

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042283.D
 Acq On : 09 Apr 2025 02:51
 Operator : SY/MD
 Sample : Q1728-10 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-4-04022025

Quant Time: Apr 09 08:27:29 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)

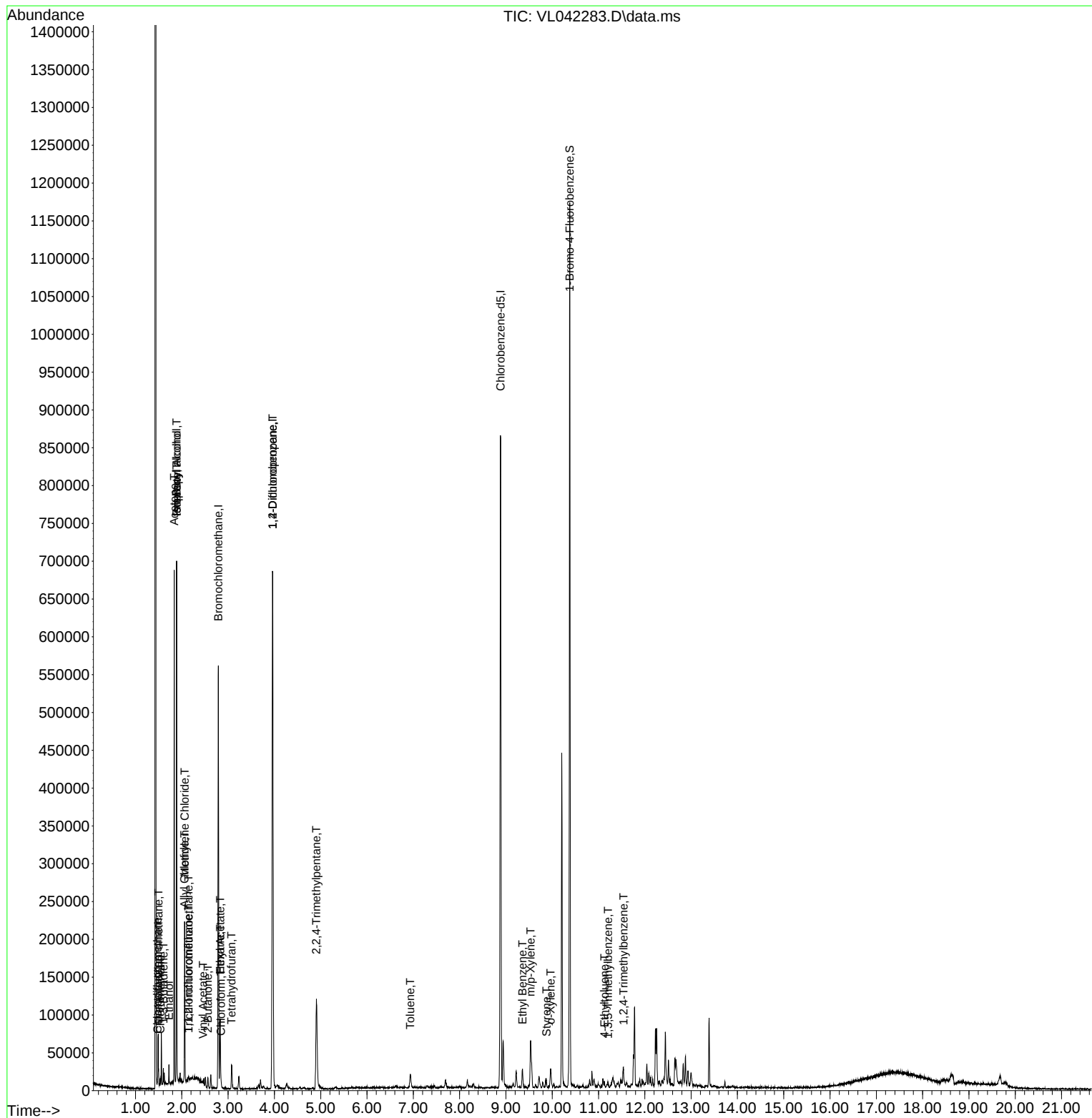
Internal Standards						
1) Bromochloromethane	2.790	49	155290	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	388359	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	341830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	287523	10.243	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5799	0.253	ppbv	98
3) Chlorodifluoromethane	1.476	51	4290	0.183	ppbv	97
4) Chloromethane	1.535	50	2332	0.249	ppbv	97
9) Propene	1.887	41	26969	2.512	ppbv	91
11) Trichlorofluoromethane	2.143	101	730	0.033	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.143	101	730	0.040	ppbv	86
13) Ethanol	1.722	45	7713	7.600	ppbv #	27
15) Acetone	1.836	43	276321	12.723	ppbv	97
16) 1,3-Butadiene	1.603	39	2390	0.225	ppbv #	24
17) tert-Butyl alcohol	1.887	59	10331	0.382	ppbv	99
19) Isopropyl Alcohol	1.887	45	274802	22.426	ppbv #	33
20) Methylene Chloride	2.062	84	29400	3.635	ppbv	87
21) Allyl Chloride	2.059	41	1235	0.081	ppbv #	22
23) Vinyl Acetate	2.457	43	2280	0.243	ppbv #	83
25) Ethyl Acetate	2.829	43	15237	0.270	ppbv #	79
26) Hexane	2.829	57	17021	0.782	ppbv #	33
29) Chloroform	2.849	83	2769	0.087	ppbv #	79
34) 2-Butanone	2.564	43	9233	0.328	ppbv	95
39) 1,2-Dichloropropane	3.962	63	101030	7.205	ppbv #	21
41) Tetrahydrofuran	3.072	42	1102	0.068	ppbv #	41
44) 2,2,4-Trimethylpentane	4.907	57	116682	1.793	ppbv #	49
53) Toluene	6.937	91	12300	0.270	ppbv	97
58) Ethyl Benzene	9.358	91	12642	0.208	ppbv #	85
59) m/p-Xylene	9.532	91	39977	0.825	ppbv	99
60) o-Xylene	9.966	91	9522	0.196	ppbv	99
61) Styrene	9.875	104	1514	0.063	ppbv #	28
72) 4-Ethyltoluene	11.128	105	1856	0.031	ppbv #	49
73) 1,3,5-Trimethylbenzene	11.206	105	1627	0.031	ppbv	86
74) 1,2,4-Trimethylbenzene	11.539	105	6419	0.105	ppbv #	61

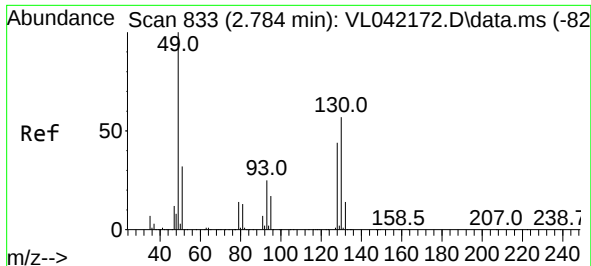
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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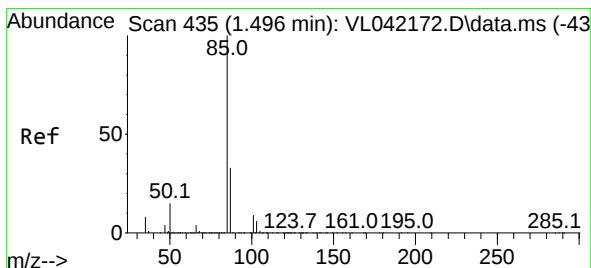
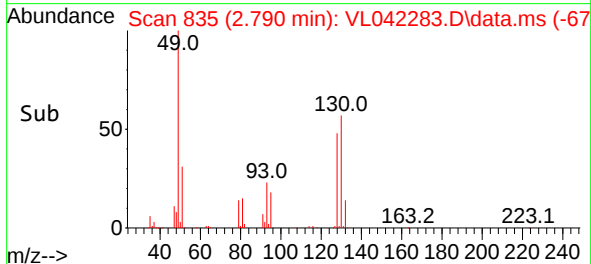
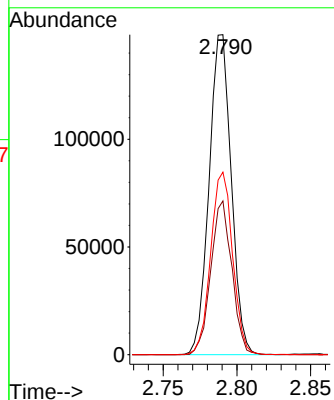
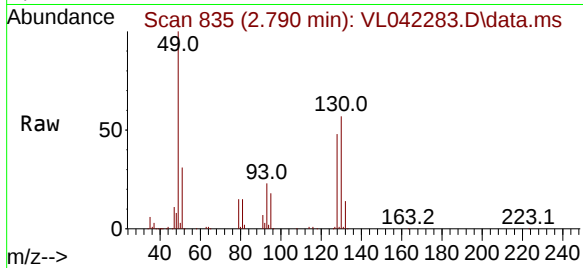




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042283.D
 Acq: 09 Apr 2025 02:51

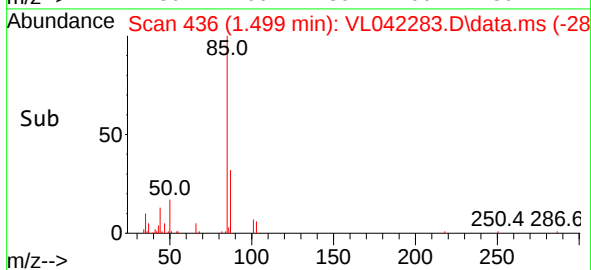
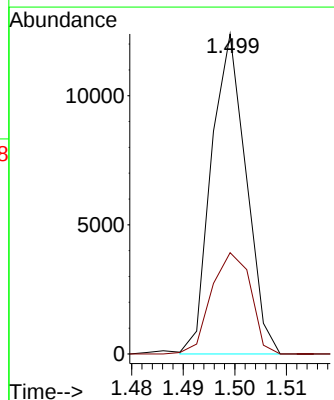
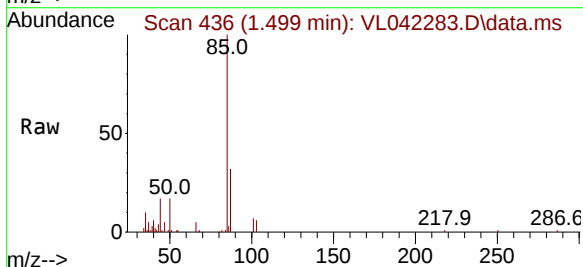
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-4-04022025

Tgt Ion: 49 Resp: 155290
 Ion Ratio Lower Upper
 49 100
 128 45.8 22.9 68.5
 130 56.6 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.253 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042283.D
 Acq: 09 Apr 2025 02:51

Tgt Ion: 85 Resp: 5799
 Ion Ratio Lower Upper
 85 100
 87 31.7 26.1 39.1

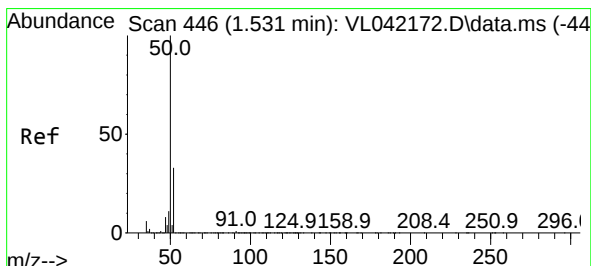
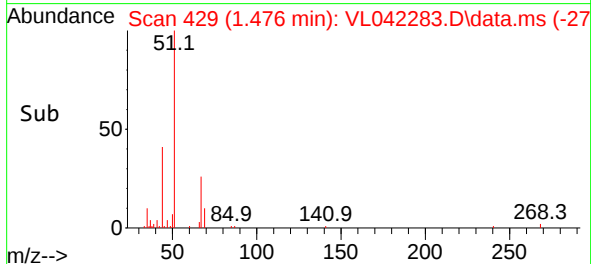
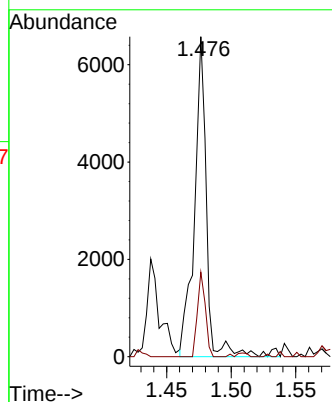
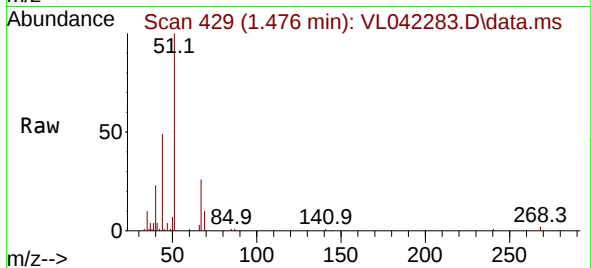




#3
Chlorodifluoromethane
Concen: 0.183 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

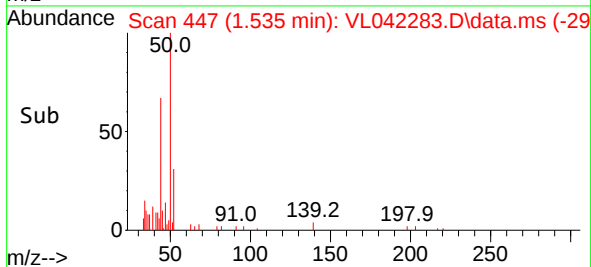
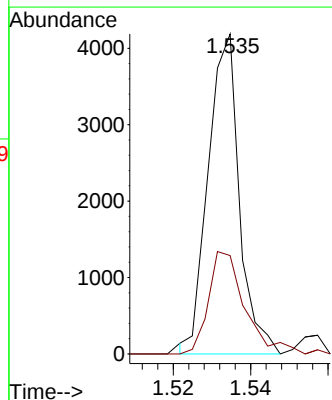
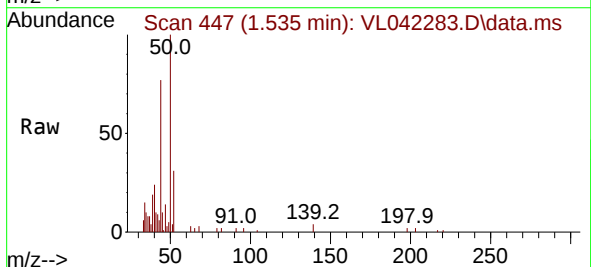
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ClientSampleId :
SSSG-B14-4-04022025

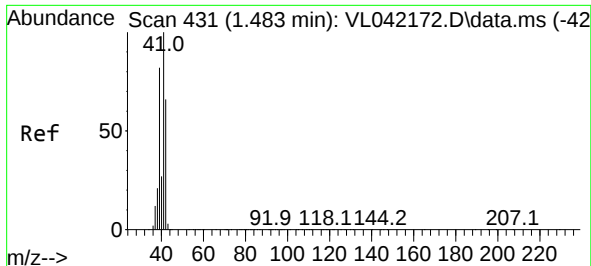
Tgt Ion: 51 Resp: 4290
Ion Ratio Lower Upper
51 100
67 17.5 15.0 22.6



#4
Chloromethane
Concen: 0.249 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 50 Resp: 2332
Ion Ratio Lower Upper
50 100
52 30.8 26.1 39.1

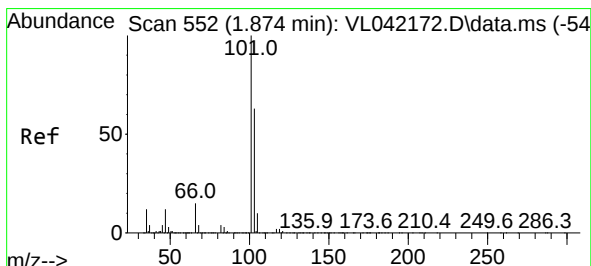
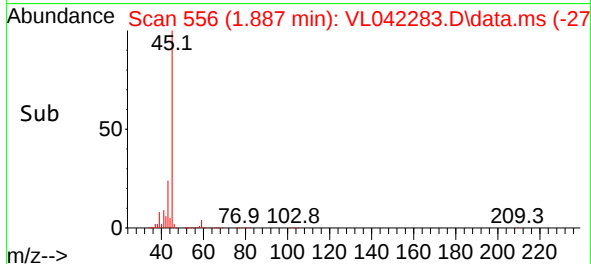
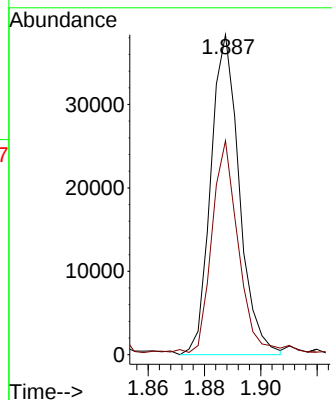
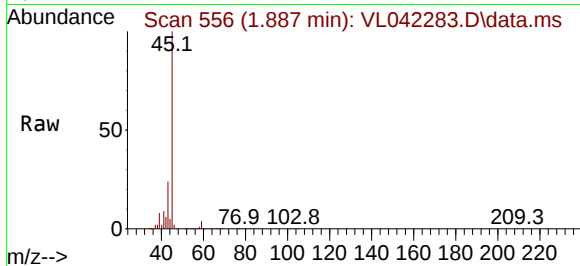




#9
Propene
Concen: 2.512 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.405 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

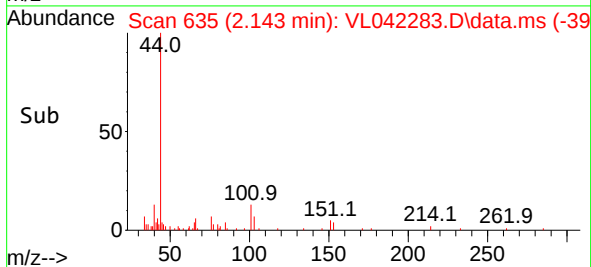
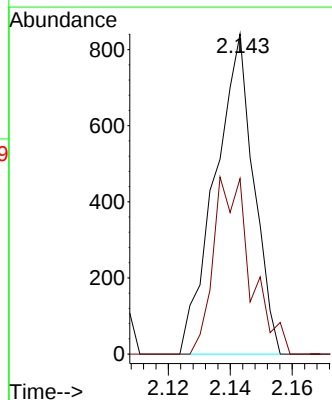
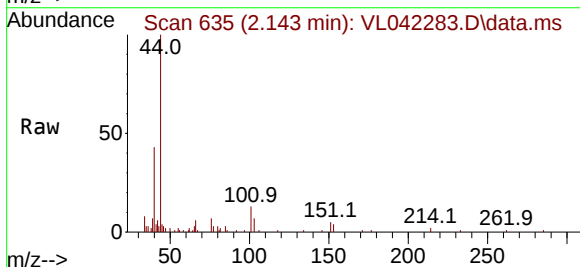
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04022025

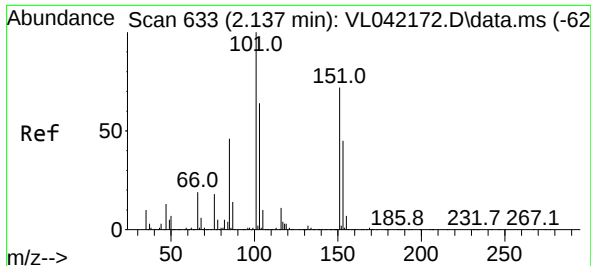
Tgt Ion: 41 Resp: 26969
Ion Ratio Lower Upper
41 100
42 61.9 55.4 83.2



#11
Trichlorofluoromethane
Concen: 0.033 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.269 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 101 Resp: 730
Ion Ratio Lower Upper
101 100
103 54.8 50.2 75.2

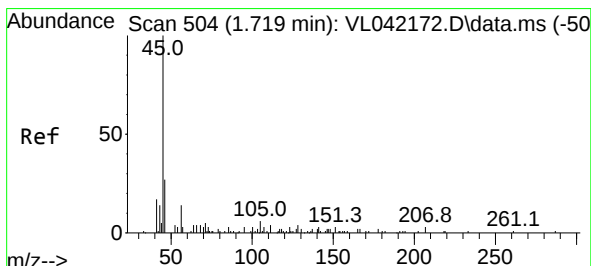
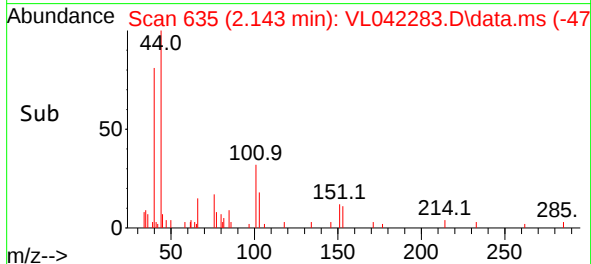
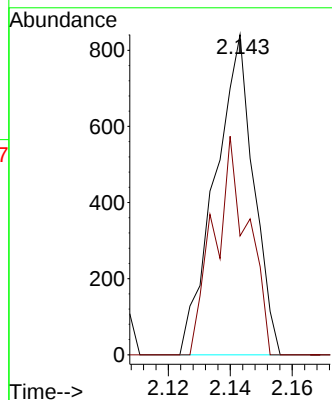
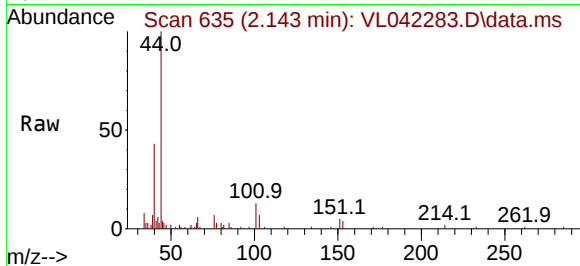




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.040 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

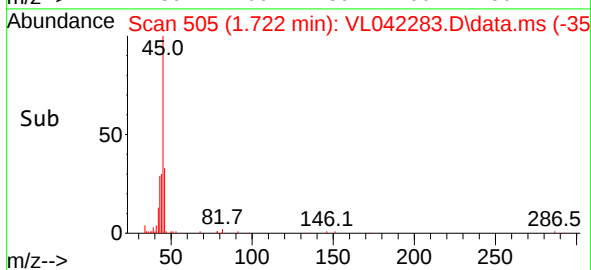
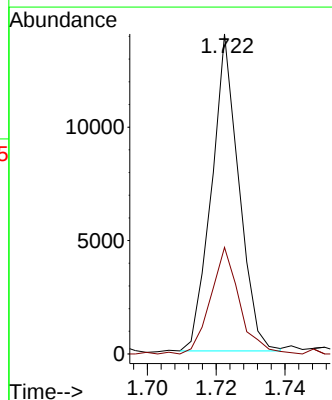
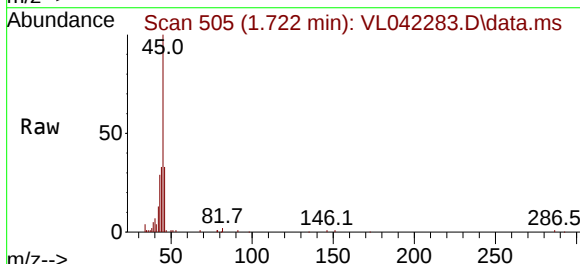
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04022025

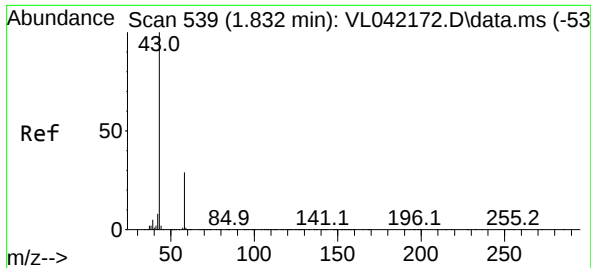
Tgt Ion:101 Resp: 730
Ion Ratio Lower Upper
101 100
151 59.9 57.1 85.7



#13
Ethanol
Concen: 7.600 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 45 Resp: 7713
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#

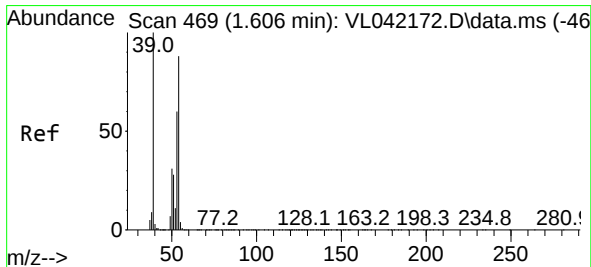
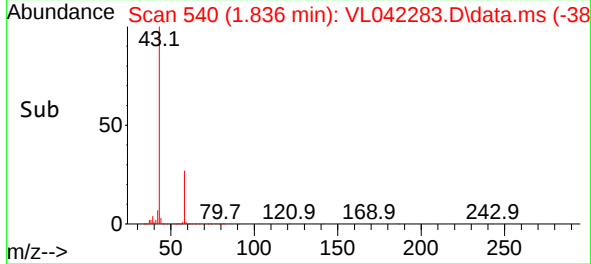
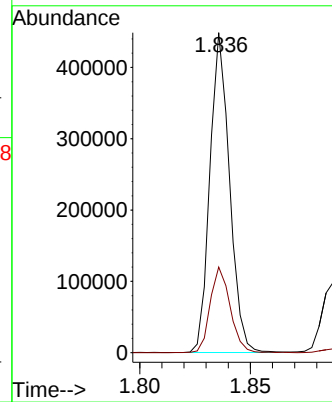
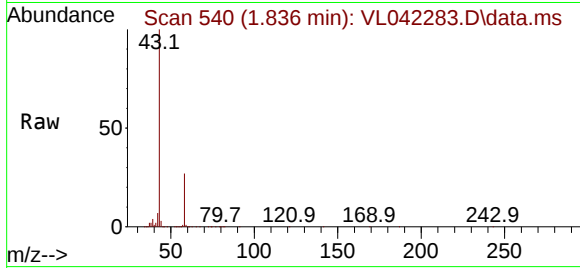




#15
Acetone
Concen: 12.723 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

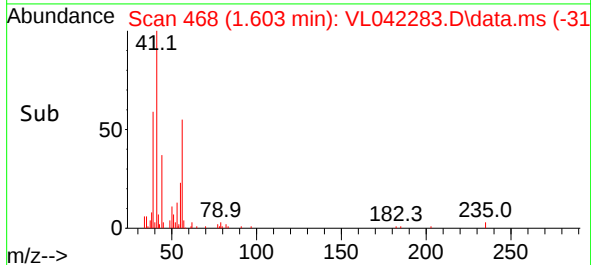
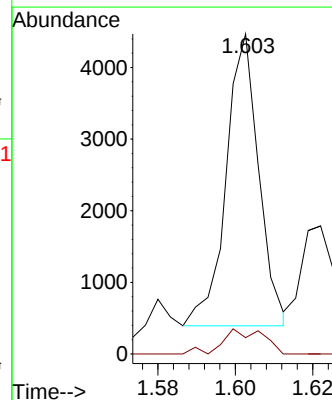
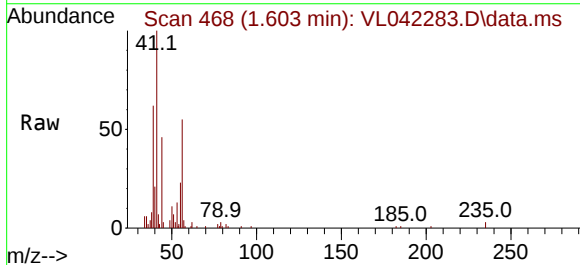
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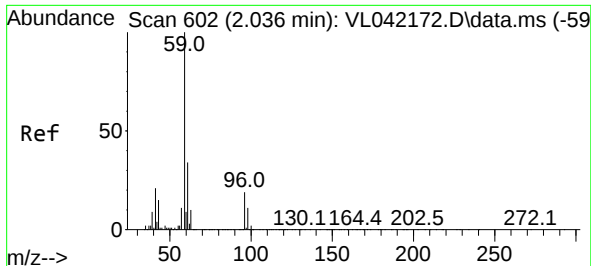
Tgt Ion: 43 Resp: 276321
Ion Ratio Lower Upper
43 100
58 27.2 23.2 34.8



#16
1,3-Butadiene
Concen: 0.225 ppbv
RT: 1.603 min Scan# 468
Delta R.T. -0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 39 Resp: 2390
Ion Ratio Lower Upper
39 100
54 10.7 60.7 91.1#

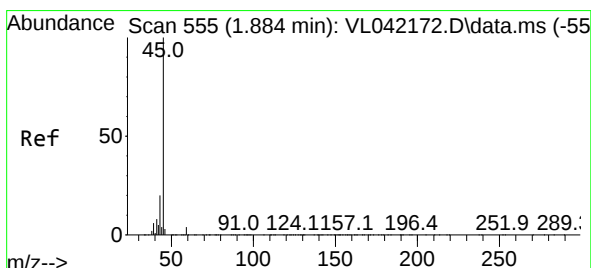
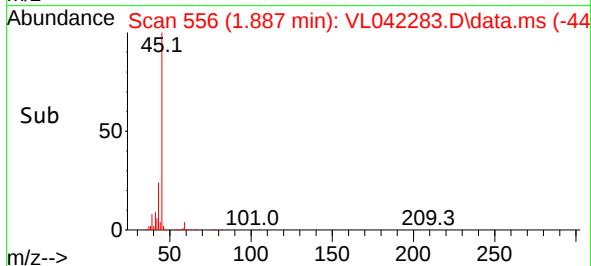
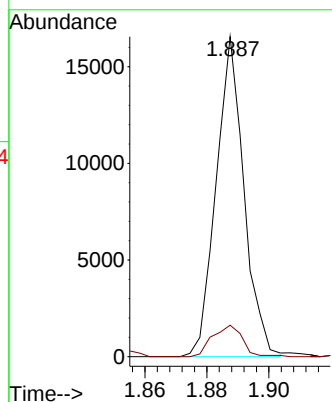
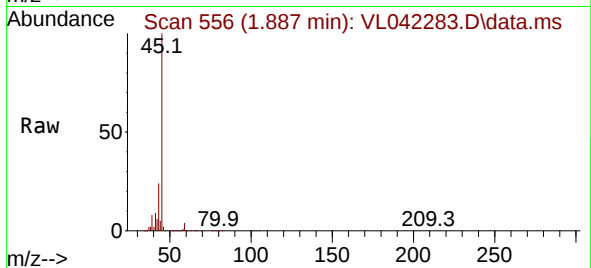




#17
tert-Butyl alcohol
Concen: 0.382 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.149 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

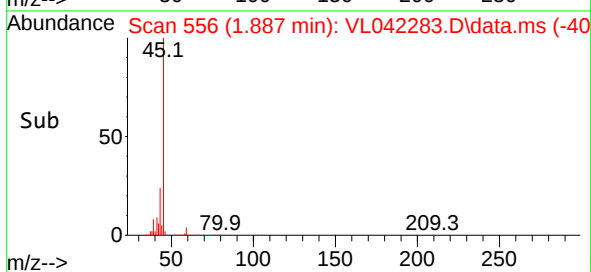
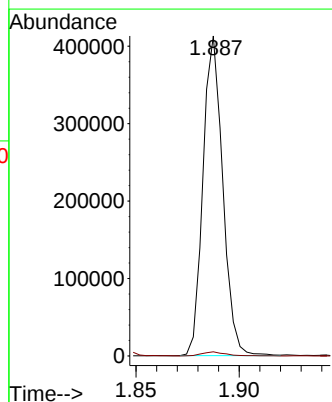
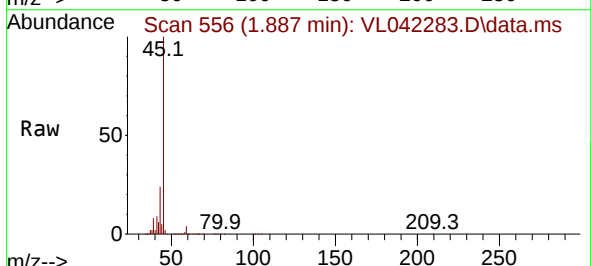
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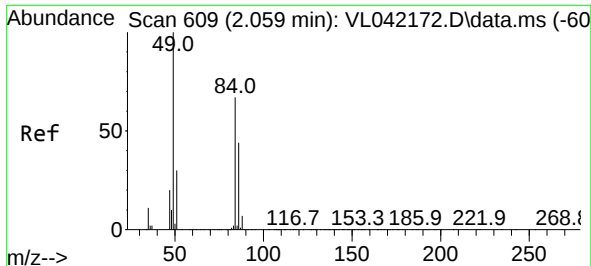
Tgt Ion: 59 Resp: 10331
Ion Ratio Lower Upper
59 100
57 10.6 8.9 13.3



#19
Isopropyl Alcohol
Concen: 22.426 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 45 Resp: 274802
Ion Ratio Lower Upper
45 100
58 1.6 36.9 55.3#





#20

Methylene Chloride

Concen: 3.635 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-4-04022025

Tgt Ion: 84 Resp: 29400

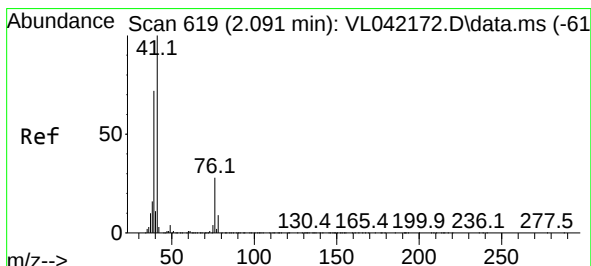
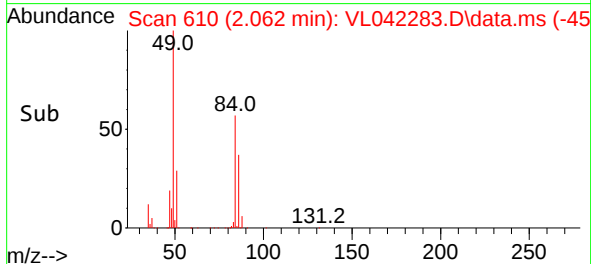
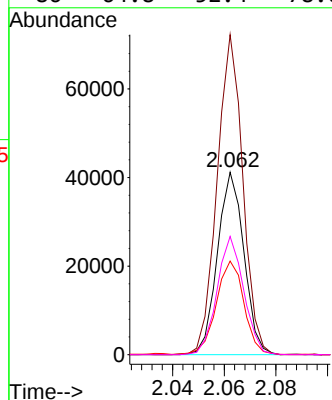
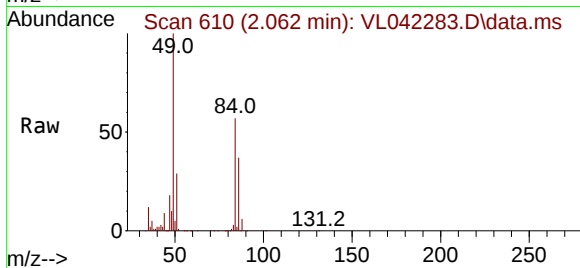
Ion Ratio Lower Upper

84 100

49 175.5 120.2 180.4

51 51.2 37.4 56.0

86 64.8 52.4 78.6



#21

Allyl Chloride

Concen: 0.081 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.032 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

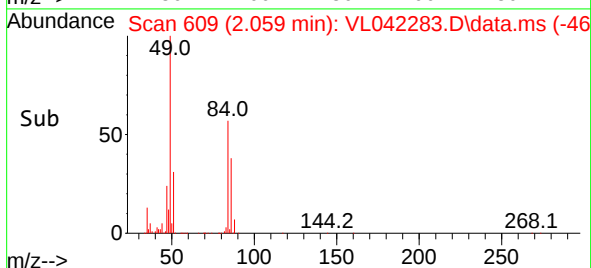
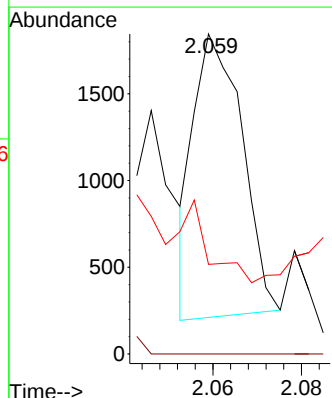
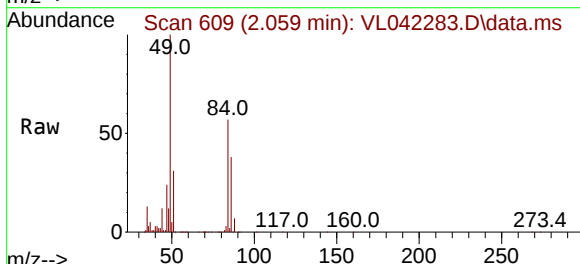
Tgt Ion: 41 Resp: 1235

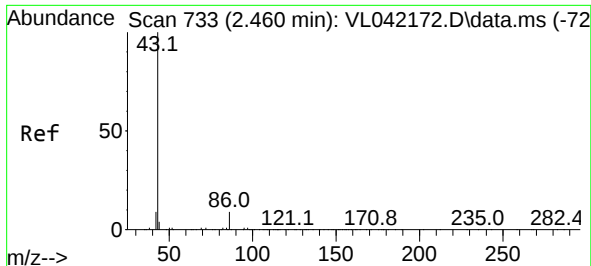
Ion Ratio Lower Upper

41 100

76 2.0 24.1 36.1#

39 0.0 61.1 91.7#

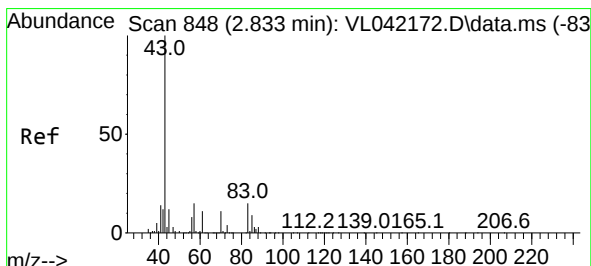
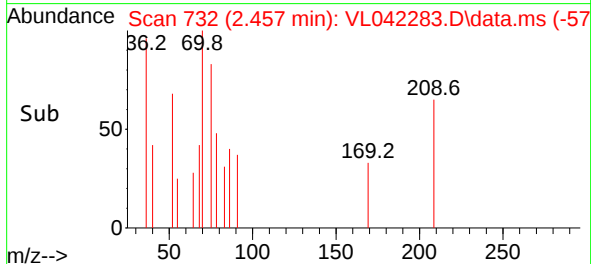
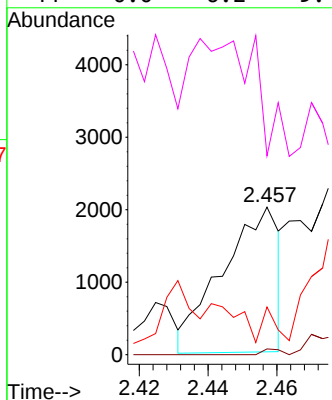
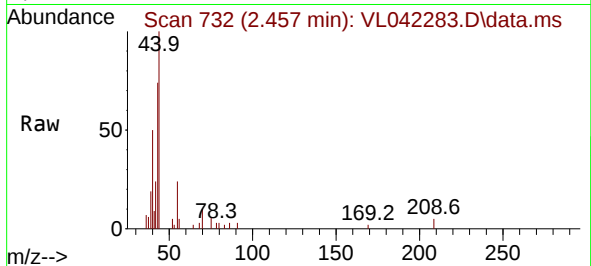




#23
Vinyl Acetate
Concen: 0.243 ppbv
RT: 2.457 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

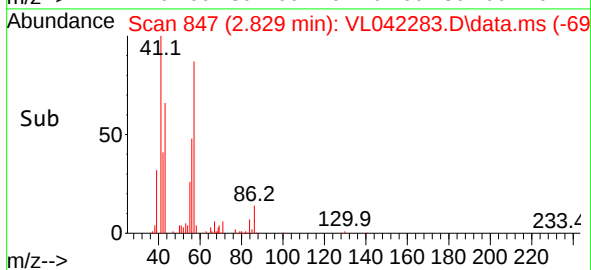
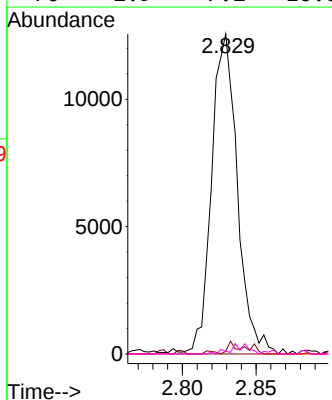
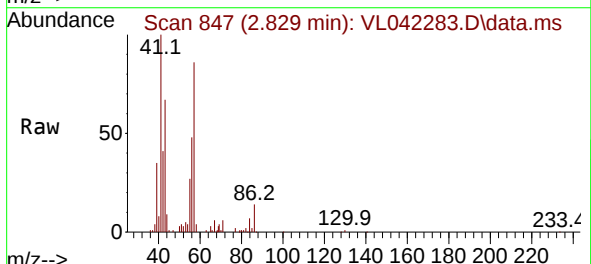
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04022025

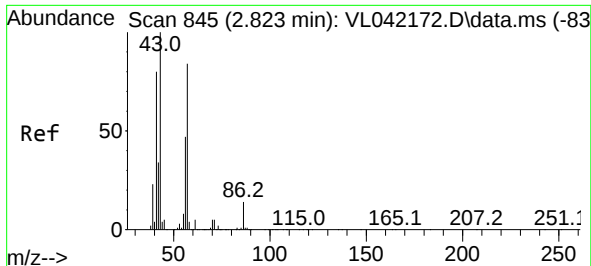
Tgt Ion:	43	Resp:	2280
Ion	Ratio	Lower	Upper
43	100		
86	4.7	5.5	8.3#
42	18.7	8.6	13.0#
44	0.0	6.2	9.4#



#25
Ethyl Acetate
Concen: 0.270 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion:	43	Resp:	15237
Ion	Ratio	Lower	Upper
43	100		
45	2.8	8.2	12.2#
61	0.0	7.3	10.9#
70	2.9	7.2	10.8#

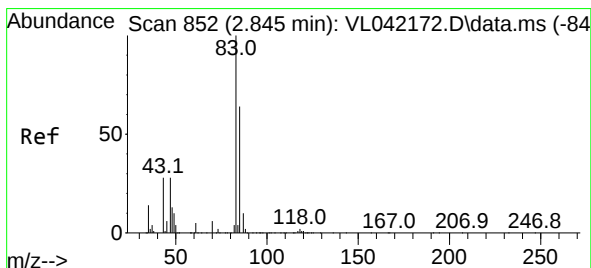
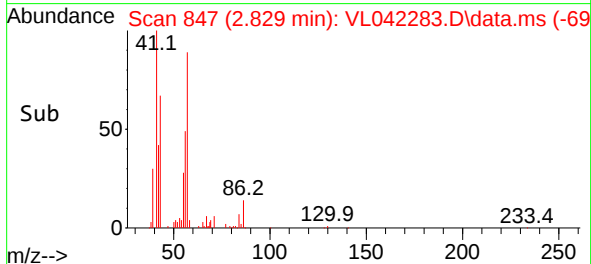
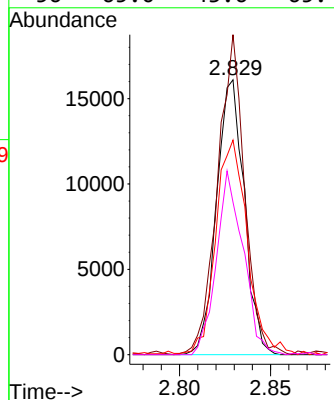
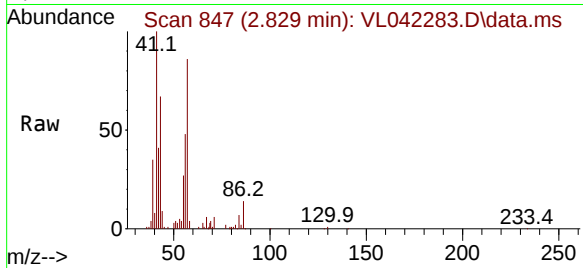




#26
Hexane
Concen: 0.782 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

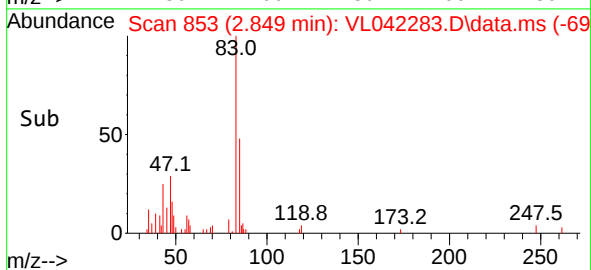
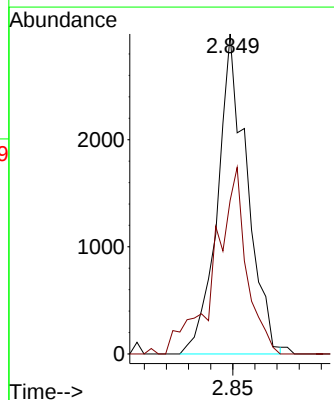
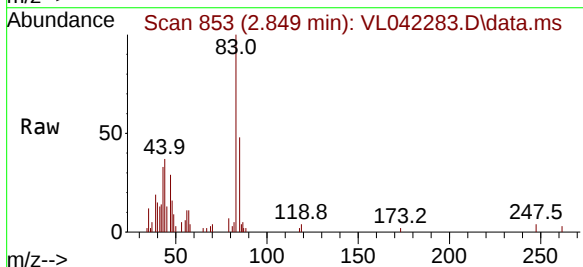
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04022025

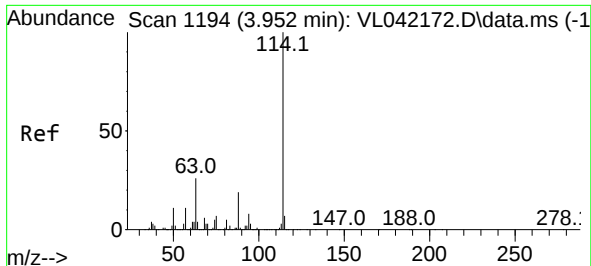
Tgt Ion: 57 Resp: 17021
Ion Ratio Lower Upper
57 100
41 115.7 76.6 114.8#
43 90.5 207.8 311.8#
56 65.0 43.6 65.4



#29
Chloroform
Concen: 0.087 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 83 Resp: 2769
Ion Ratio Lower Upper
83 100
85 47.9 51.4 77.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.010 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-4-04022025

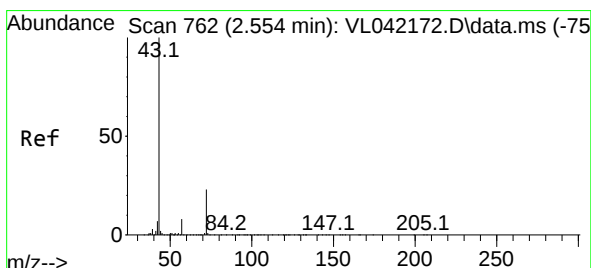
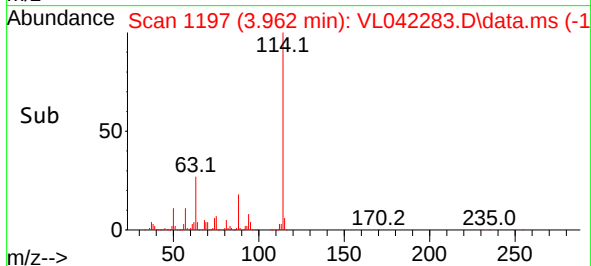
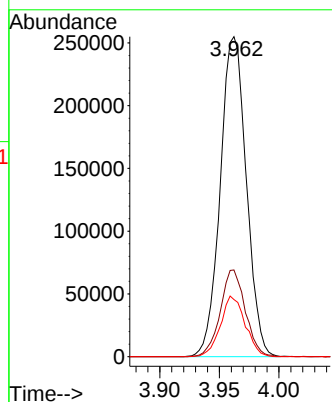
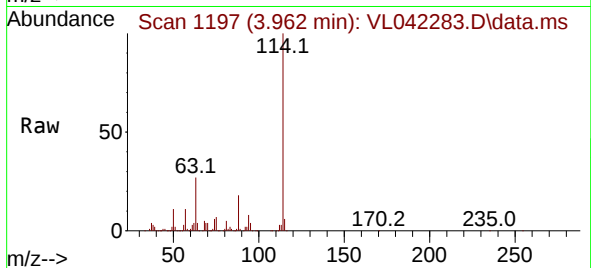
Tgt Ion:114 Resp: 388359

Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 17.9 15.0 22.4



#34

2-Butanone

Concen: 0.328 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL042283.D

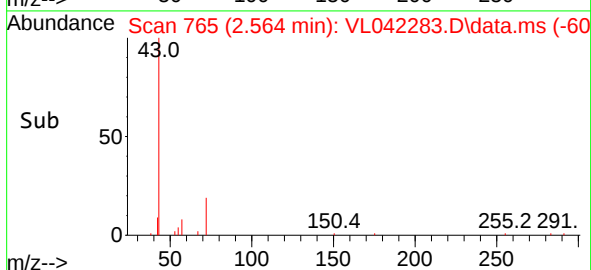
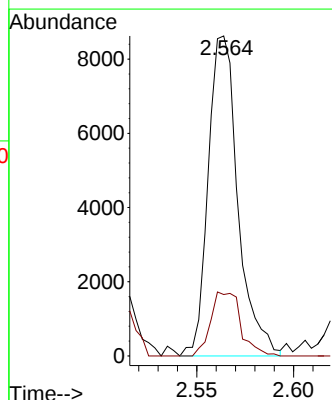
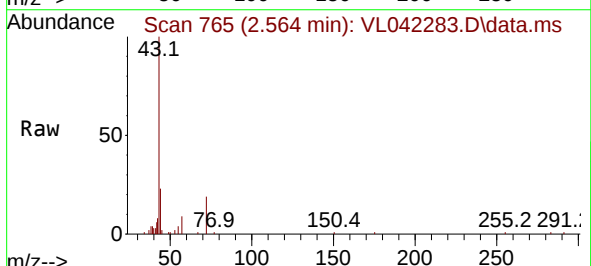
Acq: 09 Apr 2025 02:51

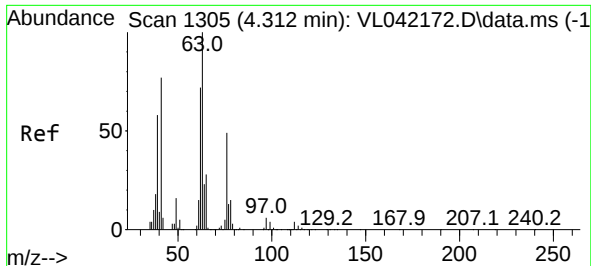
Tgt Ion: 43 Resp: 9233

Ion Ratio Lower Upper

43 100

72 20.1 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.205 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.349 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-4-04022025

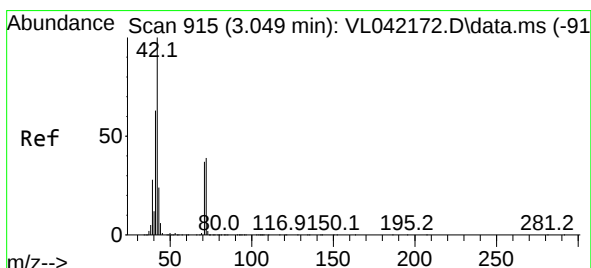
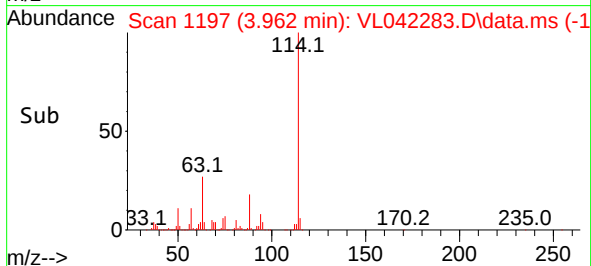
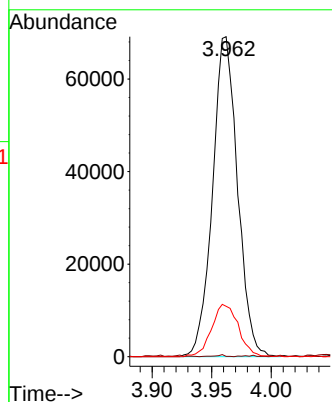
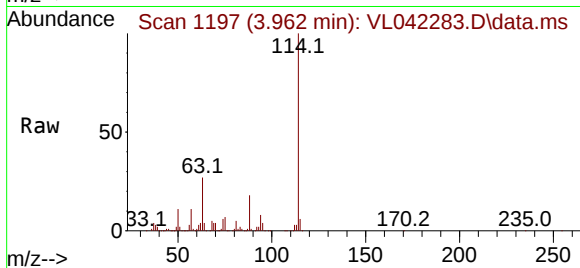
Tgt Ion: 63 Resp: 101030

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 15.8 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.068 ppbv

RT: 3.072 min Scan# 922

Delta R.T. 0.023 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

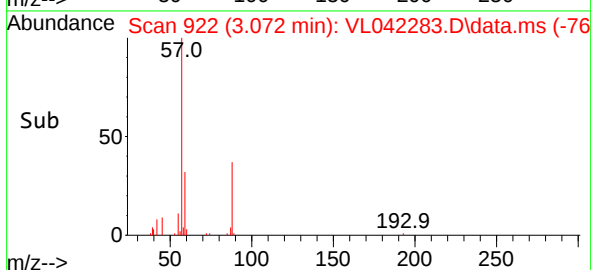
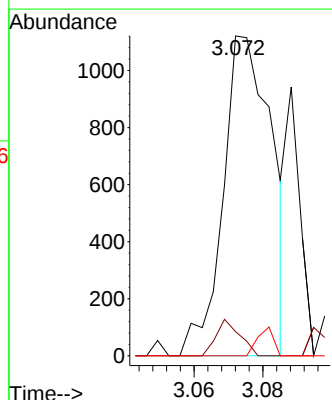
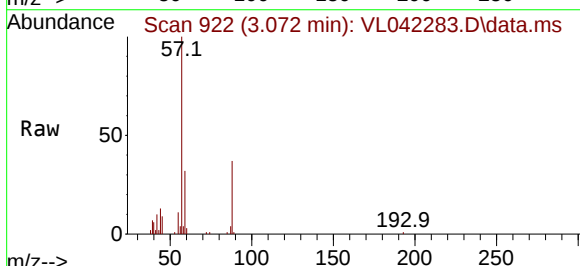
Tgt Ion: 42 Resp: 1102

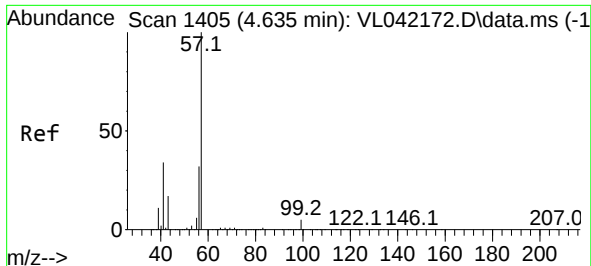
Ion Ratio Lower Upper

42 100

72 5.5 31.4 47.0#

71 0.0 30.2 45.4#

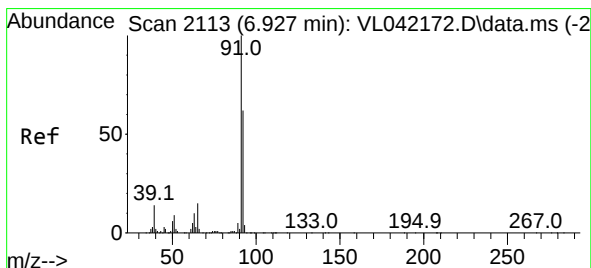
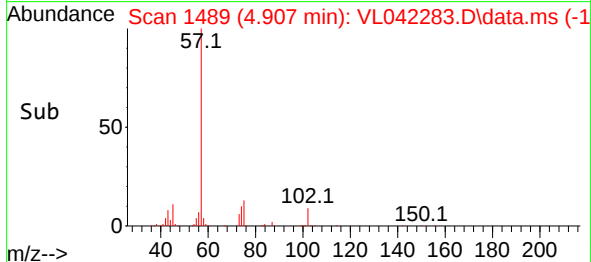
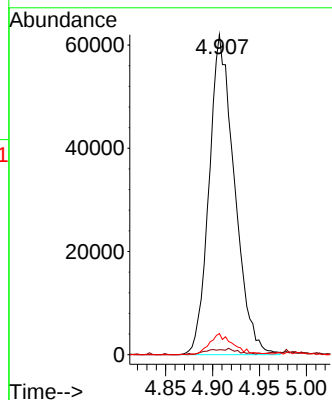
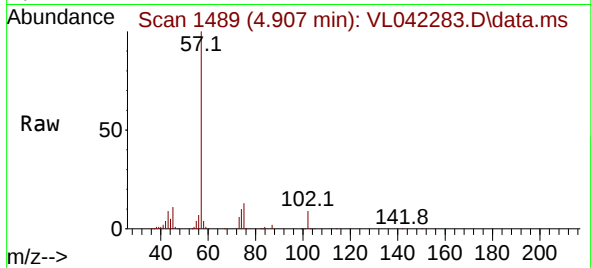




#44
2,2,4-Trimethylpentane
Concen: 1.793 ppbv
RT: 4.907 min Scan# 1405
Delta R.T. 0.272 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

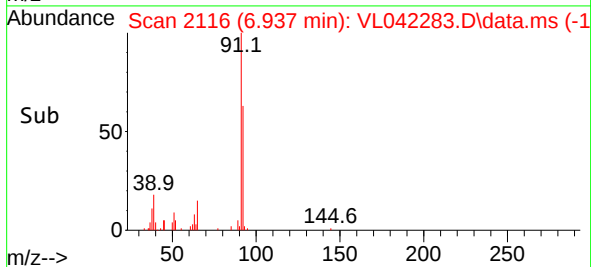
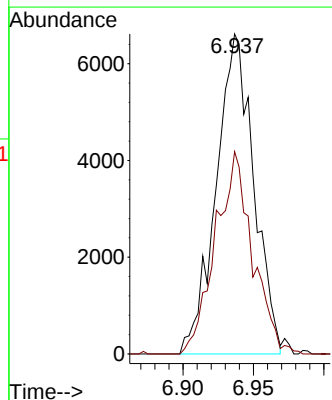
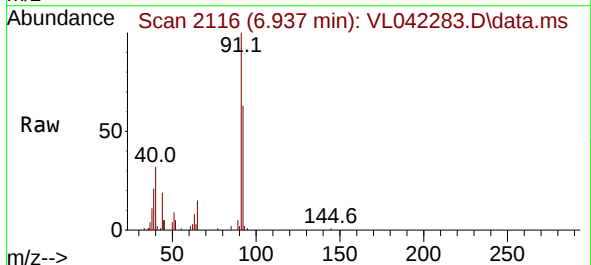
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04022025

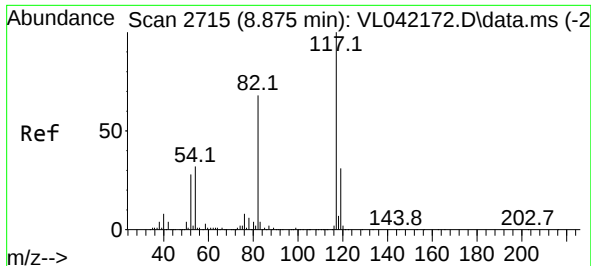
Tgt Ion: 57 Resp: 116682
Ion Ratio Lower Upper
57 100
41 2.4 26.8 40.2#
56 6.2 25.6 38.4#



#53
Toluene
Concen: 0.270 ppbv
RT: 6.937 min Scan# 2116
Delta R.T. 0.010 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 91 Resp: 12300
Ion Ratio Lower Upper
91 100
92 62.5 48.4 72.6

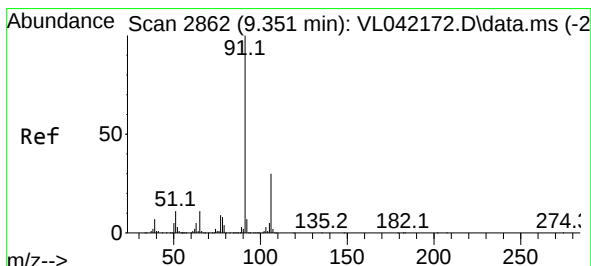
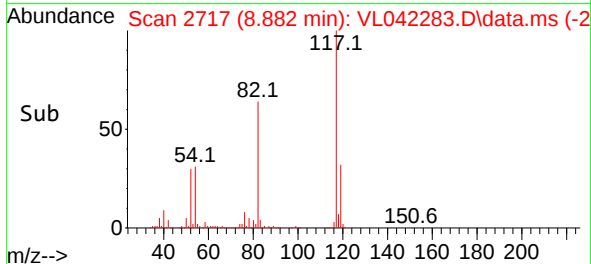
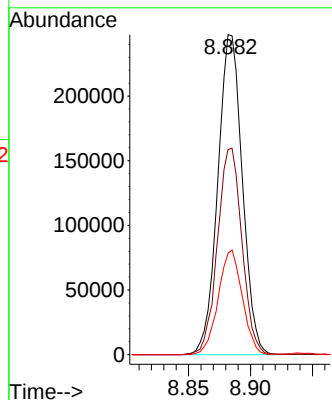
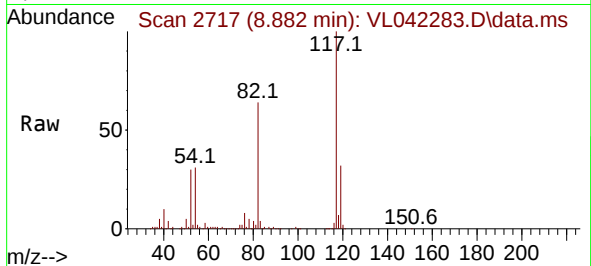




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

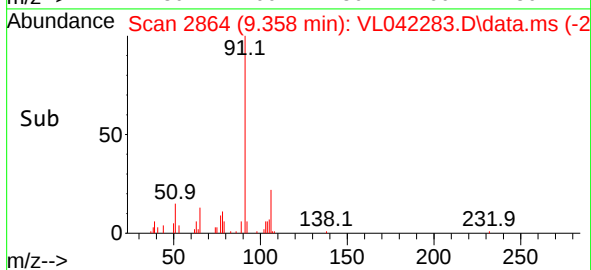
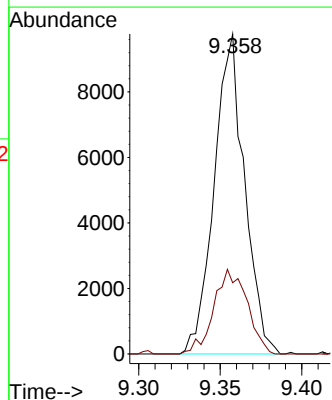
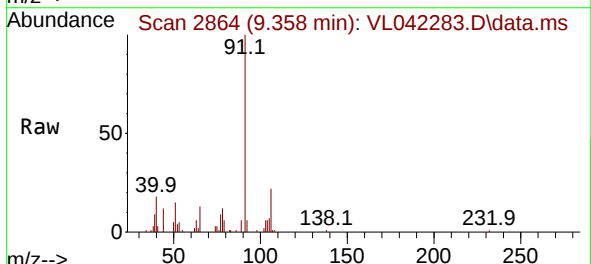
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04022025

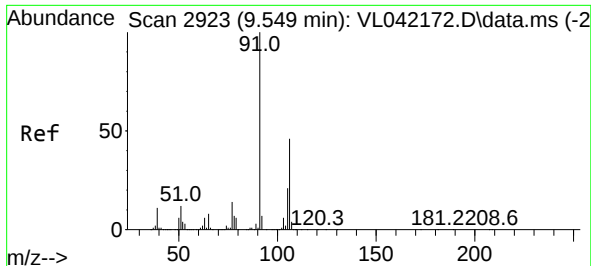
Tgt Ion: 117 Resp: 341830
Ion Ratio Lower Upper
117 100
82 64.4 55.8 83.6
119 32.1 25.5 38.3



#58
Ethyl Benzene
Concen: 0.208 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 91 Resp: 12642
Ion Ratio Lower Upper
91 100
106 22.2 24.2 36.2#





#59

m/p-Xylene

Concen: 0.825 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.016 min

Lab File: VL042283.D

Acq: 09 Apr 2025 02:51

Instrument :

MSVOA_L

ClientSampleId :

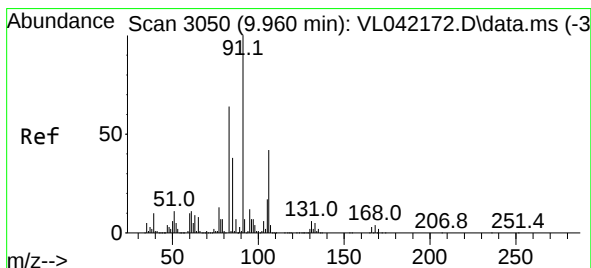
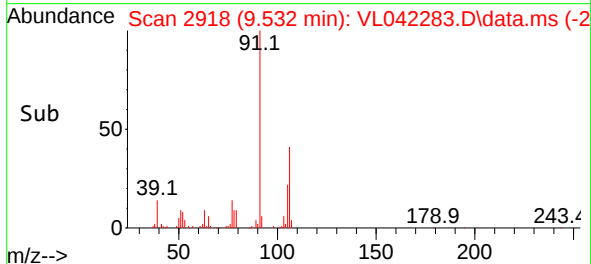
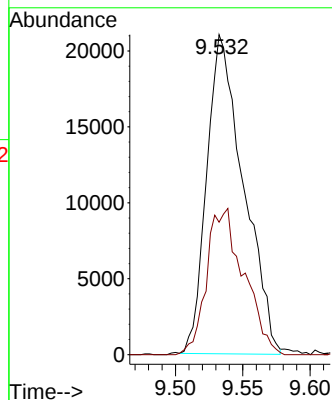
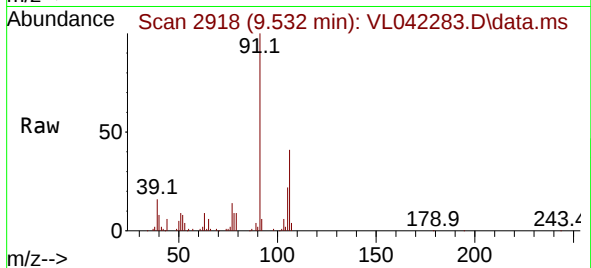
SSSG-B14-4-04022025

Tgt Ion: 91 Resp: 39977

Ion Ratio Lower Upper

91 100

106 46.4 36.4 54.6



#60

o-Xylene

Concen: 0.196 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.007 min

Lab File: VL042283.D

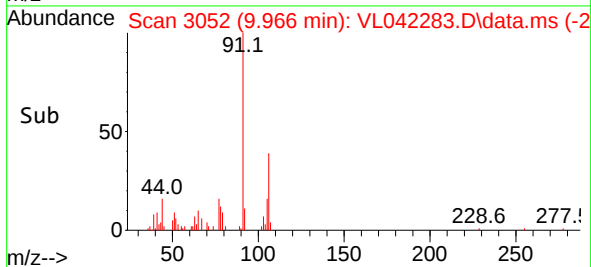
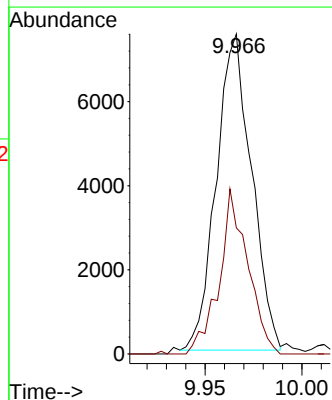
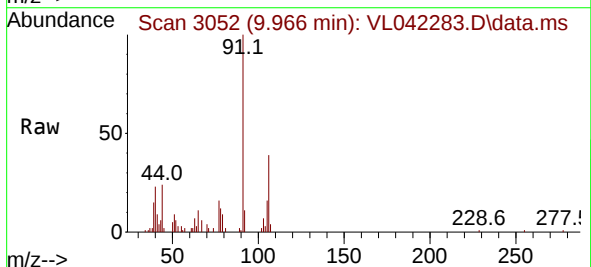
Acq: 09 Apr 2025 02:51

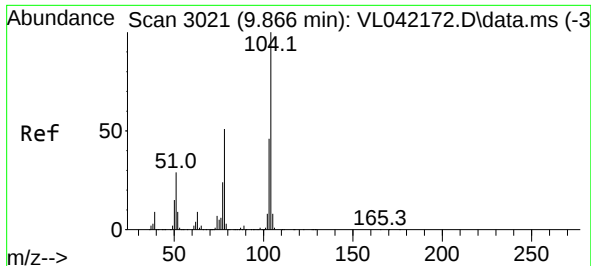
Tgt Ion: 91 Resp: 9522

Ion Ratio Lower Upper

91 100

106 42.3 20.8 62.5

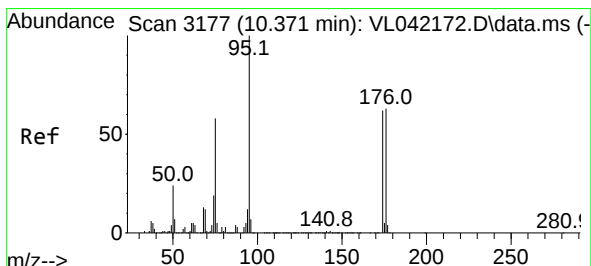
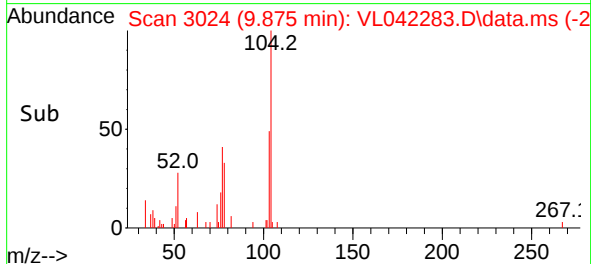
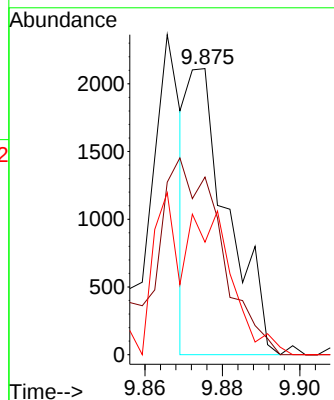
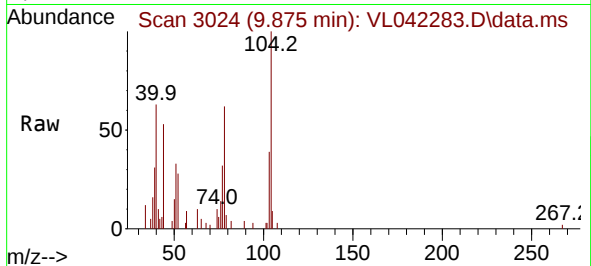




#61
Styrene
Concen: 0.063 ppbv
RT: 9.875 min Scan# 3021
Delta R.T. 0.010 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

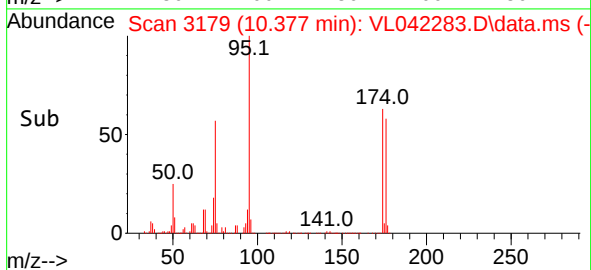
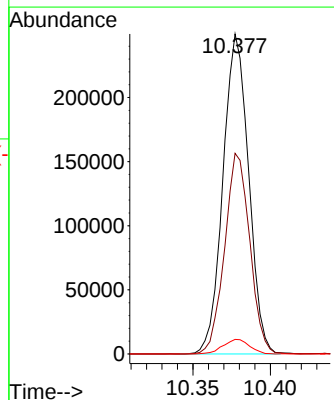
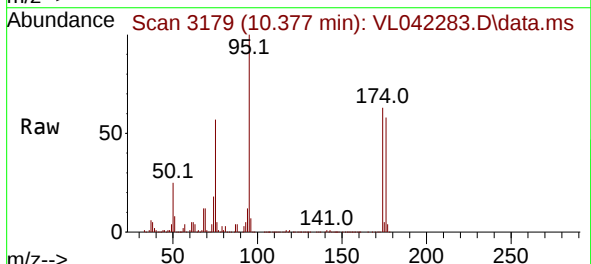
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04022025

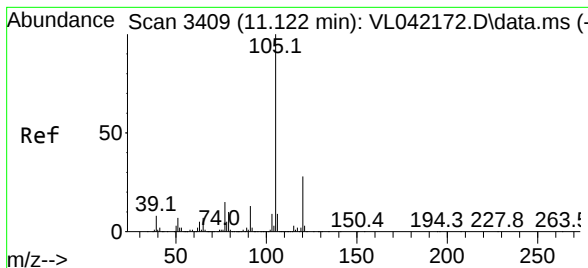
Tgt Ion:104 Resp: 1514
Ion Ratio Lower Upper
104 100
78 0.0 41.8 62.6#
103 0.0 37.0 55.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.243 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

Tgt Ion: 95 Resp: 287523
Ion Ratio Lower Upper
95 100
174 61.8 50.6 76.0
175 4.7 3.8 5.6

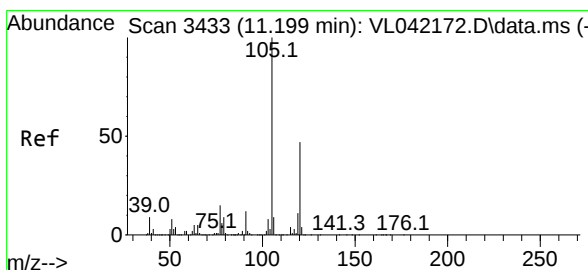
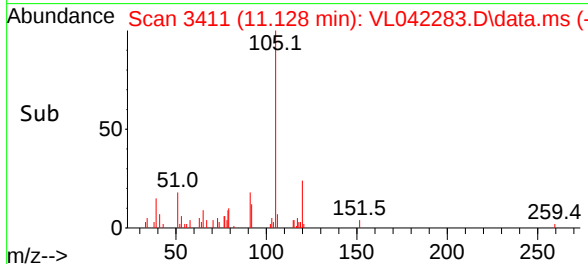
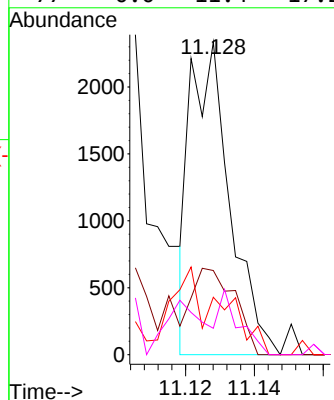
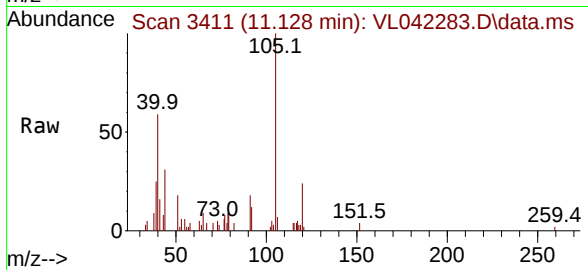




#72
4-Ethyltoluene
Concen: 0.031 ppbv
RT: 11.128 min Scan# 3409
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

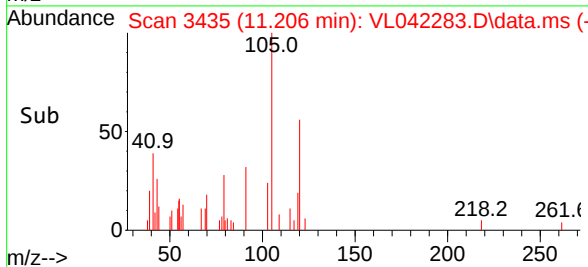
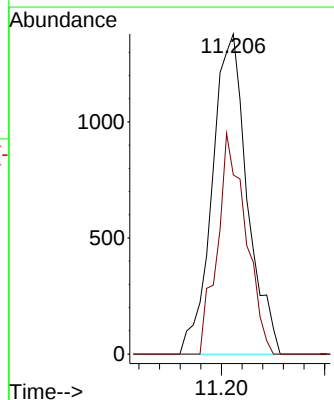
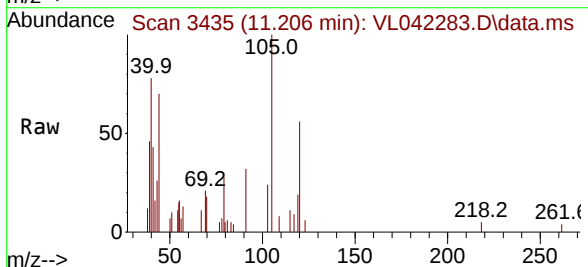
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04022025

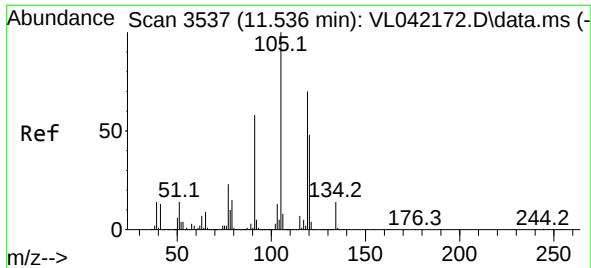
Tgt Ion:105	Resp:	1856
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.4 35.0#
91	37.3	10.3 15.5#
77	0.0	11.4 17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.007 min
Lab File: VL042283.D
Acq: 09 Apr 2025 02:51

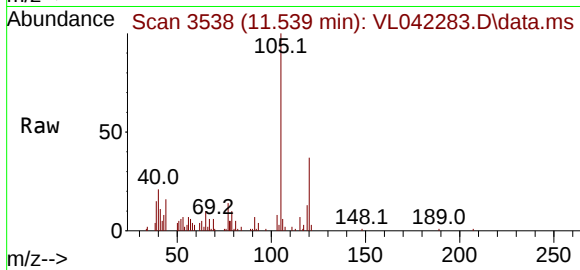
Tgt Ion:105	Resp:	1627
Ion Ratio	Lower	Upper
105	100	
120	56.0	37.4 56.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.105 ppbv
 RT: 11.539 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VL042283.D
 Acq: 09 Apr 2025 02:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-4-04022025



Tgt Ion:	105	Resp:	6419
Ion	Ratio	Lower	Upper
105	100		
120	37.3	38.6	58.0#
91	7.2	46.2	69.2#
77	17.6	18.6	27.8#

