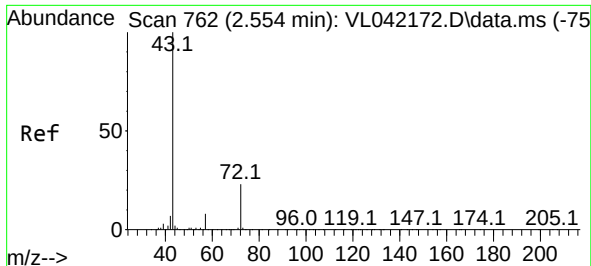
Ion Ratio Lower Upper

114 100

63 25.7 20.7 31.1

88 18.0 15.0 22.4

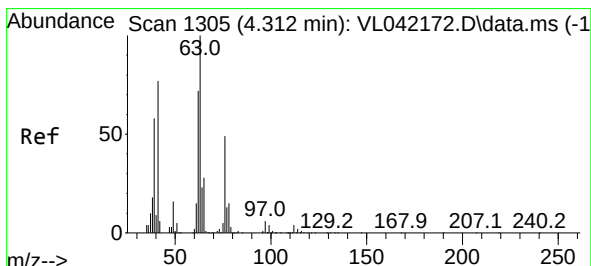
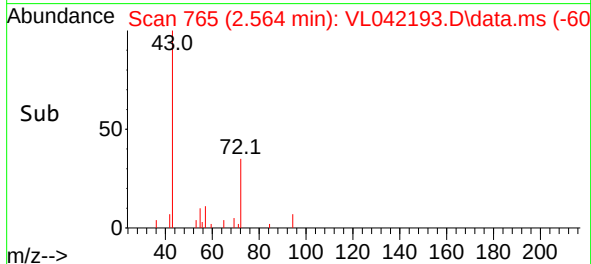
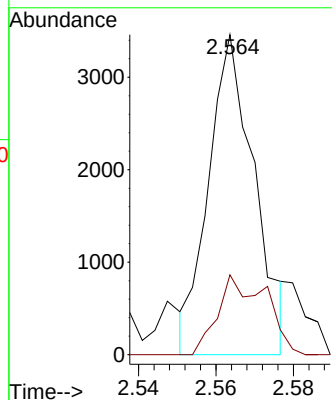
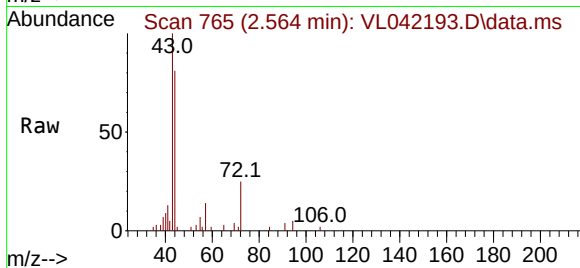




#34
2-Butanone
Concen: 0.077 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.009 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

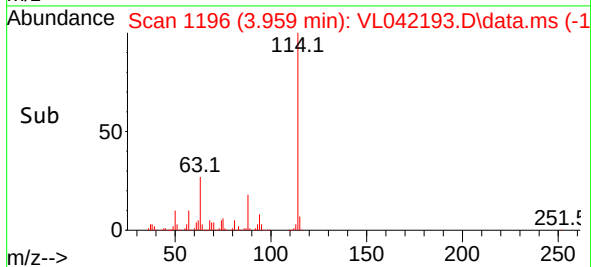
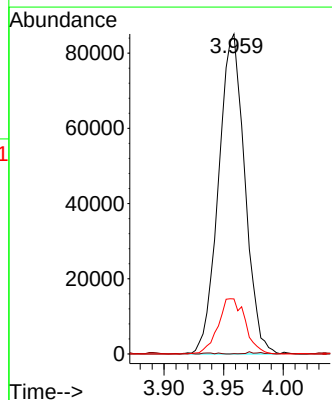
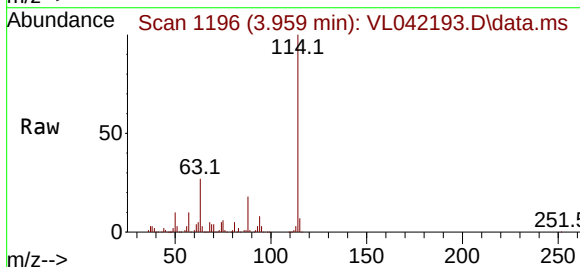
Instrument :
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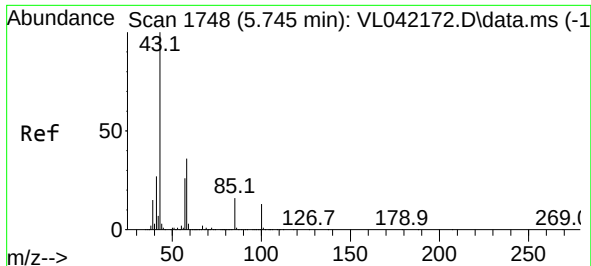
Tgt Ion: 43 Resp: 2838
Ion Ratio Lower Upper
43 100
72 27.1 18.2 27.2



#39
1,2-Dichloropropane
Concen: 7.120 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

Tgt Ion: 63 Resp: 130264
Ion Ratio Lower Upper
63 100
41 0.1 61.7 92.5#
62 17.2 57.6 86.4#

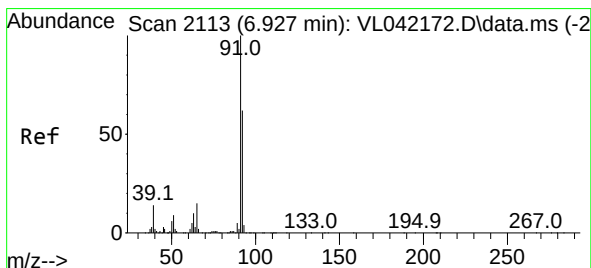
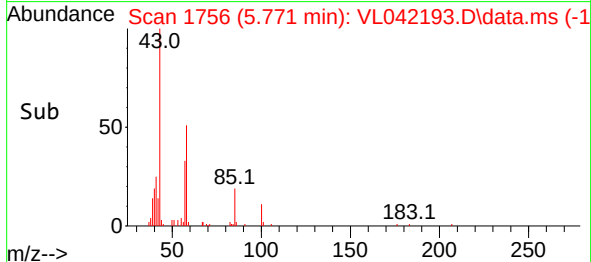
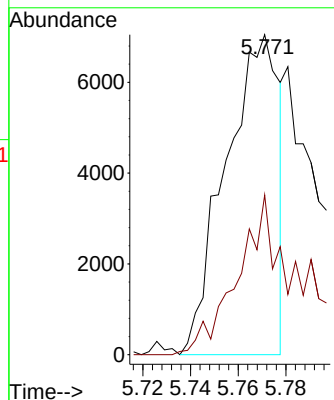
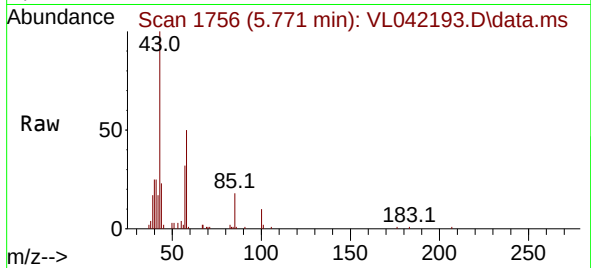




#50
4-Methyl-2-Pentanone
Concen: 0.187 ppbv
RT: 5.771 min Scan# 11
Delta R.T. 0.026 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

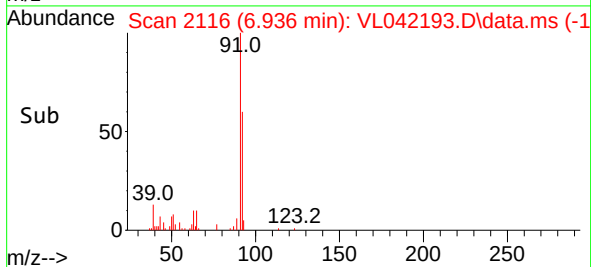
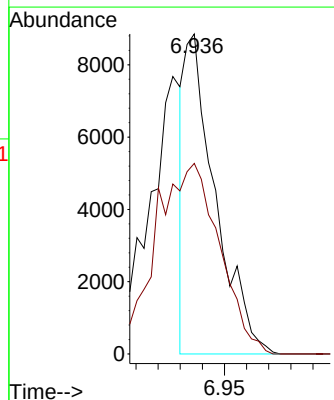
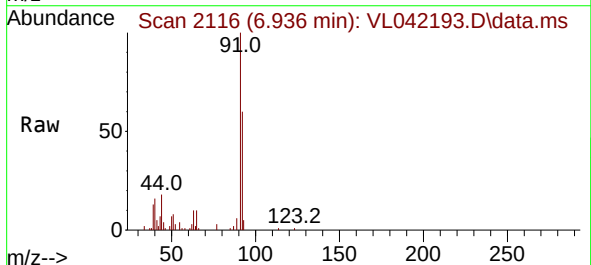
Instrument :
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ClientSampleId :
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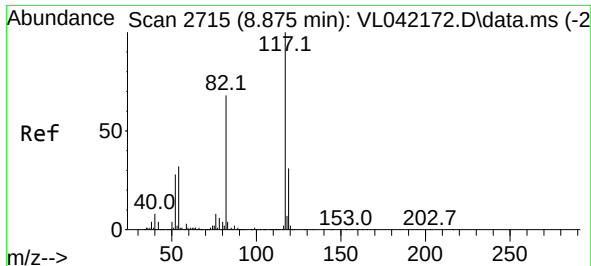
Tgt Ion: 43 Resp: 10890
Ion Ratio Lower Upper
43 100
58 61.5 29.0 43.6#



#53
Toluene
Concen: 0.143 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.009 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

Tgt Ion: 91 Resp: 8493
Ion Ratio Lower Upper
91 100
92 127.1 48.4 72.6#

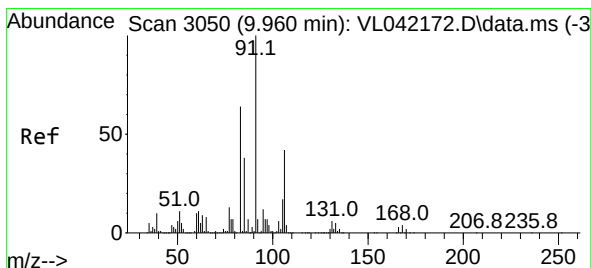
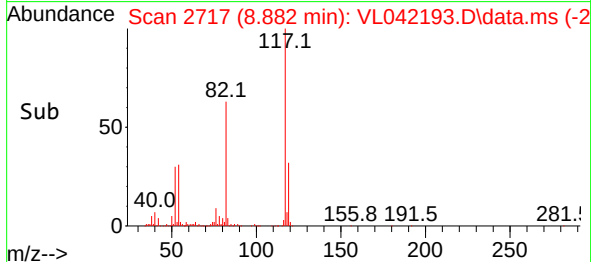
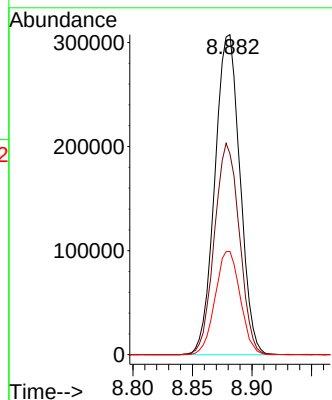
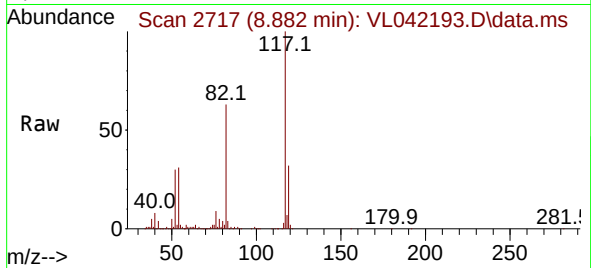




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

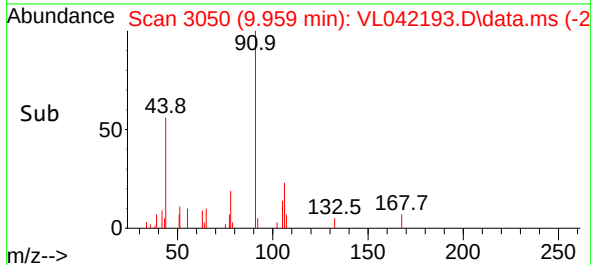
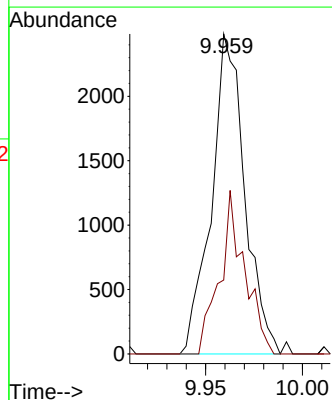
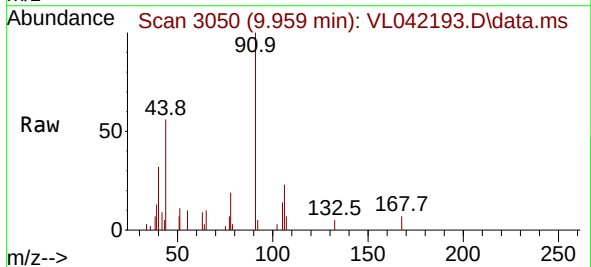
Instrument :
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ClientSampleId :
SSSG-B16-2-3262025

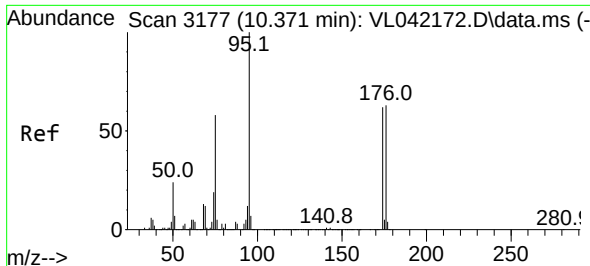
Tgt Ion:117 Resp: 451081
Ion Ratio Lower Upper
117 100
82 65.8 55.8 83.6
119 32.2 25.5 38.3



#60
o-Xylene
Concen: 0.046 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.000 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

Tgt Ion: 91 Resp: 2966
Ion Ratio Lower Upper
91 100
106 38.3 20.8 62.5

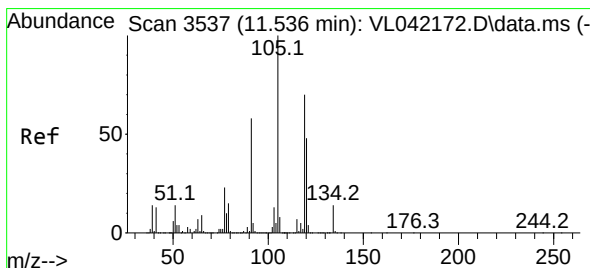
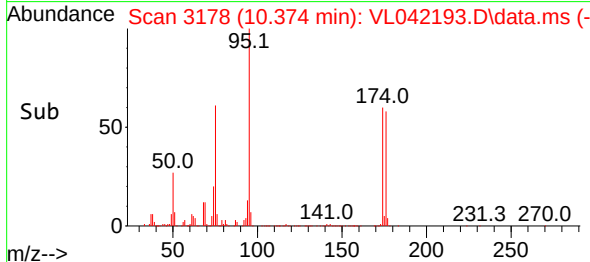
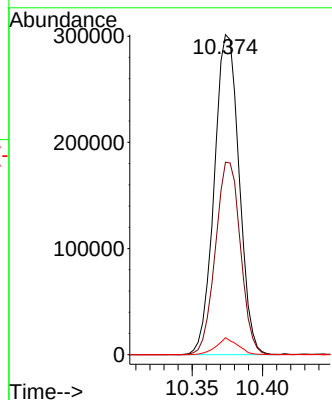
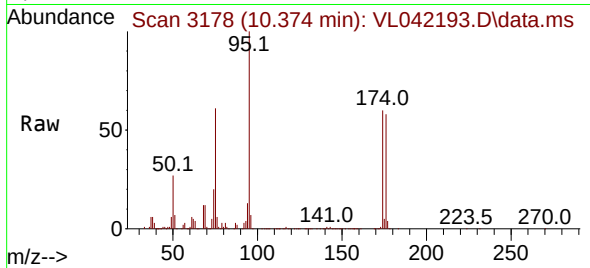




#68
1-Bromo-4-Fluorobenzene
Concen: 10.008 ppbv
RT: 10.374 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-2-3262025

Tgt Ion: 95 Resp: 370742
Ion Ratio Lower Upper
95 100
174 60.6 50.6 76.0
175 4.6 3.8 5.6



#74
1,2,4-Trimethylbenzene
Concen: 0.039 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042193.D
Acq: 27 Mar 2025 23:01

Tgt Ion: 105 Resp: 3112
Ion Ratio Lower Upper
105 100
120 26.7 38.6 58.0#
91 8.9 46.2 69.2#
77 11.6 18.6 27.8#

