

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
 Data File : VL039791.D
 Acq On : 25 Oct 2022 17:13
 Operator : SY/AP
 Sample : N5278-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

Quant Time: Oct 28 08:08:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Oct 24 20:00:55 2022
 Response via : Initial Calibration

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

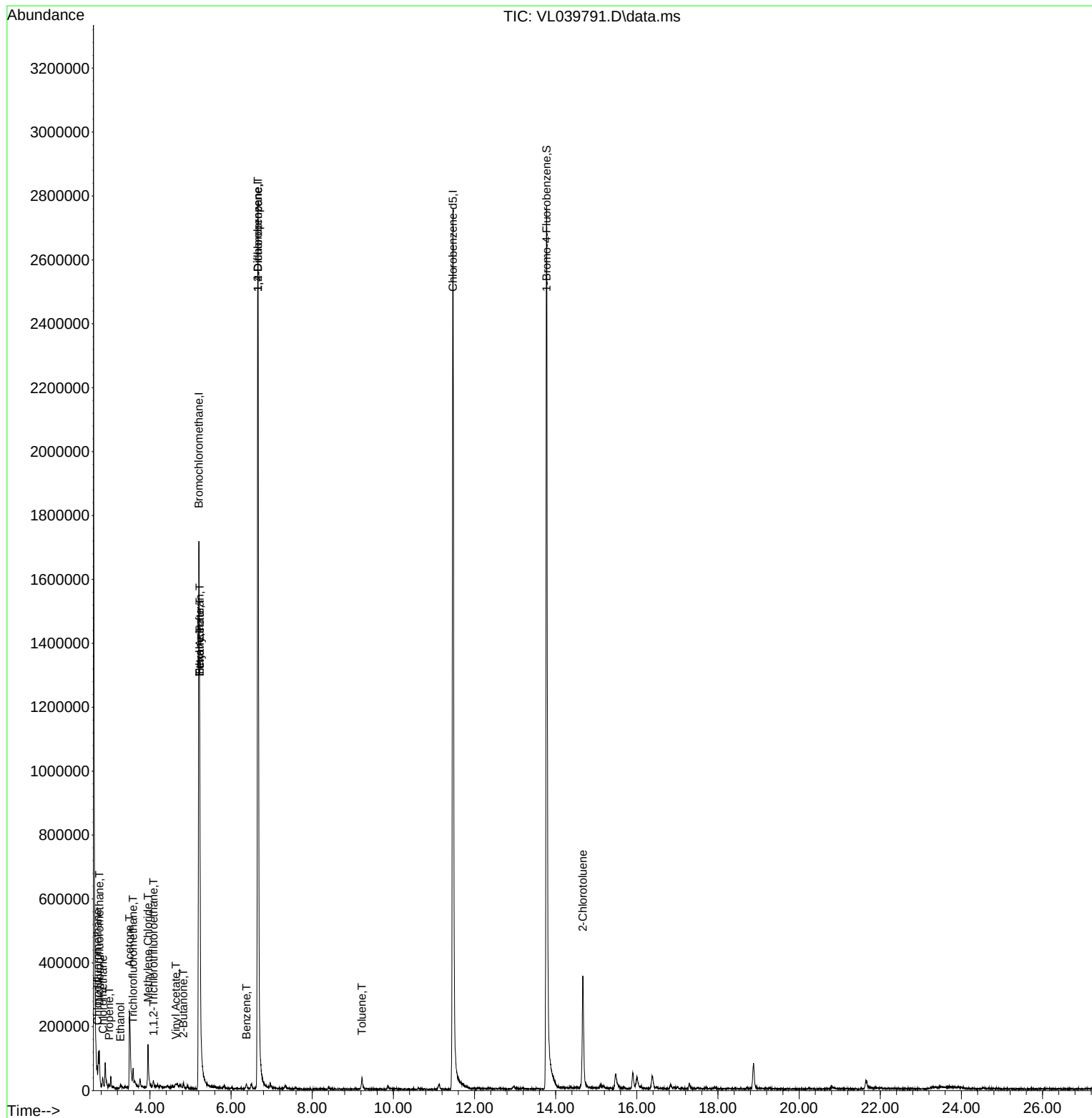
Internal Standards						
1) Bromochloromethane	5.205	49	885149	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2214222	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	1832365	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1299767	9.971	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.751	85	68584	0.740	ppbv	97
3) Chlorodifluoromethane	2.703	51	34608	0.325	ppbv	96
4) Chloromethane	2.841	50	30760	0.462	ppbv	91
9) Propene	2.992	41	2176	0.048	ppbv	96
11) Trichlorofluoromethane	3.584	101	27581	0.213	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.086	101	3536	0.035	ppbv #	1
13) Ethanol	3.272	45	4423	1.348	ppbv #	37
15) Acetone	3.497	43	302892	2.865	ppbv #	89
20) Methylene Chloride	3.954	84	42776	1.063	ppbv #	91
23) Vinyl Acetate	4.642	43	4576	0.112	ppbv #	71
25) Ethyl Acetate	5.227	43	186608	0.903	ppbv #	77
26) Hexane	5.227	57	253722	2.952	ppbv #	37
34) 2-Butanone	4.822	43	9115	0.088	ppbv #	29
36) Benzene	6.381	78	5749	0.034	ppbv #	81
39) 1,2-Dichloropropane	6.658	63	538162	8.192	ppbv #	26
41) Tetrahydrofuran	5.227	42	103674	1.602	ppbv #	50
53) Toluene	9.220	91	10771	0.060	ppbv #	21
71) 2-Chlorotoluene	14.670	91	84641	0.452	ppbv #	42

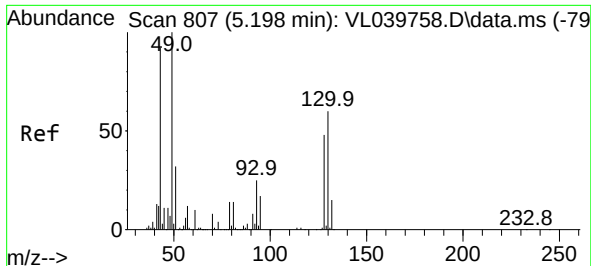
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 28 08:08:53 2022
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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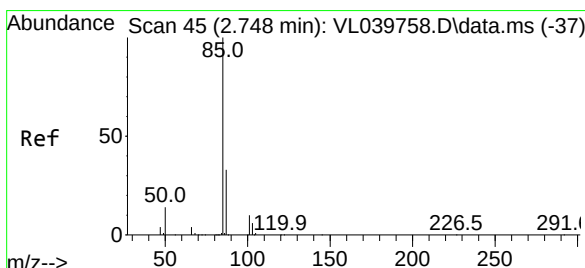
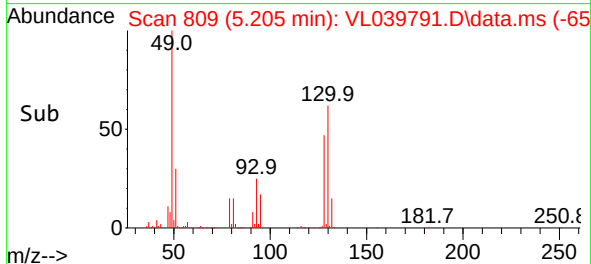
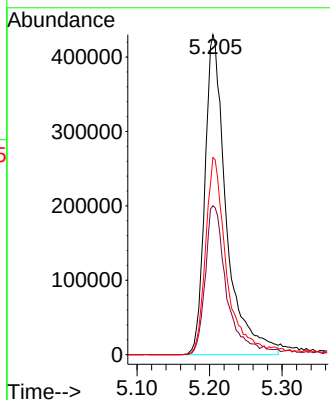
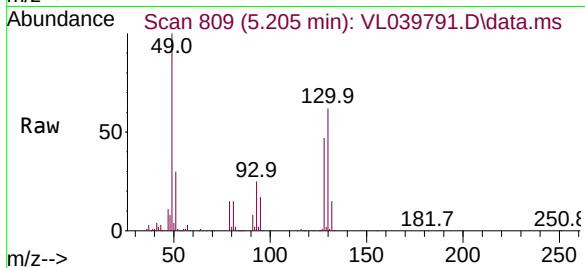




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.205 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

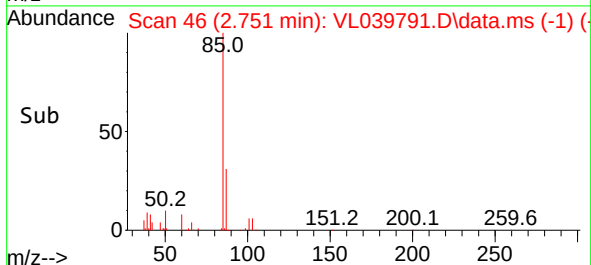
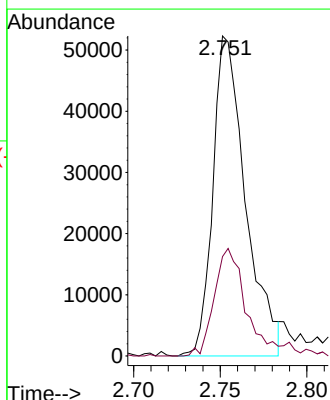
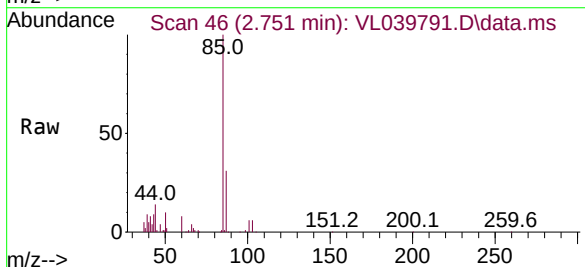
Instrument :
MSVOA_1
ClientSampleId :
AA-1DUP

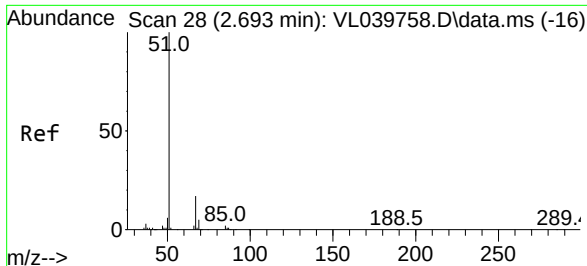
Tgt Ion: 49 Resp: 885149
Ion Ratio Lower Upper
49 100
128 48.7 24.6 74.0
130 61.6 31.8 95.3



#2
Dichlorodifluoromethane
Concen: 0.740 ppbv
RT: 2.751 min Scan# 46
Delta R.T. 0.003 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

Tgt Ion: 85 Resp: 68584
Ion Ratio Lower Upper
85 100
87 31.0 26.1 39.1

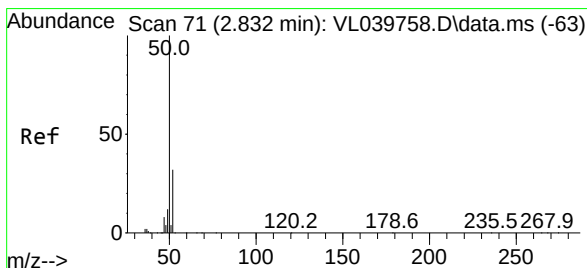
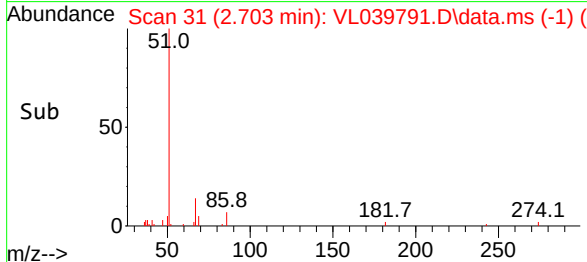
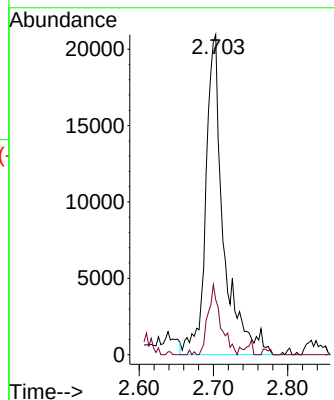
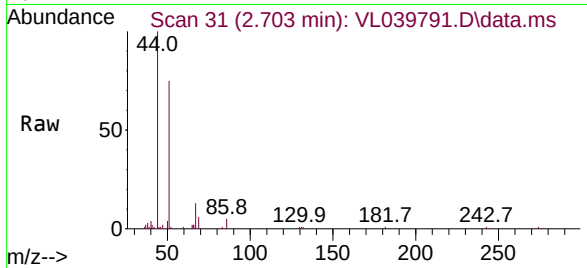




#3
Chlorodifluoromethane
Concen: 0.325 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

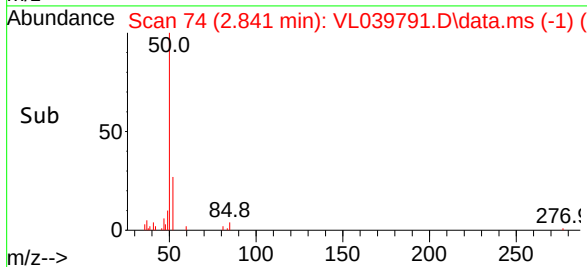
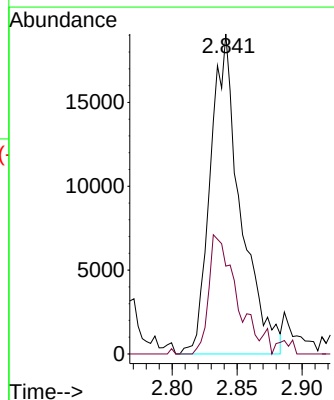
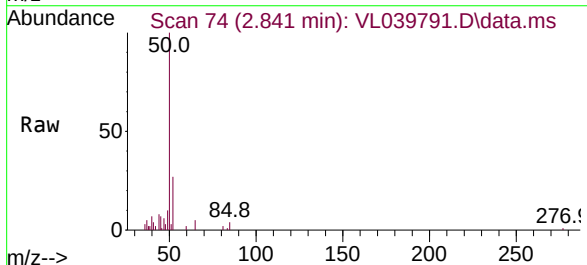
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

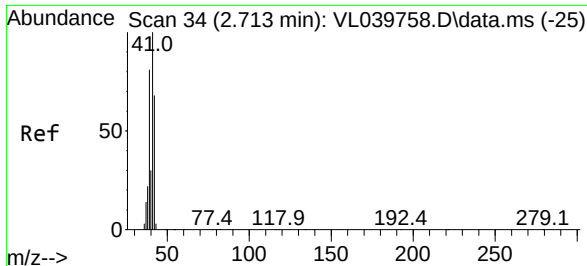
Tgt Ion: 51 Resp: 34608
Ion Ratio Lower Upper
51 100
67 15.9 14.2 21.2



#4
Chloromethane
Concen: 0.462 ppbv
RT: 2.841 min Scan# 74
Delta R.T. 0.010 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

Tgt Ion: 50 Resp: 30760
Ion Ratio Lower Upper
50 100
52 27.5 25.9 38.9

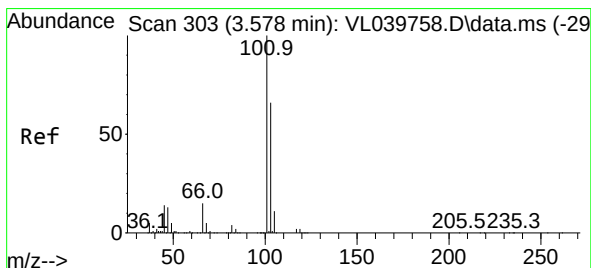
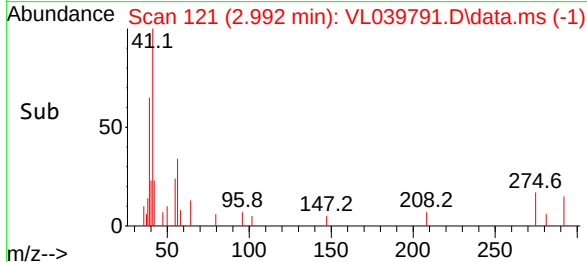
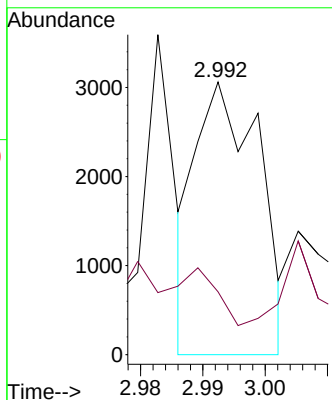
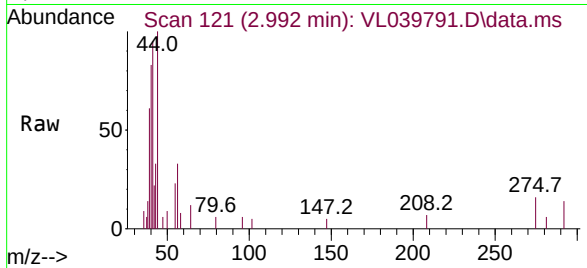




#9
Propene
Concen: 0.048 ppbv
RT: 2.992 min Scan# 11
Delta R.T. 0.280 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

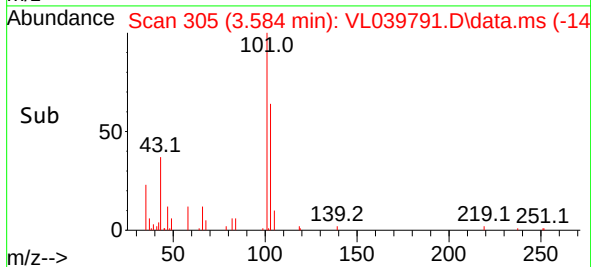
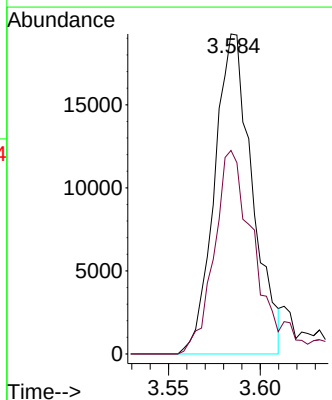
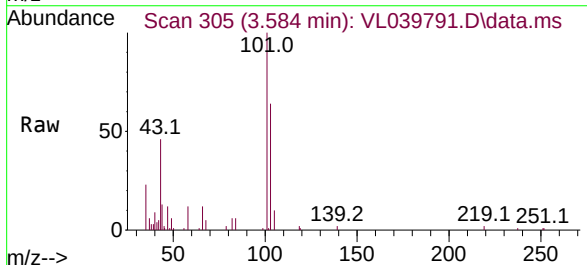
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

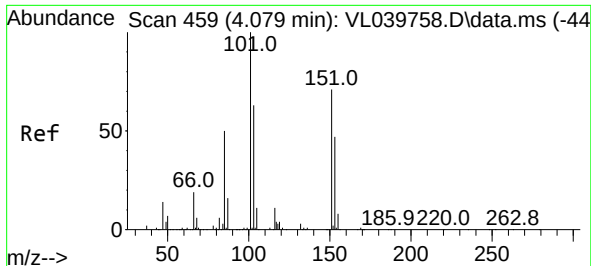
Tgt Ion: 41 Resp: 2176
Ion Ratio Lower Upper
41 100
42 75.9 58.0 87.0



#11
Trichlorofluoromethane
Concen: 0.213 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.006 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

Tgt Ion: 101 Resp: 27581
Ion Ratio Lower Upper
101 100
103 63.6 52.7 79.1

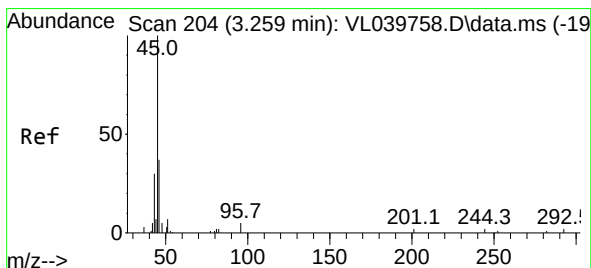
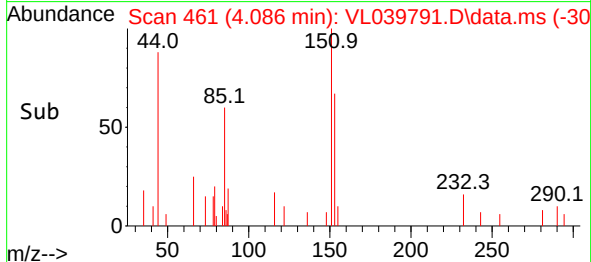
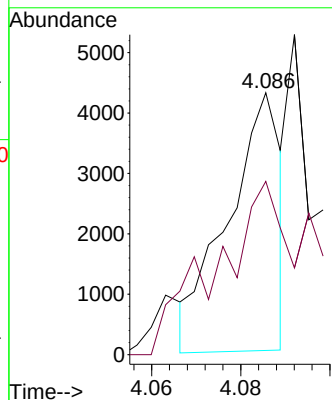
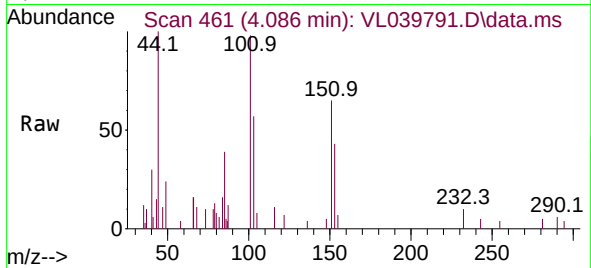




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.035 ppbv
RT: 4.086 min Scan# 4
Delta R.T. 0.006 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

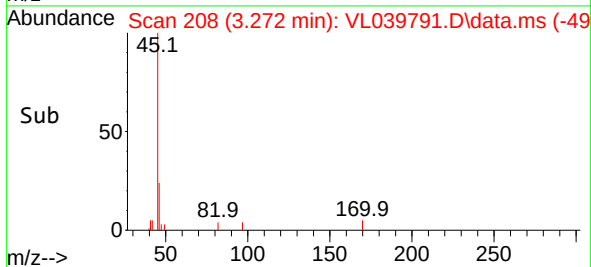
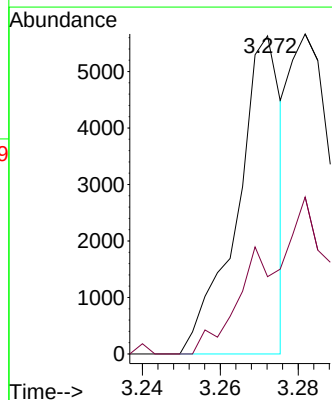
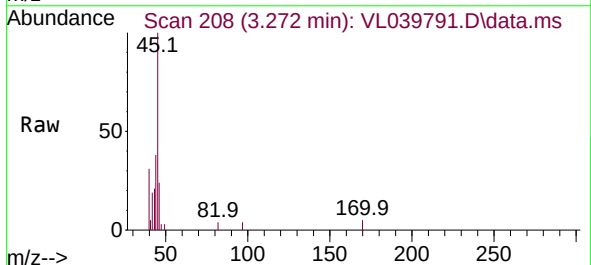
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

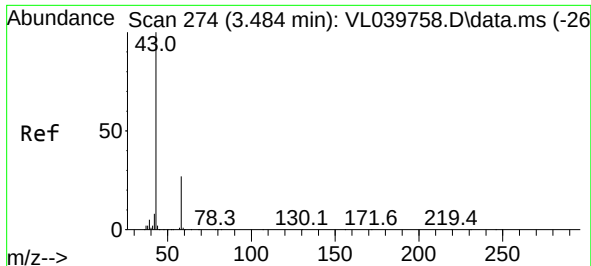
Tgt Ion:101 Resp: 3536
Ion Ratio Lower Upper
101 100
151 153.2 56.6 84.8#



#13
Ethanol
Concen: 1.348 ppbv
RT: 3.272 min Scan# 208
Delta R.T. 0.013 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

Tgt Ion: 45 Resp: 4423
Ion Ratio Lower Upper
45 100
46 0.0 15.3 61.3#

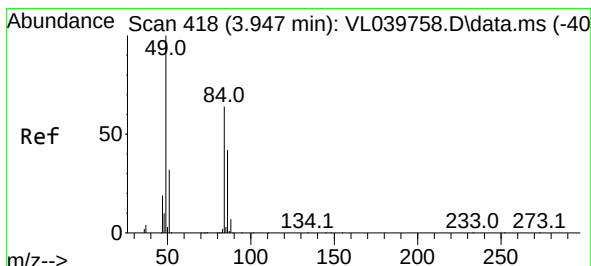
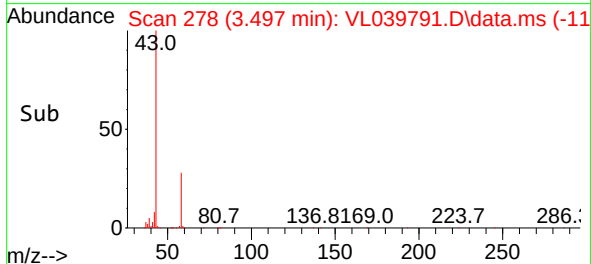
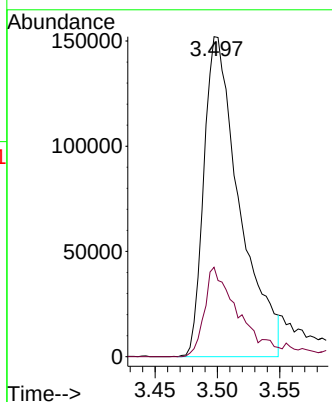
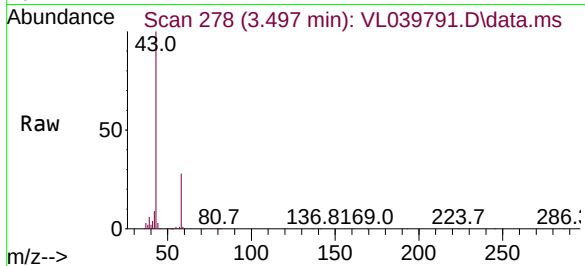




#15
Acetone
Concen: 2.865 ppbv
RT: 3.497 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

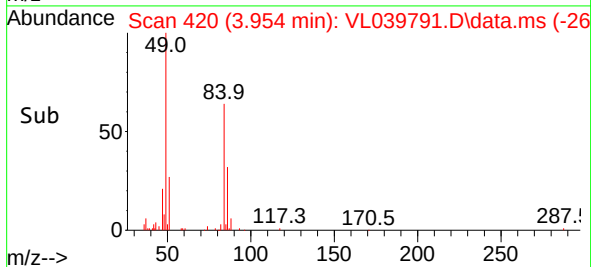
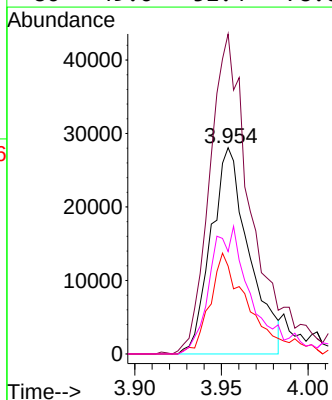
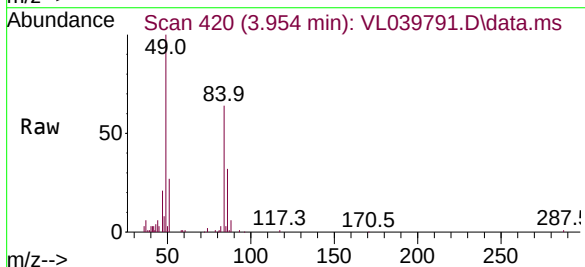
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ClientSampleId :
AA-1DUP

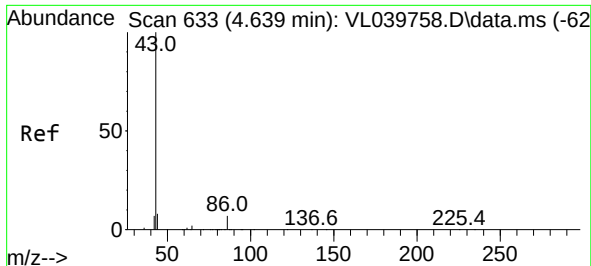
Tgt Ion: 43 Resp: 302892
Ion Ratio Lower Upper
43 100
58 31.3 20.7 31.1#



#20
Methylene Chloride
Concen: 1.063 ppbv
RT: 3.954 min Scan# 420
Delta R.T. 0.006 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

Tgt Ion: 84 Resp: 42776
Ion Ratio Lower Upper
84 100
49 153.6 126.0 189.0
51 42.6 40.9 61.3
86 49.6 52.4 78.6#

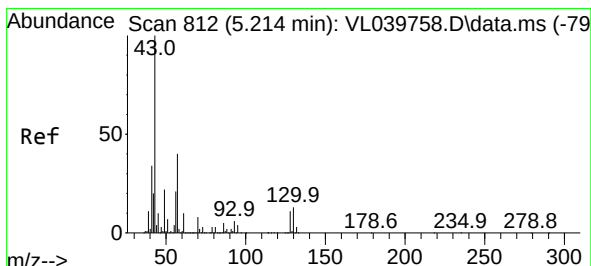
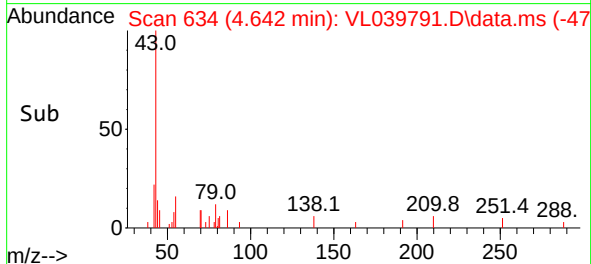
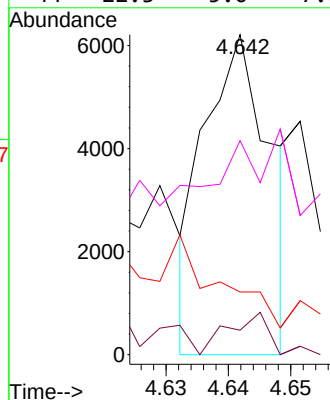
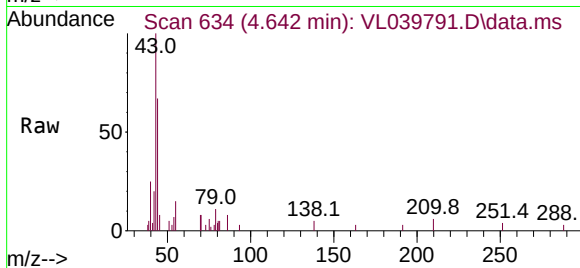




#23
 Vinyl Acetate
 Concen: 0.112 ppbv
 RT: 4.642 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL039791.D
 Acq: 25 Oct 2022 17:13

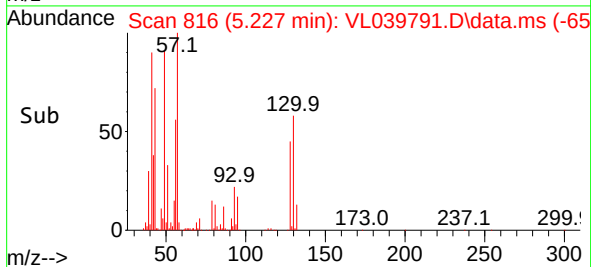
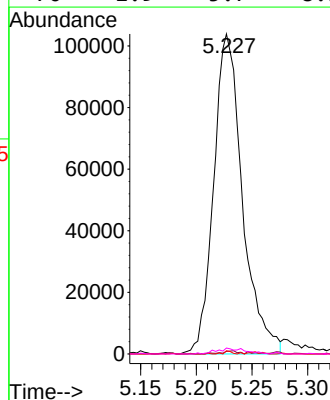
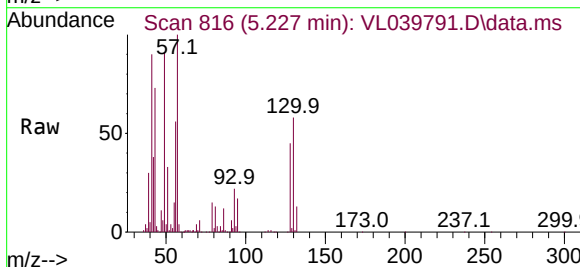
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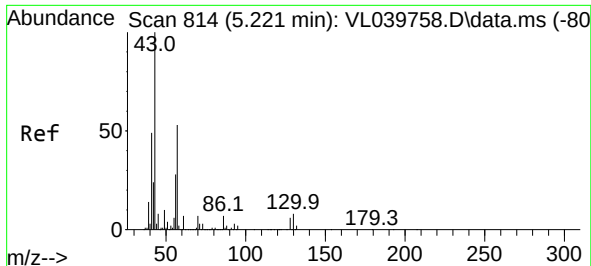
Tgt Ion: 43	Resp: 4576
Ion Ratio	Lower Upper
43 100	
86 12.2	4.9 7.3#
42 17.9	7.2 10.8#
44 22.3	5.0 7.6#



#25
 Ethyl Acetate
 Concen: 0.903 ppbv
 RT: 5.227 min Scan# 816
 Delta R.T. 0.013 min
 Lab File: VL039791.D
 Acq: 25 Oct 2022 17:13

Tgt	Ion: 43	Resp:	186608
Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.2	12.2#
61	0.6	8.2	12.4#
70	1.9	5.7	8.5#

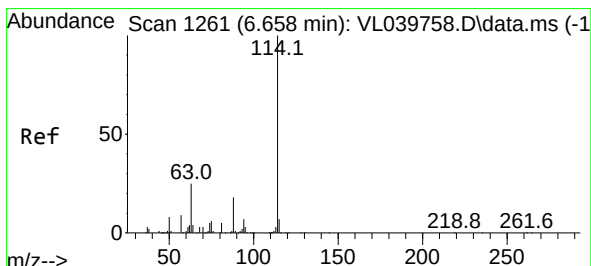
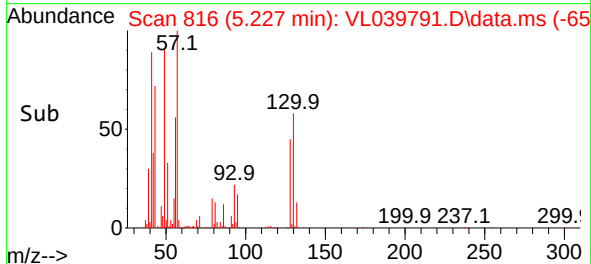
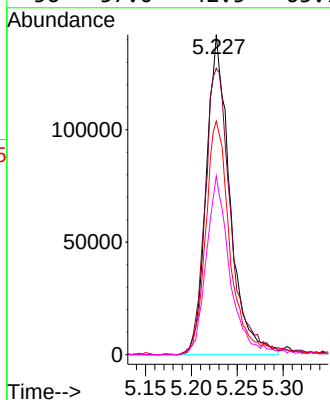
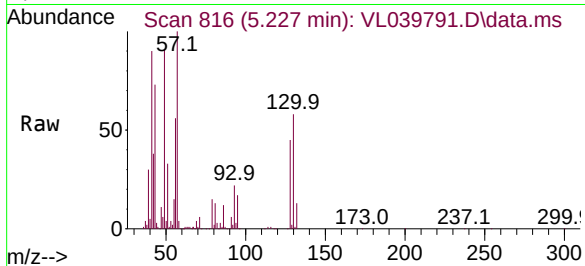




#26
Hexane
Concen: 2.952 ppbv
RT: 5.227 min Scan# 814
Delta R.T. 0.006 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

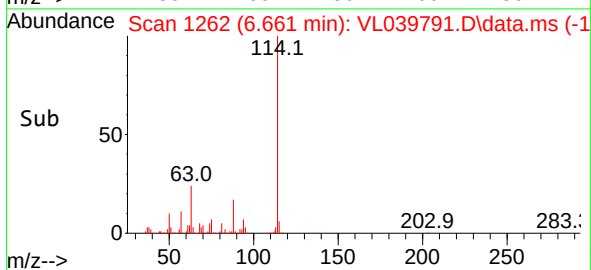
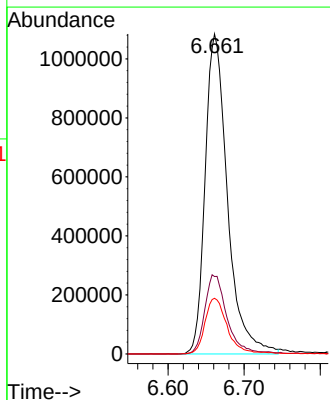
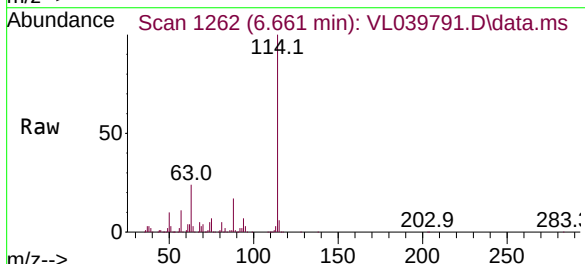
Instrument :
MSVOA_L
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AA-1DUP

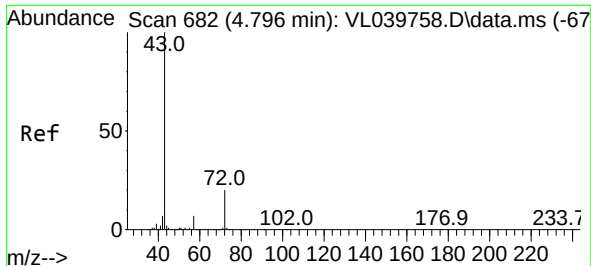
Tgt Ion: 57 Resp: 253722
Ion Ratio Lower Upper
57 100
41 99.1 76.1 114.1
43 76.0 197.1 295.7#
56 57.0 42.5 63.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. 0.003 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

Tgt Ion: 114 Resp: 2214222
Ion Ratio Lower Upper
114 100
63 24.9 20.1 30.1
88 17.6 14.5 21.7

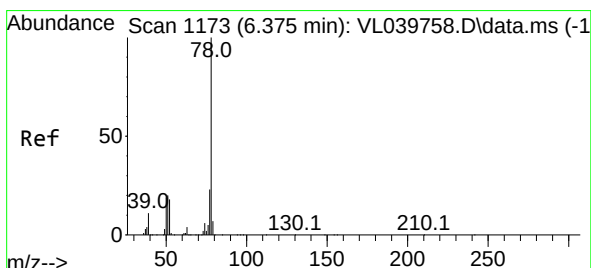
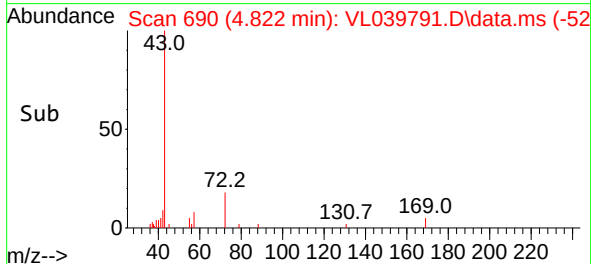
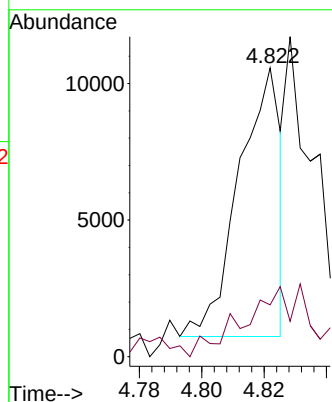
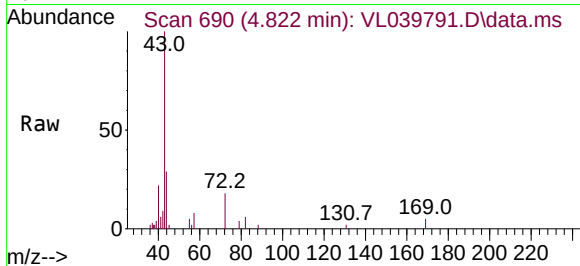




#34
2-Butanone
Concen: 0.088 ppbv
RT: 4.822 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

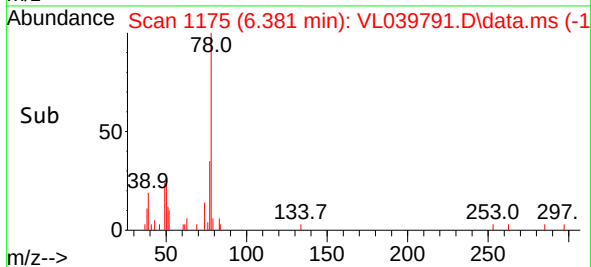
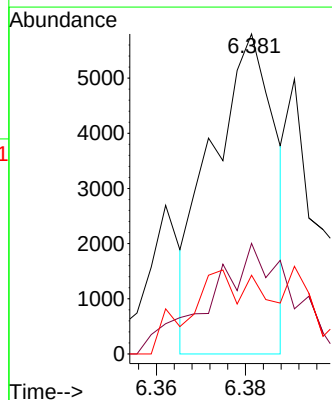
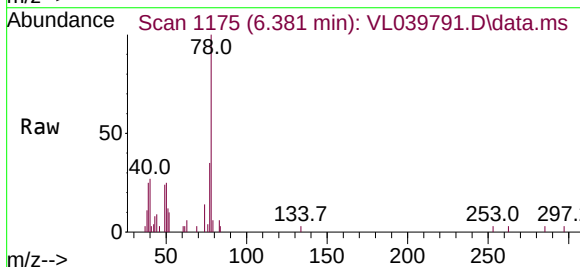
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

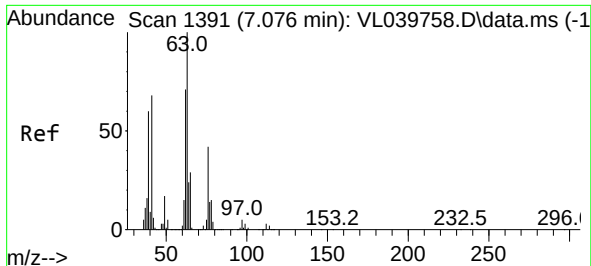
Tgt Ion: 43 Resp: 9115
Ion Ratio Lower Upper
43 100
72 53.6 16.5 24.7#



#36
Benzene
Concen: 0.034 ppbv
RT: 6.381 min Scan# 1175
Delta R.T. 0.006 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

Tgt Ion: 78 Resp: 5749
Ion Ratio Lower Upper
78 100
77 34.4 18.3 27.5#
50 12.9 15.2 22.8#





#39

1,2-Dichloropropane

Concen: 8.192 ppbv

RT: 6.658 min Scan# 1

Delta R.T. -0.418 min

Lab File: VL039791.D

Acq: 25 Oct 2022 17:13

Instrument :

MSVOA_L

ClientSampleId :

AA-1DUP

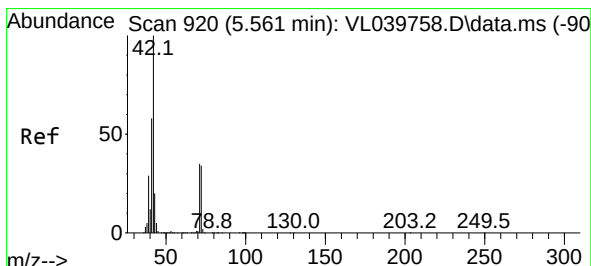
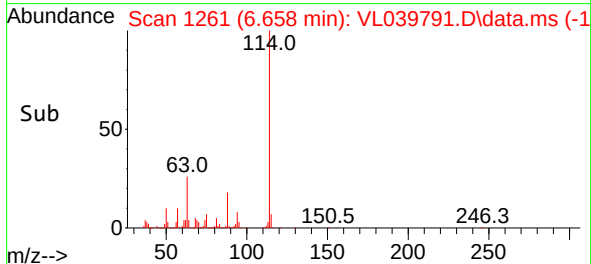
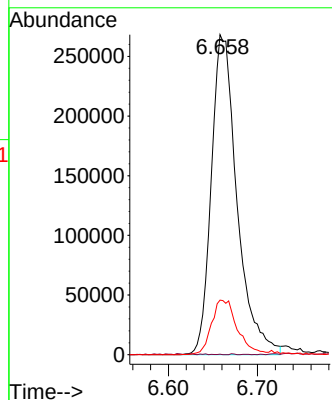
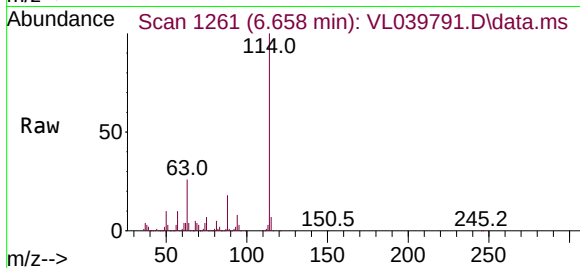
Tgt Ion: 63 Resp: 538162

Ion Ratio Lower Upper

63 100

41 0.0 54.5 81.7#

62 17.1 56.6 85.0#



#41

Tetrahydrofuran

Concen: 1.602 ppbv

RT: 5.227 min Scan# 816

Delta R.T. -0.334 min

Lab File: VL039791.D

Acq: 25 Oct 2022 17:13

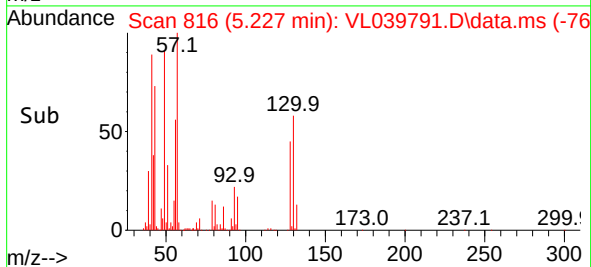
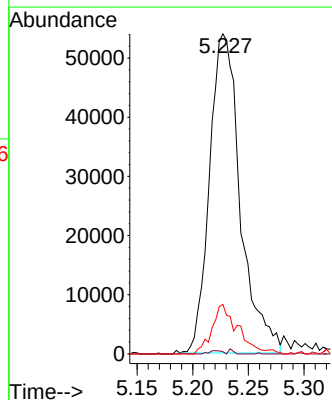
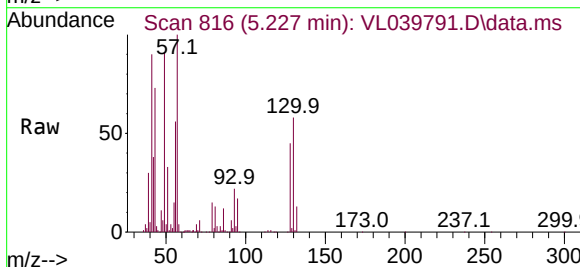
Tgt Ion: 42 Resp: 103674

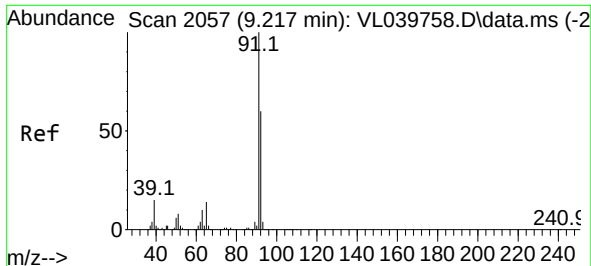
Ion Ratio Lower Upper

42 100

72 0.7 29.9 44.9#

71 13.4 29.2 43.8#

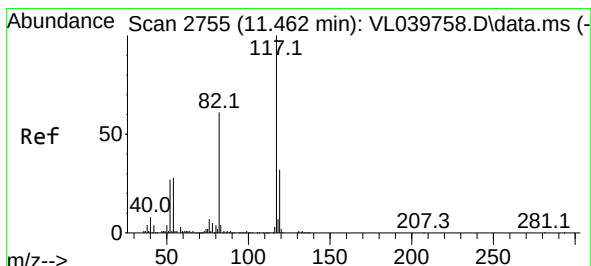
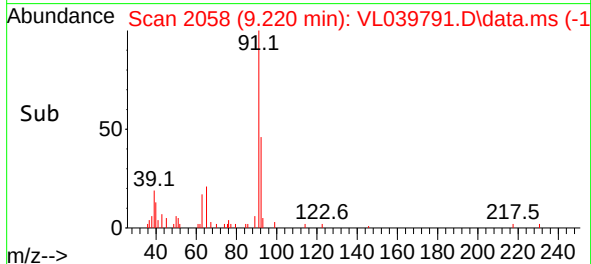
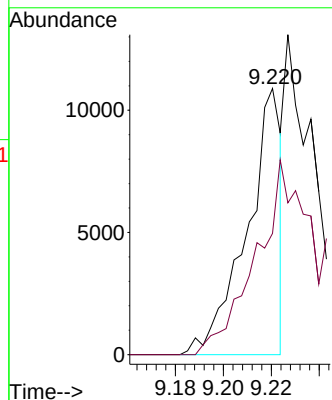
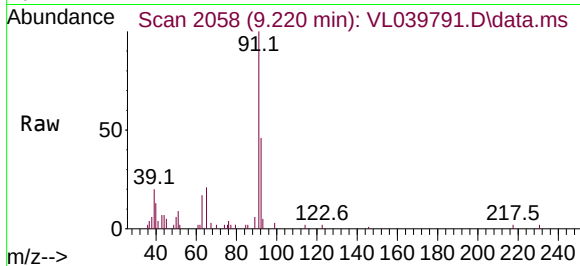




#53
Toluene
Concen: 0.060 ppbv
RT: 9.220 min Scan# 2057
Delta R.T. 0.003 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

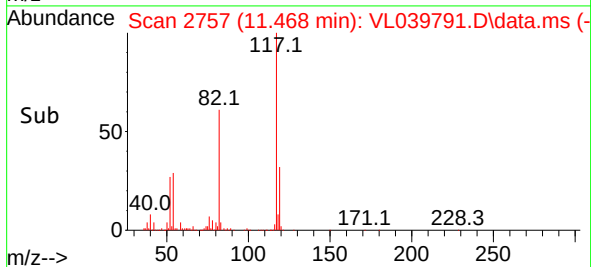
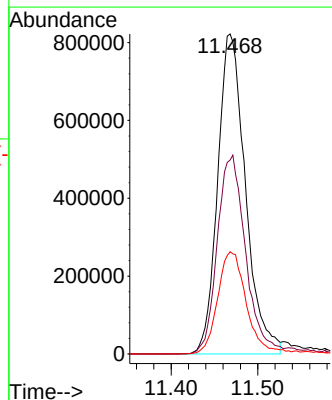
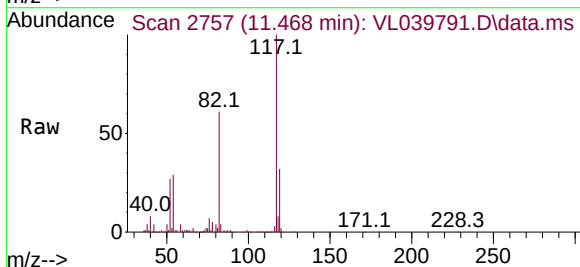
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

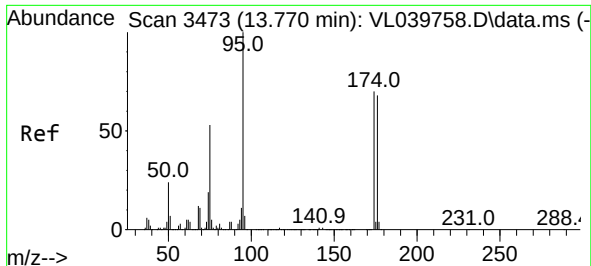
Tgt Ion: 91 Resp: 10771
Ion Ratio Lower Upper
91 100
92 0.0 48.0 72.0#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.006 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

Tgt Ion: 117 Resp: 1832365
Ion Ratio Lower Upper
117 100
82 65.9 49.9 74.9
119 33.6 25.2 37.8

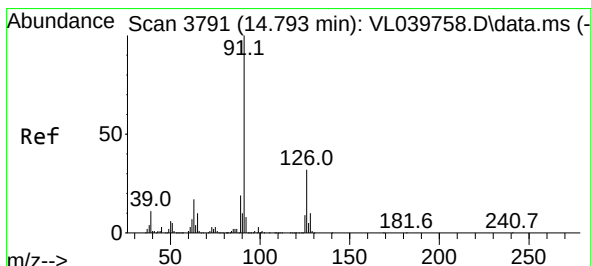
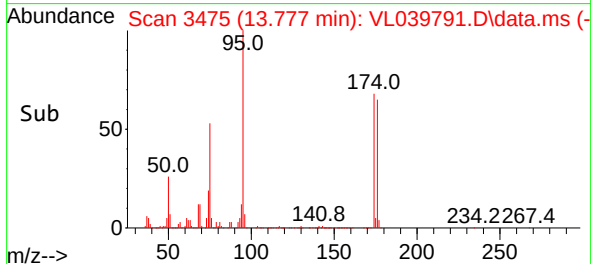
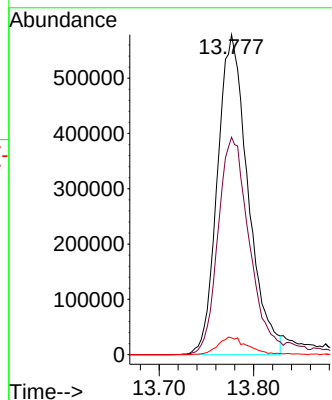
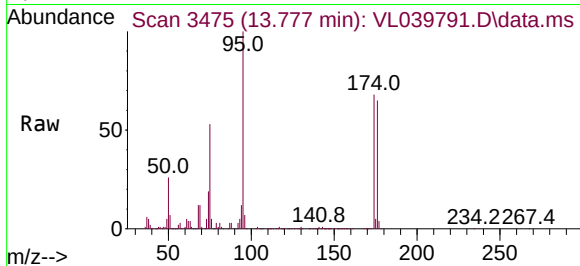




#68
1-Bromo-4-Fluorobenzene
Concen: 9.971 ppbv
RT: 13.777 min Scan# 3473
Delta R.T. 0.006 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tgt Ion: 95 Resp: 1299767
Ion Ratio Lower Upper
95 100
174 73.5 57.3 85.9
175 5.5 4.2 6.2



#71
2-Chlorotoluene
Concen: 0.452 ppbv
RT: 14.670 min Scan# 3753
Delta R.T. -0.122 min
Lab File: VL039791.D
Acq: 25 Oct 2022 17:13

Tgt Ion: 91 Resp: 84641
Ion Ratio Lower Upper
91 100
126 0.0 13.0 52.0#

