

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039992.D
 Acq On : 13 Dec 2022 1:39
 Operator : SY/MD
 Sample : N6020-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Dec 13 07:12:35 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)

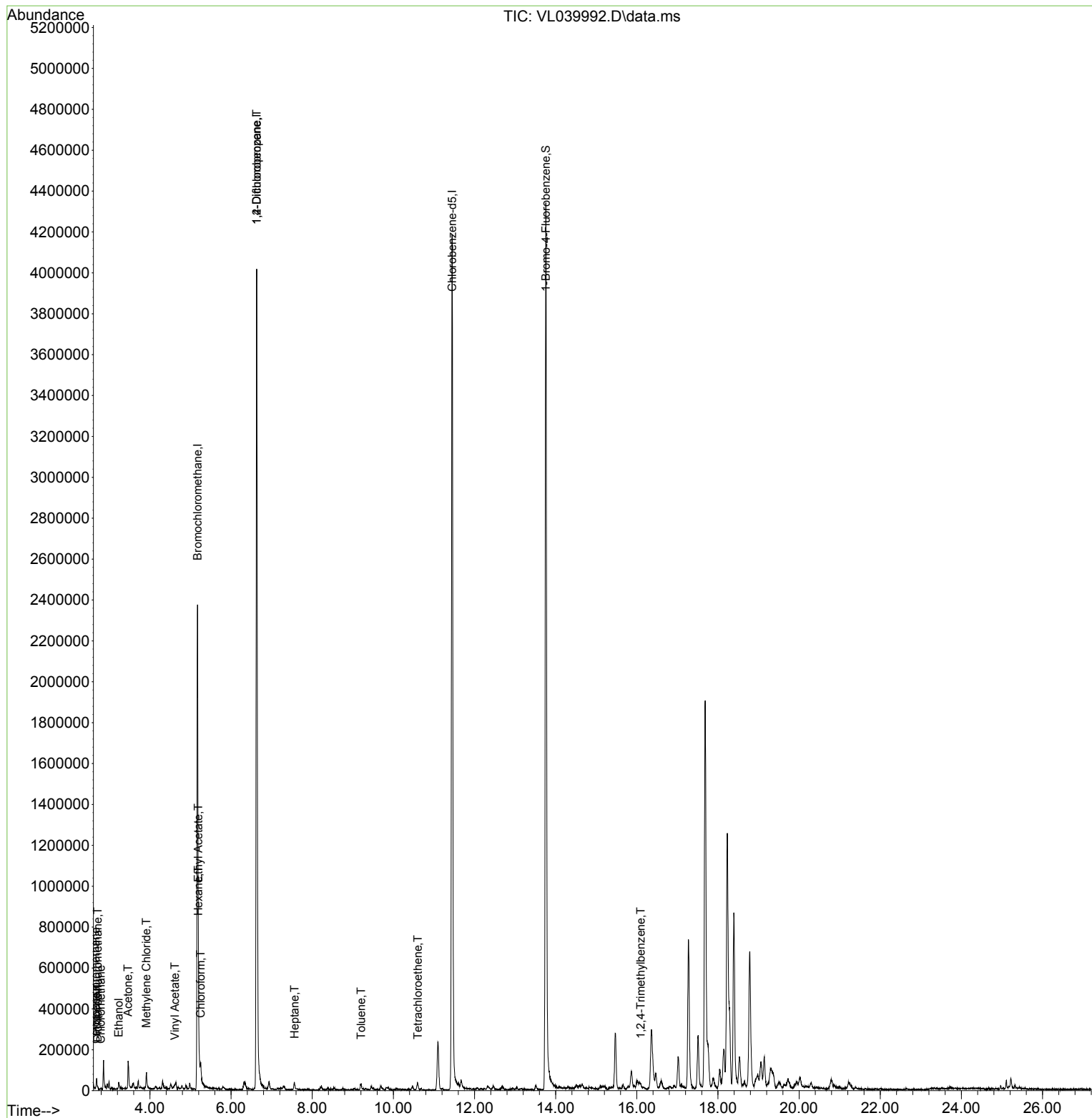
Internal Standards						
1) Bromochloromethane	5.172	49	1130463	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.632	114	3066307	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.449	117	2719110	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	2203909	10.612	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.713	85	4830	0.030	ppbv #	84
3) Chlorodifluoromethane	2.658	51	3369	0.022	ppbv #	77
4) Chloromethane	2.793	50	2203	0.022	ppbv #	76
9) Propene	2.677	41	9896	0.135	ppbv #	81
10) Heptane	7.565	43	5664	0.032	ppbv #	1
13) Ethanol	3.230	45	13939	2.485	ppbv #	24
15) Acetone	3.462	43	125369	0.836	ppbv	94
20) Methylene Chloride	3.915	84	25334	0.349	ppbv #	86
23) Vinyl Acetate	4.616	43	22586	0.367	ppbv #	87
25) Ethyl Acetate	5.192	43	31885	0.116	ppbv #	83
26) Hexane	5.195	57	41874	0.348	ppbv #	37
29) Chloroform	5.253	83	46917	0.294	ppbv	94
39) 1,2-Dichloropropane	6.632	63	756753	7.452	ppbv #	27
52) Tetrachloroethene	10.603	164	2681	0.027	ppbv #	38
53) Toluene	9.208	91	8126	0.027	ppbv #	19
74) 1,2,4-Trimethylbenzene	16.098	105	8201	0.026	ppbv #	49

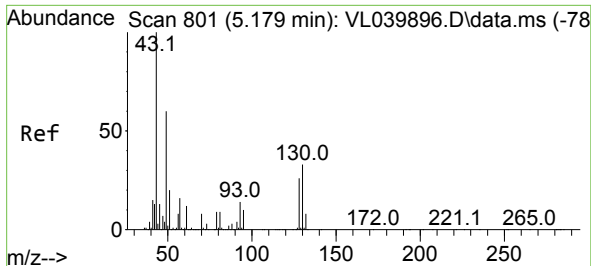
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_L
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SV1DL

Quant Time: Dec 13 07:12:35 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

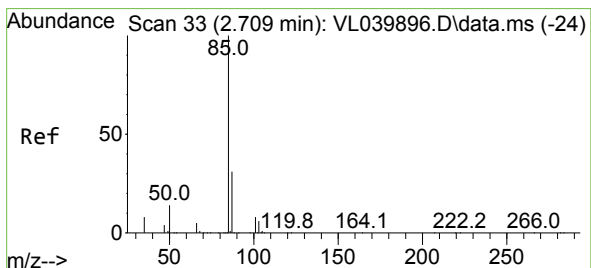
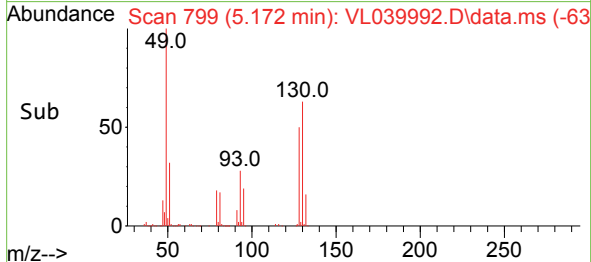
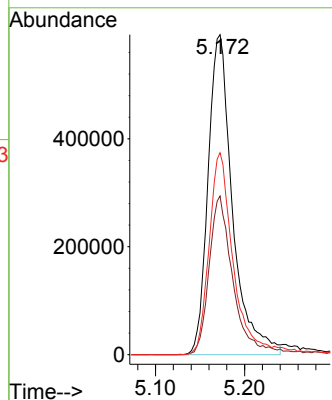
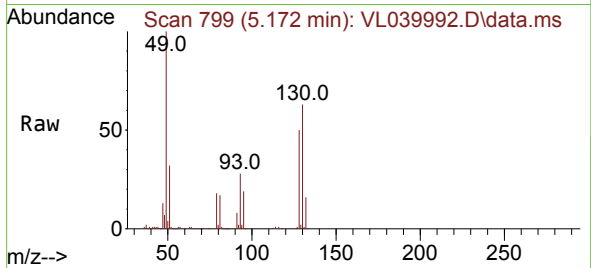




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.172 min Scan# 79
 Delta R.T. 0.016 min
 Lab File: VL039992.D
 Acq: 13 Dec 2022 1:39

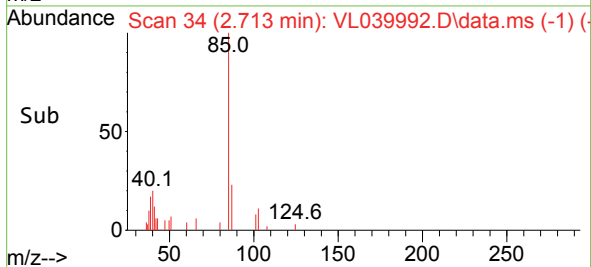
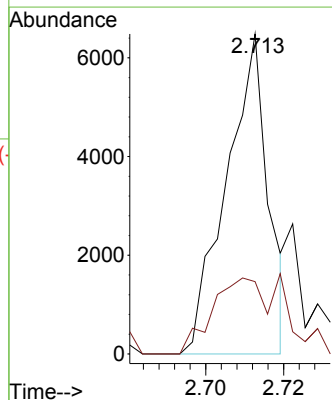
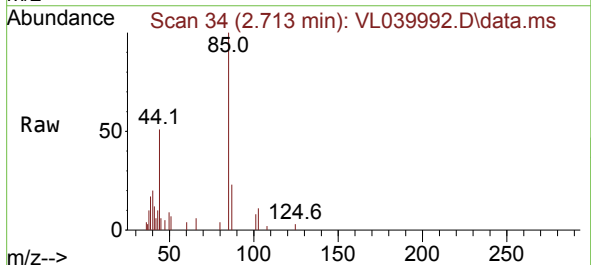
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

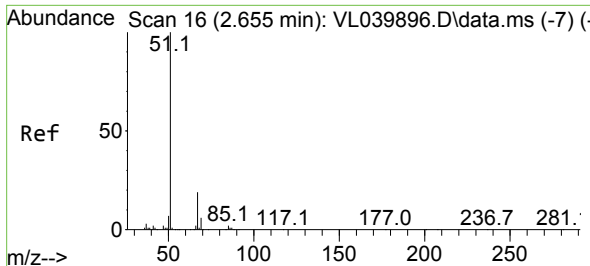
Tgt Ion: 49 Resp: 1130463
 Ion Ratio Lower Upper
 49 100
 128 50.6 22.1 66.3
 130 64.3 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.030 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. 0.016 min
 Lab File: VL039992.D
 Acq: 13 Dec 2022 1:39

Tgt Ion: 85 Resp: 4830
 Ion Ratio Lower Upper
 85 100
 87 22.6 25.0 37.4#

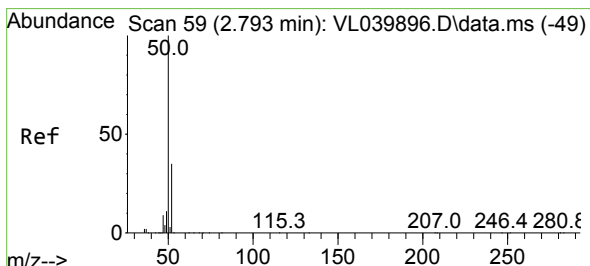
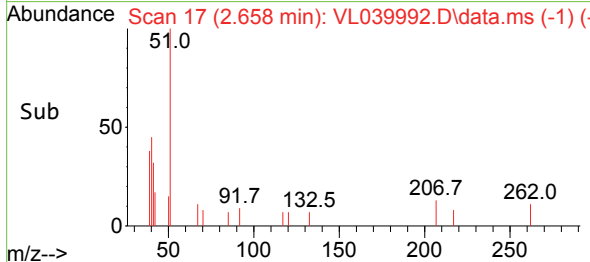
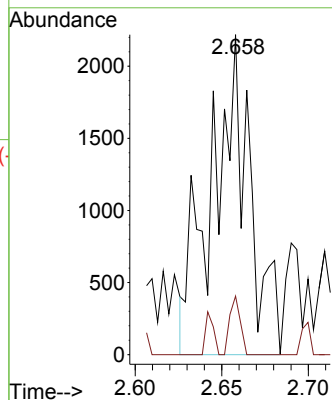
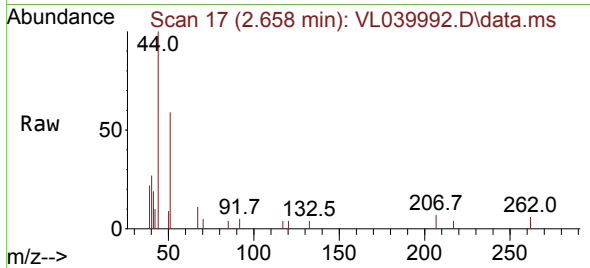




#3
Chlorodifluoromethane
Concen: 0.022 ppbv
RT: 2.658 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL039992.D
Acq: 13 Dec 2022 1:39

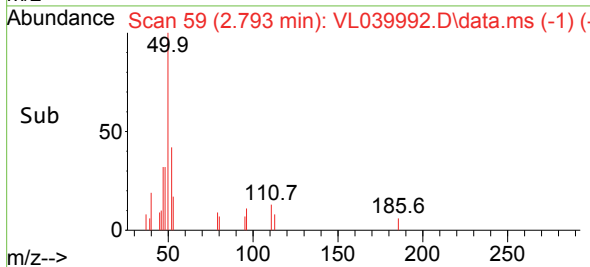
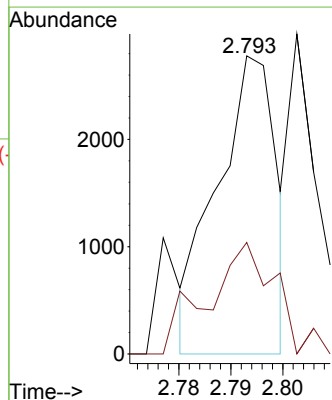
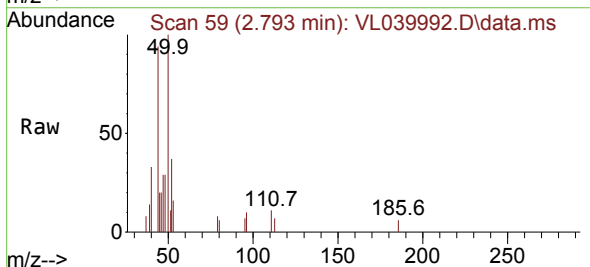
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

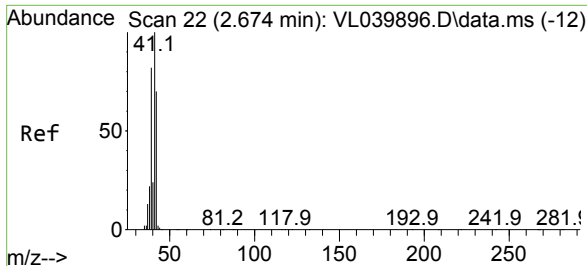
Tgt Ion: 51 Resp: 3369
Ion Ratio Lower Upper
51 100
67 7.9 14.2 21.4#



#4
Chloromethane
Concen: 0.022 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039992.D
Acq: 13 Dec 2022 1:39

Tgt Ion: 50 Resp: 2203
Ion Ratio Lower Upper
50 100
52 21.0 27.8 41.8#

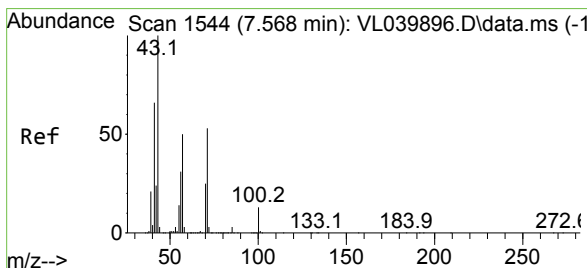
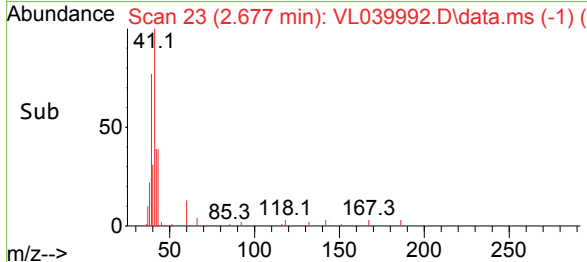
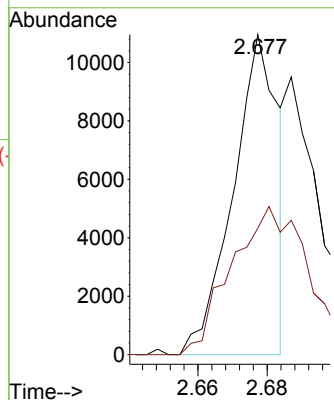
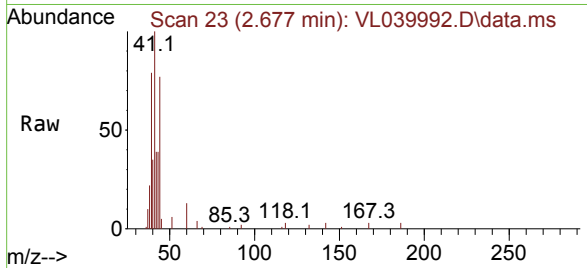




#9
 Propene
 Concen: 0.135 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. 0.016 min
 Lab File: VL039992.D
 Acq: 13 Dec 2022 1:39

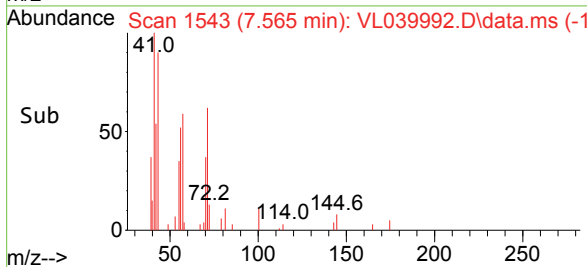
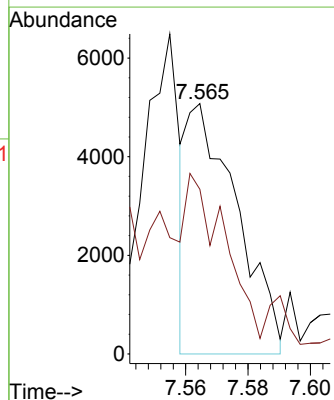
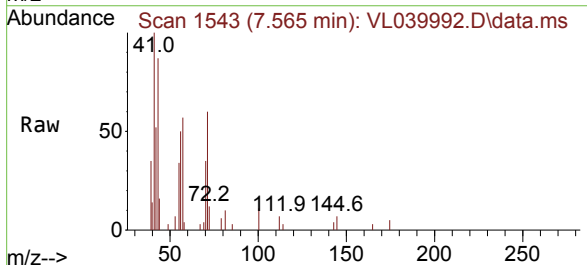
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

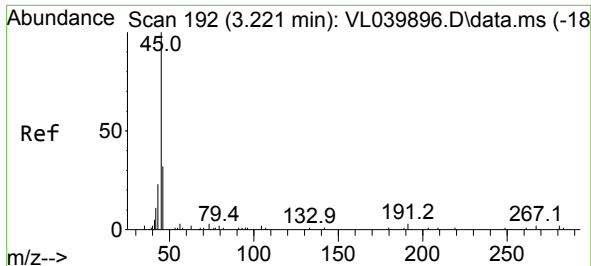
Tgt Ion: 41 Resp: 9896
 Ion Ratio Lower Upper
 41 100
 42 85.6 55.8 83.6#



#10
 Heptane
 Concen: 0.032 ppbv
 RT: 7.565 min Scan# 1543
 Delta R.T. 0.019 min
 Lab File: VL039992.D
 Acq: 13 Dec 2022 1:39

Tgt Ion: 43 Resp: 5664
 Ion Ratio Lower Upper
 43 100
 57 137.1 40.7 61.1#

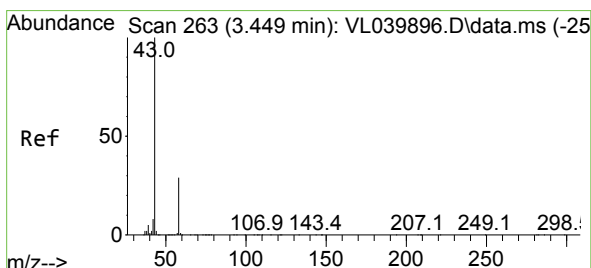
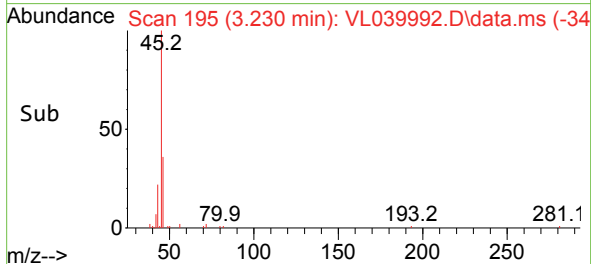
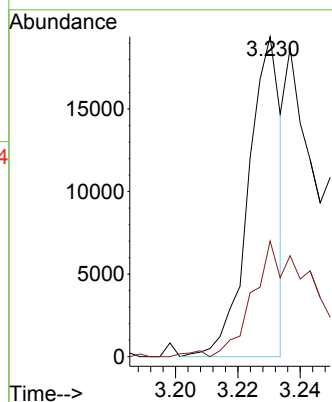
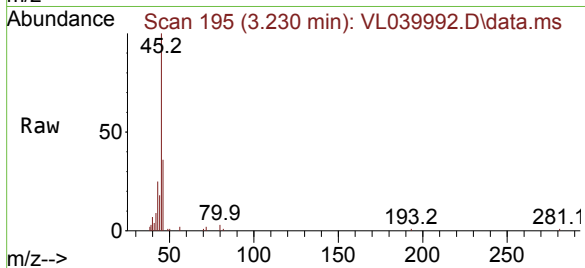




#13
Ethanol
Concen: 2.485 ppbv
RT: 3.230 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL039992.D
Acq: 13 Dec 2022 1:39

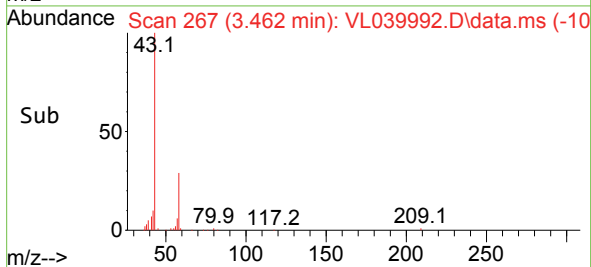
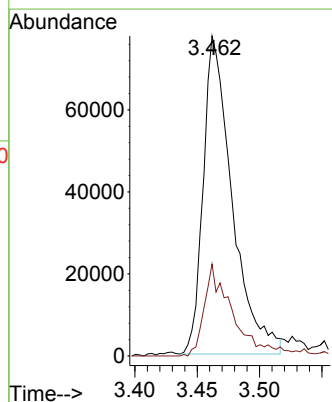
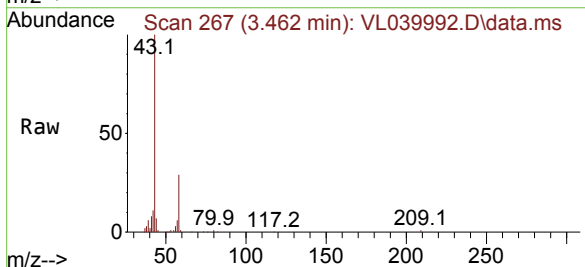
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

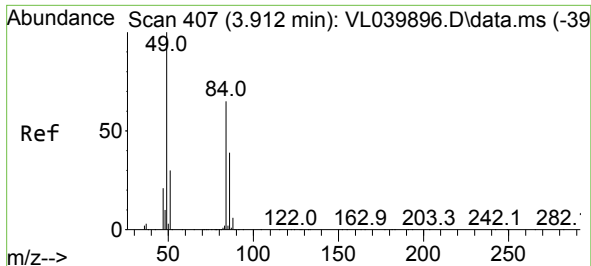
Tgt Ion: 45 Resp: 13939
Ion Ratio Lower Upper
45 100
46 81.3 14.6 58.2#



#15
Acetone
Concen: 0.836 ppbv
RT: 3.462 min Scan# 267
Delta R.T. 0.029 min
Lab File: VL039992.D
Acq: 13 Dec 2022 1:39

Tgt Ion: 43 Resp: 125369
Ion Ratio Lower Upper
43 100
58 31.6 22.9 34.3



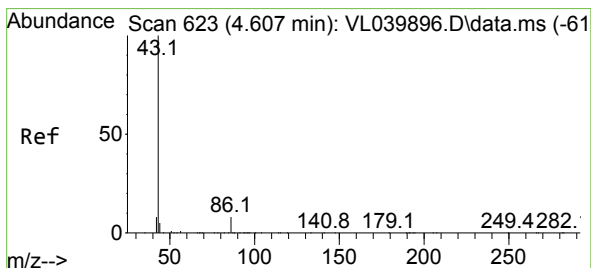
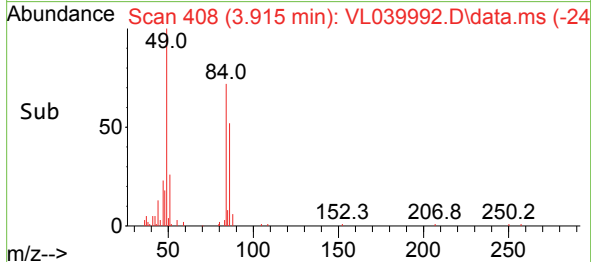
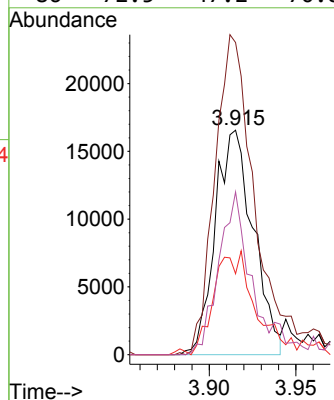
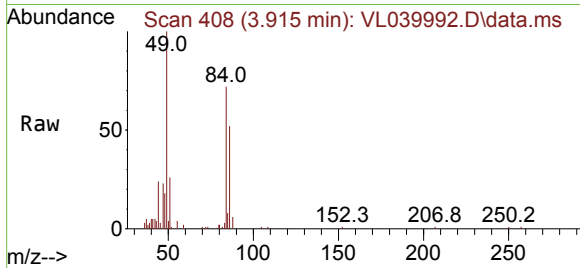


#20
Methylene Chloride
Concen: 0.349 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.019 min
Lab File: VL039992.D
Acq: 13 Dec 2022 1:39

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 84 Resp: 25334

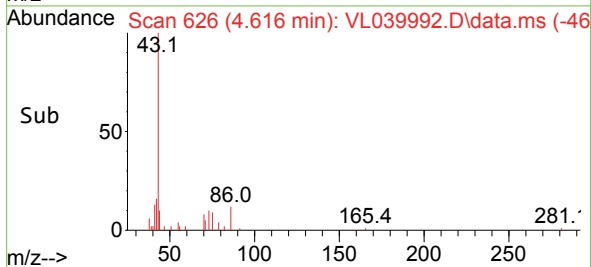
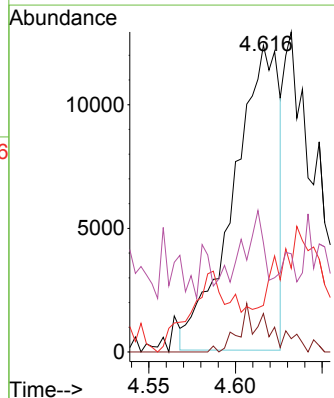
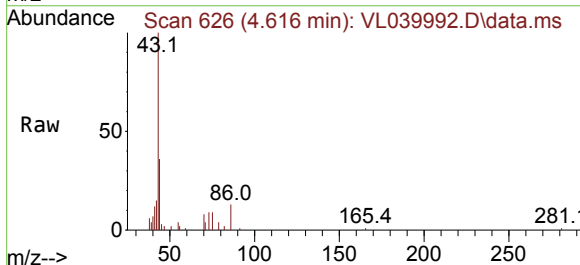
Ion	Ratio	Lower	Upper
84	100		
49	138.1	122.2	183.4
51	34.5	36.3	54.5#
86	72.5	47.2	70.8#

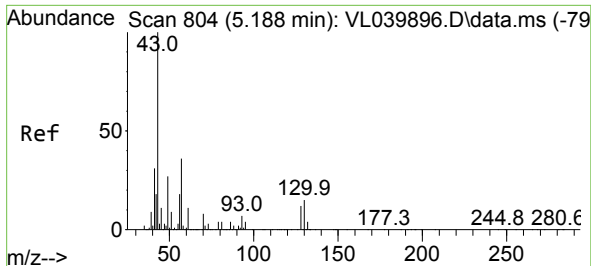


#23
Vinyl Acetate
Concen: 0.367 ppbv
RT: 4.616 min Scan# 626
Delta R.T. 0.023 min
Lab File: VL039992.D
Acq: 13 Dec 2022 1:39

Tgt Ion: 43 Resp: 22586

Ion	Ratio	Lower	Upper
43	100		
86	13.6	5.0	7.4#
42	5.9	7.6	11.4#
44	7.8	3.8	5.6#





#25

Ethyl Acetate

Concen: 0.116 ppbv

RT: 5.192 min Scan# 805

Delta R.T. 0.023 min

Lab File: VL039992.D

Acq: 13 Dec 2022 1:39

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 43 Resp: 31885

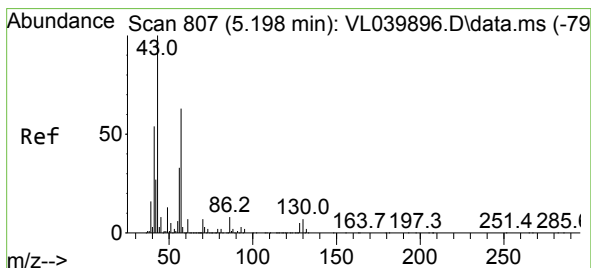
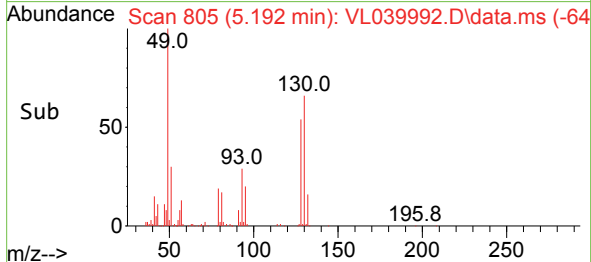
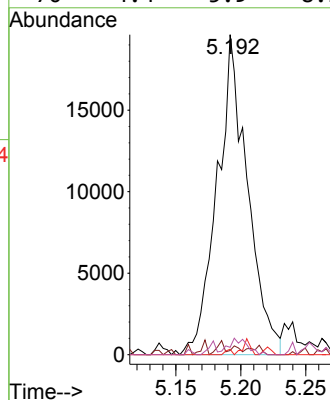
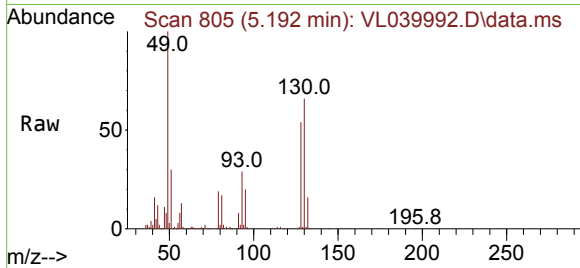
Ion Ratio Lower Upper

43 100

45 4.1 8.4 12.6#

61 2.1 8.5 12.7#

70 4.4 5.9 8.9#



#26

Hexane

Concen: 0.348 ppbv

RT: 5.195 min Scan# 806

Delta R.T. 0.019 min

Lab File: VL039992.D

Acq: 13 Dec 2022 1:39

Tgt Ion: 57 Resp: 41874

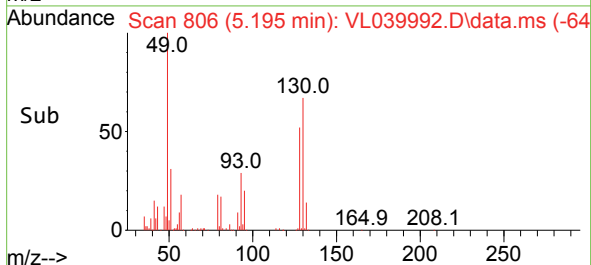
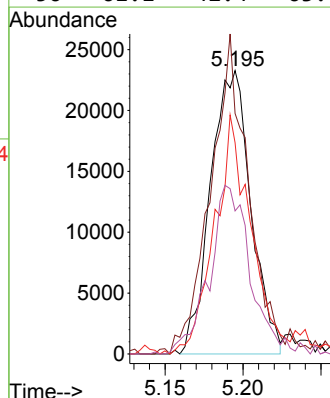
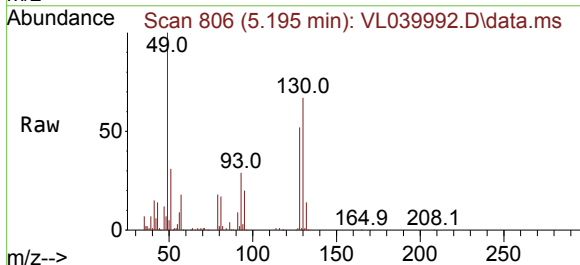
Ion Ratio Lower Upper

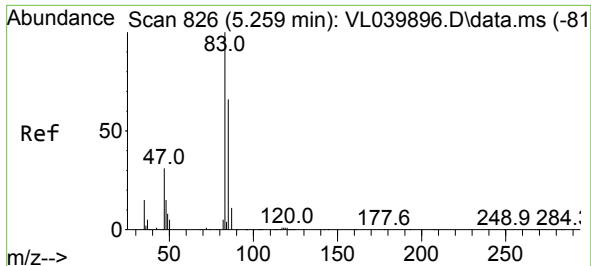
57 100

41 107.8 72.3 108.5

43 82.7 188.7 283.1#

56 61.1 42.4 63.6





#29

Chloroform

Concen: 0.294 ppbv

RT: 5.253 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL039992.D

Acq: 13 Dec 2022 1:39

Instrument :

MSVOA_L

ClientSampleId :

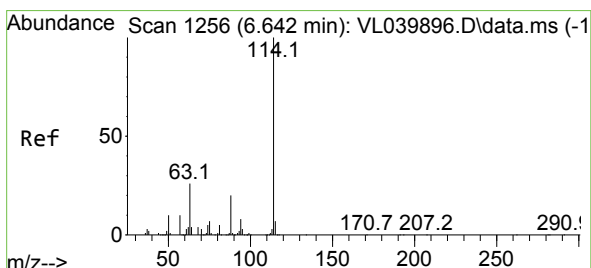
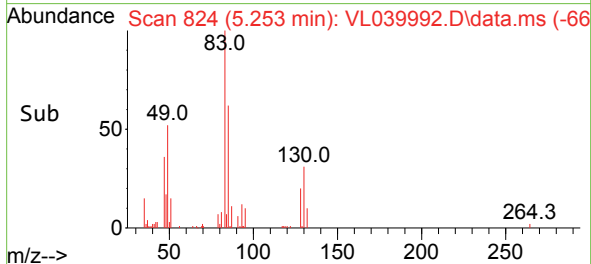
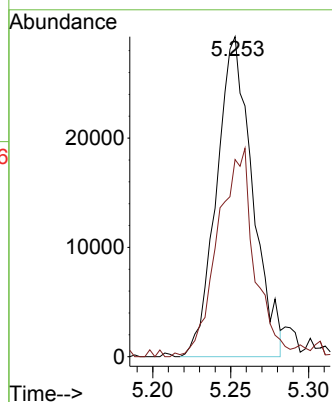
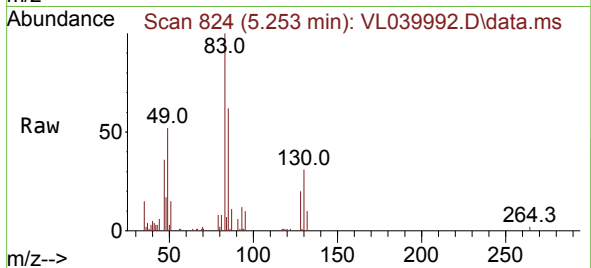
SV1DL

Tgt Ion: 83 Resp: 46917

Ion Ratio Lower Upper

83 100

85 61.0 52.4 78.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. 0.013 min

Lab File: VL039992.D

Acq: 13 Dec 2022 1:39

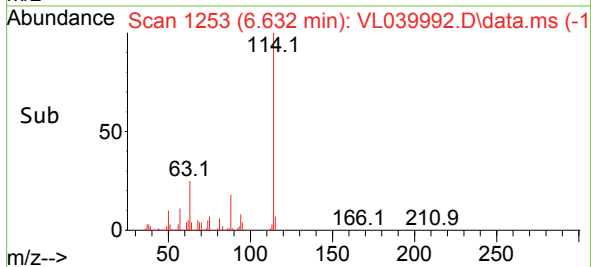
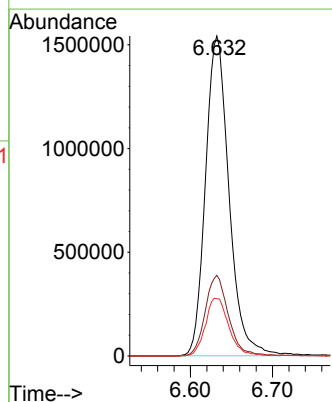
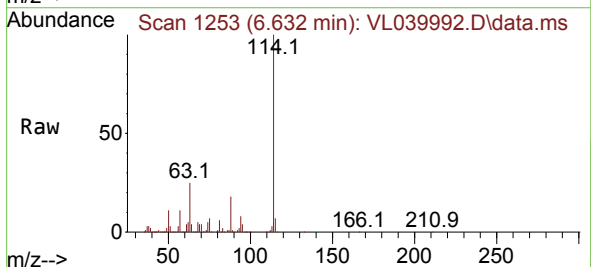
Tgt Ion: 114 Resp: 3066307

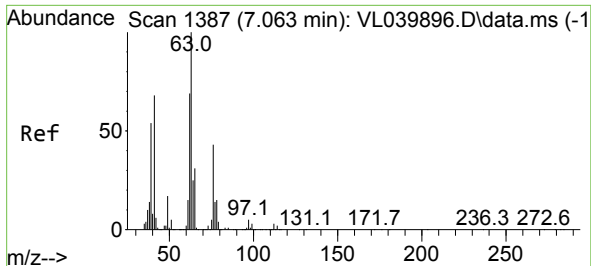
Ion Ratio Lower Upper

114 100

63 25.1 21.4 32.0

88 18.3 15.3 22.9





#39

1,2-Dichloropropane

Concen: 7.452 ppbv

RT: 6.632 min Scan# 11

Delta R.T. -0.402 min

Lab File: VL039992.D

Acq: 13 Dec 2022 1:39

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

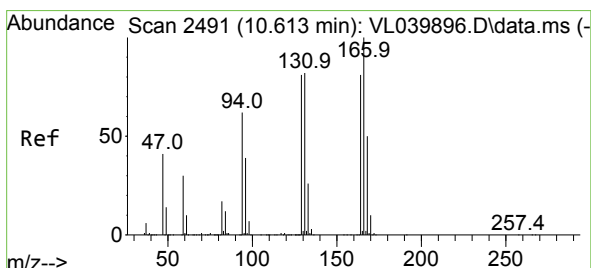
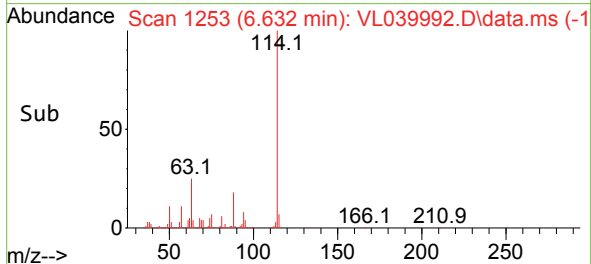
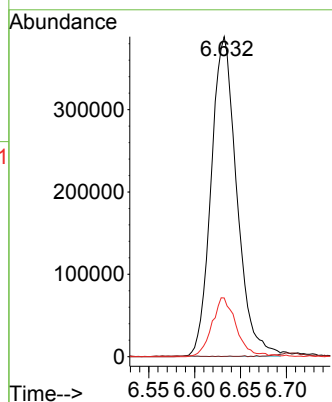
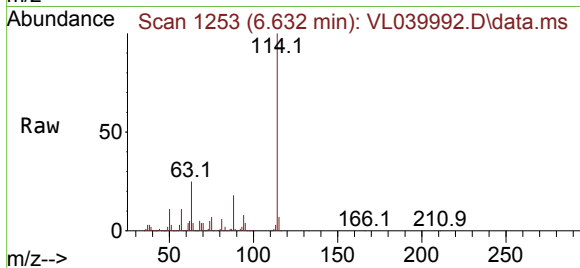
Tgt Ion: 63 Resp: 756753

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 18.3 55.0 82.6#



#52

Tetrachloroethene

Concen: 0.027 ppbv

RT: 10.603 min Scan# 2488

Delta R.T. 0.023 min

Lab File: VL039992.D

Acq: 13 Dec 2022 1:39

Tgt Ion: 164 Resp: 2681

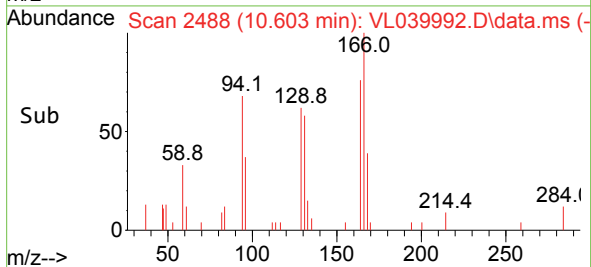
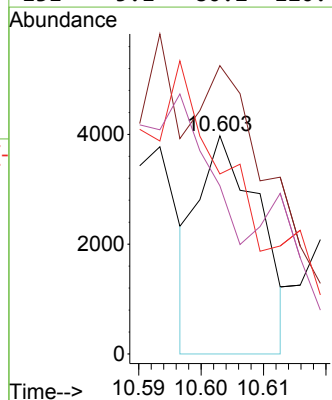
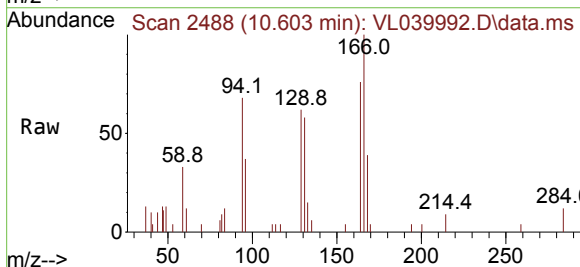
Ion Ratio Lower Upper

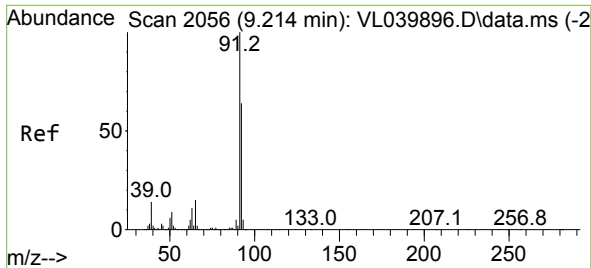
164 100

166 73.9 98.3 147.5#

129 47.7 79.7 119.5#

131 5.1 80.2 120.4#

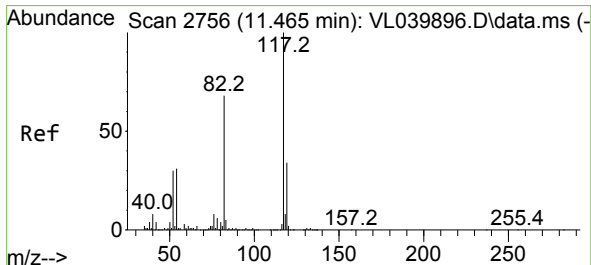
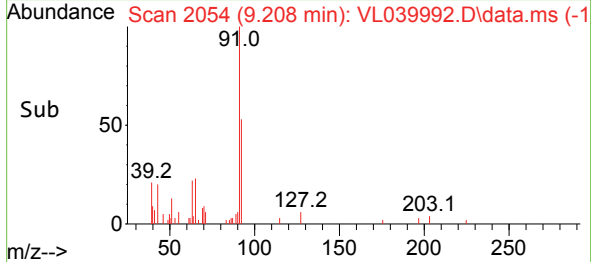
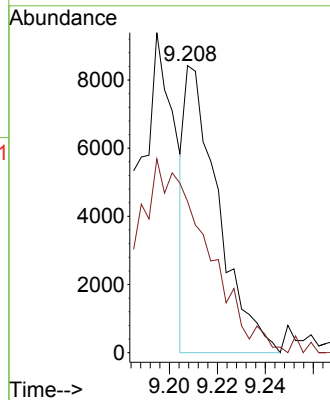
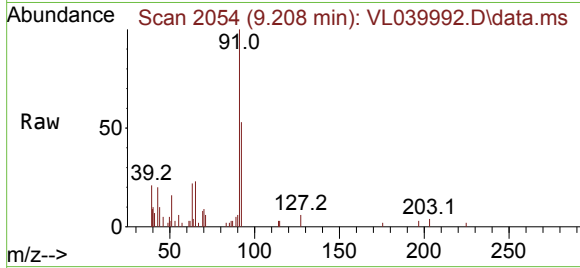




#53
Toluene
Concen: 0.027 ppbv
RT: 9.208 min Scan# 2056
Delta R.T. 0.023 min
Lab File: VL039992.D
Acq: 13 Dec 2022 1:39

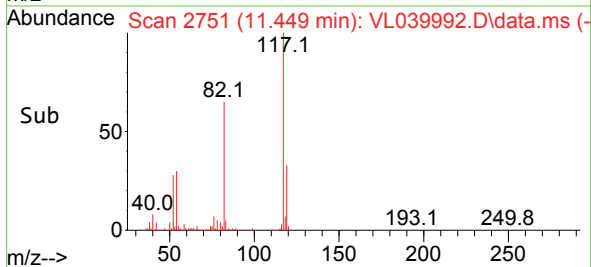
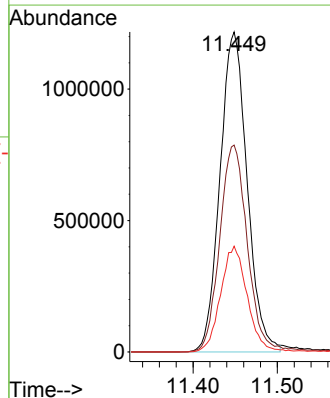
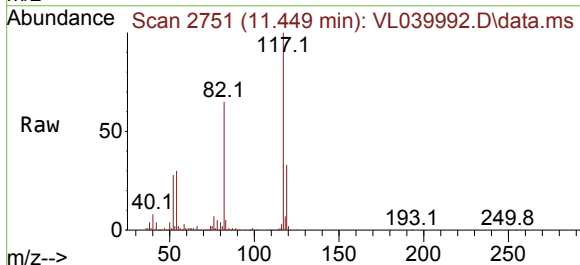
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

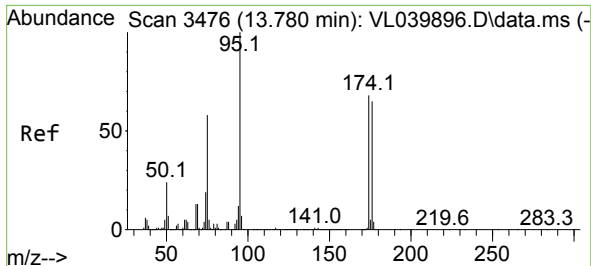
Tgt Ion: 91 Resp: 8126
Ion Ratio Lower Upper
91 100
92 0.0 49.8 74.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. 0.016 min
Lab File: VL039992.D
Acq: 13 Dec 2022 1:39

Tgt Ion: 117 Resp: 2719110
Ion Ratio Lower Upper
117 100
82 66.8 52.3 78.5
119 33.0 25.7 38.5

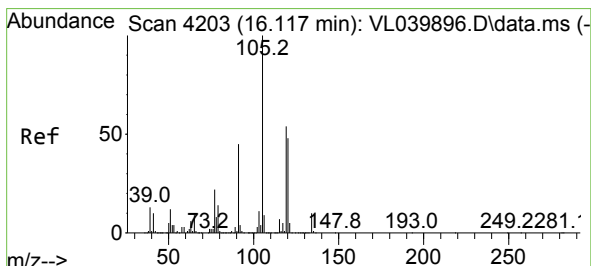
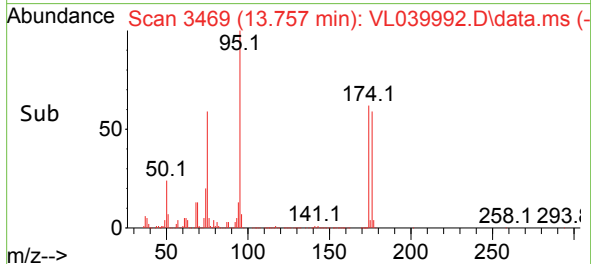
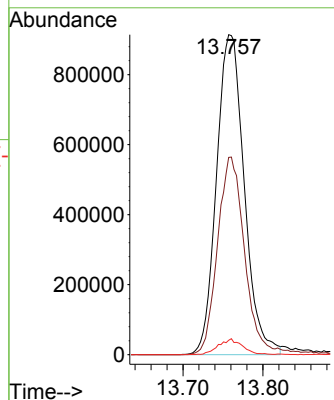
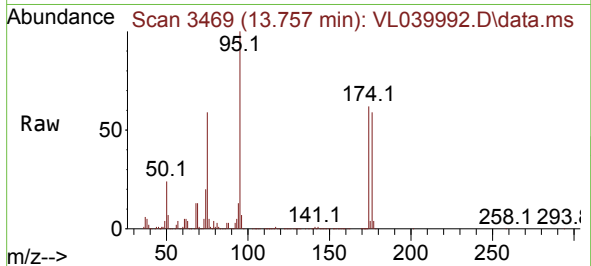




#68
1-Bromo-4-Fluorobenzene
Concen: 10.612 ppbv
RT: 13.757 min Scan# 3476
Delta R.T. 0.016 min
Lab File: VL039992.D
Acq: 13 Dec 2022 1:39

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 95 Resp: 2203909
Ion Ratio Lower Upper
95 100
174 61.5 53.7 80.5
175 4.4 4.0 6.0



#74
1,2,4-Trimethylbenzene
Concen: 0.026 ppbv
RT: 16.098 min Scan# 4197
Delta R.T. 0.023 min
Lab File: VL039992.D
Acq: 13 Dec 2022 1:39

Tgt Ion: 105 Resp: 8201
Ion Ratio Lower Upper
105 100
120 13.7 38.7 58.1#
91 1.7 36.4 54.6#
77 13.8 17.4 26.0#

