

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042192.D
 Acq On : 27 Mar 2025 22:29
 Operator : SY/MD
 Sample : Q1669-07 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B16-1-3262025DL

Quant Time: Mar 28 02:18:46 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)

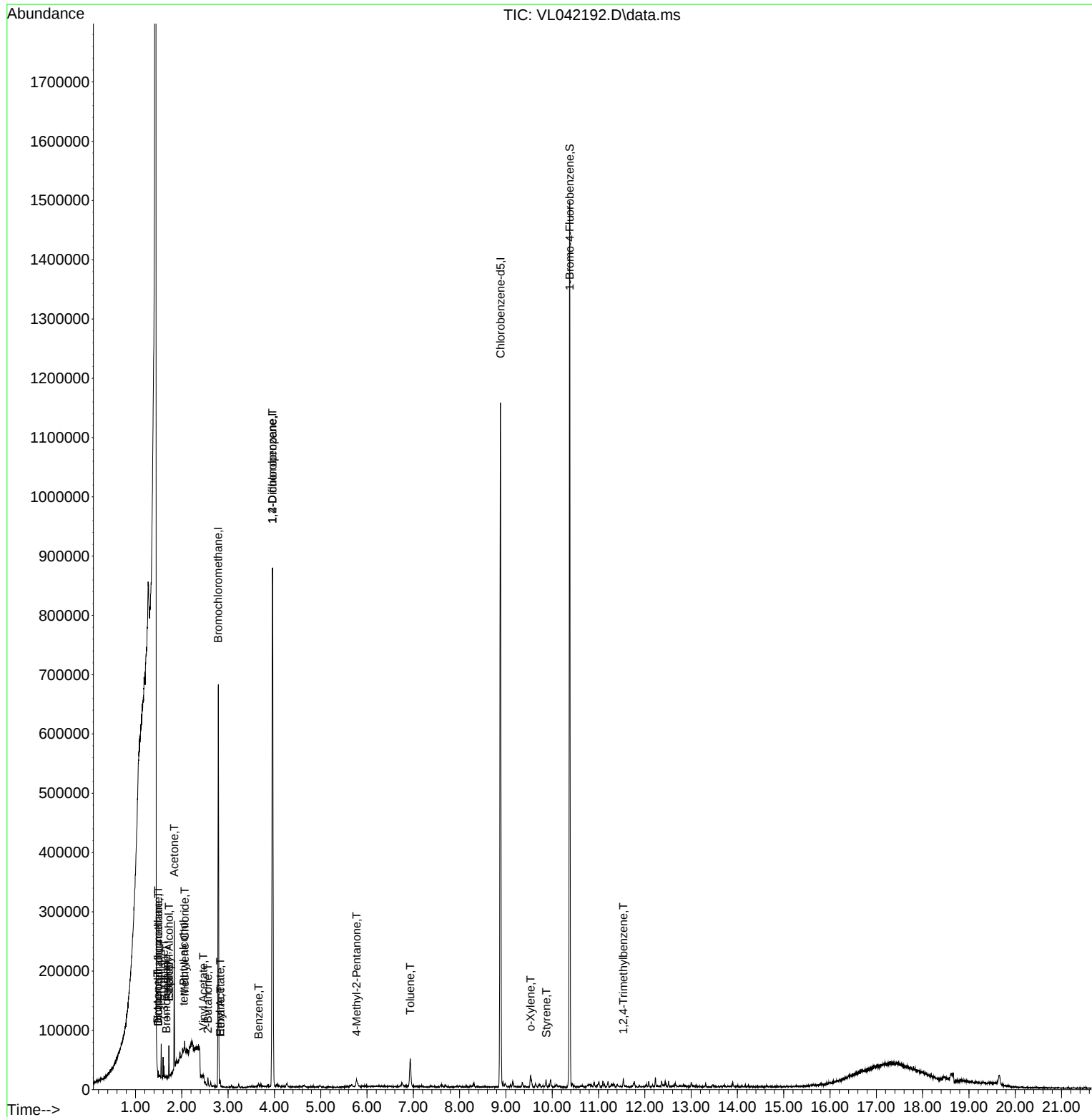
Internal Standards						
1) Bromochloromethane	2.787	49	182834	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	517445	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	472334	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	383930	9.898	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	1740	0.064	ppbv #	72
6) Bromomethane	1.664	94	165	0.033	ppbv #	4
8) Dichlorotetrafluoroethane	1.492	85	1740	0.076	ppbv #	19
9) Propene	1.473	41	506	0.040	ppbv #	49
13) Ethanol	1.722	45	18353	15.359	ppbv #	27
15) Acetone	1.835	43	97895	3.828	ppbv	95
16) 1,3-Butadiene	1.615	39	1080	0.086	ppbv #	11
17) tert-Butyl alcohol	2.043	59	2121	0.067	ppbv #	41
19) Isopropyl Alcohol	1.722	45	18353	1.272	ppbv #	1
20) Methylene Chloride	2.062	84	2299	0.241	ppbv #	79
23) Vinyl Acetate	2.463	43	2010	0.182	ppbv #	56
25) Ethyl Acetate	2.829	43	2478	0.037	ppbv #	79
26) Hexane	2.832	57	2488	0.097	ppbv #	50
34) 2-Butanone	2.564	43	9065	0.242	ppbv	97
36) Benzene	3.658	78	1901	0.037	ppbv #	81
39) 1,2-Dichloropropane	3.959	63	133500	7.146	ppbv #	22
50) 4-Methyl-2-Pentanone	5.774	43	5613	0.094	ppbv #	57
53) Toluene	6.933	91	34361	0.565	ppbv	100
60) o-Xylene	9.532	91	9817	0.146	ppbv	73
61) Styrene	9.872	104	2418	0.073	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	4405	0.052	ppbv #	66

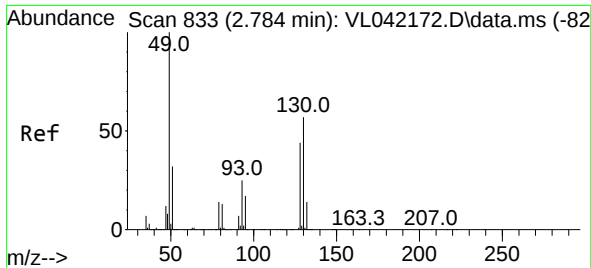
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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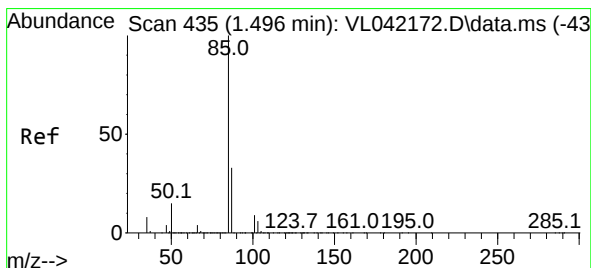
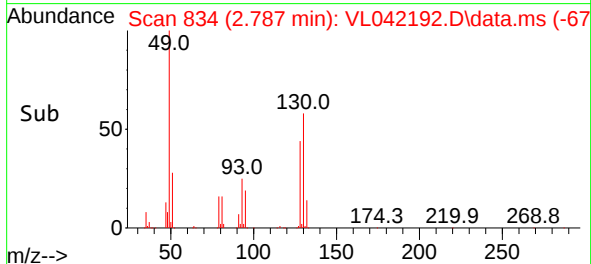
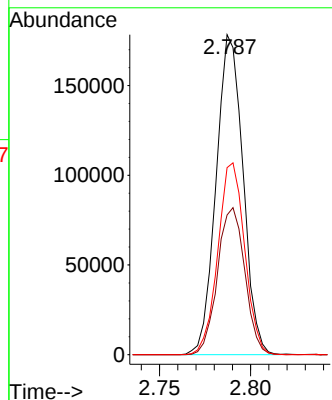
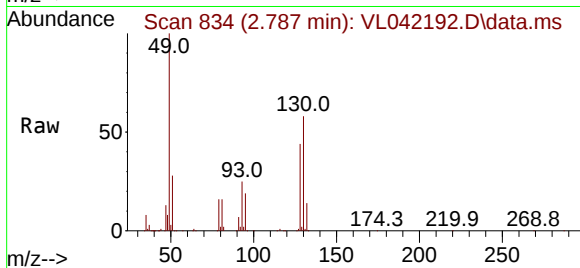




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

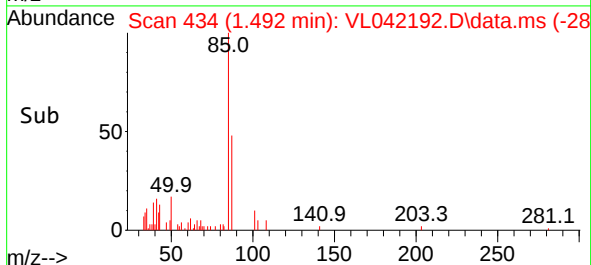
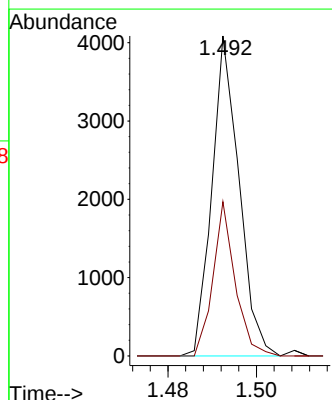
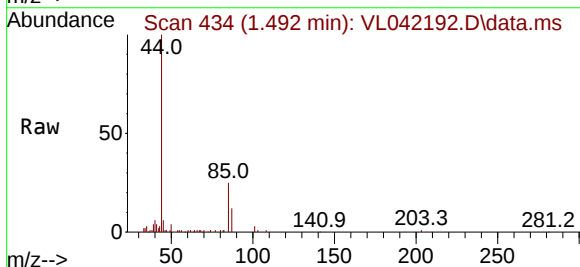
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-1-3262025DL

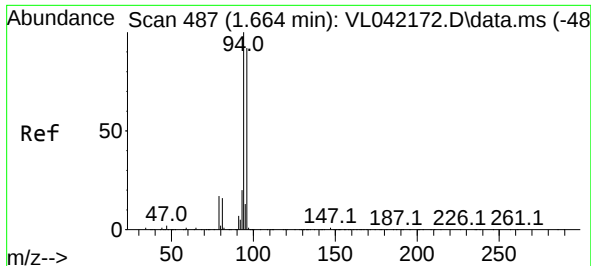
Tgt Ion: 49 Resp: 182834
Ion Ratio Lower Upper
49 100
128 46.7 22.9 68.5
130 59.8 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.064 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.003 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

Tgt Ion: 85 Resp: 1740
Ion Ratio Lower Upper
85 100
87 48.2 26.1 39.1#

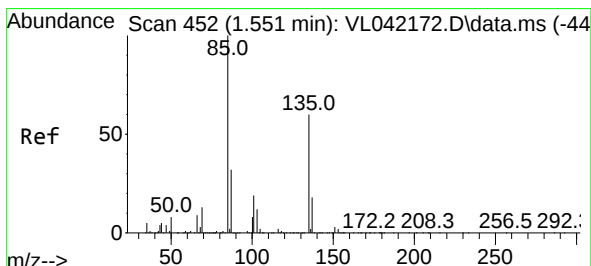
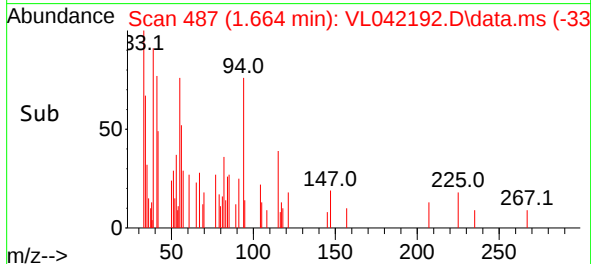
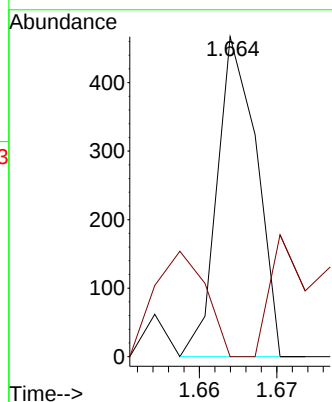
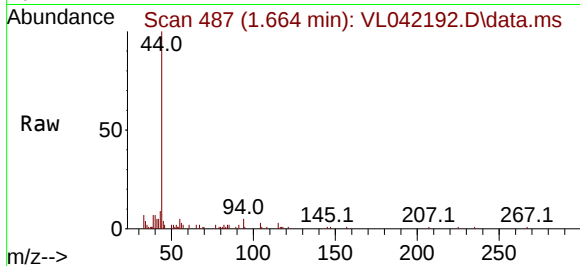




#6
Bromomethane
Concen: 0.033 ppbv
RT: 1.664 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

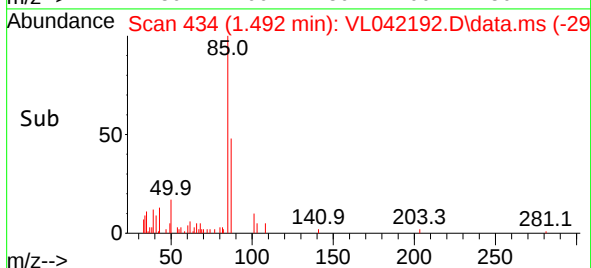
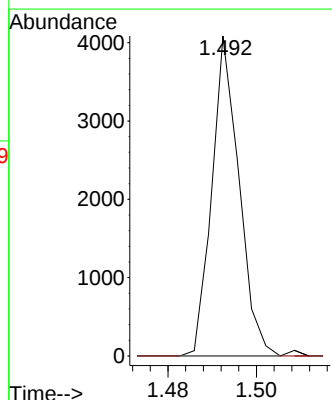
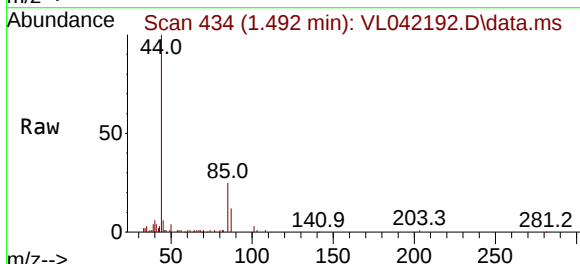
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B16-1-3262025DL

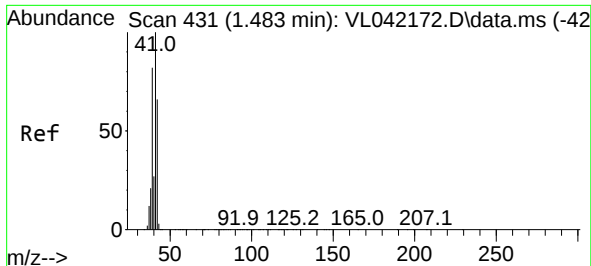
Tgt Ion: 94 Resp: 165
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#8
Dichlorotetrafluoroethane
Concen: 0.076 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.058 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

Tgt Ion: 85 Resp: 1740
Ion Ratio Lower Upper
85 100
135 1.5 52.4 78.6#





#9

Propene

Concen: 0.040 ppbv

RT: 1.473 min Scan# 41

Delta R.T. -0.010 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Instrument :

MSVOA_L

ClientSampleId :

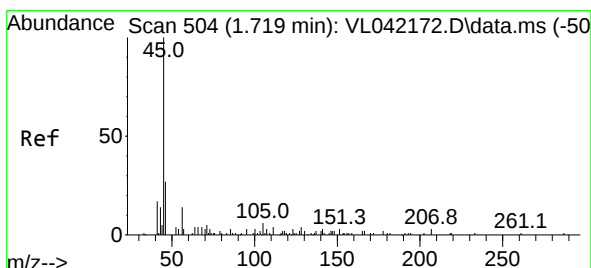
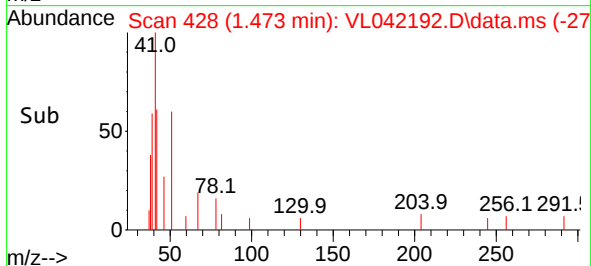
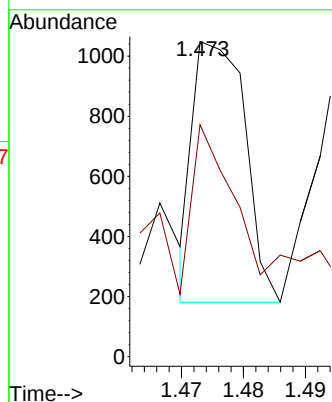
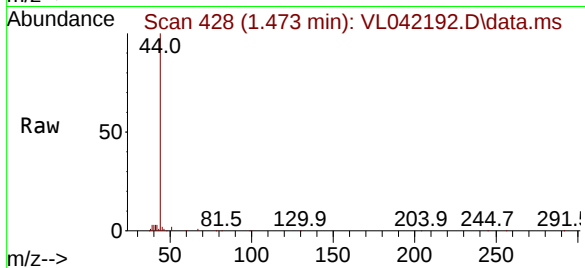
SSSG-B16-1-3262025DL

Tgt Ion: 41 Resp: 506

Ion Ratio Lower Upper

41 100

42 110.7 55.4 83.2#



#13

Ethanol

Concen: 15.359 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042192.D

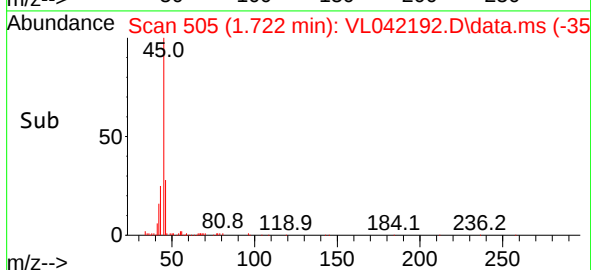
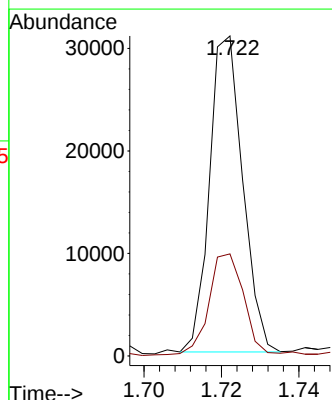
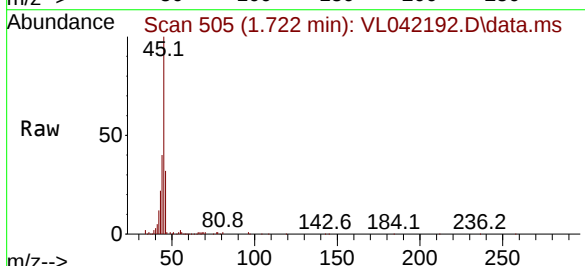
Acq: 27 Mar 2025 22:29

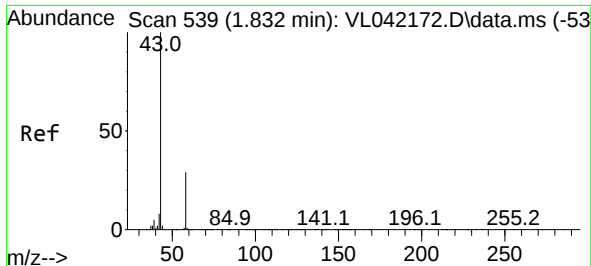
Tgt Ion: 45 Resp: 18353

Ion Ratio Lower Upper

45 100

46 0.0 20.2 80.8#





#15

Acetone

Concen: 3.828 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Instrument :

MSVOA_L

ClientSampleId :

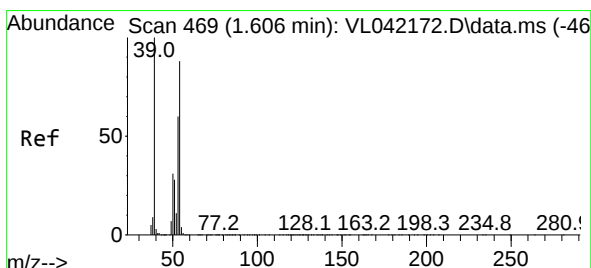
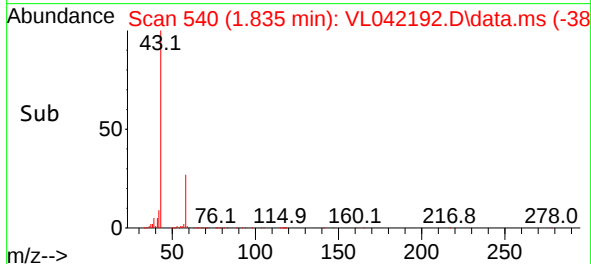
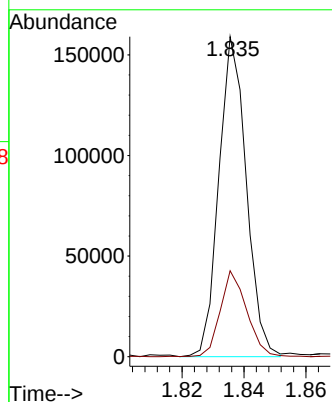
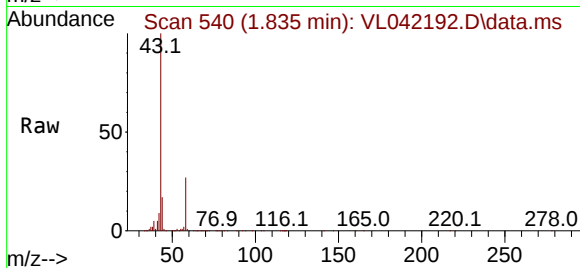
SSSG-B16-1-3262025DL

Tgt Ion: 43 Resp: 97895

Ion Ratio Lower Upper

43 100

58 26.4 23.2 34.8



#16

1,3-Butadiene

Concen: 0.086 ppbv

RT: 1.615 min Scan# 472

Delta R.T. 0.010 min

Lab File: VL042192.D

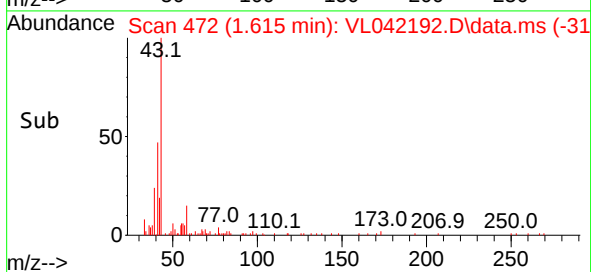
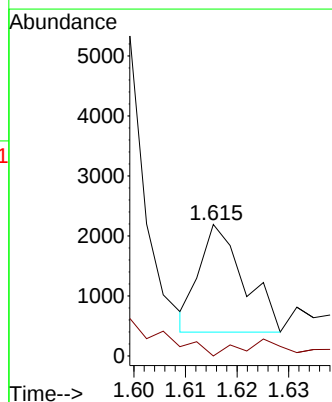
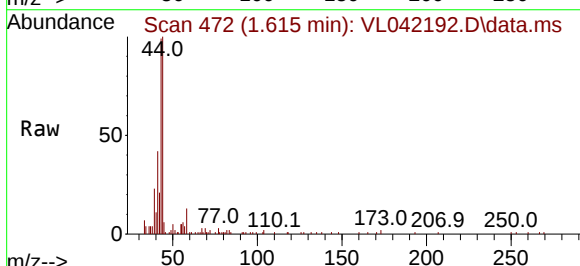
Acq: 27 Mar 2025 22:29

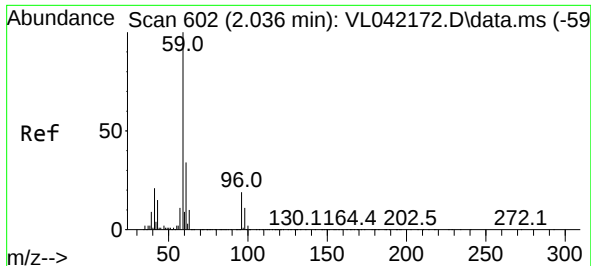
Tgt Ion: 39 Resp: 1080

Ion Ratio Lower Upper

39 100

54 0.0 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.067 ppbv

RT: 2.043 min Scan# 602

Delta R.T. 0.006 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Instrument :

MSVOA_L

ClientSampleId :

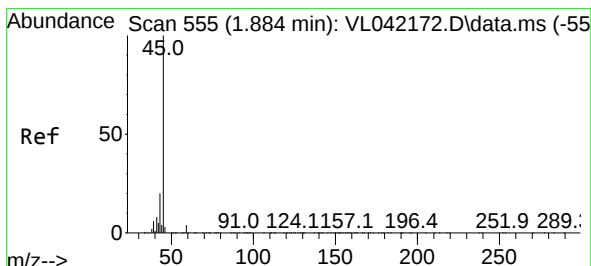
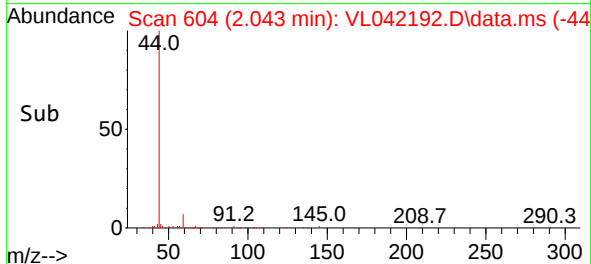
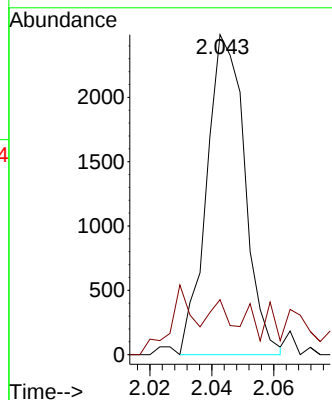
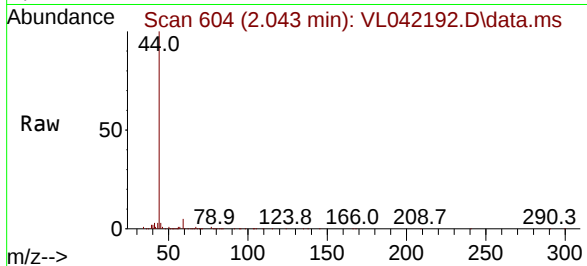
SSSG-B16-1-3262025DL

Tgt Ion: 59 Resp: 2121

Ion Ratio Lower Upper

59 100

57 33.7 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 1.272 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.162 min

Lab File: VL042192.D

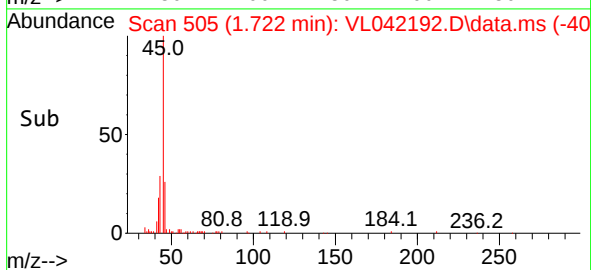
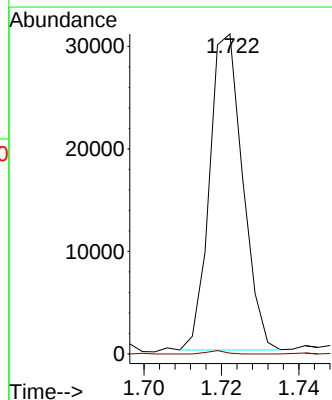
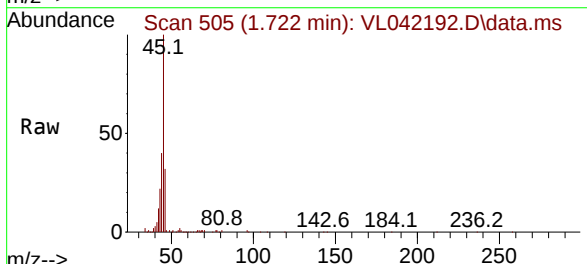
Acq: 27 Mar 2025 22:29

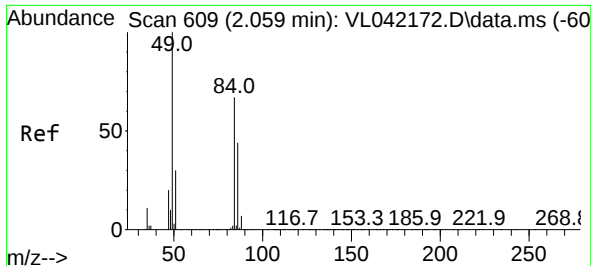
Tgt Ion: 45 Resp: 18353

Ion Ratio Lower Upper

45 100

58 139.5 36.9 55.3#

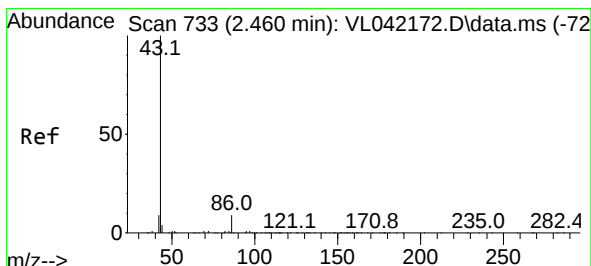
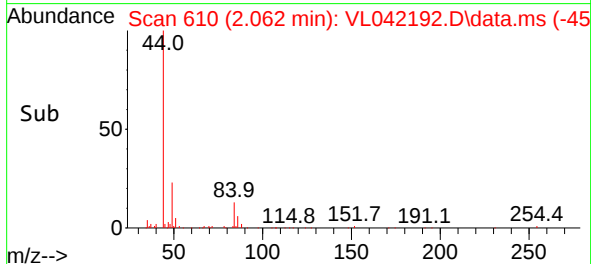
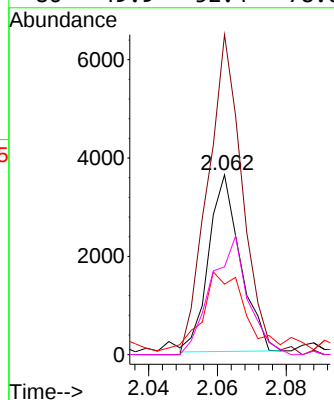
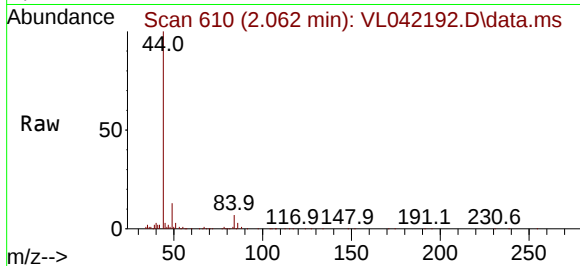




#20
Methylene Chloride
Concen: 0.241 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

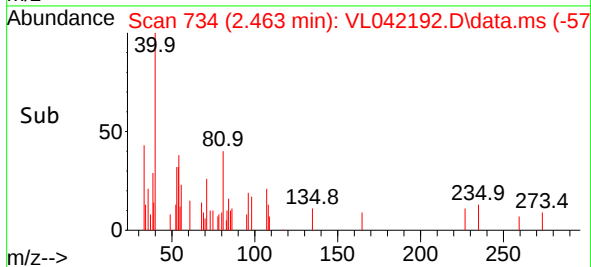
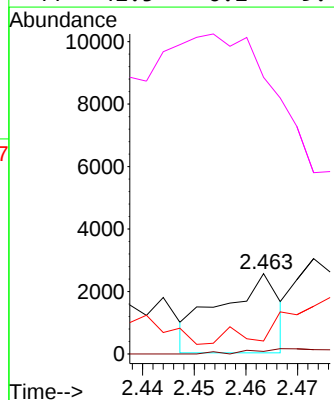
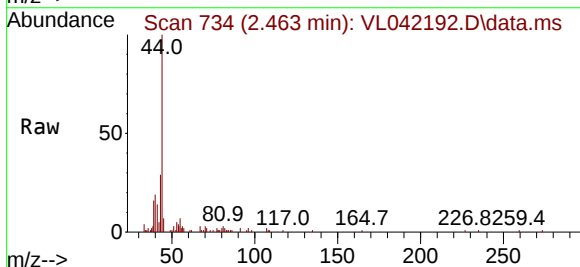
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-1-3262025DL

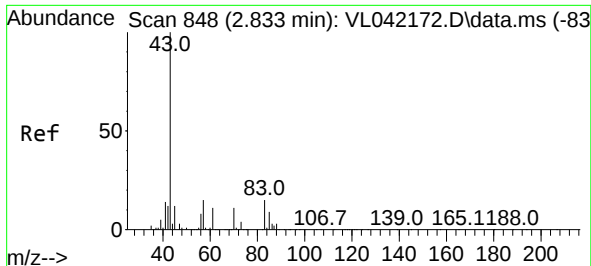
Tgt Ion:	84	Resp:	2299
Ion	Ratio	Lower	Upper
84	100		
49	179.1	120.2	180.4
51	34.5	37.4	56.0#
86	49.9	52.4	78.6#



#23
Vinyl Acetate
Concen: 0.182 ppbv
RT: 2.463 min Scan# 734
Delta R.T. 0.003 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

Tgt Ion:	43	Resp:	2010
Ion	Ratio	Lower	Upper
43	100		
86	5.3	5.5	8.3#
42	0.0	8.6	13.0#
44	42.5	6.2	9.4#





#25

Ethyl Acetate

Concen: 0.037 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.003 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B16-1-3262025DL

Tgt Ion: 43 Resp: 2478

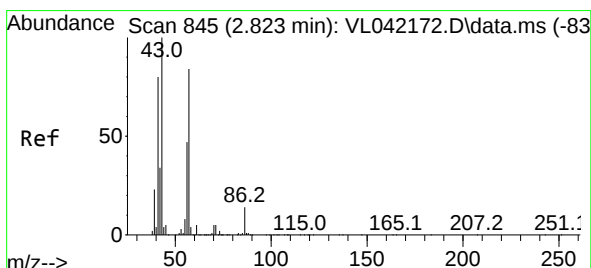
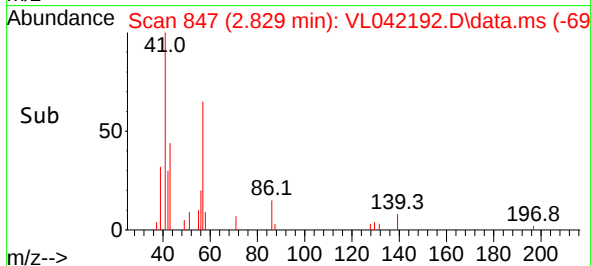
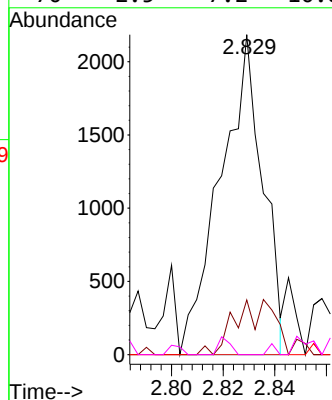
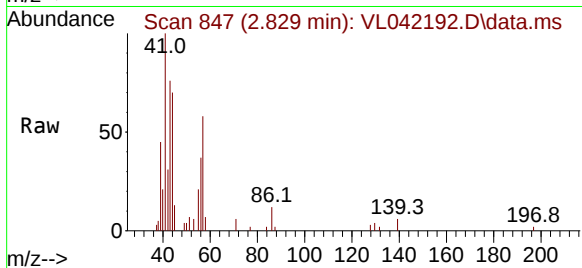
Ion Ratio Lower Upper

43 100

45 17.3 8.2 12.2#

61 0.0 7.3 10.9#

70 2.5 7.2 10.8#



#26

Hexane

Concen: 0.097 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.010 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Tgt Ion: 57 Resp: 2488

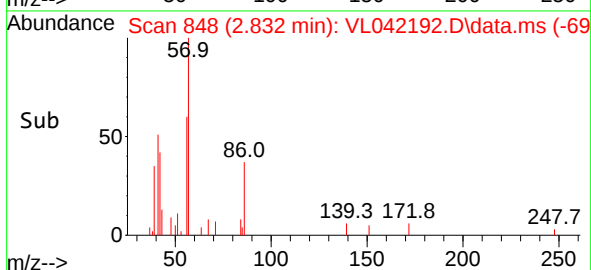
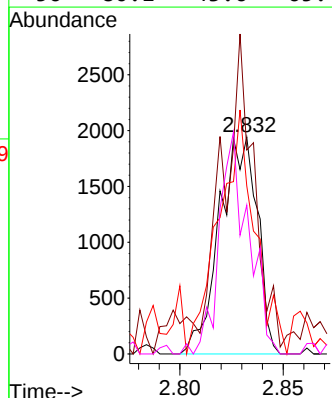
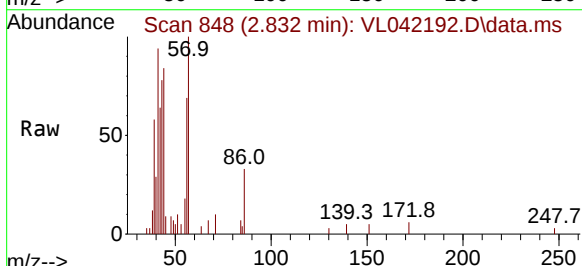
Ion Ratio Lower Upper

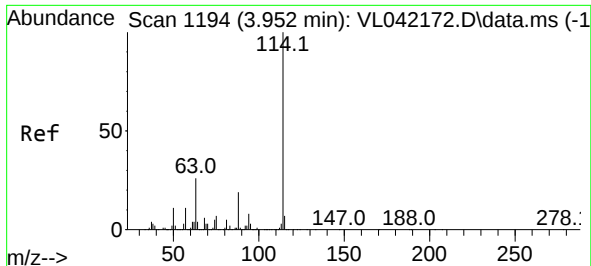
57 100

41 115.4 76.6 114.8#

43 145.8 207.8 311.8#

56 80.1 43.6 65.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B16-1-3262025DL

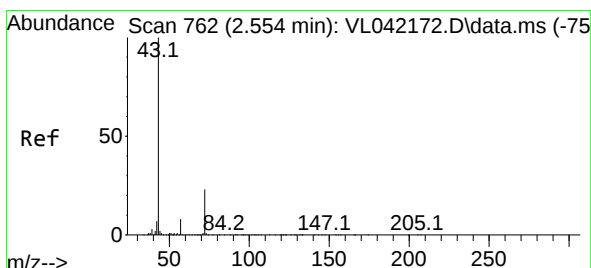
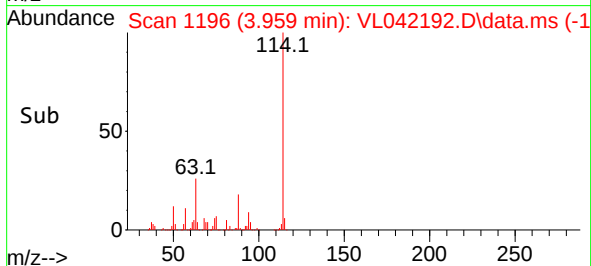
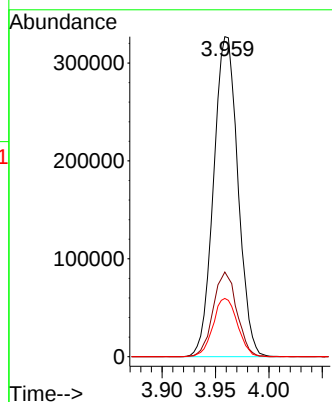
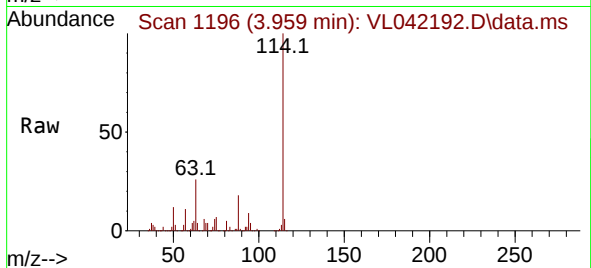
Tgt Ion:114 Resp: 517445

Ion Ratio Lower Upper

114 100

63 25.8 20.7 31.1

88 18.3 15.0 22.4



#34

2-Butanone

Concen: 0.242 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL042192.D

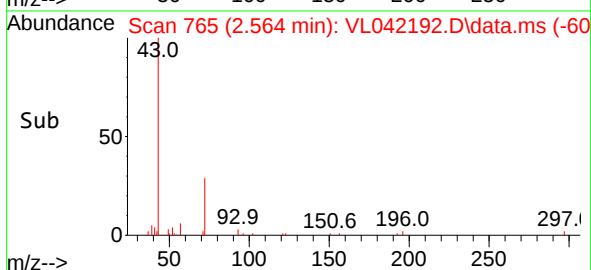
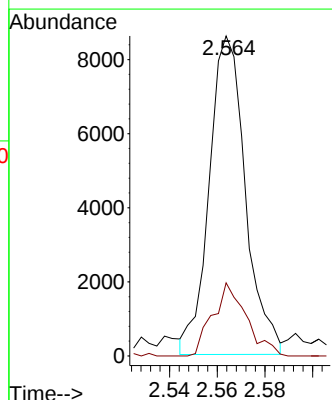
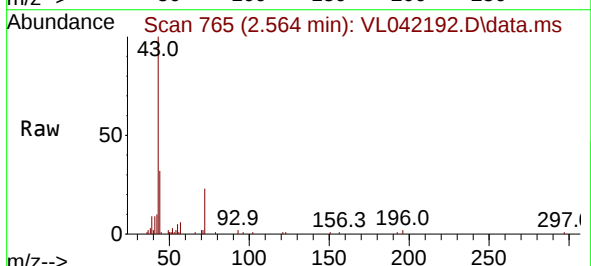
Acq: 27 Mar 2025 22:29

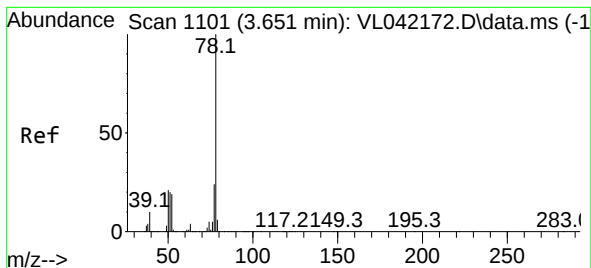
Tgt Ion: 43 Resp: 9065

Ion Ratio Lower Upper

43 100

72 21.4 18.2 27.2





#36

Benzene

Concen: 0.037 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B16-1-3262025DL

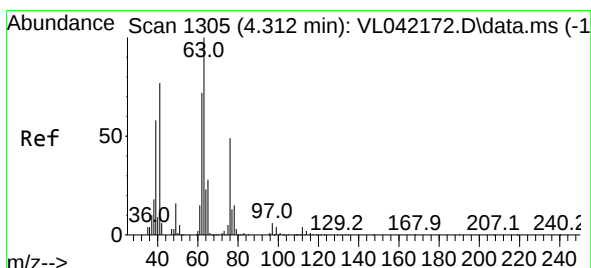
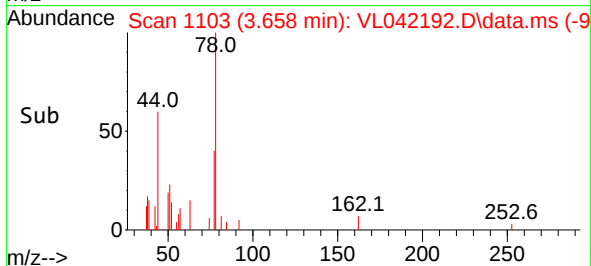
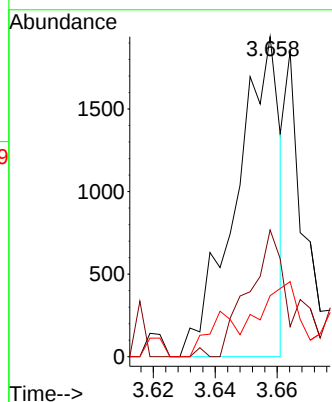
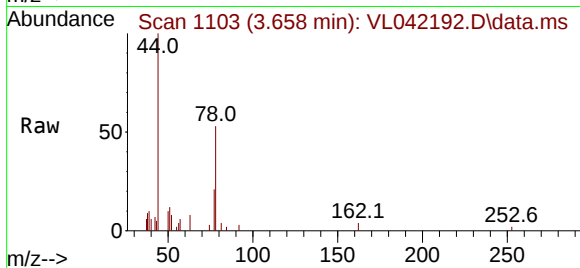
Tgt Ion: 78 Resp: 1901

Ion Ratio Lower Upper

78 100

77 39.6 19.1 28.7#

50 19.0 16.6 24.8



#39

1,2-Dichloropropane

Concen: 7.146 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042192.D

Acq: 27 Mar 2025 22:29

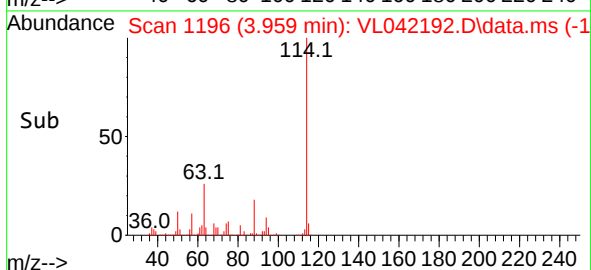
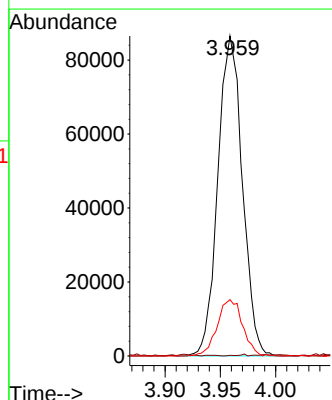
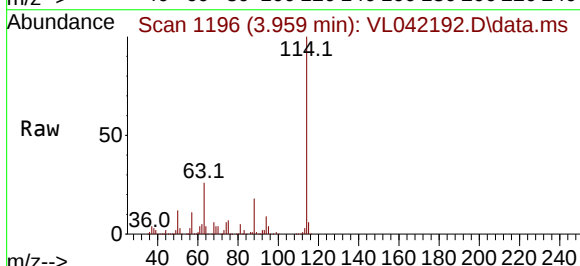
Tgt Ion: 63 Resp: 133500

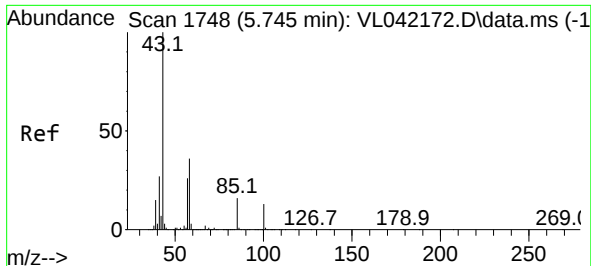
Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.6 57.6 86.4#

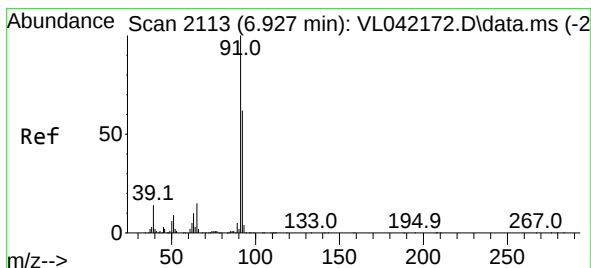
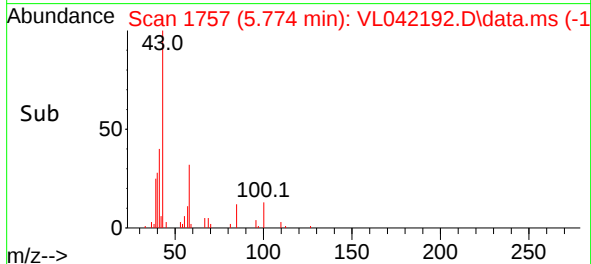
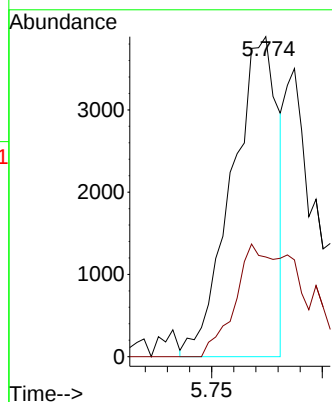
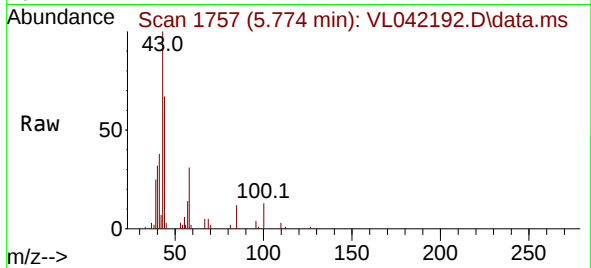




#50
4-Methyl-2-Pentanone
Concen: 0.094 ppbv
RT: 5.774 min Scan# 11
Delta R.T. 0.029 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

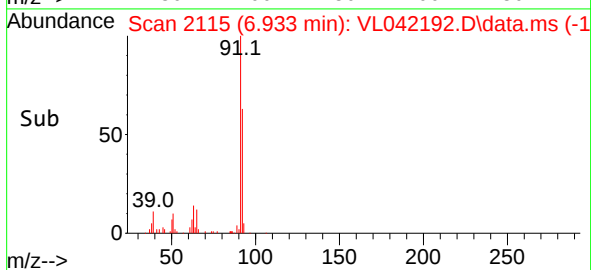
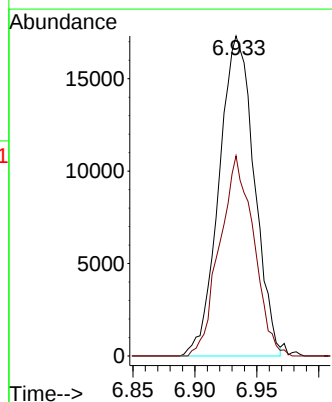
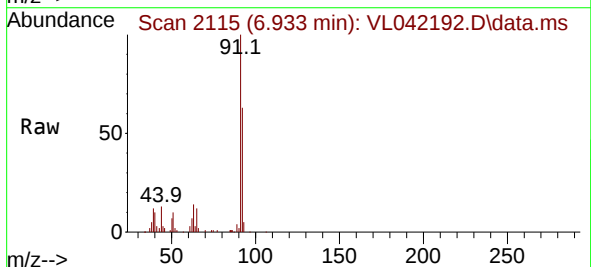
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-1-3262025DL

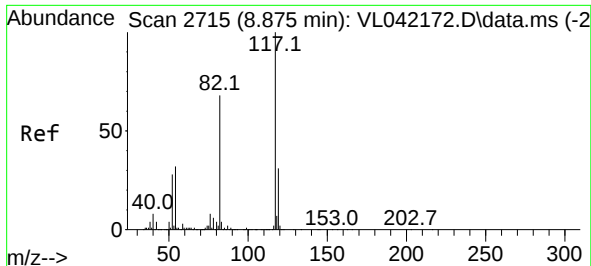
Tgt Ion: 43 Resp: 5613
Ion Ratio Lower Upper
43 100
58 61.6 29.0 43.6#



#53
Toluene
Concen: 0.565 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

Tgt Ion: 91 Resp: 34361
Ion Ratio Lower Upper
91 100
92 60.3 48.4 72.6

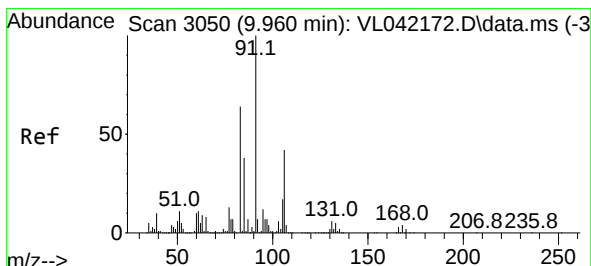
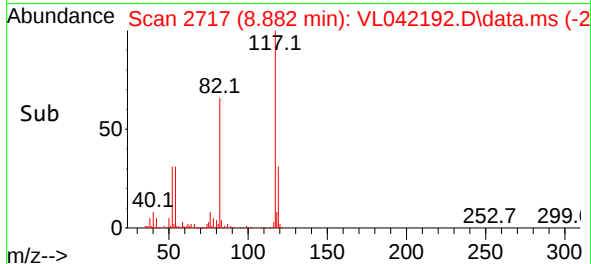
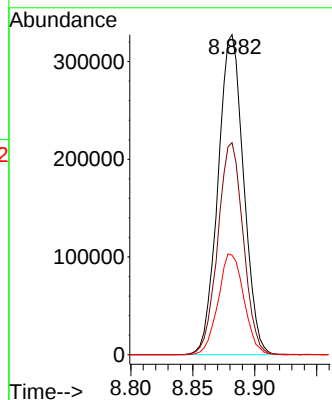
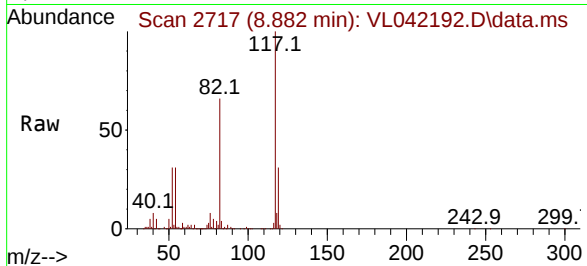




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

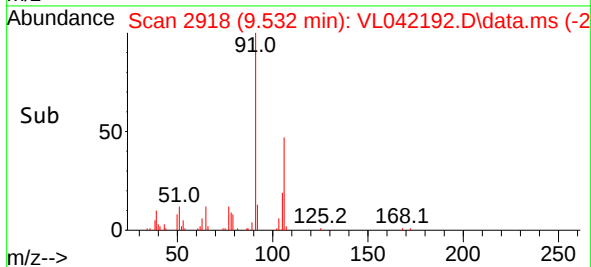
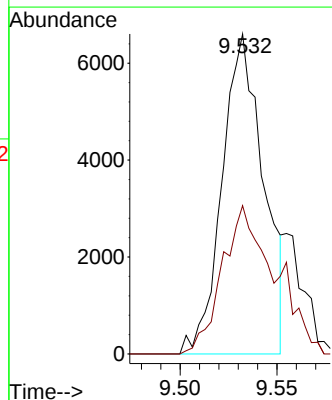
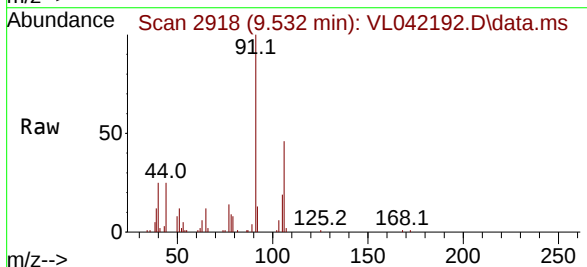
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B16-1-3262025DL

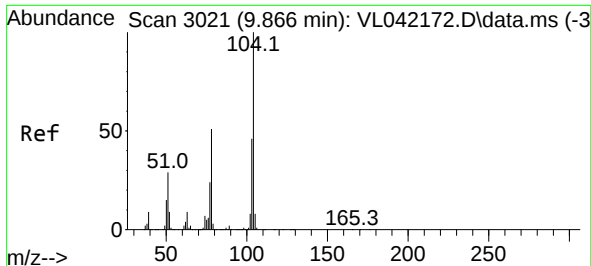
Tgt Ion:117 Resp: 472334
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 31.7 25.5 38.3



#60
o-Xylene
Concen: 0.146 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.427 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

Tgt Ion: 91 Resp: 9817
Ion Ratio Lower Upper
91 100
106 58.9 20.8 62.5

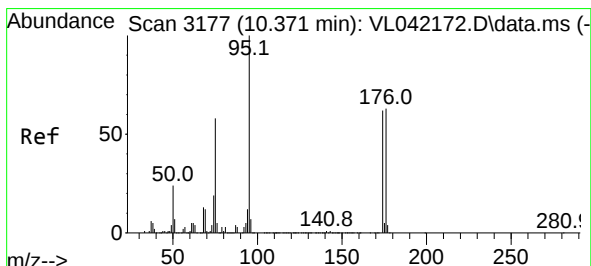
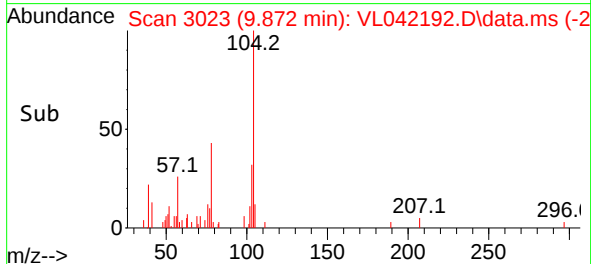
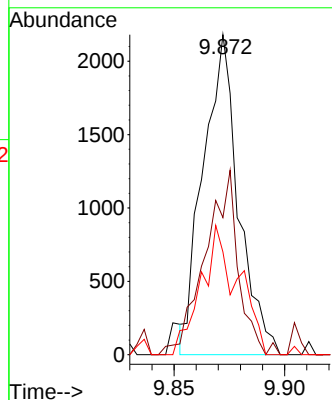
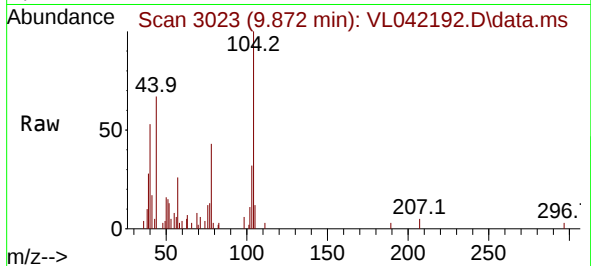




#61
Styrene
Concen: 0.073 ppbv
RT: 9.872 min Scan# 3021
Delta R.T. 0.006 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

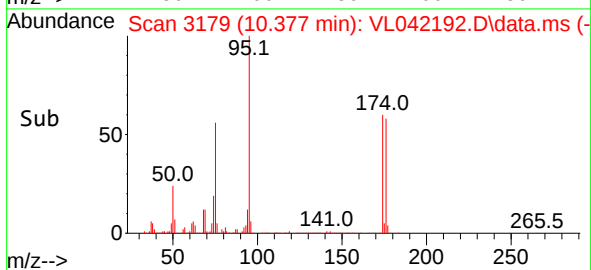
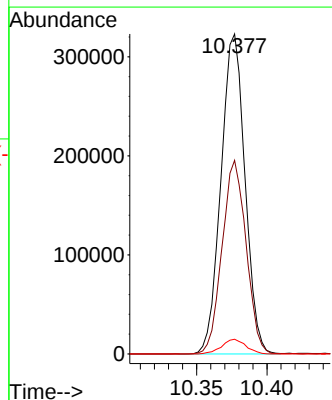
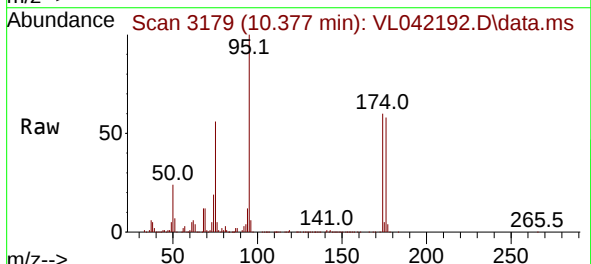
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B16-1-3262025DL

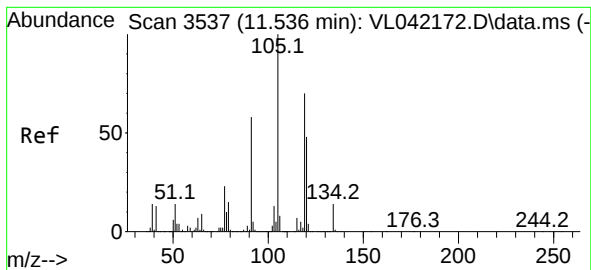
Tgt Ion:104 Resp: 2418
Ion Ratio Lower Upper
104 100
78 56.3 41.8 62.6
103 43.0 37.0 55.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.898 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042192.D
Acq: 27 Mar 2025 22:29

Tgt Ion: 95 Resp: 383930
Ion Ratio Lower Upper
95 100
174 60.5 50.6 76.0
175 4.6 3.8 5.6





#74

1,2,4-Trimethylbenzene

Concen: 0.052 ppbv

RT: 11.536 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL042192.D

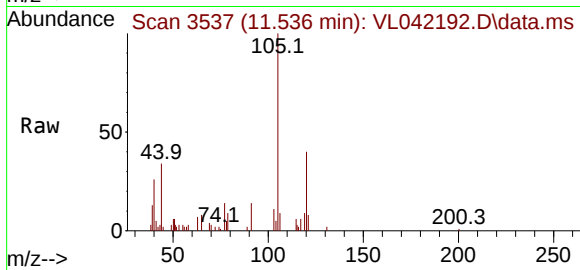
Acq: 27 Mar 2025 22:29

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B16-1-3262025DL



Tgt Ion:	105	Resp:	4405
Ion	Ratio	Lower	Upper
105	100		
120	39.7	38.6	58.0
91	14.4	46.2	69.2#
77	13.7	18.6	27.8#

