

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042247.D
 Acq On : 07 Apr 2025 23:41
 Operator : SY/MD
 Sample : Q1725-06 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025

Quant Time: Apr 08 01:38:20 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)

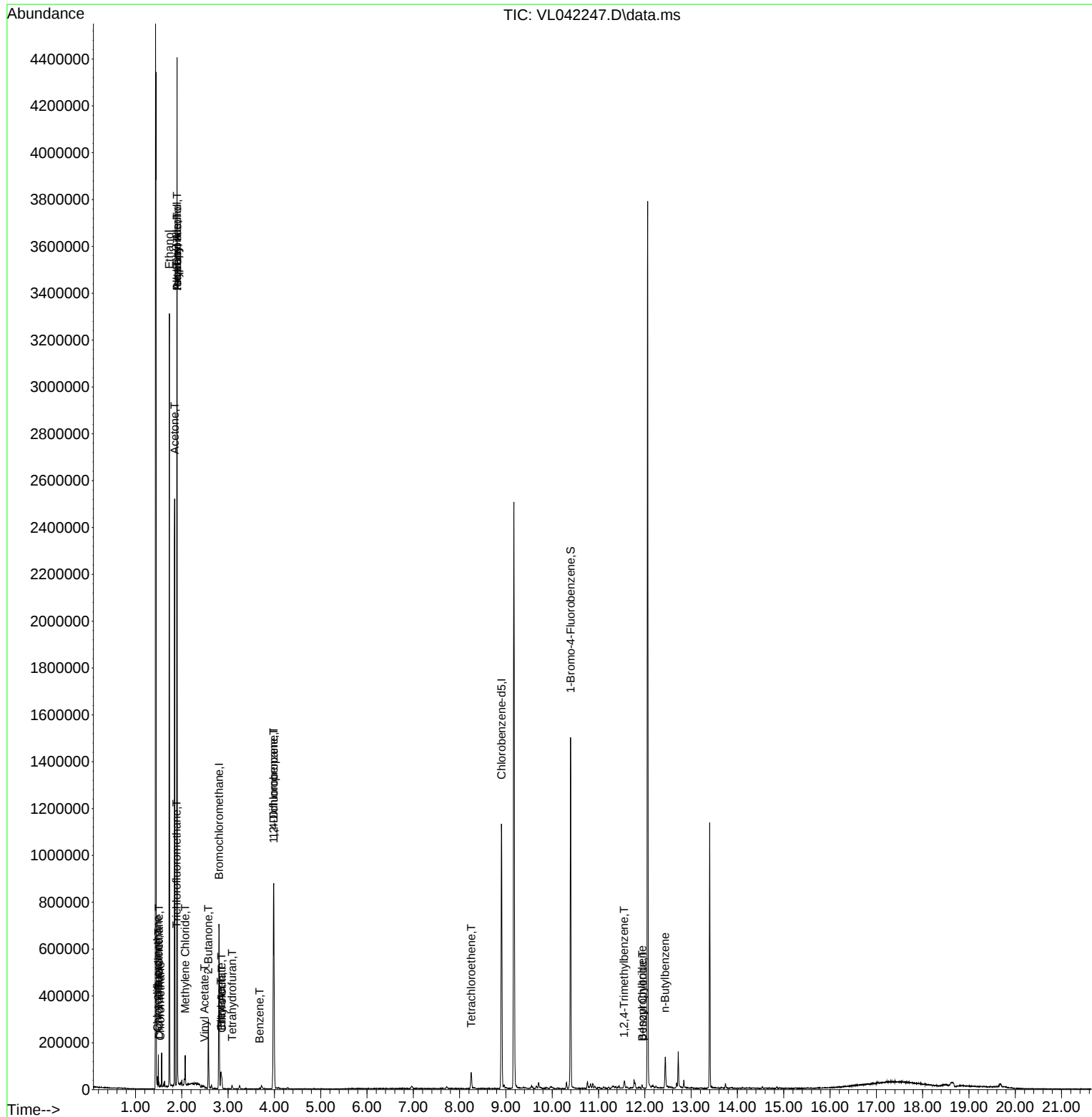
Internal Standards							
1)	Bromochloromethane	2.803	49	194534	10.000	ppbv	0.02
33)	1,4-Difluorobenzene	3.985	114	495845	10.000	ppbv	0.03
55)	Chlorobenzene-d5	8.904	117	437126	10.000	ppbv	0.03
System Monitoring Compounds							
68)	1-Bromo-4-Fluorobenzene	10.396	95	361726	10.077	ppbv	0.03
Spiked Amount		10.000	Range	65 - 135	Recovery	=	100.800%
Target Compounds							Qvalue
2)	Dichlorodifluoromethane	1.505	85	3454	0.120	ppbv	95
3)	Chlorodifluoromethane	1.473	51	11455	0.390	ppbv #	66
4)	Chloromethane	1.538	50	1900	0.162	ppbv	96
9)	Propene	1.897	41	225725	16.783	ppbv	87
11)	Trichlorofluoromethane	1.887	101	1623	0.058	ppbv	88
13)	Ethanol	1.732	45	1184959	932.018	ppbv	87
15)	Acetone	1.845	43	1081614	39.756	ppbv	98
16)	1,3-Butadiene	1.496	39	14224	1.071	ppbv #	13
17)	tert-Butyl alcohol	1.897	59	88824	2.621	ppbv	95
19)	Isopropyl Alcohol	1.897	45	1799475	117.225	ppbv #	32
20)	Methylene Chloride	2.075	84	17220	1.699	ppbv	96
21)	Allyl Chloride	1.897	41	225725	11.764	ppbv #	76
23)	Vinyl Acetate	2.492	43	1963	0.167	ppbv #	65
25)	Ethyl Acetate	2.855	43	23565	0.334	ppbv	97
26)	Hexane	2.845	57	13903	0.510	ppbv #	63
29)	Chloroform	2.865	83	14300	0.358	ppbv	94
34)	2-Butanone	2.573	43	176547	4.910	ppbv	98
36)	Benzene	3.680	78	1853	0.038	ppbv #	92
39)	1,2-Dichloropropane	3.981	63	129329	7.224	ppbv #	22
41)	Tetrahydrofuran	3.088	42	4558	0.220	ppbv	96
52)	Tetrachloroethene	8.250	164	12097	0.621	ppbv	88
66)	Benzyl Chloride	11.947	91	1899	0.208	ppbv #	66
69)	p-Isopropyltoluene	11.943	119	4989	0.048	ppbv #	70
70)	n-Butylbenzene	12.439	91	8947	0.085	ppbv #	37
74)	1,2,4-Trimethylbenzene	11.552	105	4585	0.059	ppbv #	72

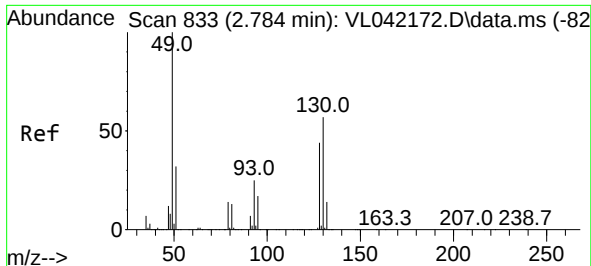
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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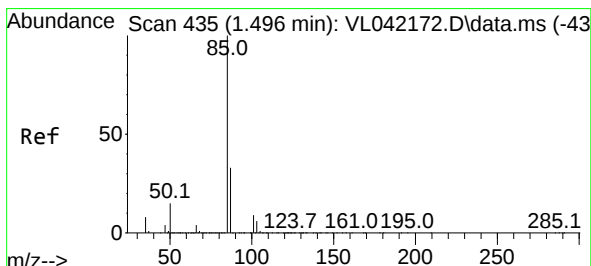
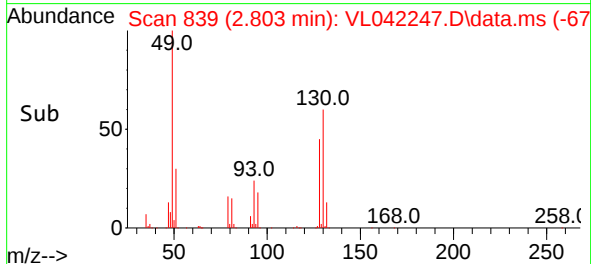
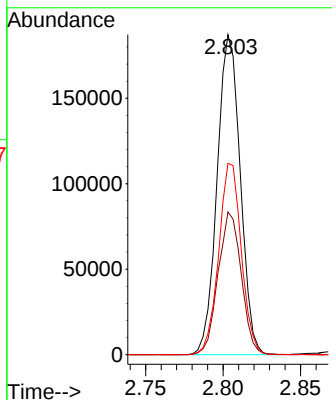
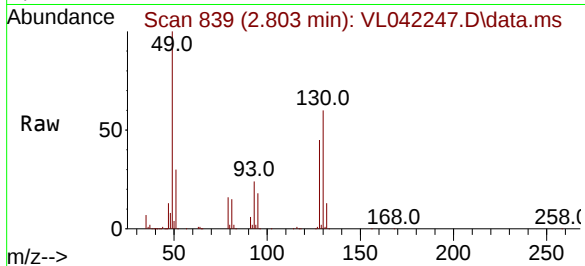




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

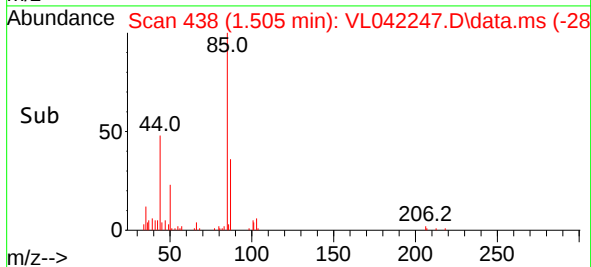
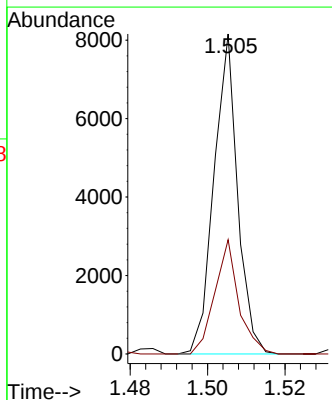
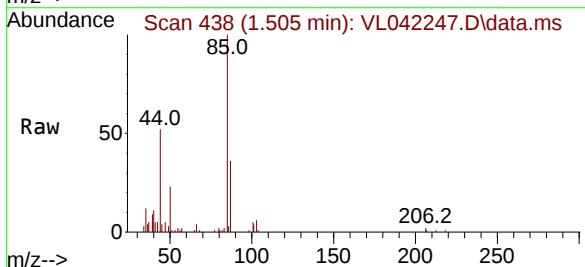
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

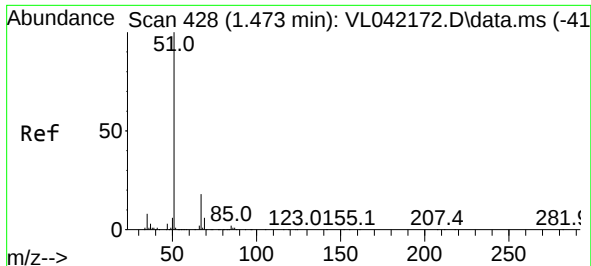
Tgt Ion: 49 Resp: 194534
Ion Ratio Lower Upper
49 100
128 44.5 22.9 68.5
130 58.5 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.120 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 85 Resp: 3454
Ion Ratio Lower Upper
85 100
87 35.7 26.1 39.1

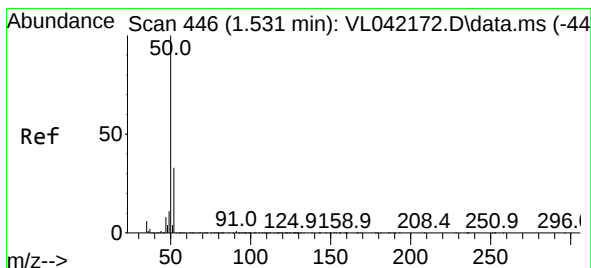
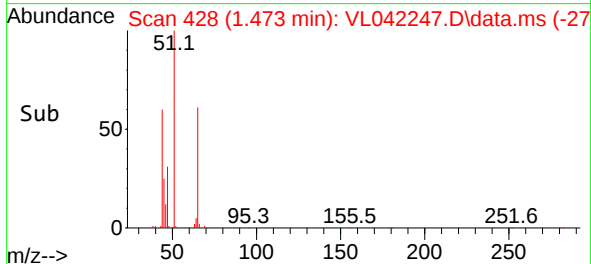
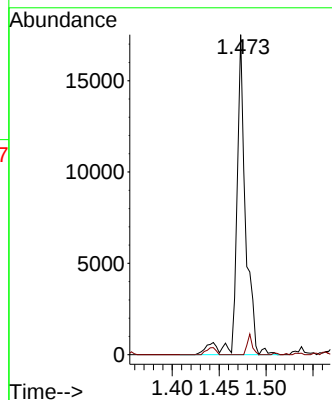
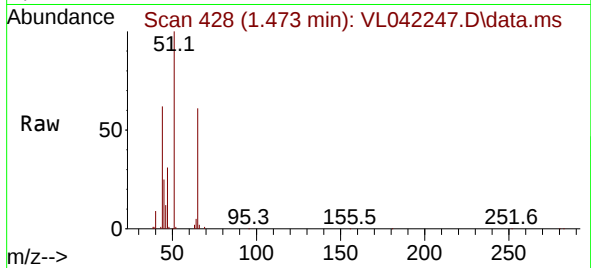




#3
Chlorodifluoromethane
Concen: 0.390 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

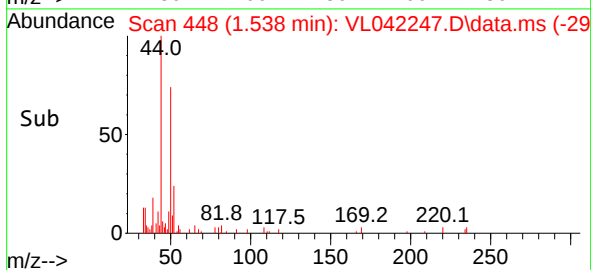
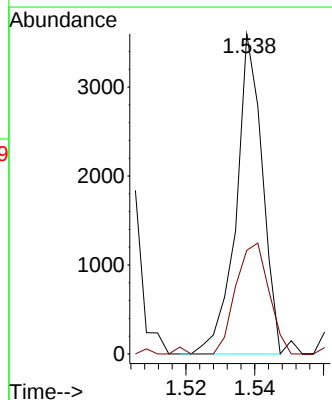
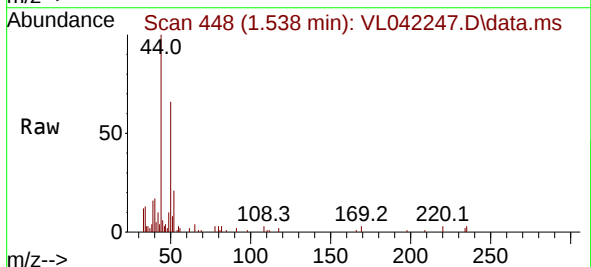
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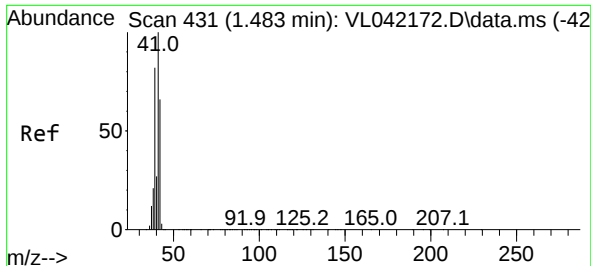
Tgt Ion: 51 Resp: 11455
Ion Ratio Lower Upper
51 100
67 3.7 15.0 22.6#



#4
Chloromethane
Concen: 0.162 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 50 Resp: 1900
Ion Ratio Lower Upper
50 100
52 30.3 26.1 39.1





#9

Propene

Concen: 16.783 ppbv

RT: 1.897 min Scan# 51

Delta R.T. 0.414 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

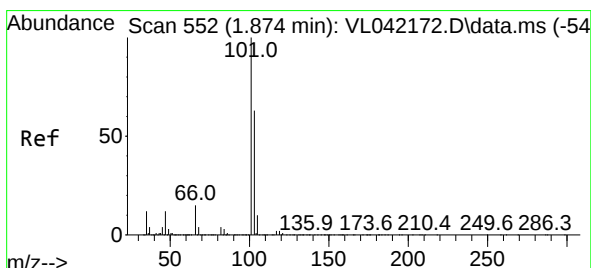
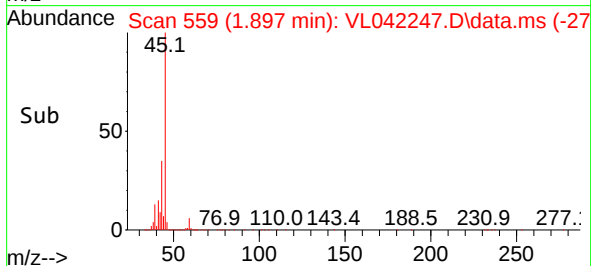
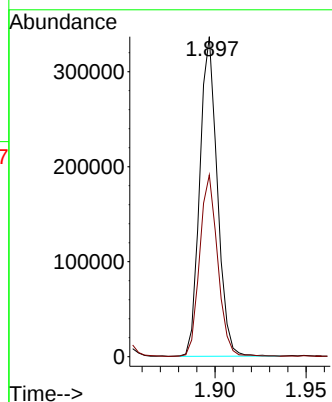
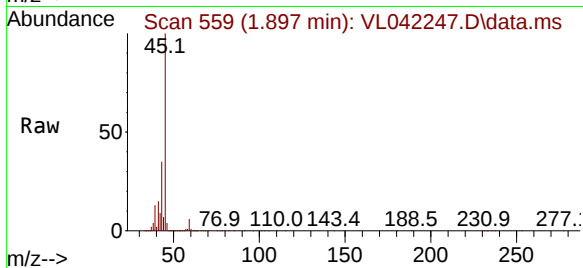
SSSG-B10-3-03312025

Tgt Ion: 41 Resp: 225725

Ion Ratio Lower Upper

41 100

42 58.5 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.058 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.013 min

Lab File: VL042247.D

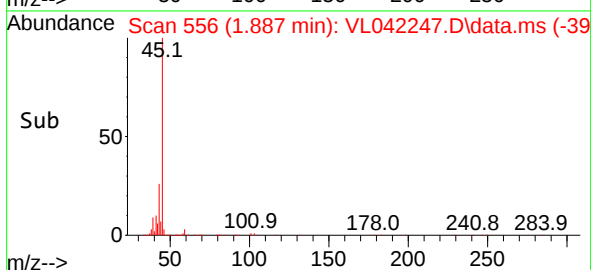
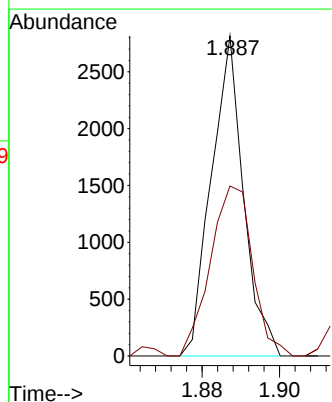
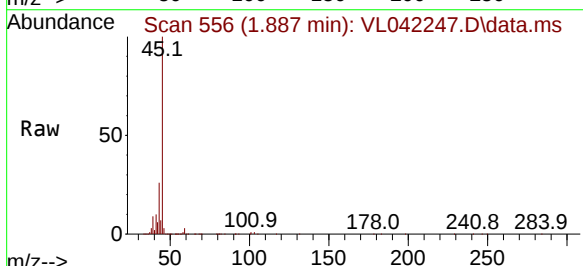
Acq: 07 Apr 2025 23:41

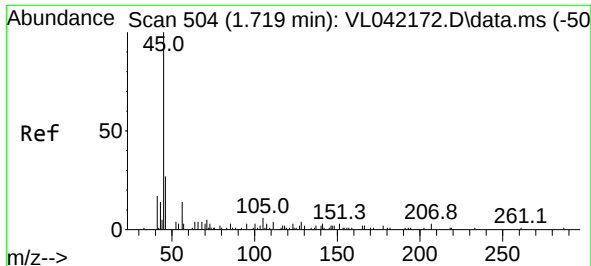
Tgt Ion:101 Resp: 1623

Ion Ratio Lower Upper

101 100

103 53.1 50.2 75.2

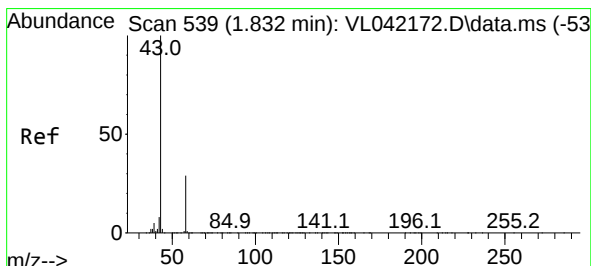
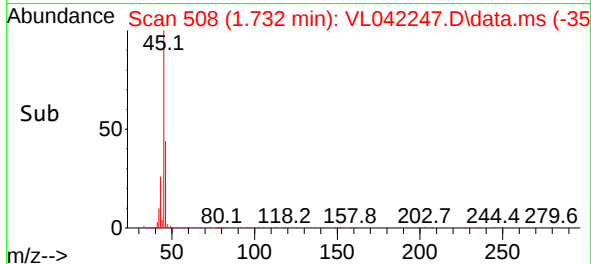
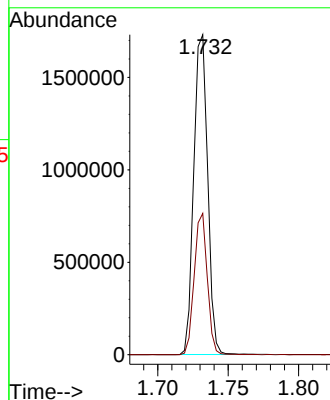
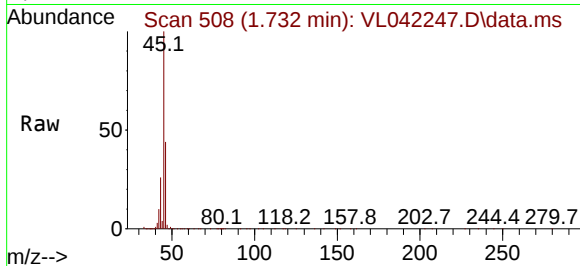




#13
Ethanol
Concen: 932.018 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.013 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

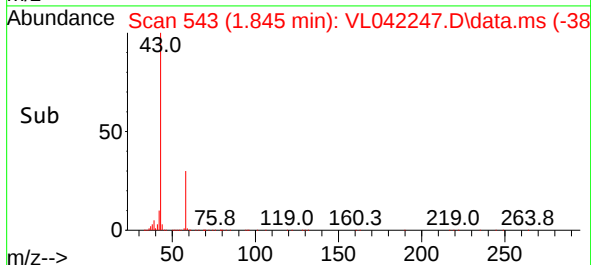
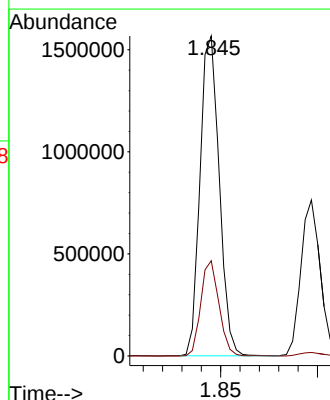
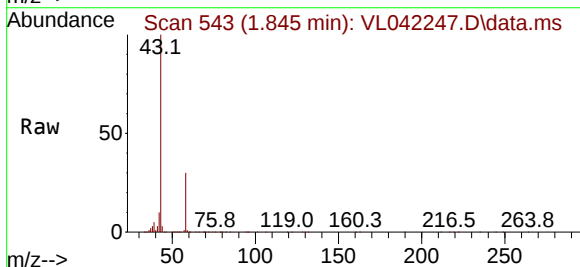
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

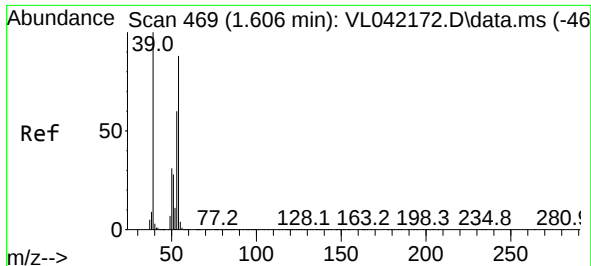
Tgt Ion: 45 Resp: 1184959
Ion Ratio Lower Upper
45 100
46 41.7 20.2 80.8



#15
Acetone
Concen: 39.756 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 43 Resp: 1081614
Ion Ratio Lower Upper
43 100
58 28.1 23.2 34.8





#16

1,3-Butadiene

Concen: 1.071 ppbv

RT: 1.496 min Scan# 41

Delta R.T. -0.110 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

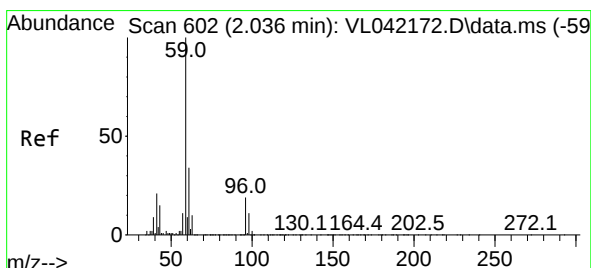
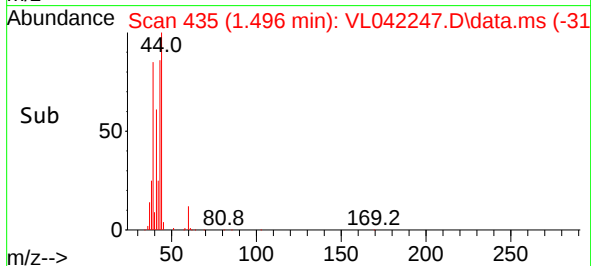
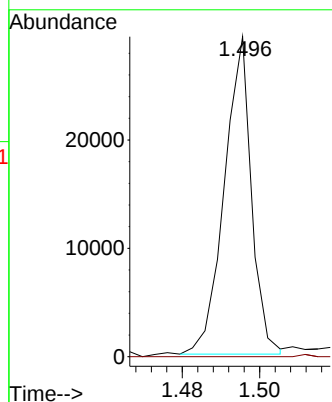
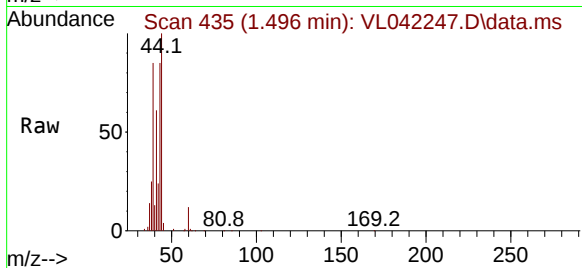
SSSG-B10-3-03312025

Tgt Ion: 39 Resp: 14224

Ion Ratio Lower Upper

39 100

54 0.9 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 2.621 ppbv

RT: 1.897 min Scan# 559

Delta R.T. -0.139 min

Lab File: VL042247.D

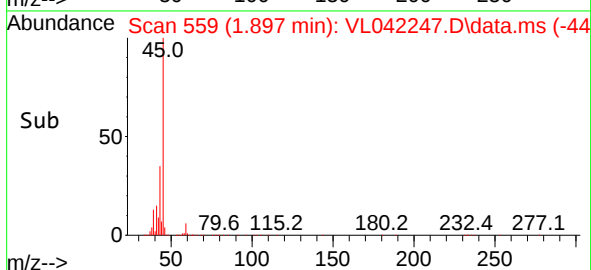
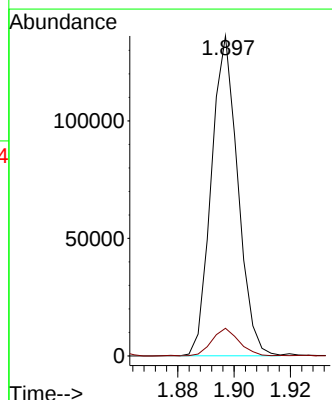
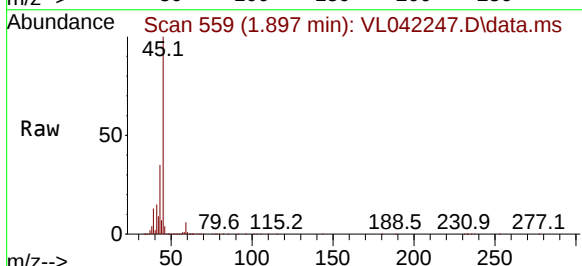
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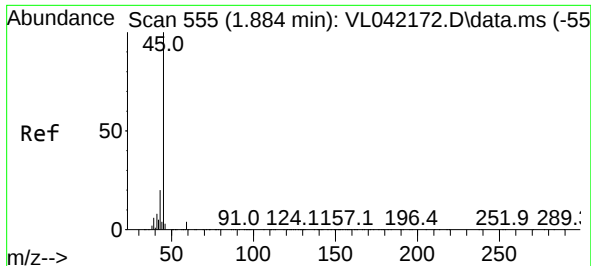
Tgt Ion: 59 Resp: 88824

Ion Ratio Lower Upper

59 100

57 9.2 8.9 13.3

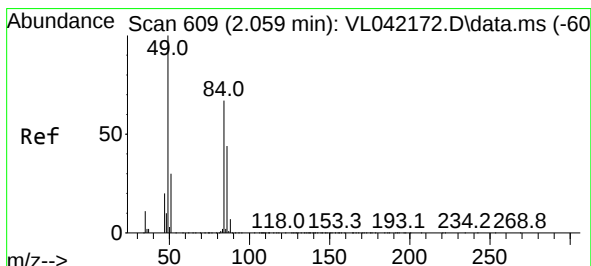
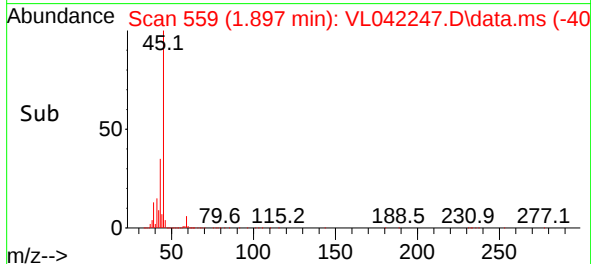
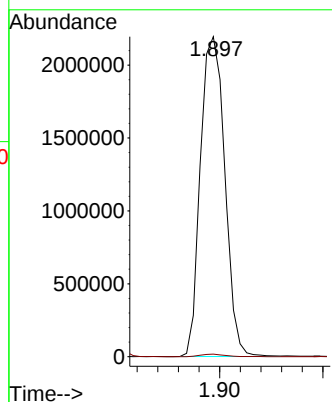
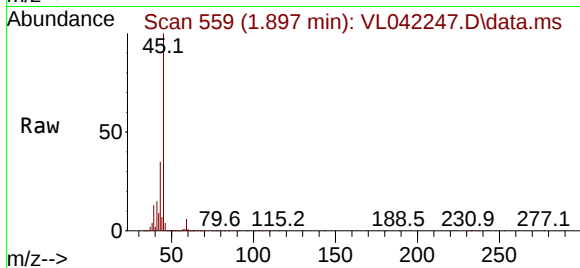




#19
Isopropyl Alcohol
Concen: 117.225 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.013 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

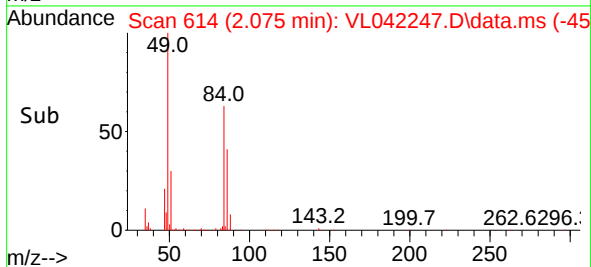
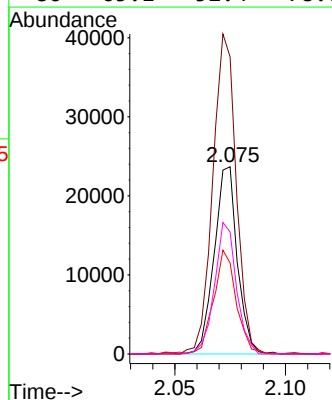
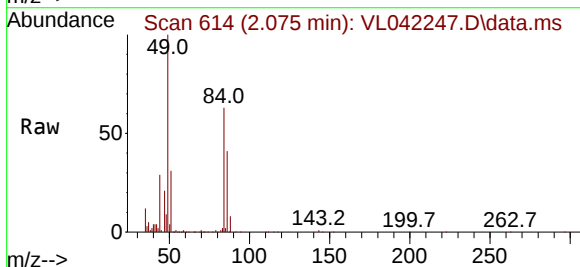
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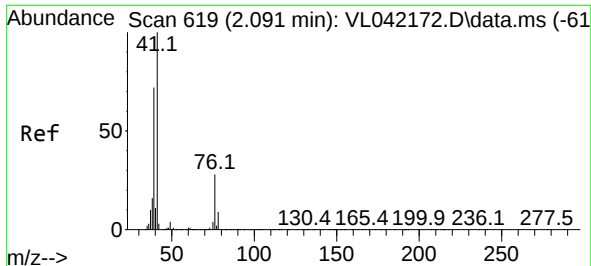
Tgt Ion: 45 Resp: 1799475
Ion Ratio Lower Upper
45 100
58 0.9 36.9 55.3#



#20
Methylene Chloride
Concen: 1.699 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 84 Resp: 17220
Ion Ratio Lower Upper
84 100
49 158.6 120.2 180.4
51 48.5 37.4 56.0
86 65.1 52.4 78.6

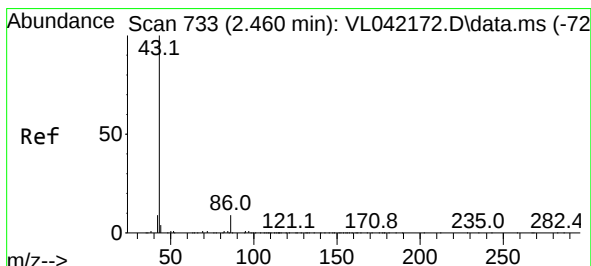
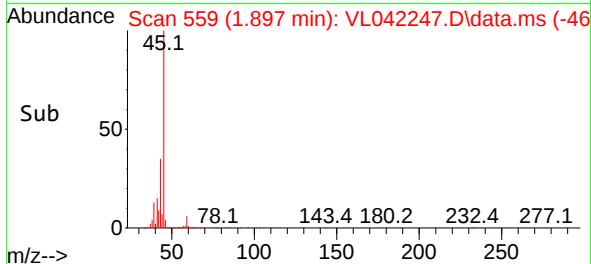
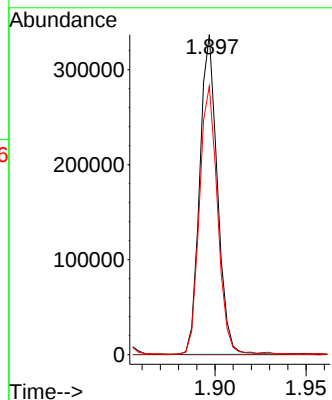
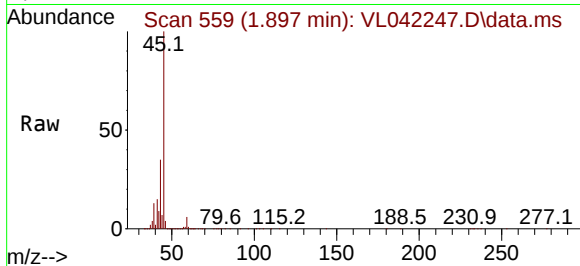




#21
 Allyl Chloride
 Concen: 11.764 ppbv
 RT: 1.897 min Scan# 51
 Delta R.T. -0.194 min
 Lab File: VL042247.D
 Acq: 07 Apr 2025 23:41

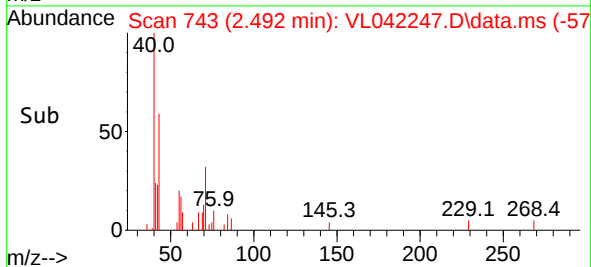
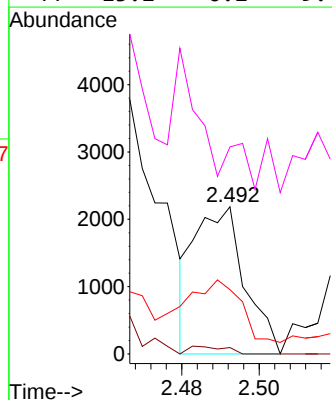
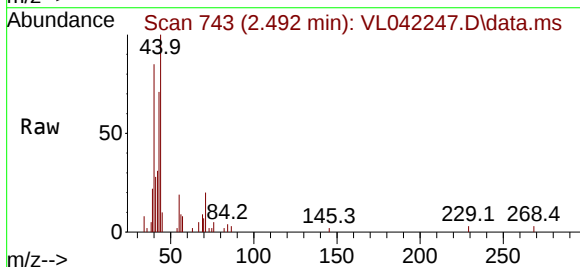
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B10-3-03312025

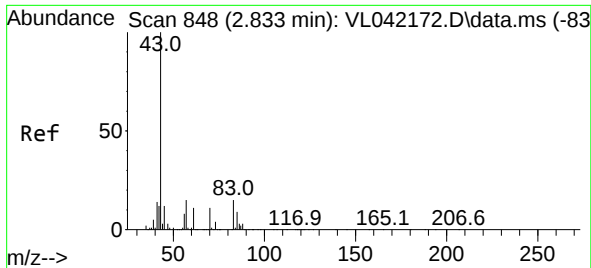
Tgt Ion: 41 Resp: 225725
 Ion Ratio Lower Upper
 41 100
 76 0.1 24.1 36.1#
 39 86.6 61.1 91.7



#23
 Vinyl Acetate
 Concen: 0.167 ppbv
 RT: 2.492 min Scan# 743
 Delta R.T. 0.032 min
 Lab File: VL042247.D
 Acq: 07 Apr 2025 23:41

Tgt Ion: 43 Resp: 1963
 Ion Ratio Lower Upper
 43 100
 86 4.3 5.5 8.3#
 42 35.9 8.6 13.0#
 44 13.2 6.2 9.4#

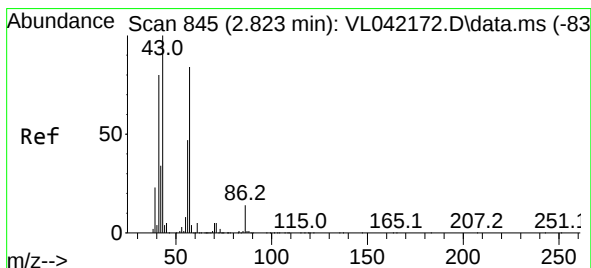
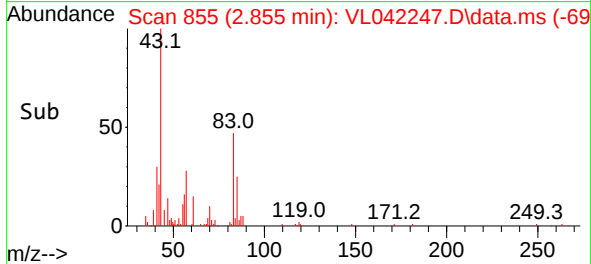
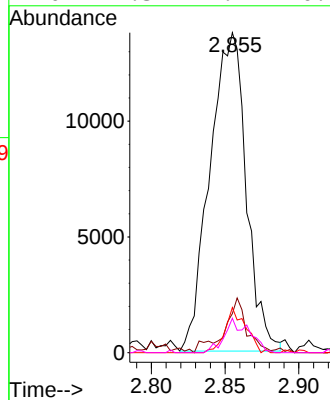
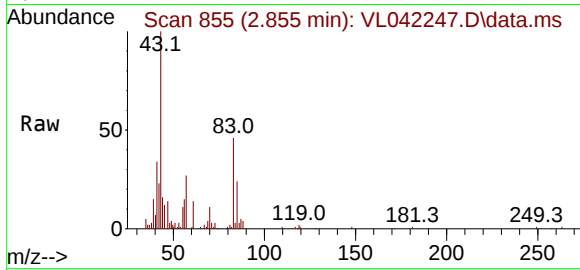




#25
Ethyl Acetate
Concen: 0.334 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.022 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

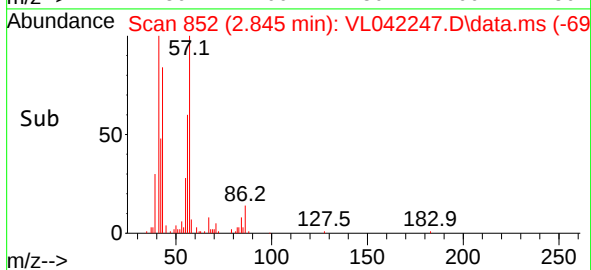
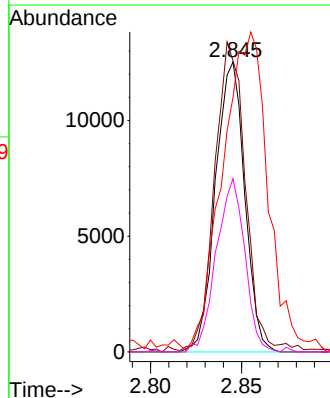
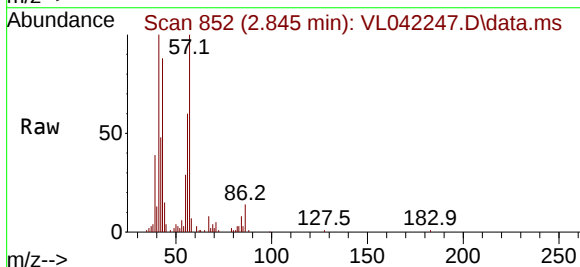
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

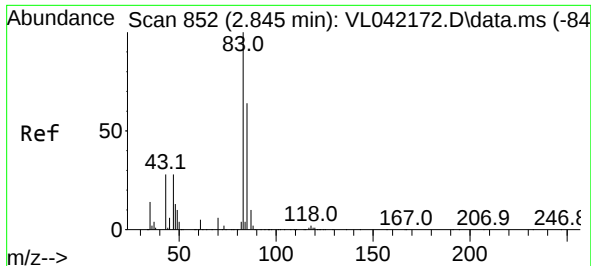
Tgt Ion: 43	Resp: 23565
Ion Ratio	Lower Upper
43 100	
45 11.4	8.2 12.2
61 8.1	7.3 10.9
70 7.3	7.2 10.8



#26
Hexane
Concen: 0.510 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.022 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 57	Resp: 13903
Ion Ratio	Lower Upper
57 100	
41 116.7	76.6 114.8#
43 171.7	207.8 311.8#
56 58.9	43.6 65.4





#29

Chloroform

Concen: 0.358 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

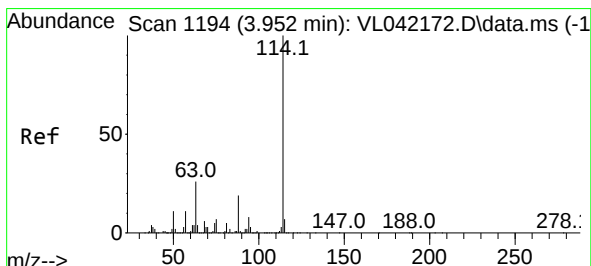
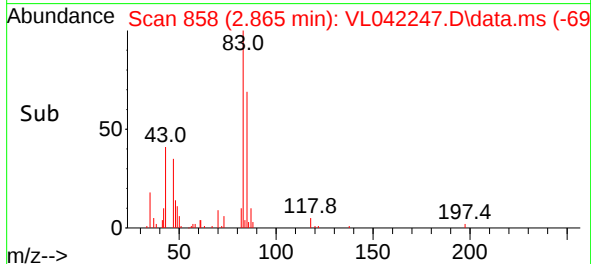
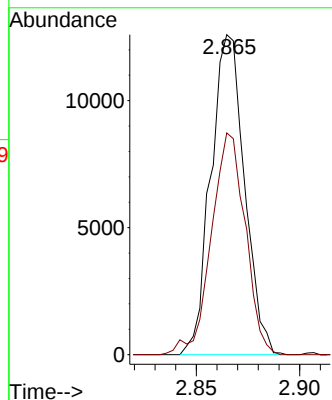
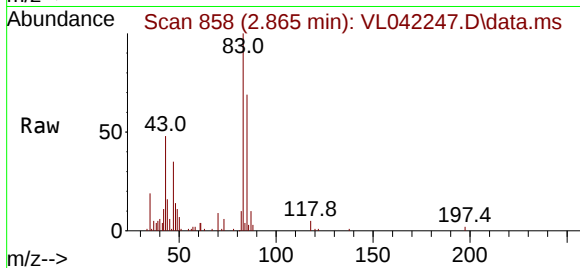
SSSG-B10-3-03312025

Tgt Ion: 83 Resp: 14300

Ion Ratio Lower Upper

83 100

85 69.3 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.985 min Scan# 1204

Delta R.T. 0.032 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

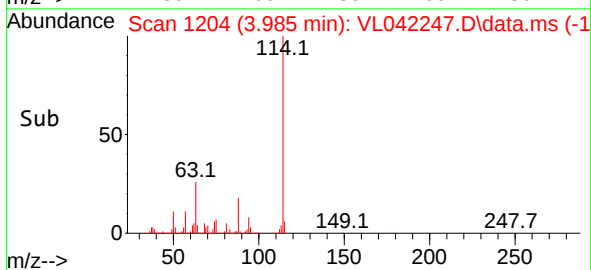
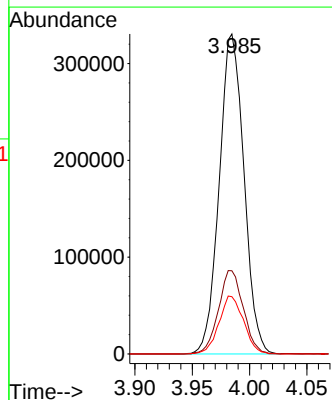
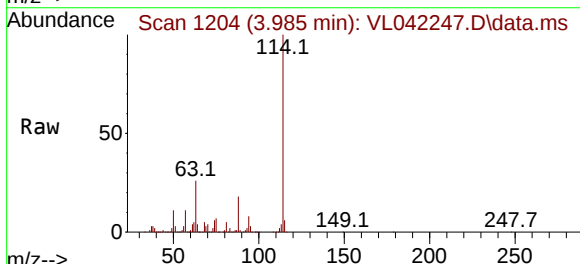
Tgt Ion: 114 Resp: 495845

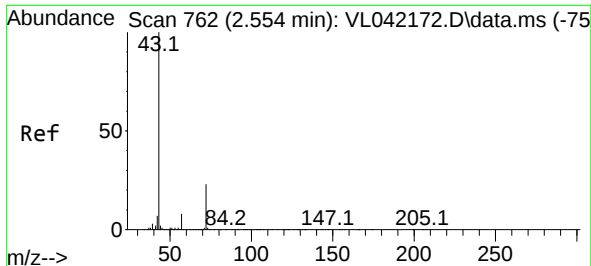
Ion Ratio Lower Upper

114 100

63 26.2 20.7 31.1

88 18.0 15.0 22.4

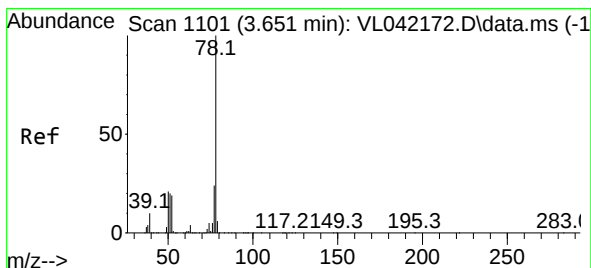
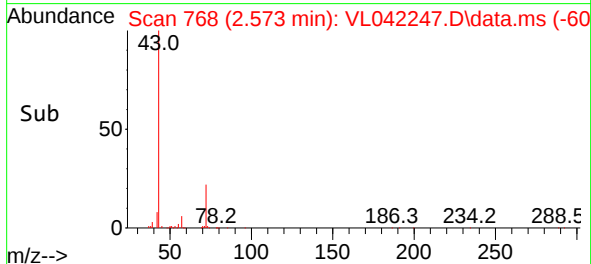
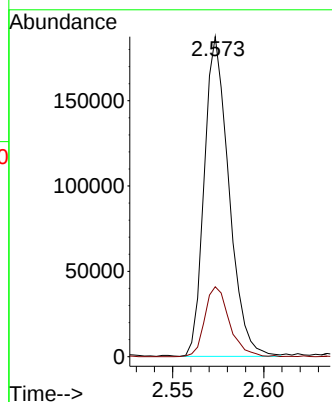
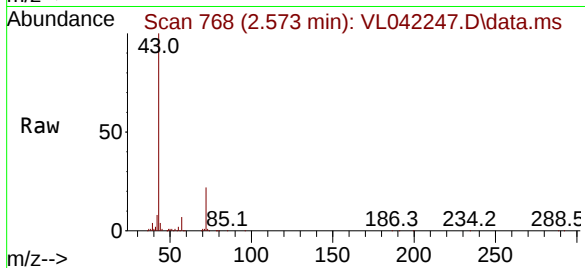




#34
2-Butanone
Concen: 4.910 ppbv
RT: 2.573 min Scan# 71
Delta R.T. 0.019 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

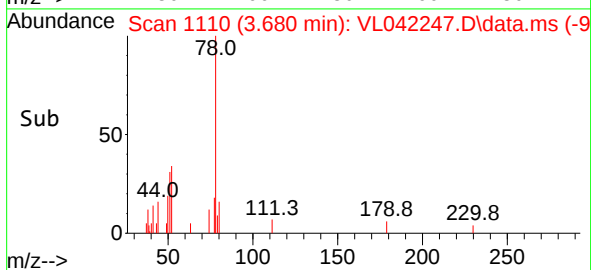
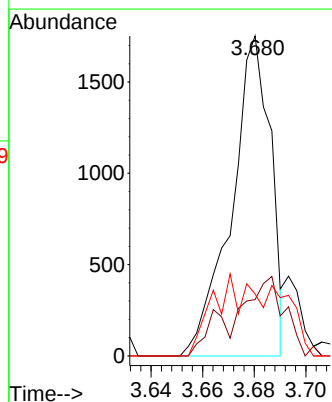
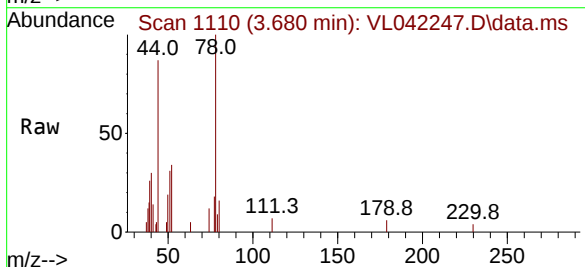
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

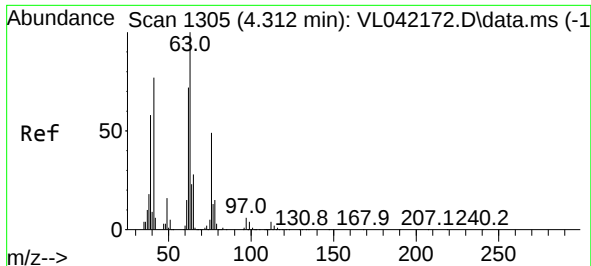
Tgt Ion: 43 Resp: 176547
Ion Ratio Lower Upper
43 100
72 22.0 18.2 27.2



#36
Benzene
Concen: 0.038 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 78 Resp: 1853
Ion Ratio Lower Upper
78 100
77 17.6 19.1 28.7#
50 19.3 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.224 ppbv

RT: 3.981 min Scan# 11

Delta R.T. -0.330 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-3-03312025

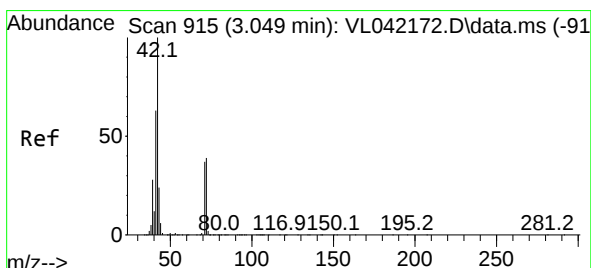
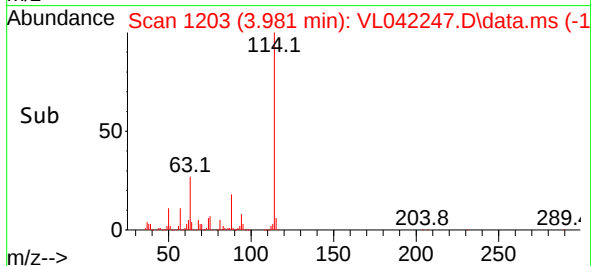
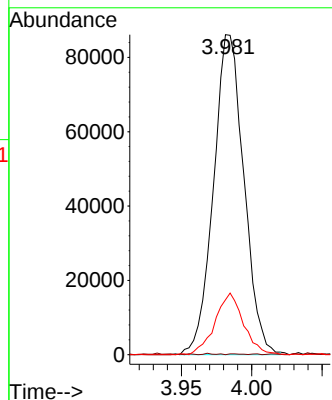
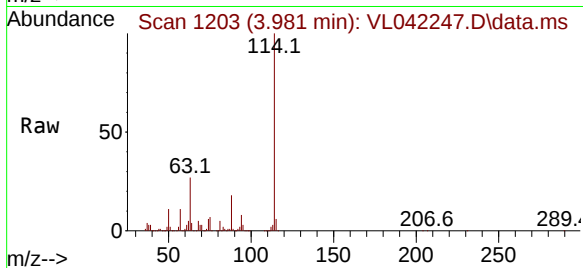
Tgt Ion: 63 Resp: 129329

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 16.9 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.220 ppbv

RT: 3.088 min Scan# 927

Delta R.T. 0.039 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

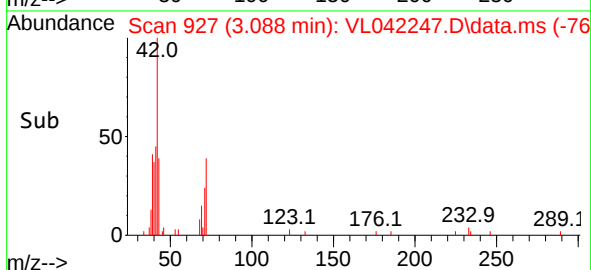
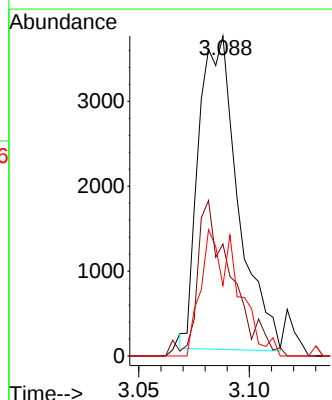
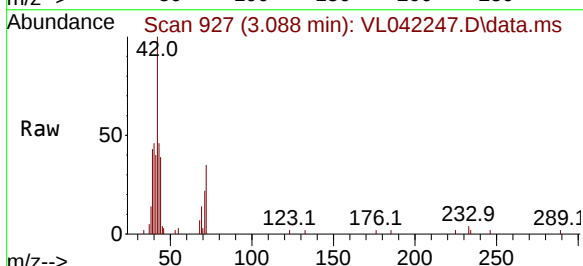
Tgt Ion: 42 Resp: 4558

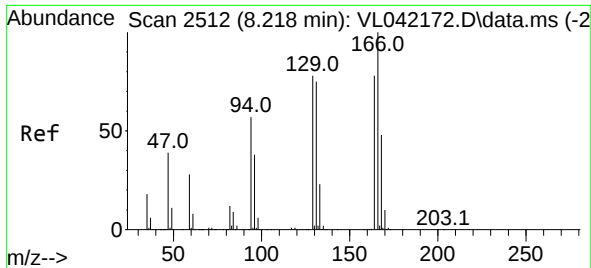
Ion Ratio Lower Upper

42 100

72 43.3 31.4 47.0

71 37.4 30.2 45.4

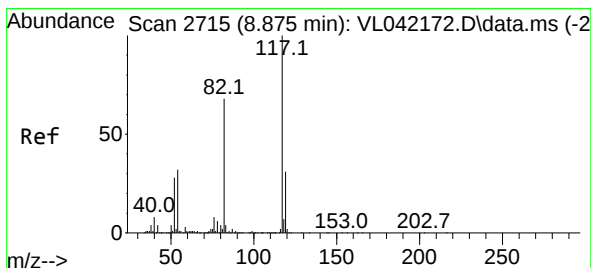
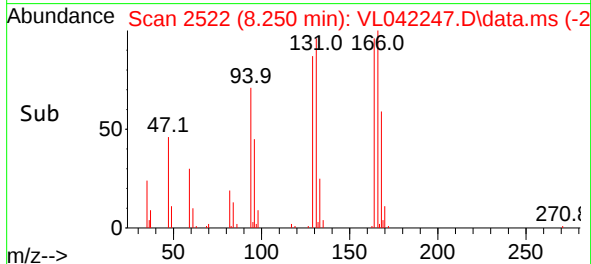
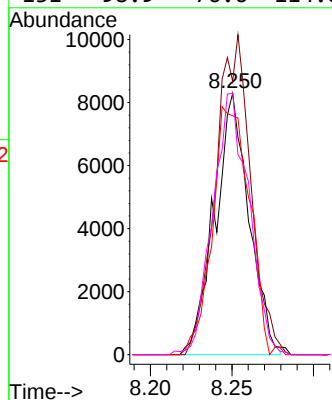
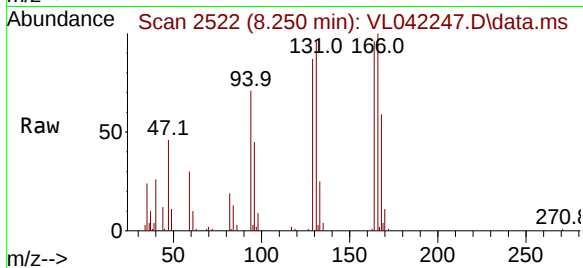




#52
Tetrachloroethene
Concen: 0.621 ppbv
RT: 8.250 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

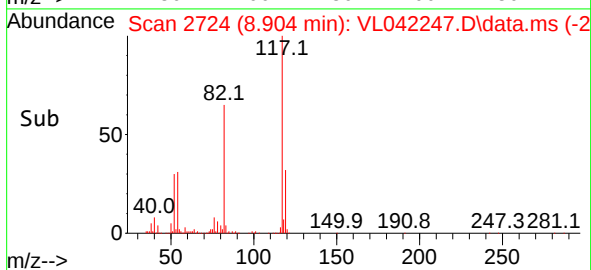
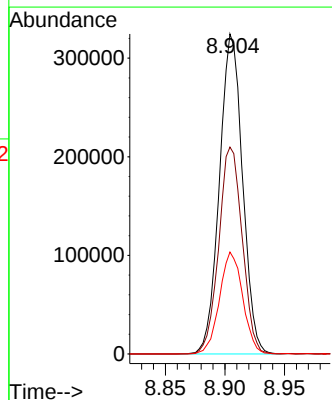
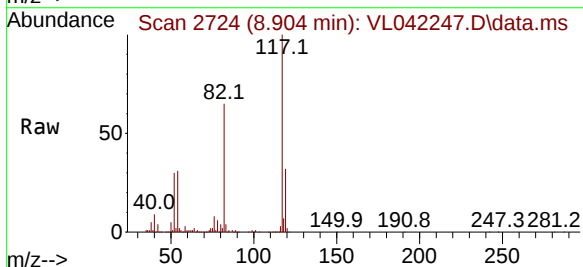
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

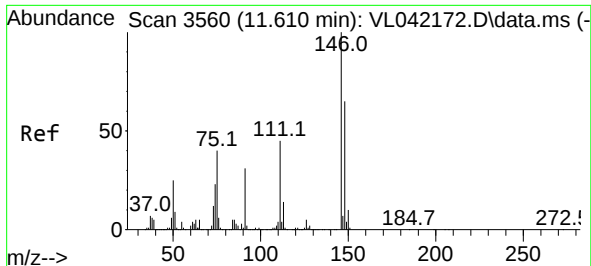
Tgt Ion:164	Resp:	12097
Ion	Ratio	Lower Upper
164	100	
166	104.5	102.5 153.7
129	91.4	79.8 119.8
131	98.9	76.6 114.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion:117	Resp:	437126
Ion	Ratio	Lower Upper
117	100	
82	65.8	55.8 83.6
119	32.2	25.5 38.3

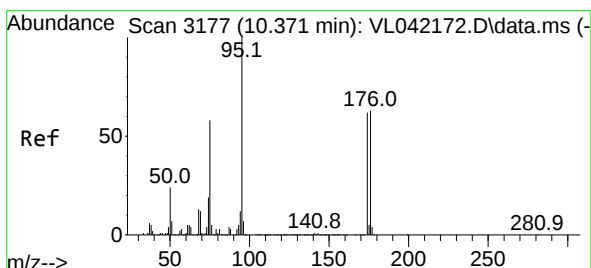
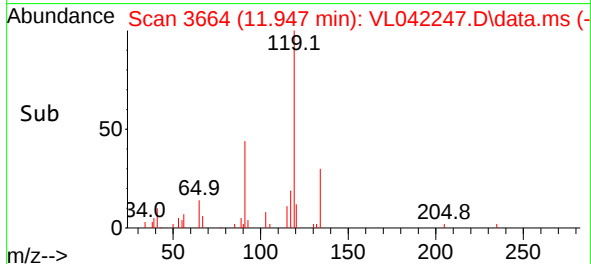
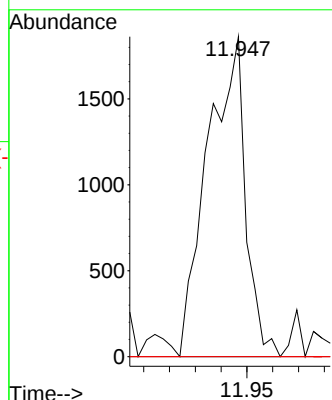
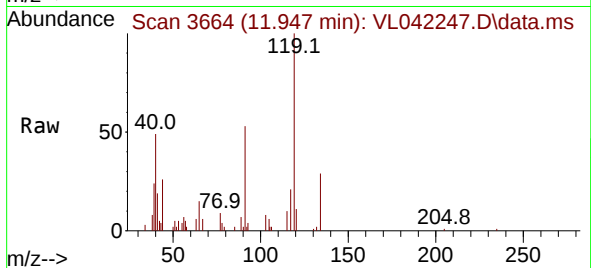




#66
Benzyl Chloride
Concen: 0.208 ppbv
RT: 11.947 min Scan# 3185
Delta R.T. 0.336 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

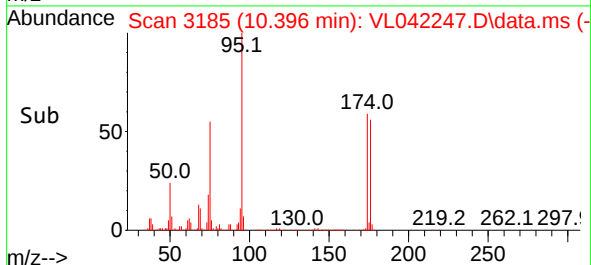
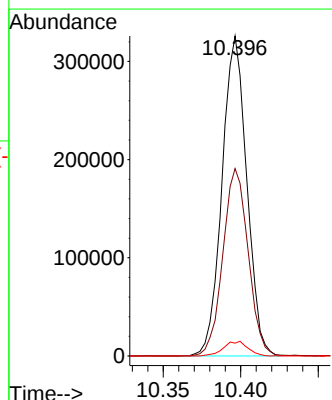
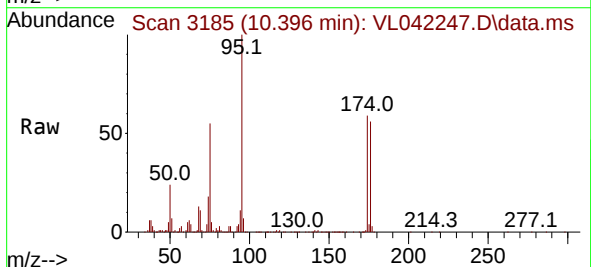
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025

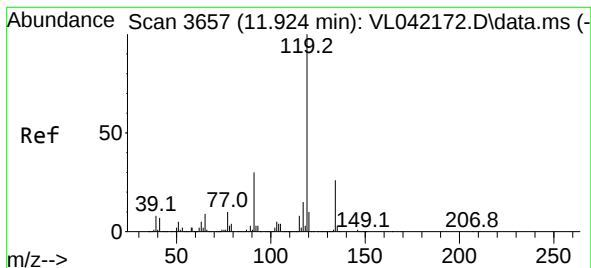
Tgt Ion: 91 Resp: 1899
Ion Ratio Lower Upper
91 100
126 0.0 13.8 20.6#
128 0.0 4.5 6.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.077 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042247.D
Acq: 07 Apr 2025 23:41

Tgt Ion: 95 Resp: 361726
Ion Ratio Lower Upper
95 100
174 59.9 50.6 76.0
175 4.5 3.8 5.6





#69

p-Isopropyltoluene

Concen: 0.048 ppbv

RT: 11.943 min Scan# 30

Delta R.T. 0.019 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-3-03312025

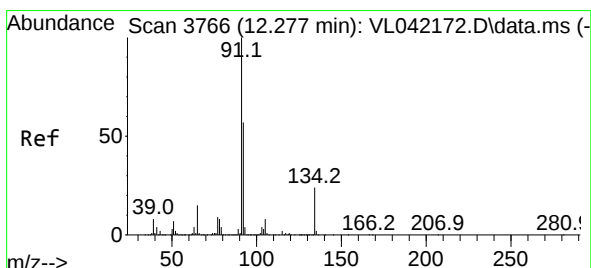
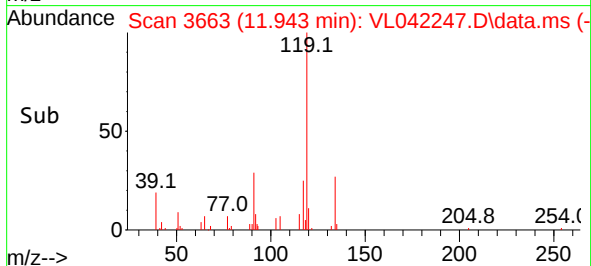
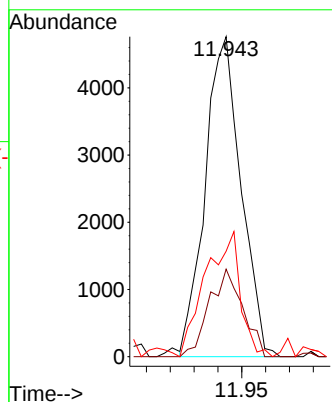
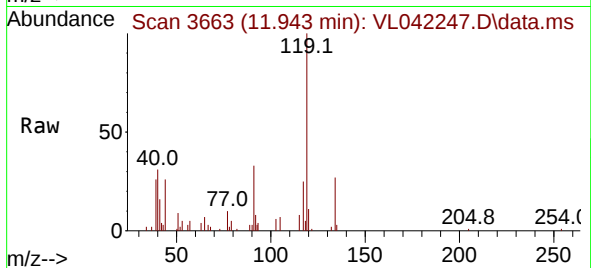
Tgt Ion:119 Resp: 4989

Ion Ratio Lower Upper

119 100

134 25.9 20.4 30.6

91 0.0 23.7 35.5#



#70

n-Butylbenzene

Concen: 0.085 ppbv

RT: 12.439 min Scan# 3816

Delta R.T. 0.162 min

Lab File: VL042247.D

Acq: 07 Apr 2025 23:41

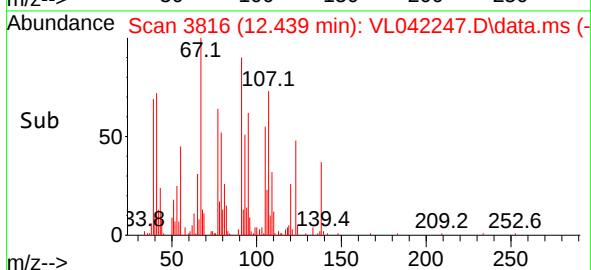
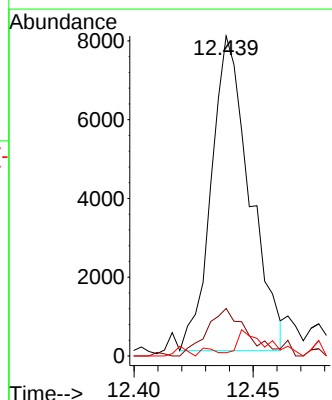
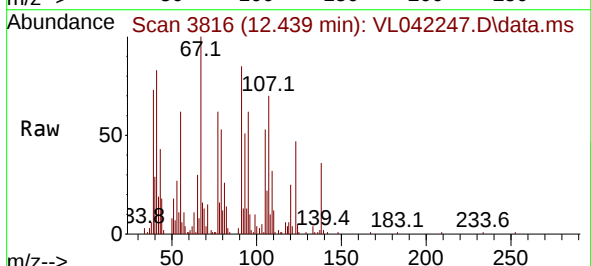
Tgt Ion: 91 Resp: 8947

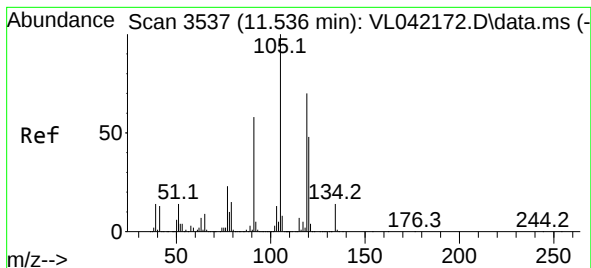
Ion Ratio Lower Upper

91 100

92 0.0 44.9 67.3#

134 9.6 19.2 28.8#





#74

1,2,4-Trimethylbenzene

Concen: 0.059 ppbv

RT: 11.552 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL042247.D

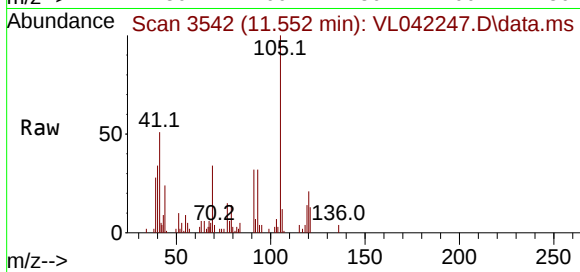
Acq: 07 Apr 2025 23:41

Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion:105 Resp: 4585

Ion Ratio Lower Upper

105 100

120 33.5 38.6 58.0#

91 30.1 46.2 69.2#

77 15.3 18.6 27.8#

