

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039978.D
 Acq On : 12 Dec 2022 16:27
 Operator : SY/MD
 Sample : N5969-04DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DL

Quant Time: Dec 13 06:11:31 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)

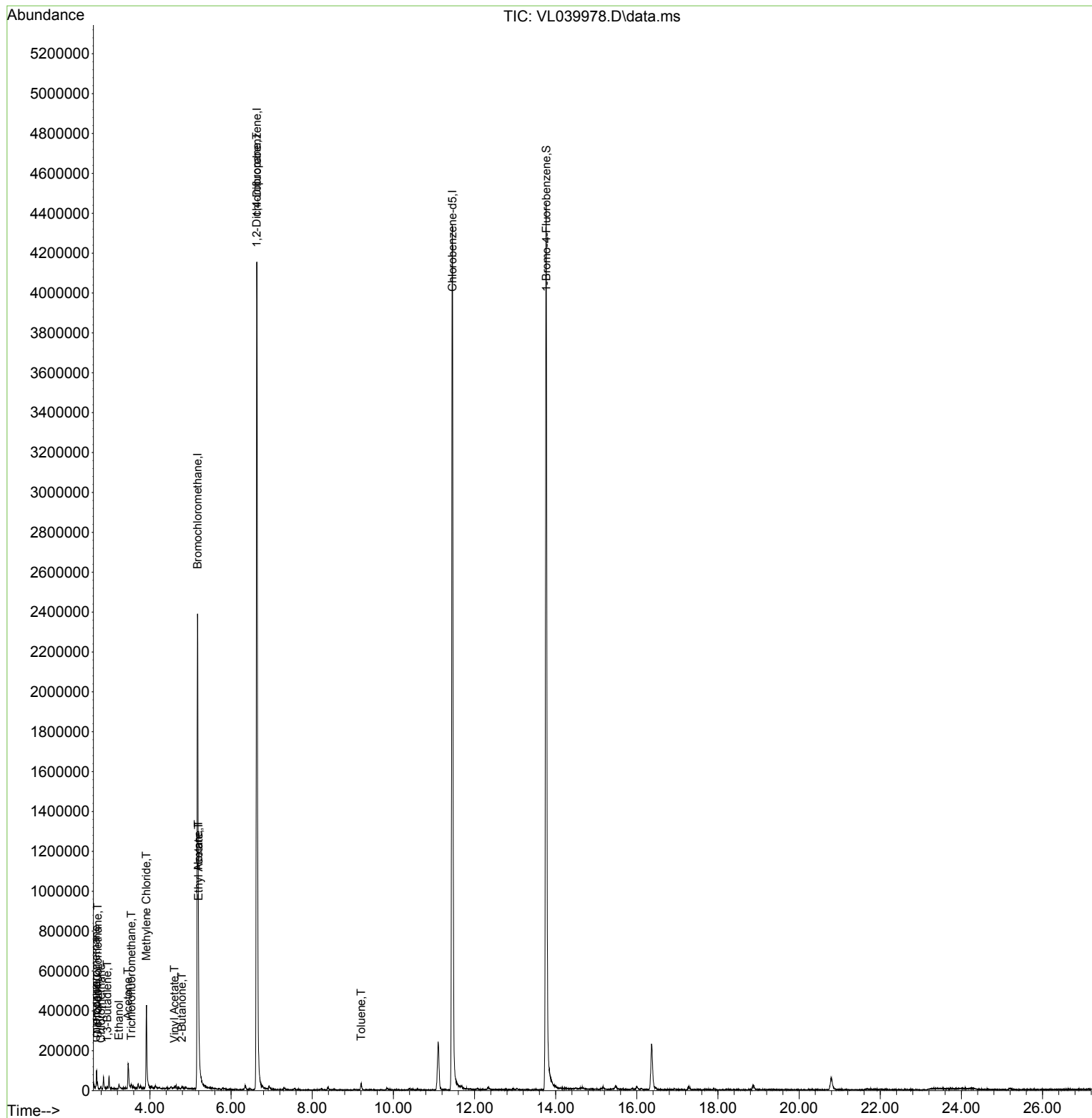
Internal Standards						
1) Bromochloromethane	5.172	49	1136798	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.635	114	3099810	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	2822736	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2280104	10.575	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	= 105.800%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	15617	0.096	ppbv	91
3) Chlorodifluoromethane	2.664	51	11111	0.071	ppbv #	83
4) Chloromethane	2.796	50	9093	0.091	ppbv #	70
9) Propene	2.687	41	15887	0.215	ppbv	84
11) Trichlorofluoromethane	3.542	101	5033	0.025	ppbv #	81
13) Ethanol	3.237	45	20665	3.663	ppbv	88
15) Acetone	3.462	43	57412	0.381	ppbv #	37
16) 1,3-Butadiene	2.951	39	1829	0.024	ppbv #	8
20) Methylene Chloride	3.915	84	136016	1.862	ppbv	98
23) Vinyl Acetate	4.607	43	5881	0.095	ppbv #	87
25) Ethyl Acetate	5.198	43	65098	0.235	ppbv #	77
26) Hexane	5.195	57	84934	0.702	ppbv #	41
34) 2-Butanone	4.787	43	7459	0.050	ppbv #	54
39) 1,2-Dichloropropane	6.632	63	784441	7.642	ppbv #	26
53) Toluene	9.204	91	11012	0.037	ppbv #	41

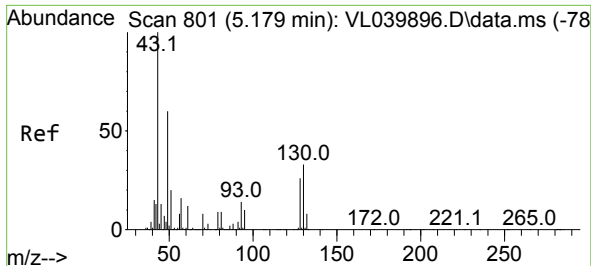
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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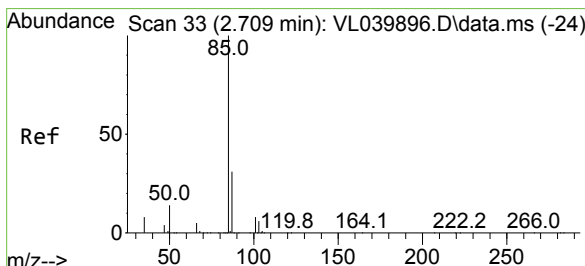
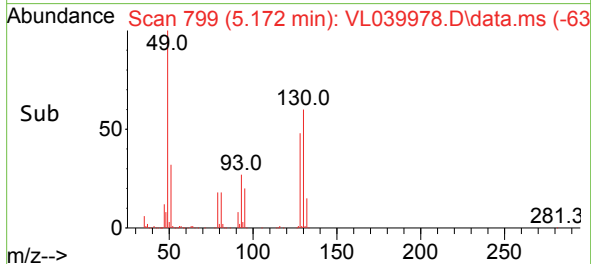
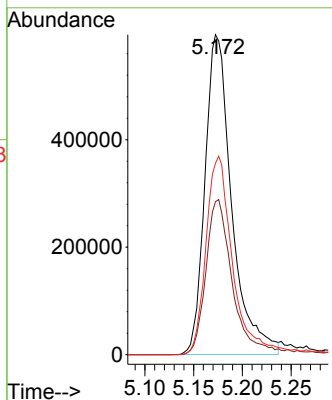
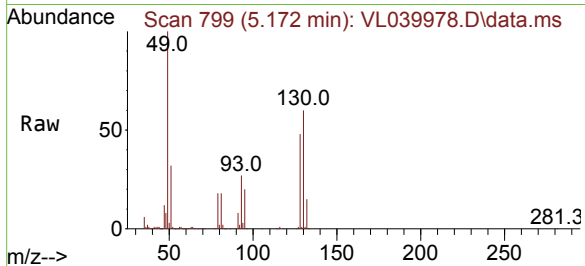




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.172 min Scan# 799
Delta R.T. 0.016 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

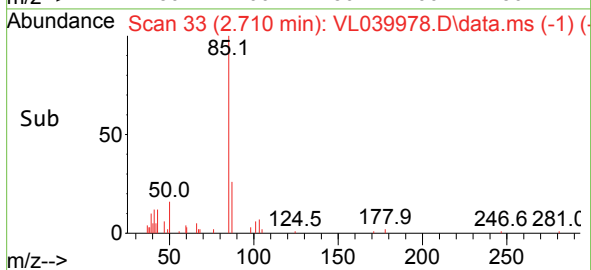
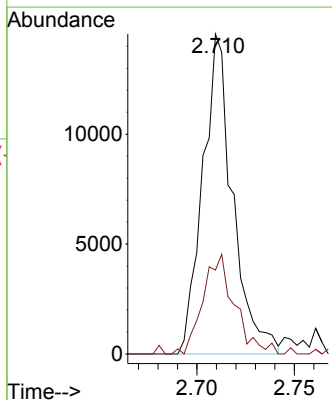
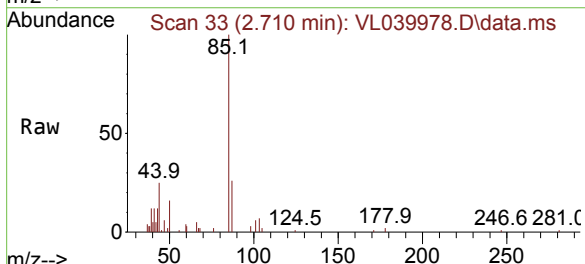
Instrument :
MSVOA_L
ClientSampleId :
AA-1DL

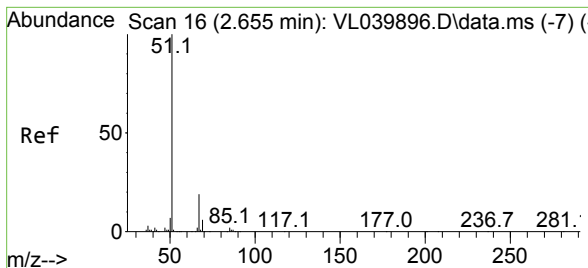
Tgt Ion: 49 Resp: 1136798
Ion Ratio Lower Upper
49 100
128 49.4 22.1 66.3
130 64.1 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.096 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

Tgt Ion: 85 Resp: 15617
Ion Ratio Lower Upper
85 100
87 26.2 25.0 37.4





#3

Chlorodifluoromethane

Concen: 0.071 ppbv

RT: 2.664 min Scan# 19

Delta R.T. 0.023 min

Lab File: VL039978.D

Acq: 12 Dec 2022 16:27

Instrument :

MSVOA_L

ClientSampleId :

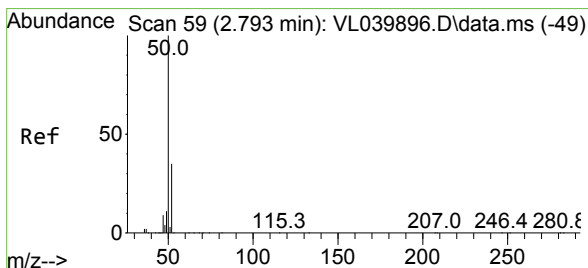
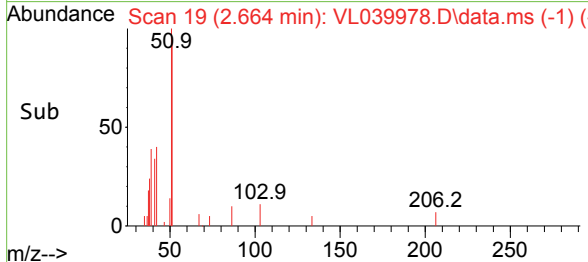
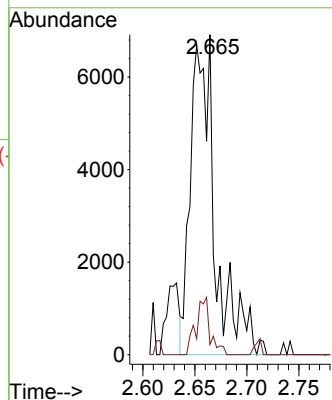
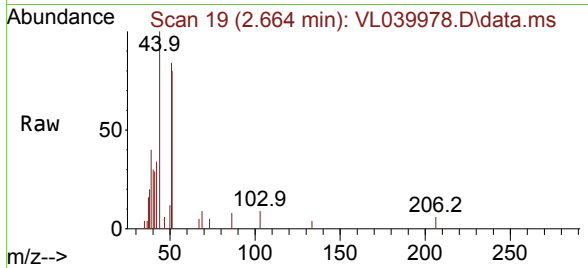
AA-1DL

Tgt Ion: 51 Resp: 11111

Ion Ratio Lower Upper

51 100

67 10.5 14.2 21.4#



#4

Chloromethane

Concen: 0.091 ppbv

RT: 2.796 min Scan# 60

Delta R.T. 0.016 min

Lab File: VL039978.D

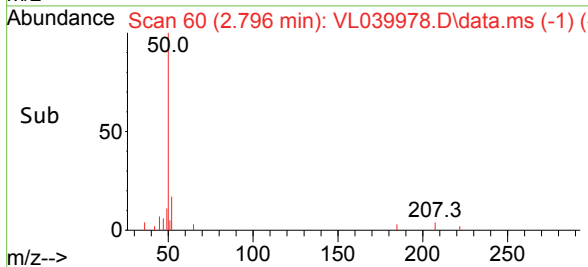
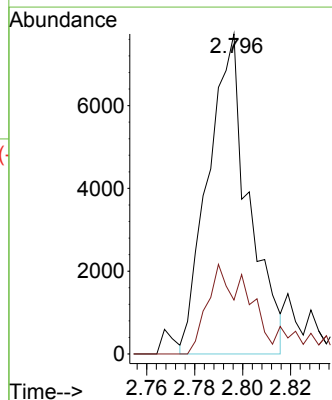
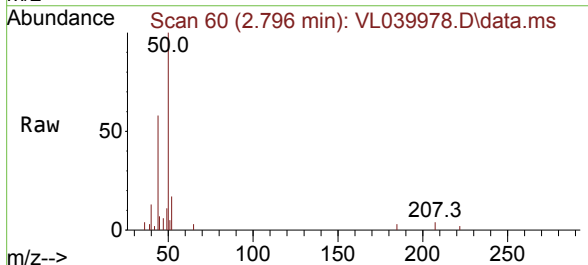
Acq: 12 Dec 2022 16:27

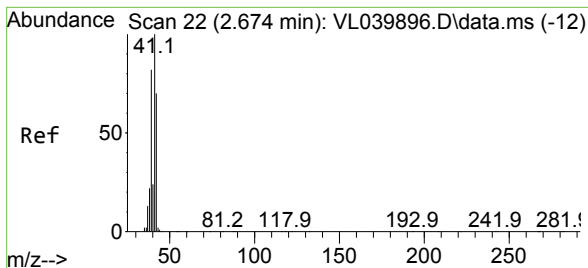
Tgt Ion: 50 Resp: 9093

Ion Ratio Lower Upper

50 100

52 17.3 27.8 41.8#





#9

Propene

Concen: 0.215 ppbv

RT: 2.687 min Scan# 2

Delta R.T. 0.026 min

Lab File: VL039978.D

Acq: 12 Dec 2022 16:27

Instrument :

MSVOA_L

ClientSampleId :

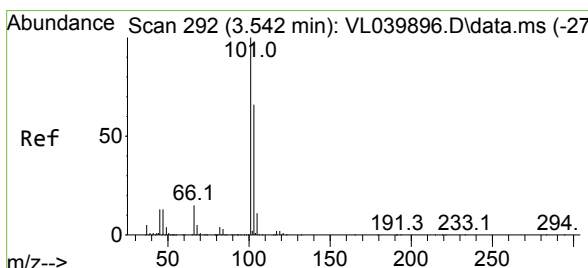
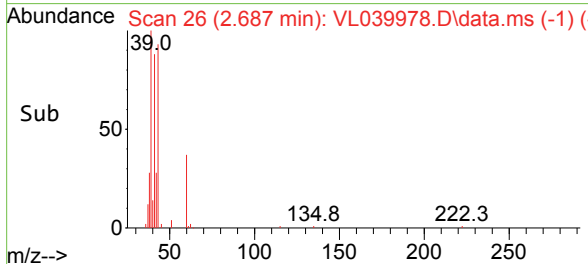
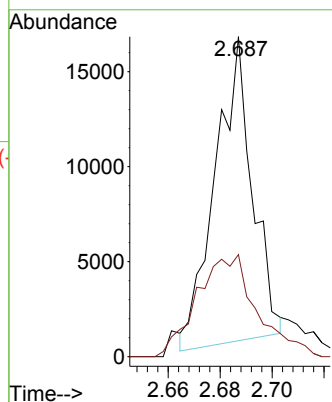
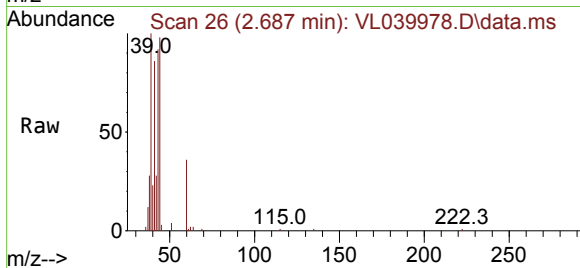
AA-1DL

Tgt Ion: 41 Resp: 15887

Ion Ratio Lower Upper

41 100

42 56.4 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.025 ppbv

RT: 3.542 min Scan# 292

Delta R.T. 0.013 min

Lab File: VL039978.D

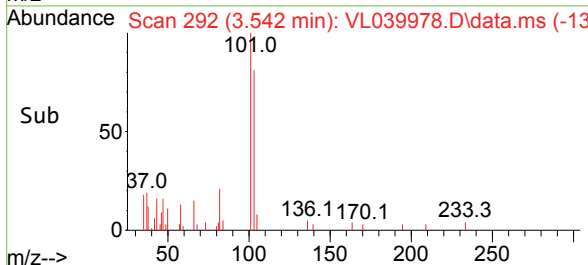
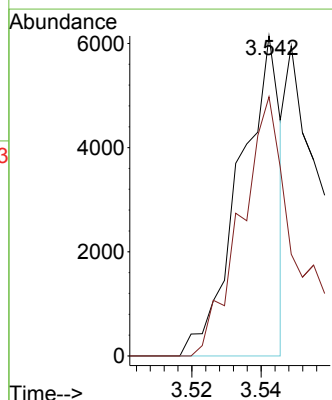
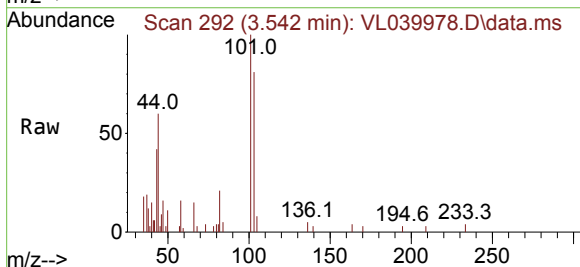
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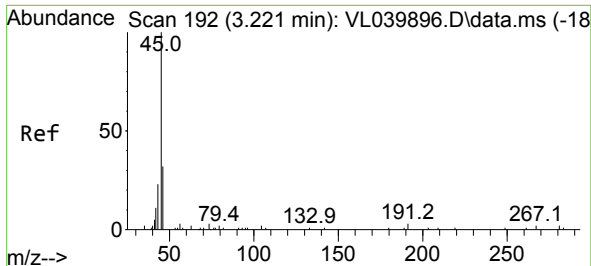
Tgt Ion:101 Resp: 5033

Ion Ratio Lower Upper

101 100

103 81.0 52.6 78.8#

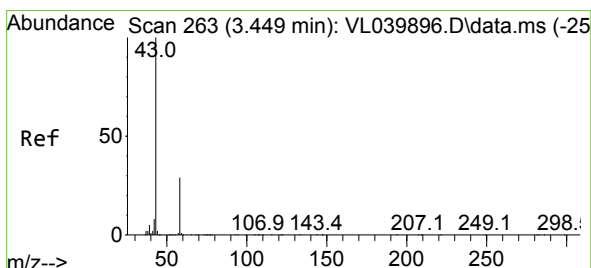
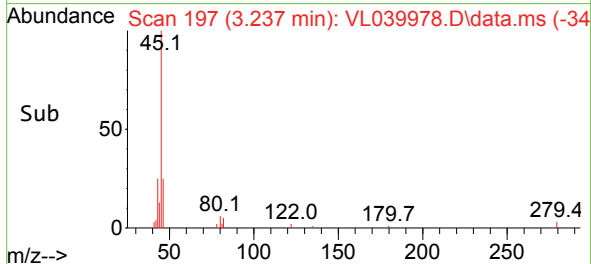
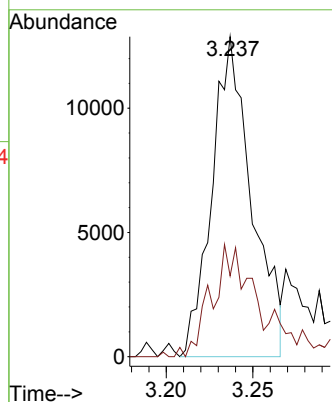
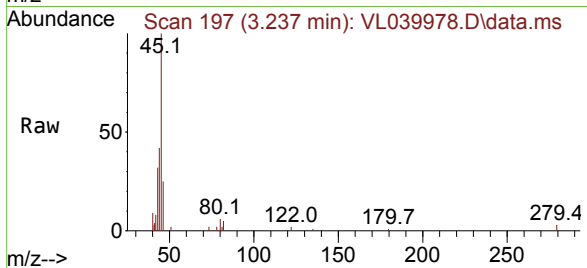




#13
Ethanol
Concen: 3.663 ppbv
RT: 3.237 min Scan# 19
Delta R.T. 0.023 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

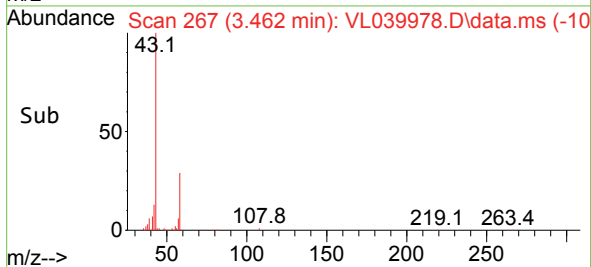
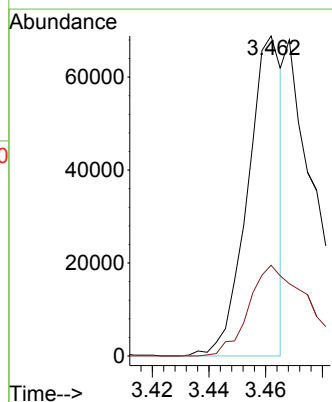
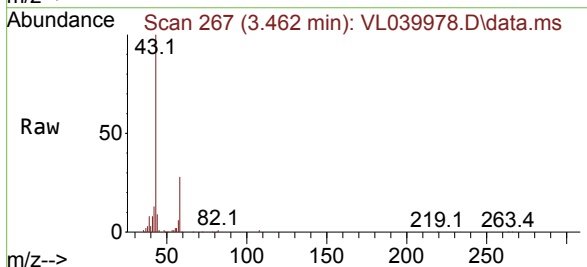
Instrument :
MSVOA_L
ClientSampleId :
AA-1DL

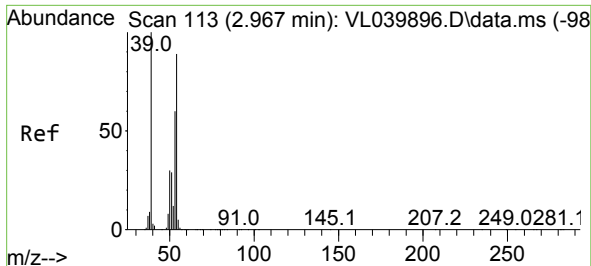
Tgt Ion: 45 Resp: 20665
Ion Ratio Lower Upper
45 100
46 43.6 14.6 58.2



#15
Acetone
Concen: 0.381 ppbv
RT: 3.462 min Scan# 267
Delta R.T. 0.029 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

Tgt Ion: 43 Resp: 57412
Ion Ratio Lower Upper
43 100
58 61.9 22.9 34.3#

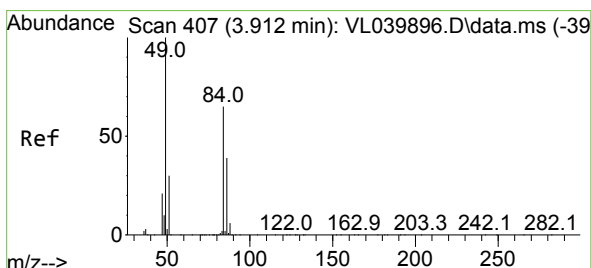
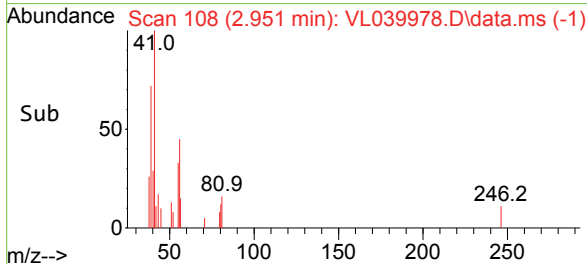
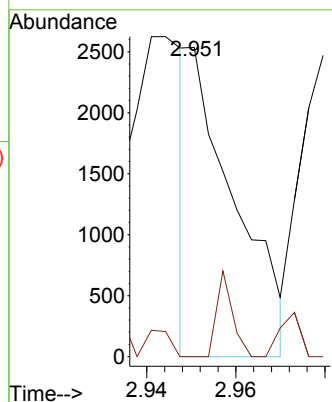
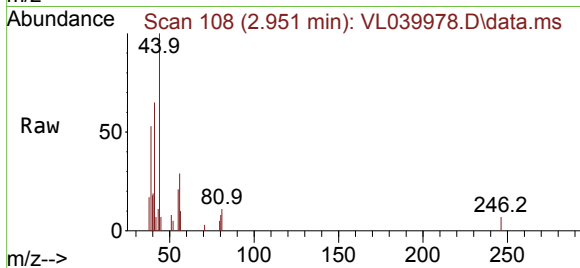




#16
1,3-Butadiene
Concen: 0.024 ppbv
RT: 2.951 min Scan# 108
Delta R.T. 0.000 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

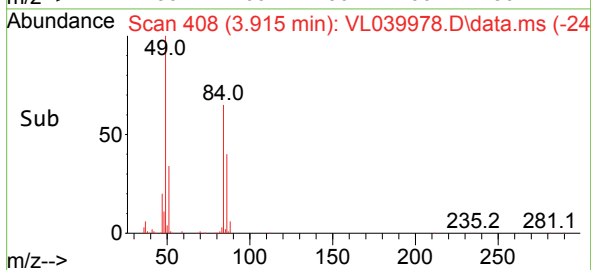
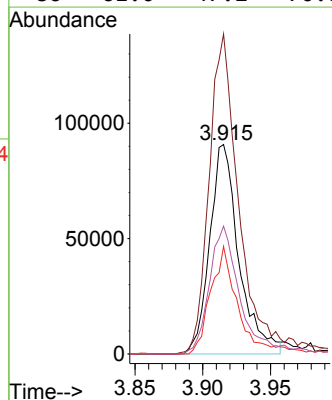
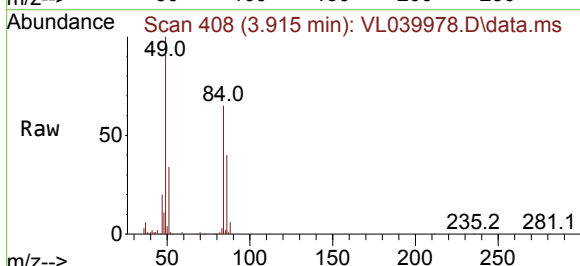
Instrument :
MSVOA_L
ClientSampleId :
AA-1DL

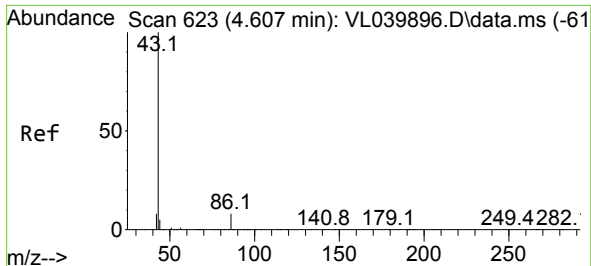
Tgt Ion: 39 Resp: 1829
Ion Ratio Lower Upper
39 100
54 0.0 66.6 99.8#



#20
Methylene Chloride
Concen: 1.862 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.019 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

Tgt Ion: 84 Resp: 136016
Ion Ratio Lower Upper
84 100
49 152.2 122.2 183.4
51 51.3 36.3 54.5
86 61.0 47.2 70.8

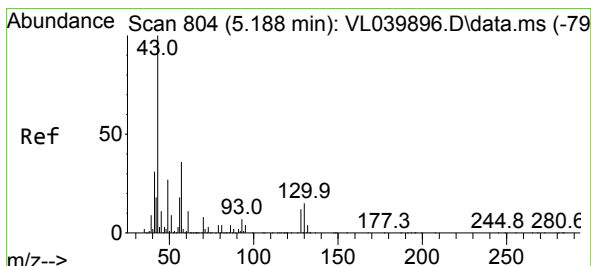
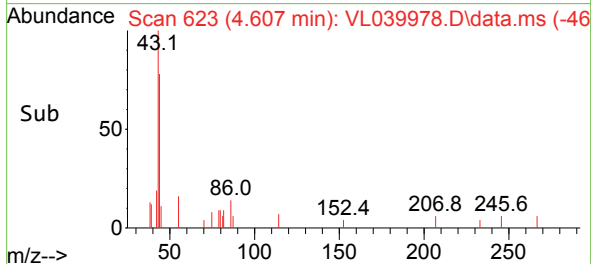
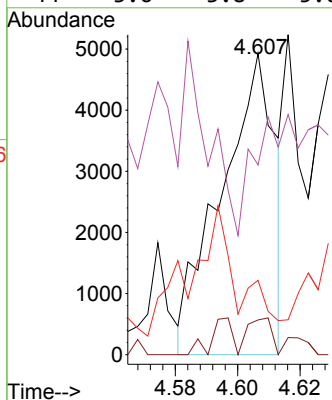
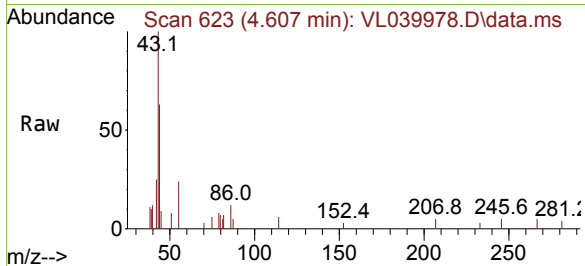




#23
 Vinyl Acetate
 Concen: 0.095 ppbv
 RT: 4.607 min Scan# 61
 Delta R.T. 0.013 min
 Lab File: VL039978.D
 Acq: 12 Dec 2022 16:27

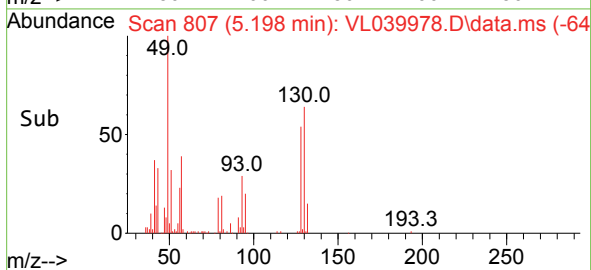
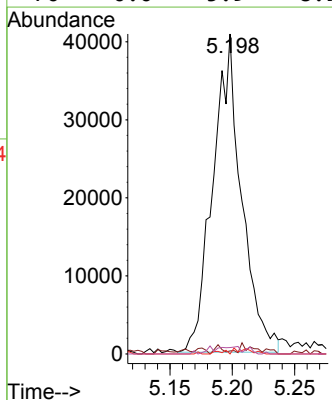
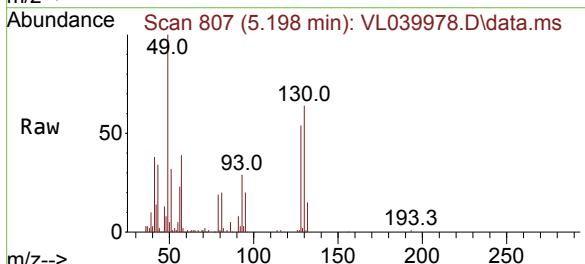
Instrument :
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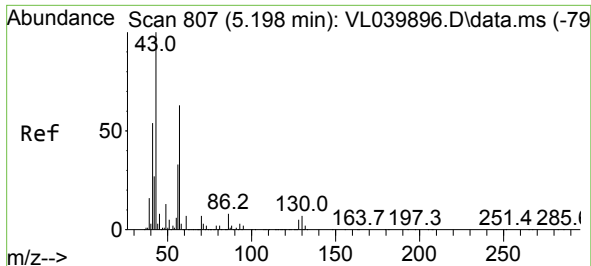
Tgt Ion:	43	Resp:	5881
Ion	Ratio	Lower	Upper
43	100		
86	12.7	5.0	7.4#
42	14.8	7.6	11.4#
44	3.6	3.8	5.6#



#25
 Ethyl Acetate
 Concen: 0.235 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. 0.029 min
 Lab File: VL039978.D
 Acq: 12 Dec 2022 16:27

Tgt Ion:	43	Resp:	65098
Ion	Ratio	Lower	Upper
43	100		
45	2.2	8.4	12.6#
61	1.4	8.5	12.7#
70	0.0	5.9	8.9#

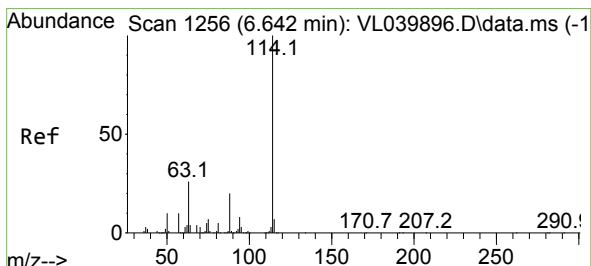
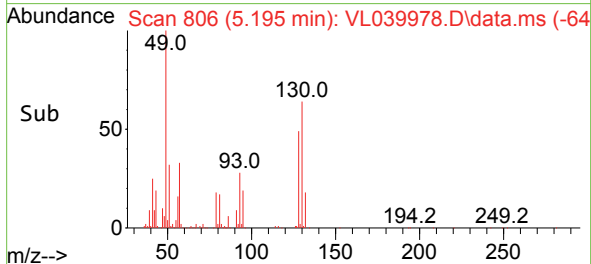
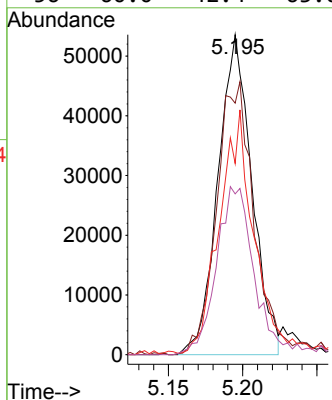
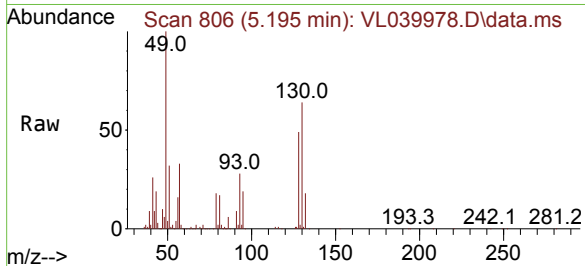




#26
Hexane
Concen: 0.702 ppbv
RT: 5.195 min Scan# 807
Delta R.T. 0.019 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

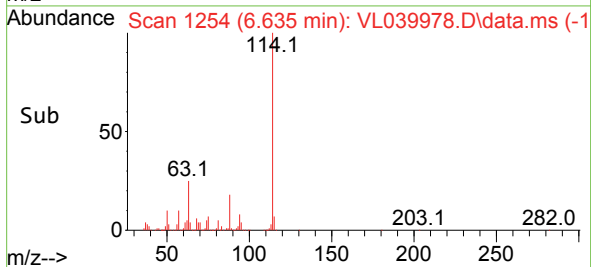
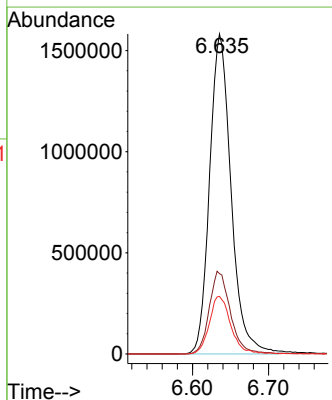
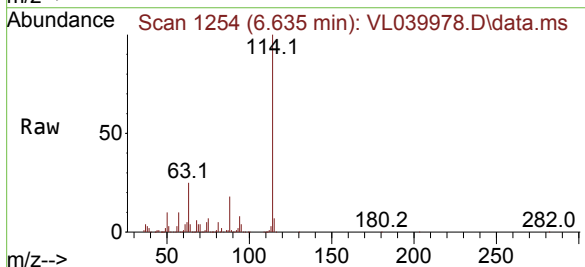
Instrument :
MSVOA_L
ClientSampleId :
AA-1DL

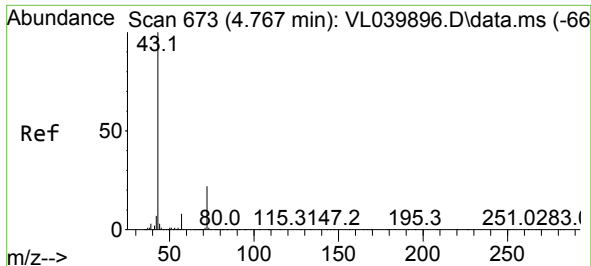
Tgt Ion: 57 Resp: 84934
Ion Ratio Lower Upper
57 100
41 94.9 72.3 108.5
43 83.1 188.7 283.1#
56 60.0 42.4 63.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.635 min Scan# 1254
Delta R.T. 0.016 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

Tgt Ion: 114 Resp: 3099810
Ion Ratio Lower Upper
114 100
63 25.6 21.4 32.0
88 18.1 15.3 22.9

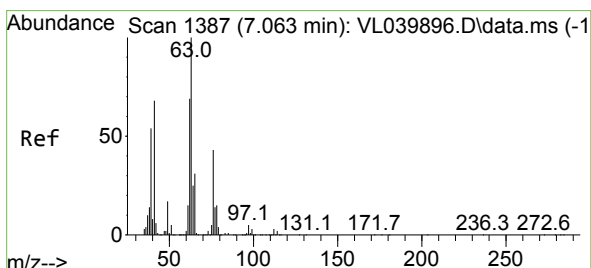
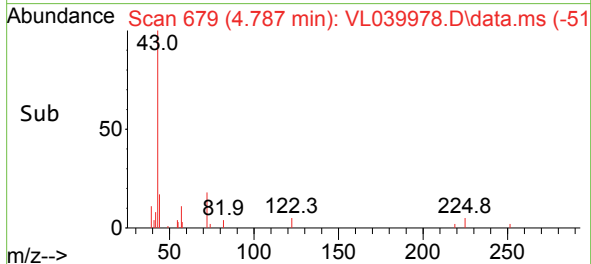
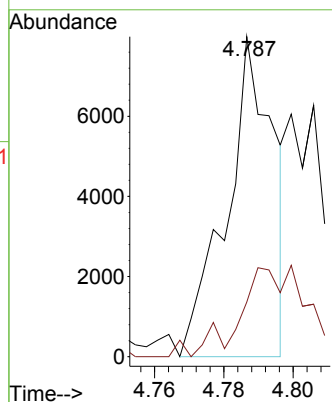
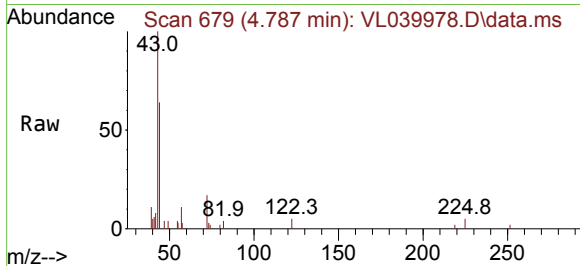




#34
2-Butanone
Concen: 0.050 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.035 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

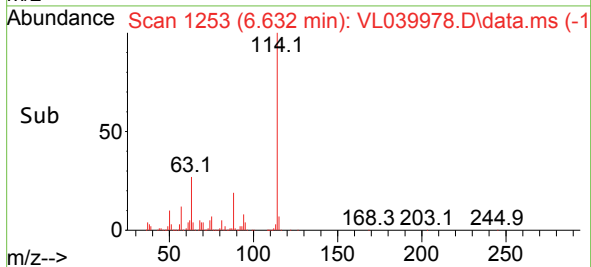
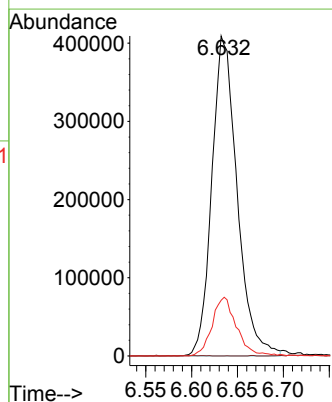
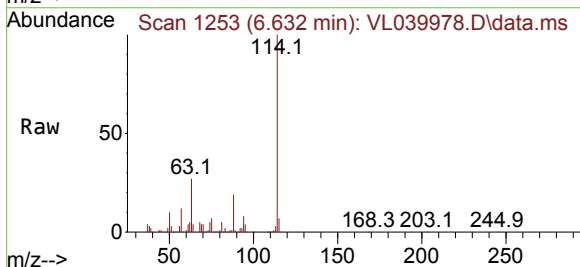
Instrument :
MSVOA_L
ClientSampleId :
AA-1DL

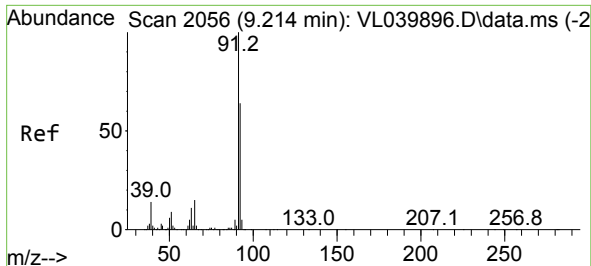
Tgt Ion: 43 Resp: 7459
Ion Ratio Lower Upper
43 100
72 0.0 17.4 26.2#



#39
1,2-Dichloropropane
Concen: 7.642 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. -0.402 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

Tgt Ion: 63 Resp: 784441
Ion Ratio Lower Upper
63 100
41 0.0 54.7 82.1#
62 17.4 55.0 82.6#

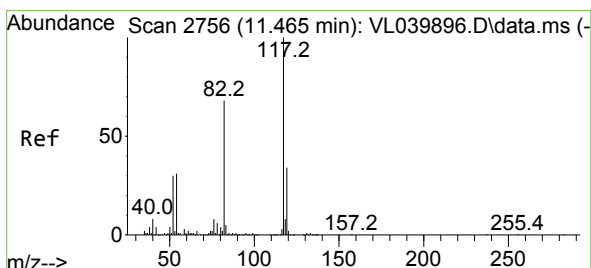
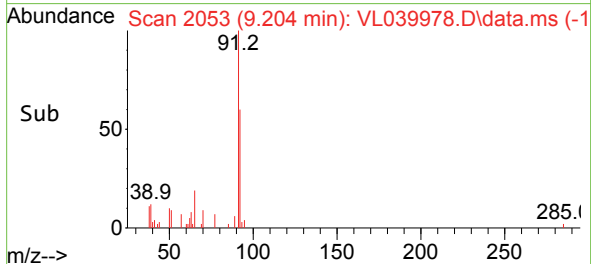
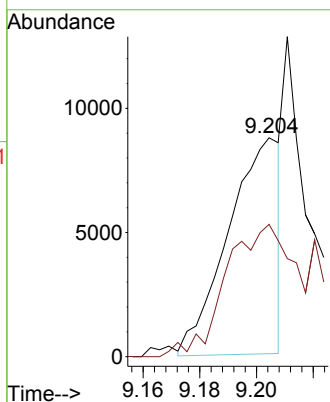
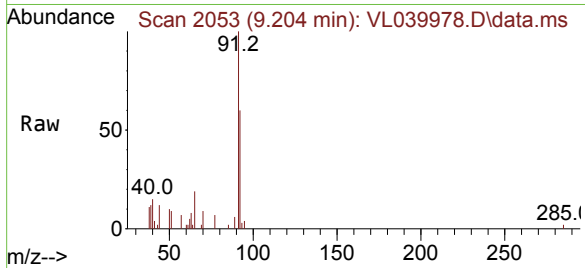




#53
Toluene
Concen: 0.037 ppbv
RT: 9.204 min Scan# 2056
Delta R.T. 0.019 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

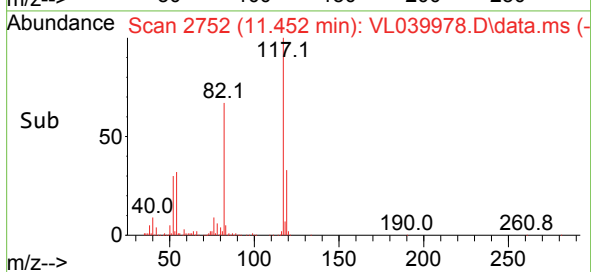
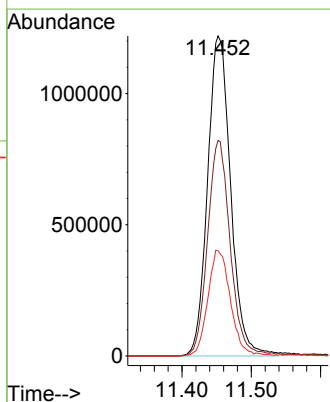
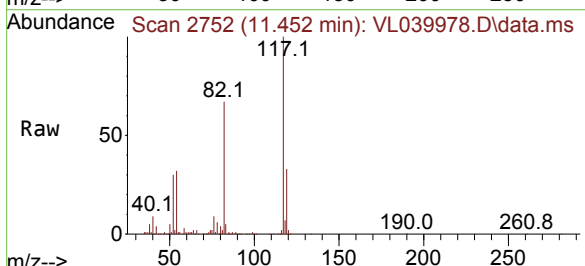
Instrument :
MSVOA_L
ClientSampleId :
AA-1DL

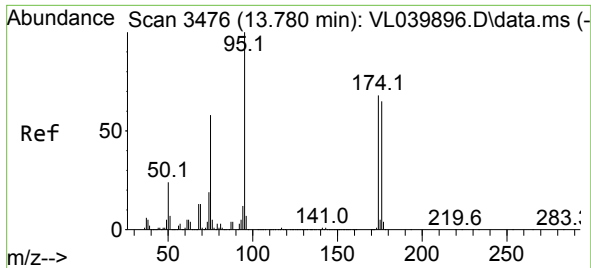
Tgt Ion: 91 Resp: 11012
Ion Ratio Lower Upper
91 100
92 107.8 49.8 74.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. 0.019 min
Lab File: VL039978.D
Acq: 12 Dec 2022 16:27

Tgt Ion: 117 Resp: 2822736
Ion Ratio Lower Upper
117 100
82 67.3 52.3 78.5
119 32.5 25.7 38.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.575 ppbv

RT: 13.767 min Scan# 34

Delta R.T. 0.026 min

Lab File: VL039978.D

Acq: 12 Dec 2022 16:27

Instrument :

MSVOA_L

ClientSampleId :

AA-1DL

Tgt Ion: 95 Resp: 2280104

Ion Ratio Lower Upper

95 100

174 61.1 53.7 80.5

175 4.3 4.0 6.0

