

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039988.D
 Acq On : 12 Dec 2022 23:03
 Operator : SY/MD
 Sample : N5971-08DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Dec 13 07:10:52 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 23:21:36 2022
 Response via : Initial Calibration

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

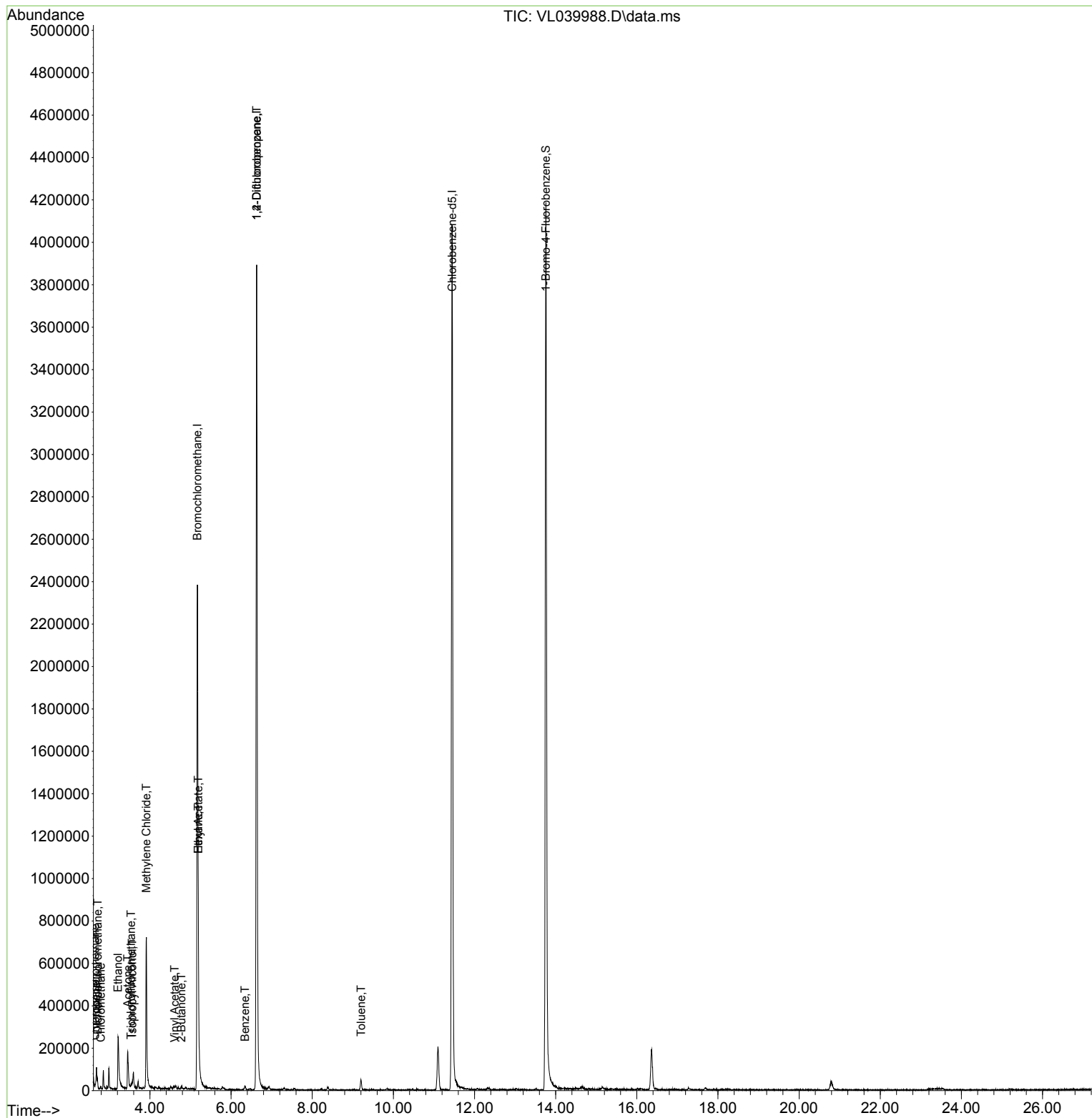
Internal Standards						
1) Bromochloromethane	5.169	49	1116883	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.632	114	2874426	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.446	117	2592567	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	2100827	10.609	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	25098	0.157	ppbv #	85
3) Chlorodifluoromethane	2.652	51	16760	0.109	ppbv	93
4) Chloromethane	2.790	50	6290	0.064	ppbv	96
9) Propene	2.677	41	29808	0.411	ppbv #	81
11) Trichlorofluoromethane	3.536	101	9678	0.050	ppbv	94
13) Ethanol	3.214	45	286307	51.654	ppbv	100
15) Acetone	3.452	43	174690	1.179	ppbv	99
19) Isopropyl Alcohol	3.565	45	14913	0.186	ppbv #	53
20) Methylene Chloride	3.912	84	247224	3.445	ppbv	93
23) Vinyl Acetate	4.610	43	2154	0.035	ppbv #	67
25) Ethyl Acetate	5.192	43	92607	0.340	ppbv #	77
26) Hexane	5.192	57	134452	1.132	ppbv #	38
34) 2-Butanone	4.777	43	8787	0.064	ppbv #	71
36) Benzene	6.343	78	5043	0.021	ppbv #	84
39) 1,2-Dichloropropane	6.632	63	725006	7.616	ppbv #	26
53) Toluene	9.208	91	16115	0.058	ppbv #	19

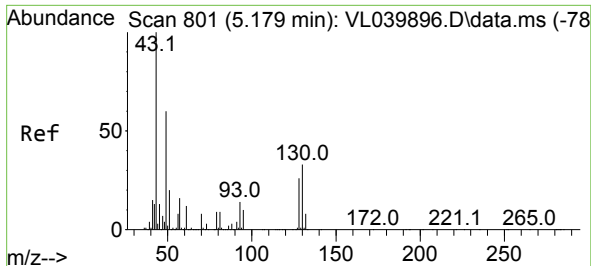
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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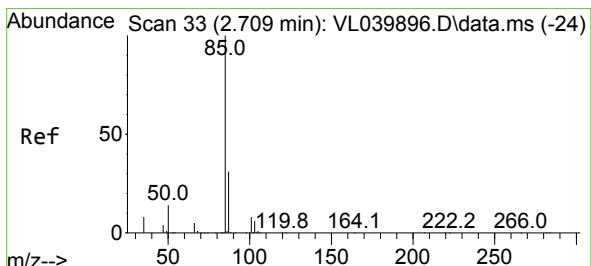
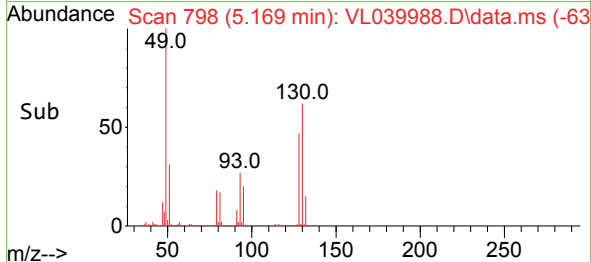
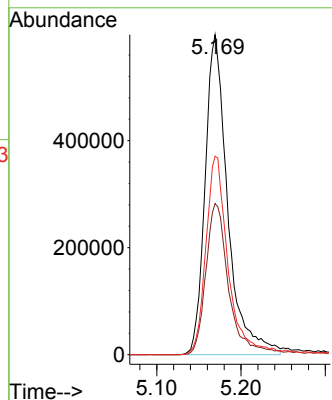
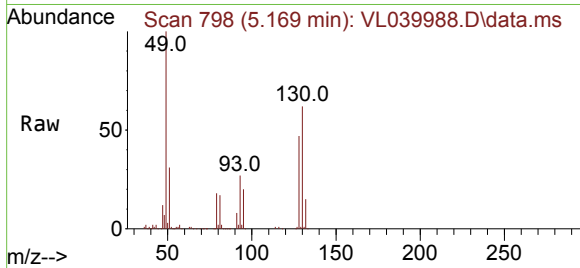




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.169 min Scan# 79
 Delta R.T. 0.013 min
 Lab File: VL039988.D
 Acq: 12 Dec 2022 23:03

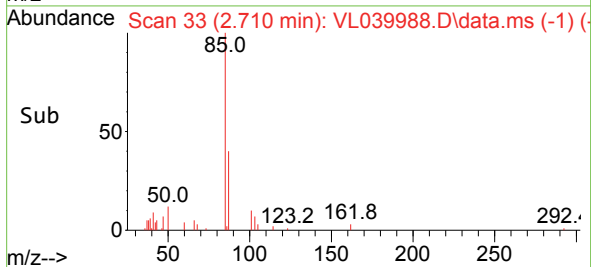
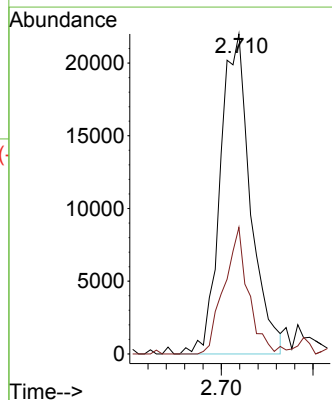
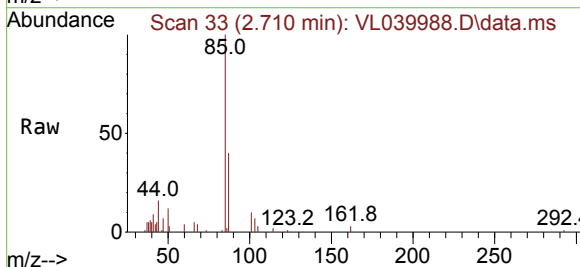
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

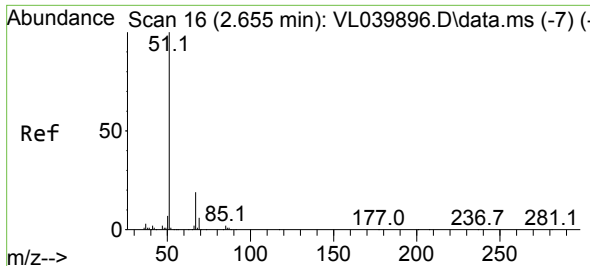
Tgt Ion: 49 Resp: 1116883
 Ion Ratio Lower Upper
 49 100
 128 49.3 22.1 66.3
 130 62.6 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.157 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. 0.013 min
 Lab File: VL039988.D
 Acq: 12 Dec 2022 23:03

Tgt Ion: 85 Resp: 25098
 Ion Ratio Lower Upper
 85 100
 87 39.5 25.0 37.4#

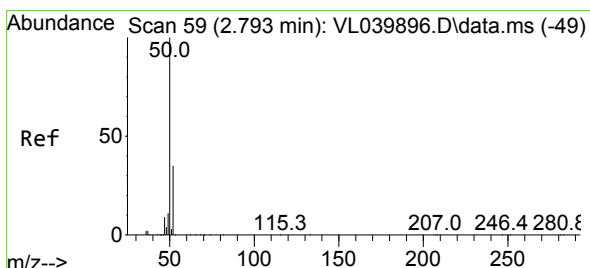
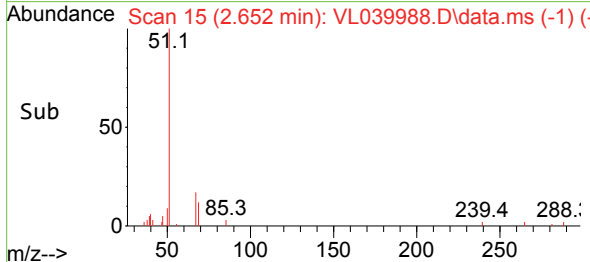
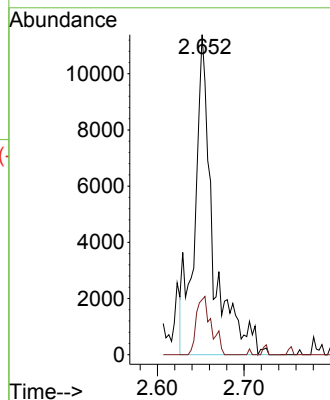
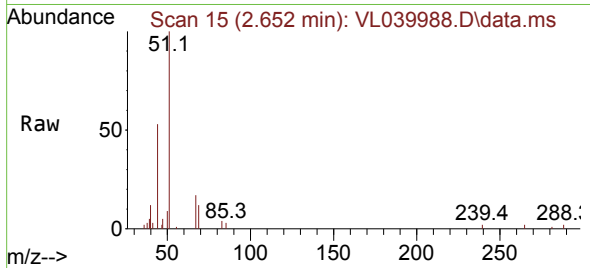




#3
Chlorodifluoromethane
Concen: 0.109 ppbv
RT: 2.652 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

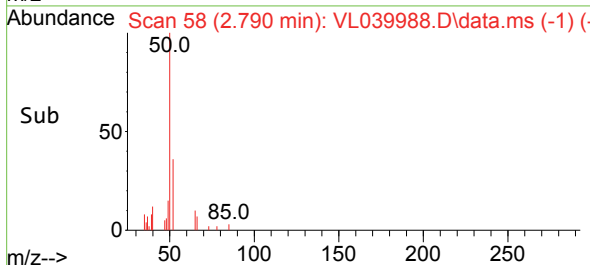
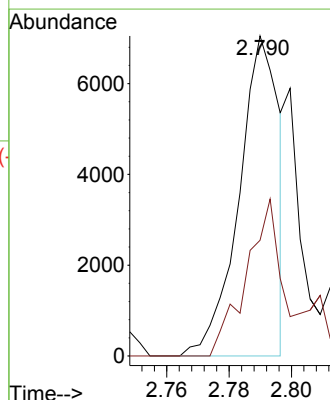
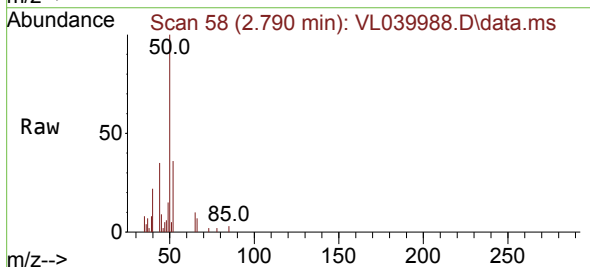
Instrument :
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ClientSampleId :
IA-2DL

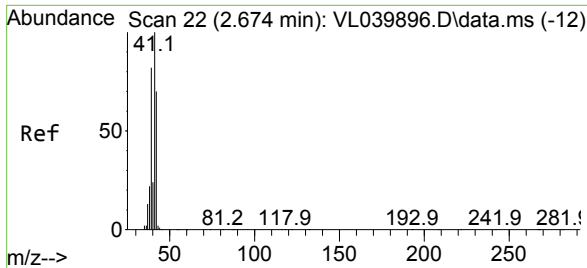
Tgt Ion: 51 Resp: 16760
Ion Ratio Lower Upper
51 100
67 14.7 14.2 21.4



#4
Chloromethane
Concen: 0.064 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.010 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

Tgt Ion: 50 Resp: 6290
Ion Ratio Lower Upper
50 100
52 37.1 27.8 41.8

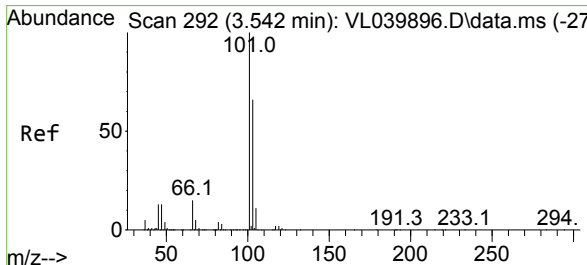
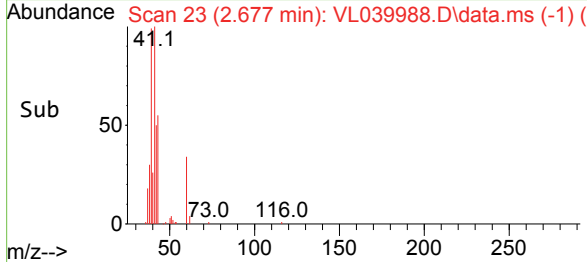
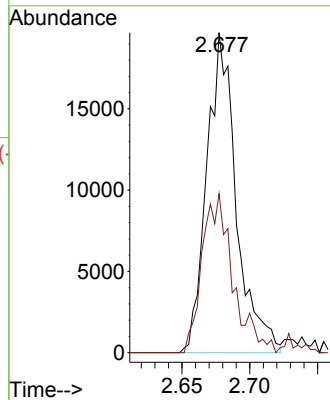
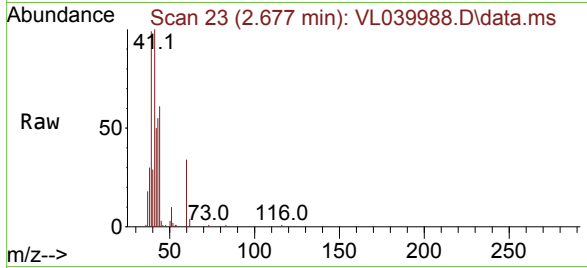




#9
Propene
Concen: 0.411 ppbv
RT: 2.677 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

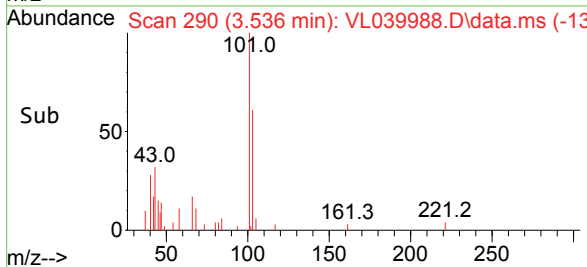
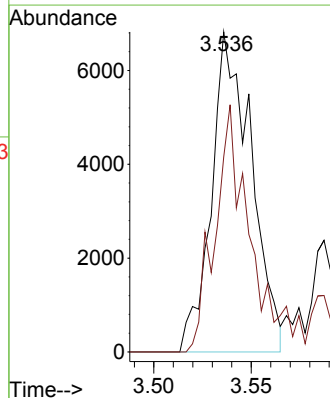
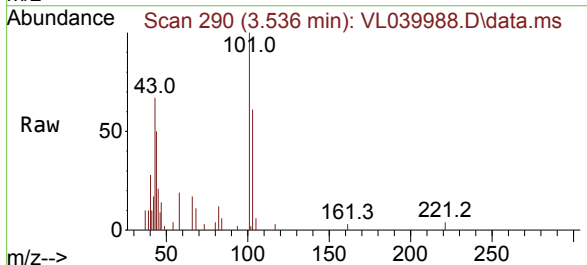
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

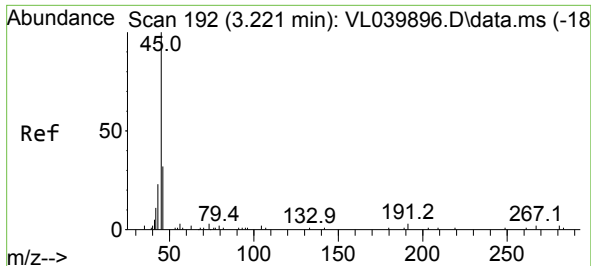
Tgt Ion: 41 Resp: 29808
Ion Ratio Lower Upper
41 100
42 54.5 55.8 83.6#



#11
Trichlorofluoromethane
Concen: 0.050 ppbv
RT: 3.536 min Scan# 290
Delta R.T. 0.007 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

Tgt Ion: 101 Resp: 9678
Ion Ratio Lower Upper
101 100
103 60.9 52.6 78.8

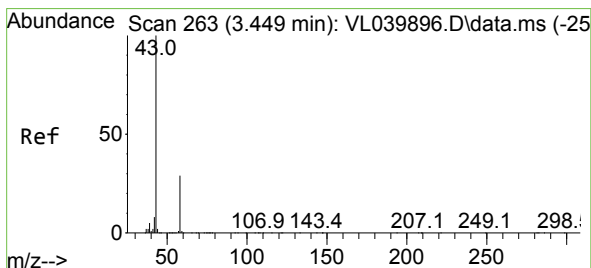
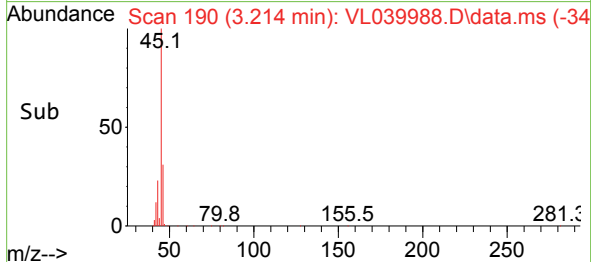
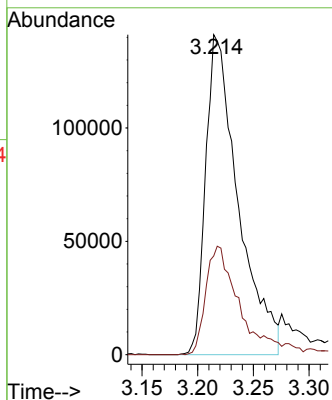
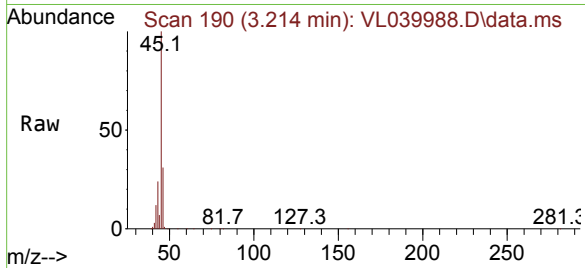




#13
Ethanol
Concen: 51.654 ppbv
RT: 3.214 min Scan# 190
Delta R.T. 0.000 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

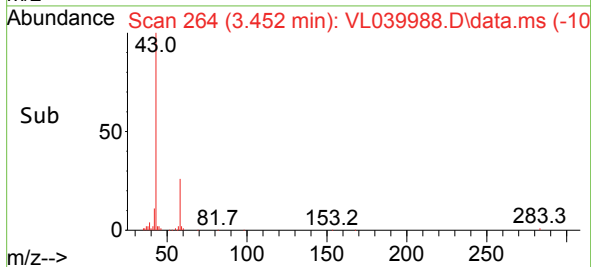
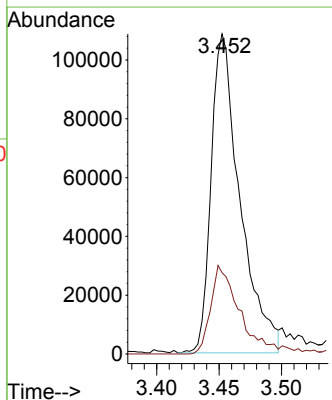
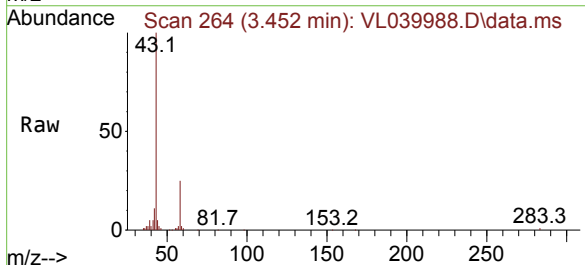
Instrument :
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ClientSampleId :
IA-2DL

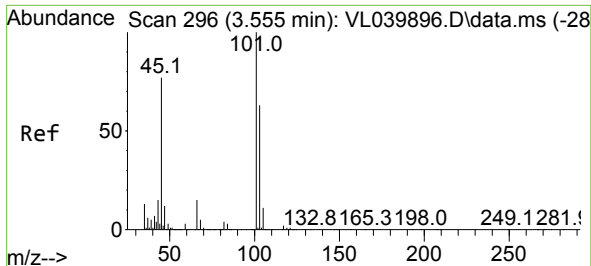
Tgt Ion: 45 Resp: 286307
Ion Ratio Lower Upper
45 100
46 36.5 14.6 58.2



#15
Acetone
Concen: 1.179 ppbv
RT: 3.452 min Scan# 264
Delta R.T. 0.019 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

Tgt Ion: 43 Resp: 174690
Ion Ratio Lower Upper
43 100
58 29.0 22.9 34.3

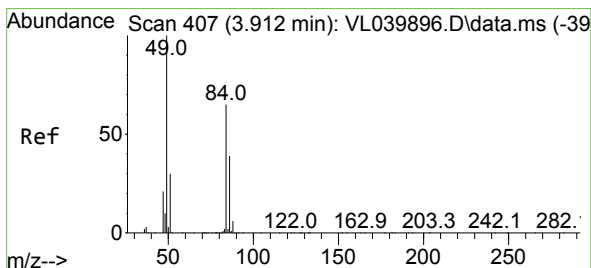
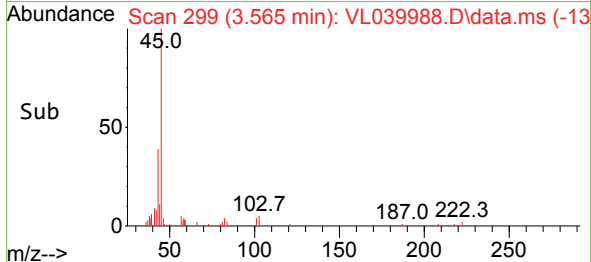
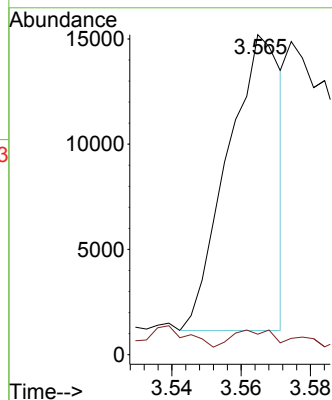
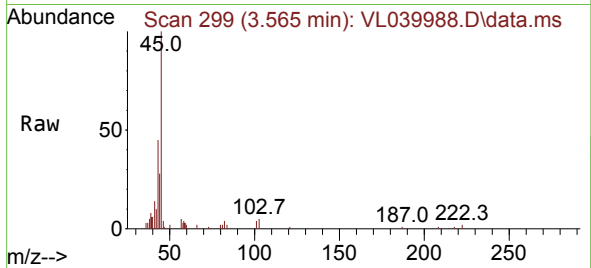




#19
Isopropyl Alcohol
Concen: 0.186 ppbv
RT: 3.565 min Scan# 299
Delta R.T. 0.023 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

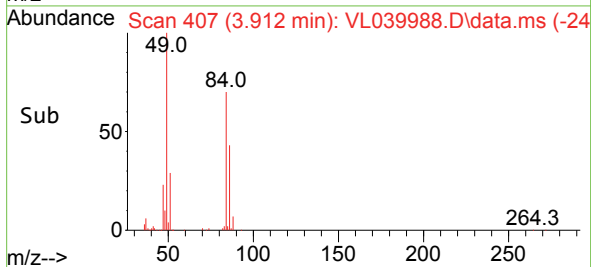
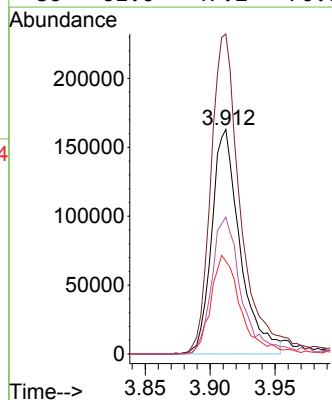
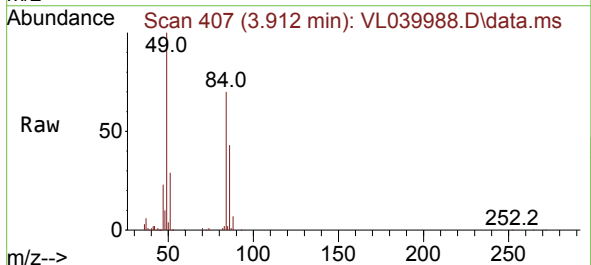
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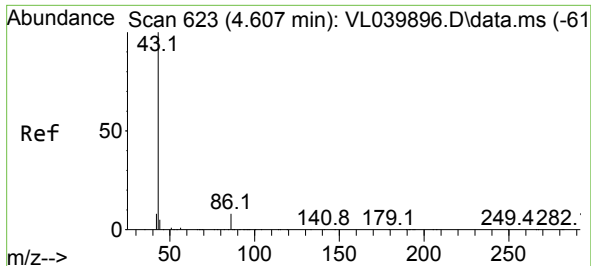
Tgt Ion: 45 Resp: 14913
Ion Ratio Lower Upper
45 100
58 16.5 38.7 58.1#



#20
Methylene Chloride
Concen: 3.445 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.016 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

Tgt Ion: 84 Resp: 247224
Ion Ratio Lower Upper
84 100
49 142.3 122.2 183.4
51 41.2 36.3 54.5
86 61.0 47.2 70.8

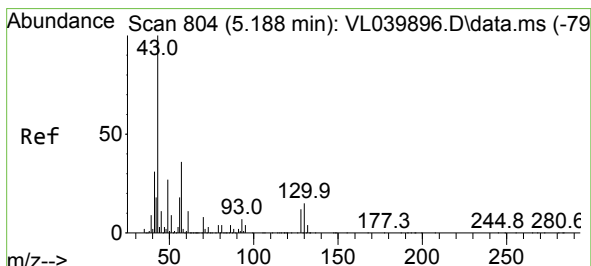
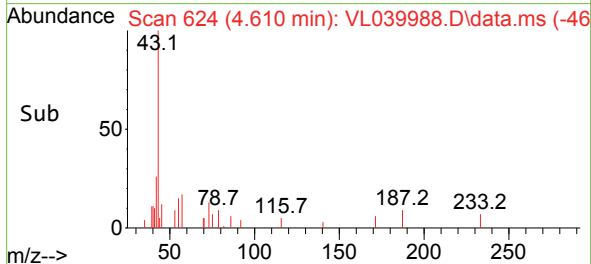
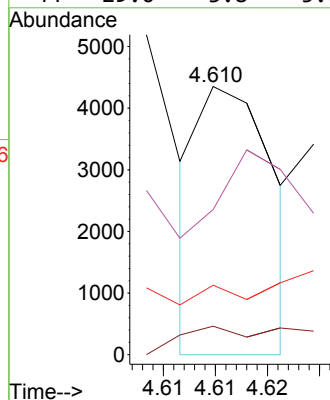
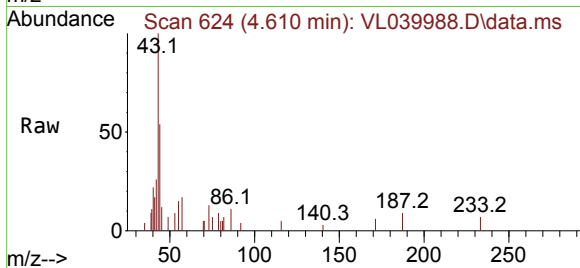




#23
 Vinyl Acetate
 Concen: 0.035 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. 0.016 min
 Lab File: VL039988.D
 Acq: 12 Dec 2022 23:03

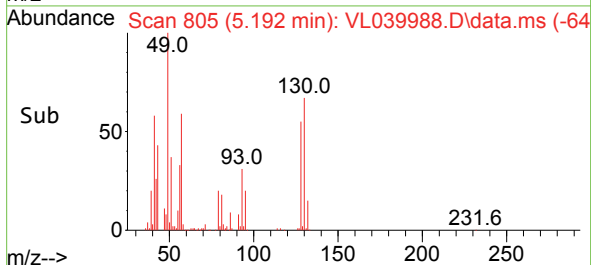
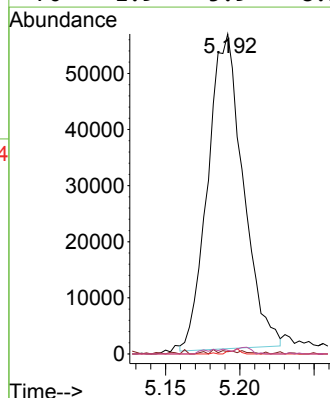
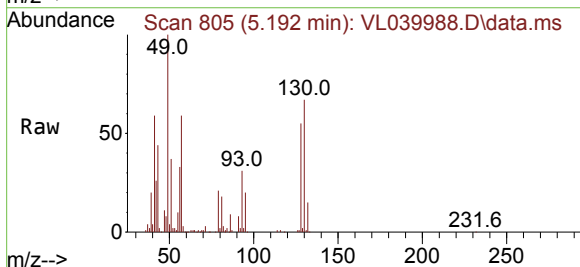
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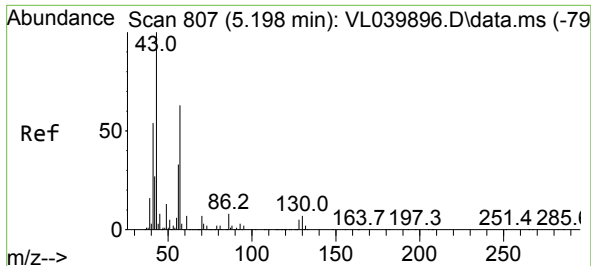
Tgt Ion: 43	Resp: 2154
Ion Ratio	Lower Upper
43 100	
86 9.0	5.0 7.4#
42 19.9	7.6 11.4#
44 29.0	3.8 5.6#



#25
 Ethyl Acetate
 Concen: 0.340 ppbv
 RT: 5.192 min Scan# 805
 Delta R.T. 0.023 min
 Lab File: VL039988.D
 Acq: 12 Dec 2022 23:03

Tgt Ion: 43	Resp: 92607
Ion Ratio	Lower Upper
43 100	
45 1.1	8.4 12.6#
61 0.5	8.5 12.7#
70 1.9	5.9 8.9#

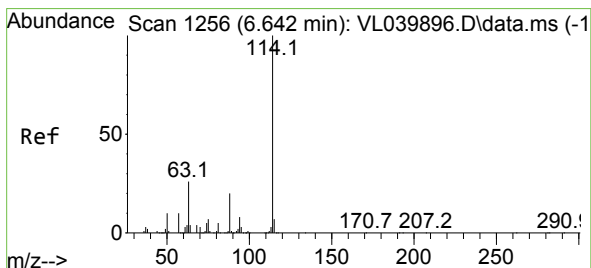
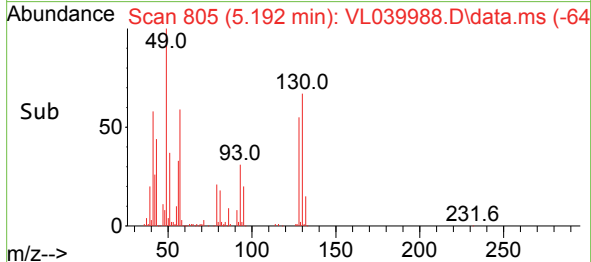
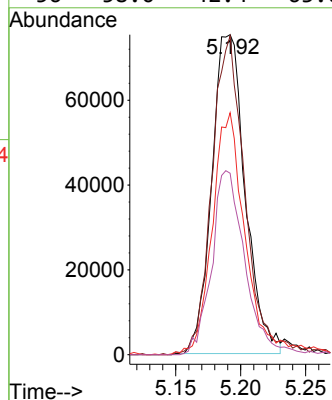
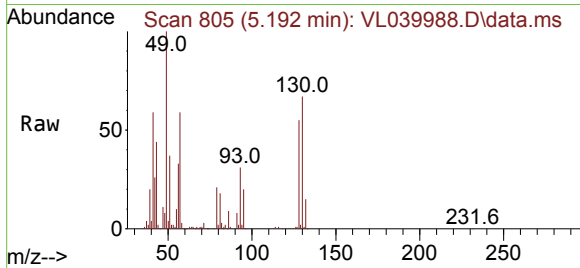




#26
Hexane
Concen: 1.132 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.016 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

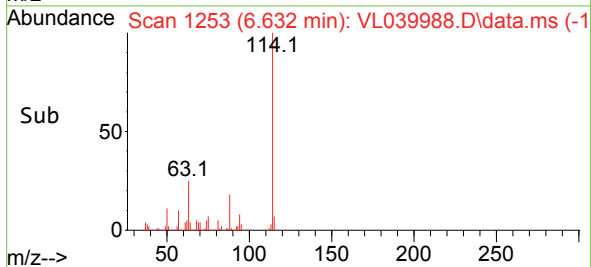
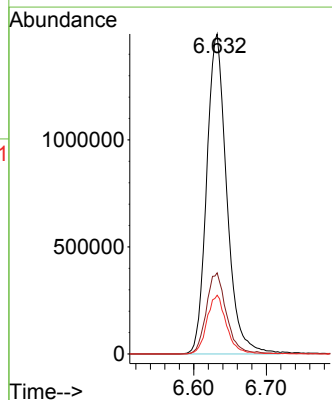
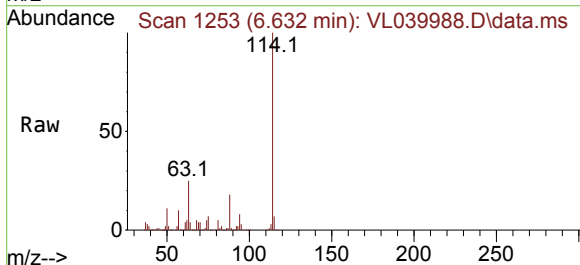
Instrument :
MSVOA_L
ClientSampleId :
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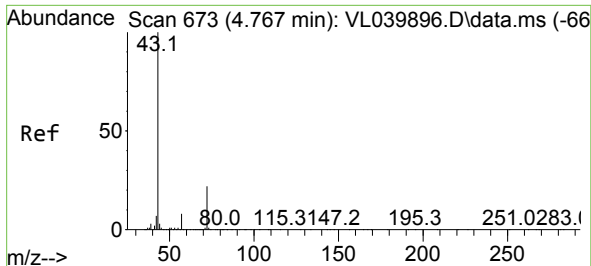
Tgt Ion: 57 Resp: 134452
Ion Ratio Lower Upper
57 100
41 100.7 72.3 108.5
43 77.3 188.7 283.1#
56 58.0 42.4 63.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. 0.013 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

Tgt Ion: 114 Resp: 2874426
Ion Ratio Lower Upper
114 100
63 25.8 21.4 32.0
88 18.1 15.3 22.9

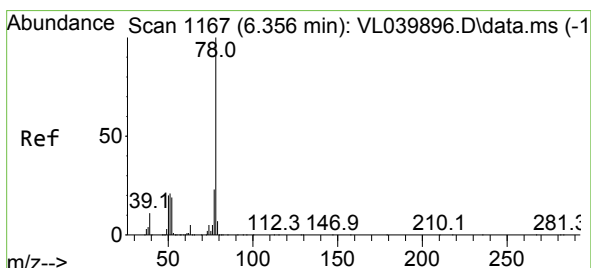
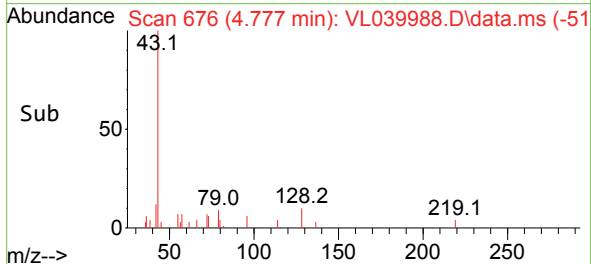
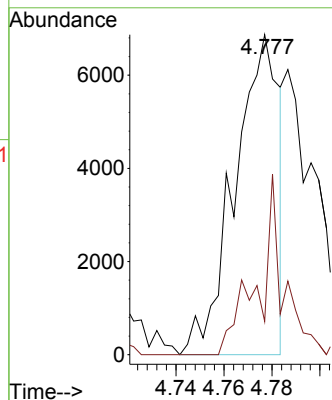
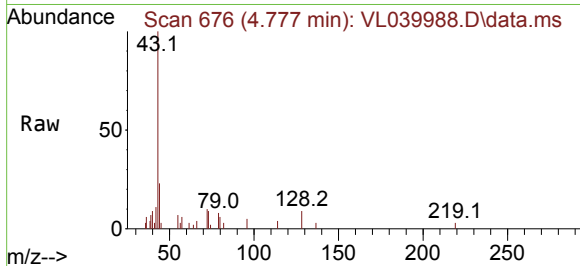




#34
2-Butanone
Concen: 0.064 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

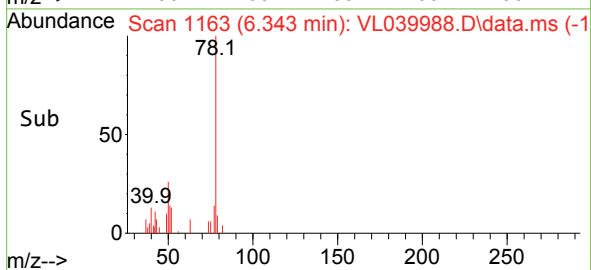
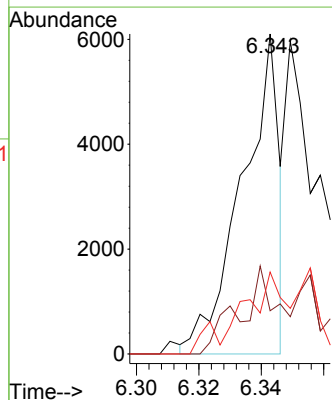
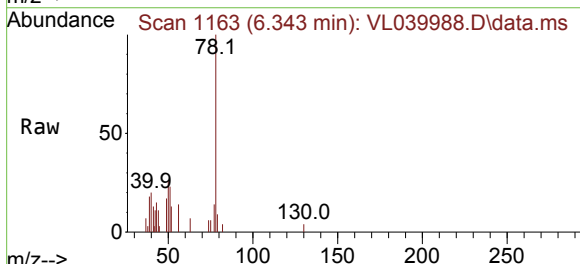
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

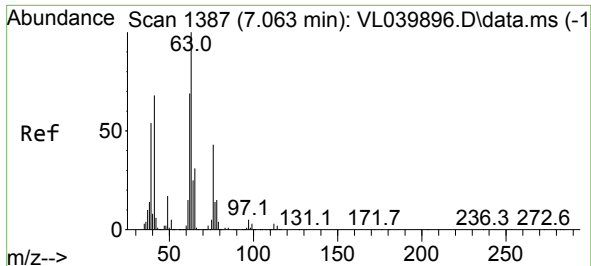
Tgt Ion: 43 Resp: 8787
Ion Ratio Lower Upper
43 100
72 35.5 17.4 26.2#



#36
Benzene
Concen: 0.021 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. 0.010 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

Tgt Ion: 78 Resp: 5043
Ion Ratio Lower Upper
78 100
77 13.9 18.2 27.2#
50 26.4 15.8 23.8#





#39

1,2-Dichloropropane

Concen: 7.616 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. -0.402 min

Lab File: VL039988.D

Acq: 12 Dec 2022 23:03

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

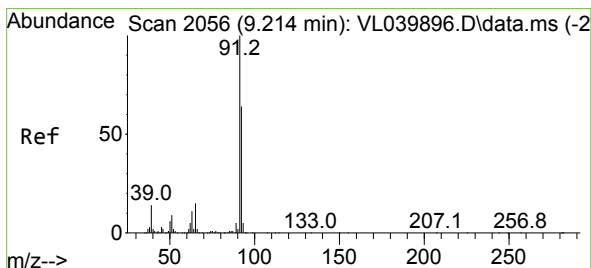
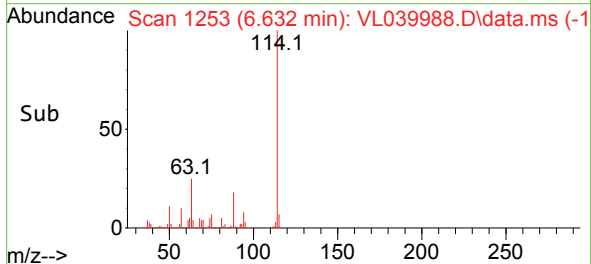
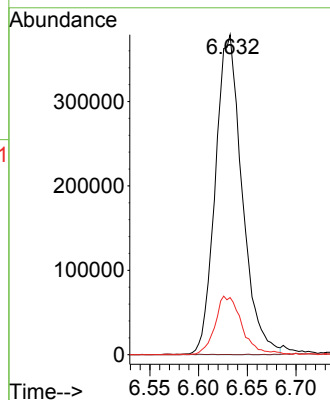
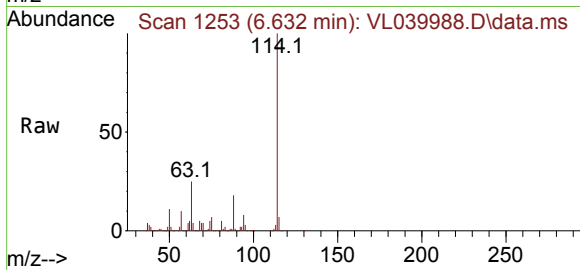
Tgt Ion: 63 Resp: 725006

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 17.9 55.0 82.6#



#53

Toluene

Concen: 0.058 ppbv

RT: 9.208 min Scan# 2054

Delta R.T. 0.023 min

Lab File: VL039988.D

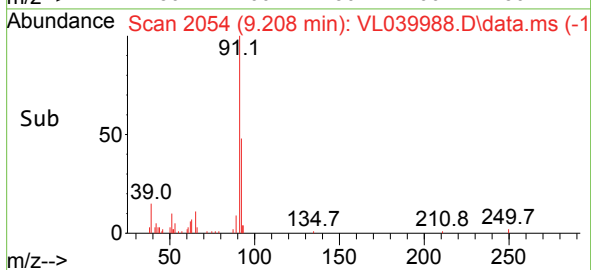
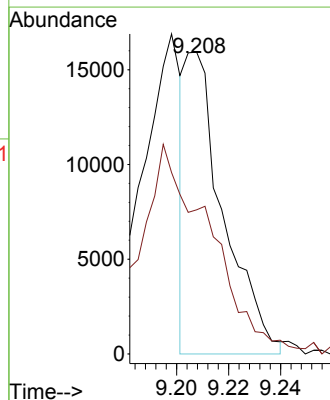
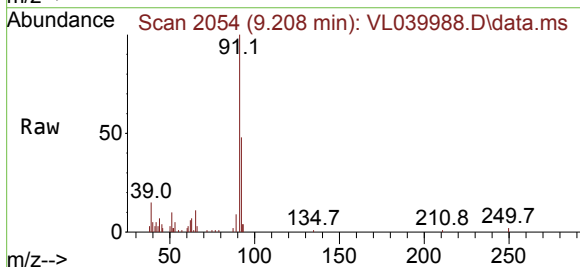
Acq: 12 Dec 2022 23:03

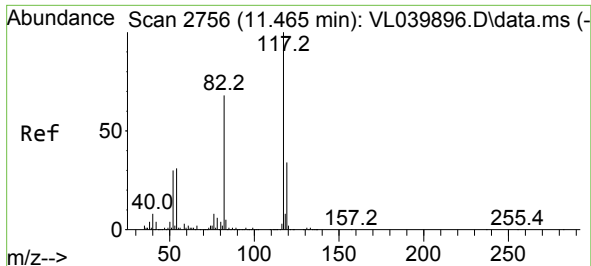
Tgt Ion: 91 Resp: 16115

Ion Ratio Lower Upper

91 100

92 0.0 49.8 74.6#

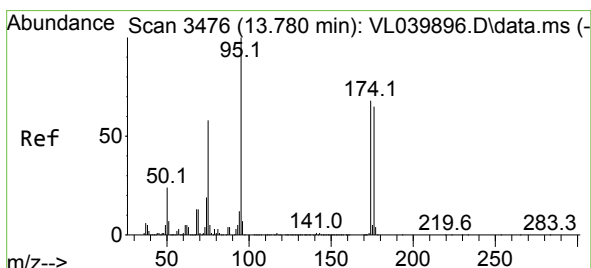
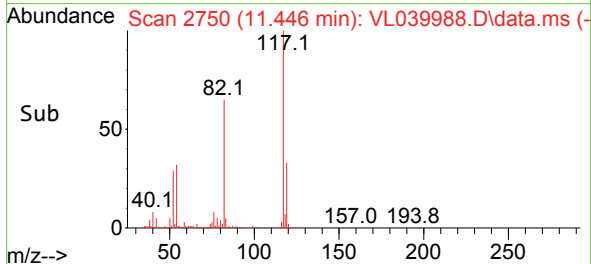
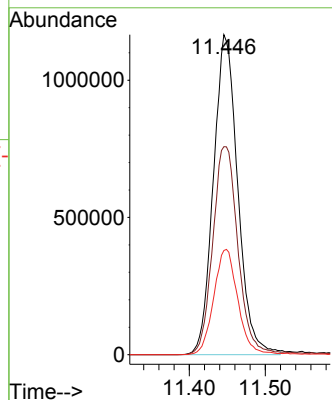
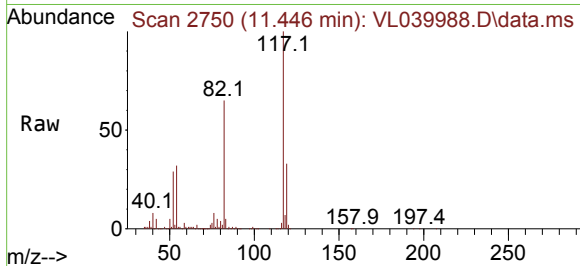




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Tgt Ion:117 Resp: 2592567
Ion Ratio Lower Upper
117 100
82 67.7 52.3 78.5
119 33.0 25.7 38.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.609 ppbv
RT: 13.761 min Scan# 3470
Delta R.T. 0.019 min
Lab File: VL039988.D
Acq: 12 Dec 2022 23:03

Tgt Ion: 95 Resp: 2100827
Ion Ratio Lower Upper
95 100
174 61.1 53.7 80.5
175 4.4 4.0 6.0

