

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039975.D
 Acq On : 12 Dec 2022 14:29
 Operator : SY/MD
 Sample : N5969-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Quant Time: Dec 13 06:10:08 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)

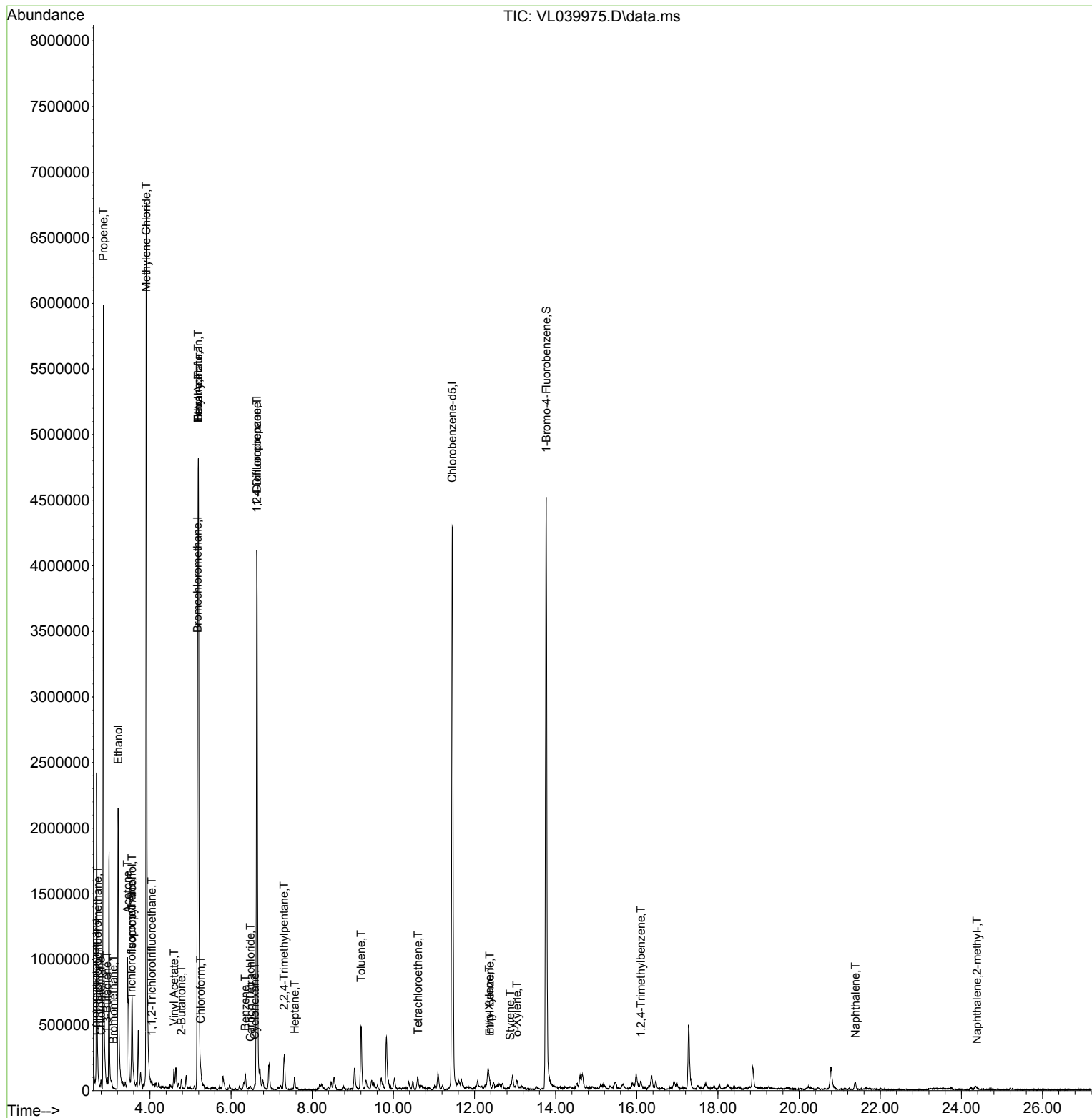
Internal Standards						
1) Bromochloromethane	5.173	49	1144827	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.636	114	3094285	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	2804765	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2303959	10.755	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	74967	0.457	ppbv	99
3) Chlorodifluoromethane	2.655	51	62335	0.395	ppbv #	90
4) Chloromethane	2.793	50	46238	0.458	ppbv	93
6) Bromomethane	3.099	94	620	0.023	ppbv #	75
9) Propene	2.854	41	1714253	23.037	ppbv	96
10) Heptane	7.568	43	18307	0.102	ppbv #	21
11) Trichlorofluoromethane	3.546	101	104028	0.520	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.044	101	5397	0.036	ppbv #	12
13) Ethanol	3.218	45	2161358	380.426	ppbv	99
15) Acetone	3.449	43	1090627	7.182	ppbv	95
16) 1,3-Butadiene	2.944	39	12194	0.161	ppbv	91
19) Isopropyl Alcohol	3.559	45	700670	8.522	ppbv #	32
20) Methylene Chloride	3.915	84	2387201	32.449	ppbv	94
23) Vinyl Acetate	4.597	43	83061	1.331	ppbv #	33
25) Ethyl Acetate	5.195	43	1280363	4.592	ppbv #	78
26) Hexane	5.195	57	1729682	14.202	ppbv #	40
29) Chloroform	5.253	83	14141	0.087	ppbv	98
30) Cyclohexane	6.584	84	6182	0.052	ppbv #	1
34) 2-Butanone	4.774	43	73747	0.498	ppbv	96
35) Carbon Tetrachloride	6.478	117	12932	0.074	ppbv #	91
36) Benzene	6.349	78	84167	0.320	ppbv #	94
39) 1,2-Dichloropropane	6.639	63	774609	7.559	ppbv #	26
41) Tetrahydrofuran	5.195	42	624605	6.111	ppbv #	50
44) 2,2,4-Trimethylpentane	7.311	57	235249	0.536	ppbv	91
52) Tetrachloroethene	10.613	164	4859	0.049	ppbv #	65
53) Toluene	9.208	91	270482	0.903	ppbv	98
58) Ethyl Benzene	12.378	91	10786	0.028	ppbv	93
59) m/p-Xylene	12.368	91	10829	0.034	ppbv #	30
60) o-Xylene	13.047	91	46131	0.152	ppbv	98
61) Styrene	12.886	104	4701	0.026	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.105	105	13577	0.041	ppbv #	65
79) Naphthalene	21.387	128	28328	0.143	ppbv #	89
80) Naphthalene,2-methyl-	24.387	142	4108	0.074	ppbv #	77

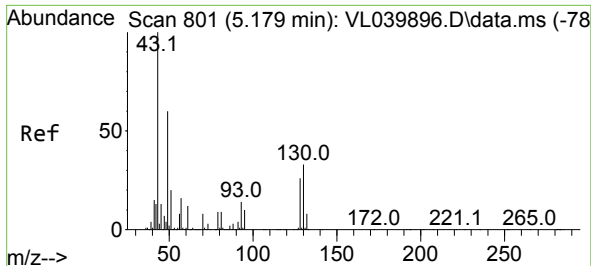
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
Data File : VL039975.D
Acq On : 12 Dec 2022 14:29
Operator : SY/MD
Sample : N5969-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Quant Time: Dec 13 06:10:08 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.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

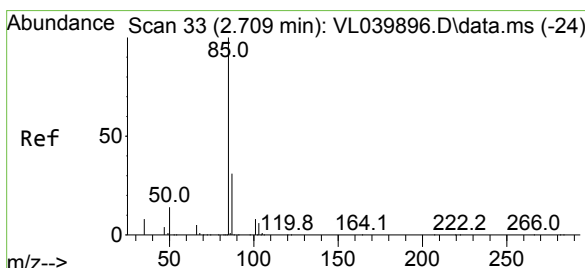
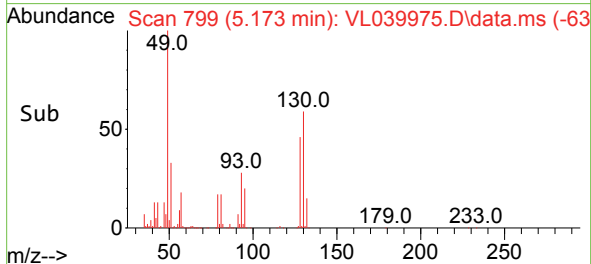
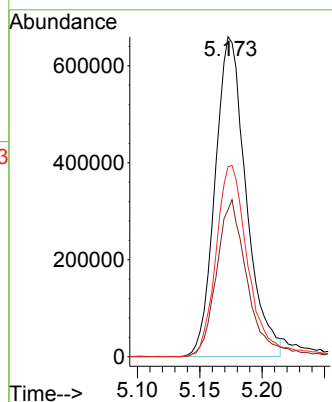
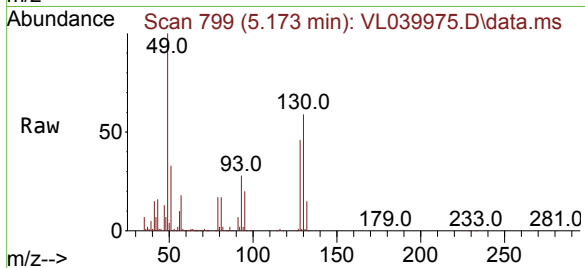




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.173 min Scan# 79
Delta R.T. 0.017 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

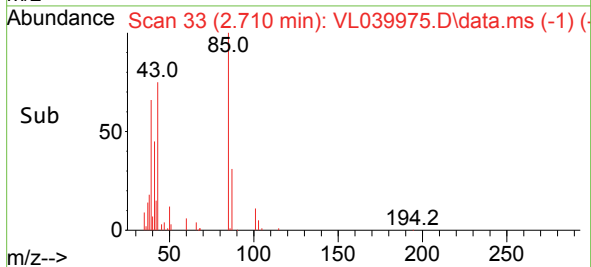
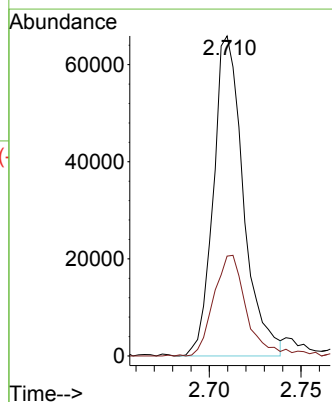
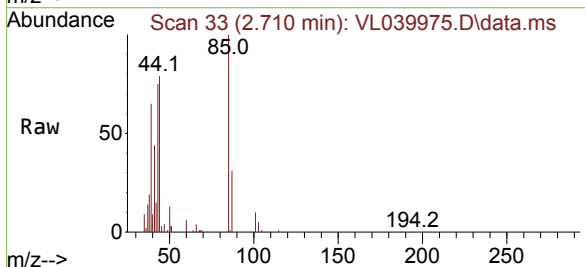
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

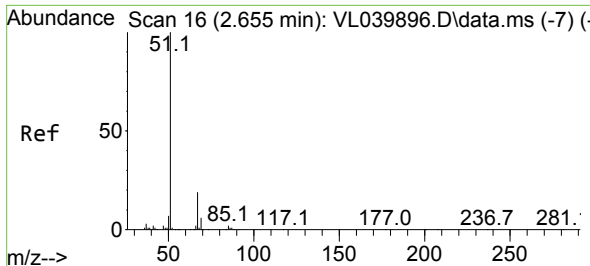
Tgt Ion: 49 Resp: 1144827
Ion Ratio Lower Upper
49 100
128 50.5 22.1 66.3
130 63.6 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.457 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 85 Resp: 74967
Ion Ratio Lower Upper
85 100
87 30.9 25.0 37.4

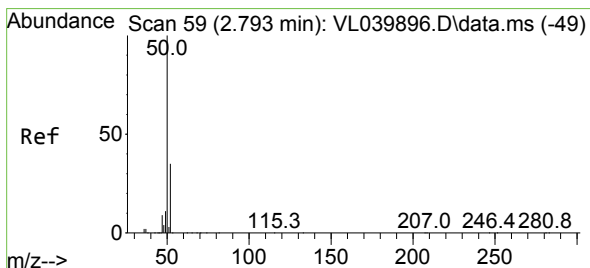
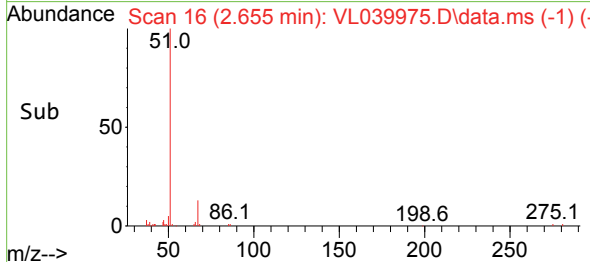
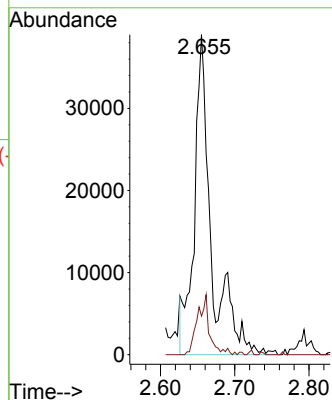
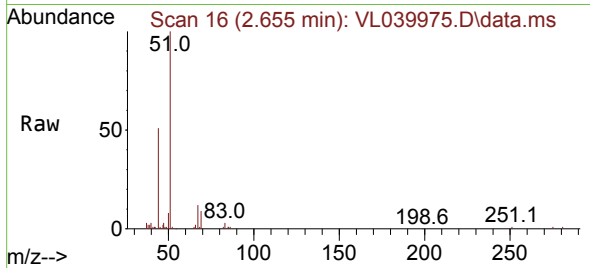




#3
Chlorodifluoromethane
Concen: 0.395 ppbv
RT: 2.655 min Scan# 16
Delta R.T. 0.013 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

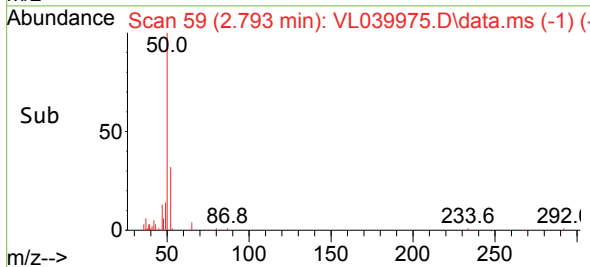
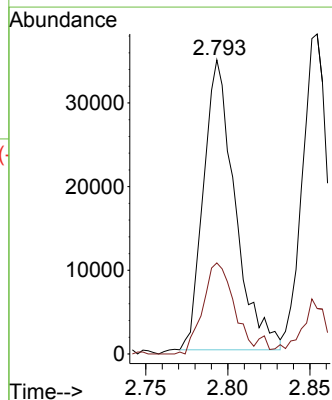
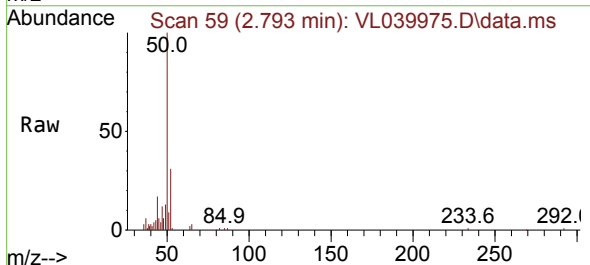
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

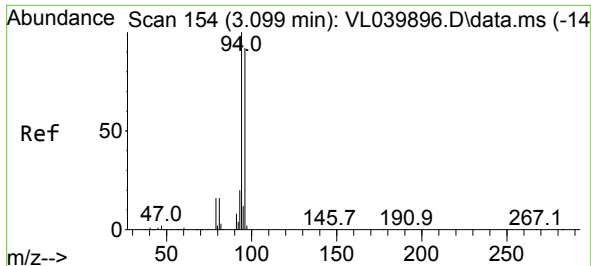
Tgt Ion: 51 Resp: 62335
Ion Ratio Lower Upper
51 100
67 13.4 14.2 21.4#



#4
Chloromethane
Concen: 0.458 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 50 Resp: 46238
Ion Ratio Lower Upper
50 100
52 30.8 27.8 41.8

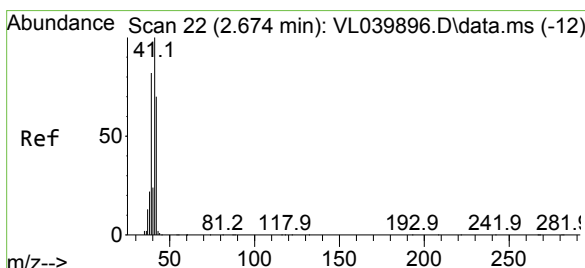
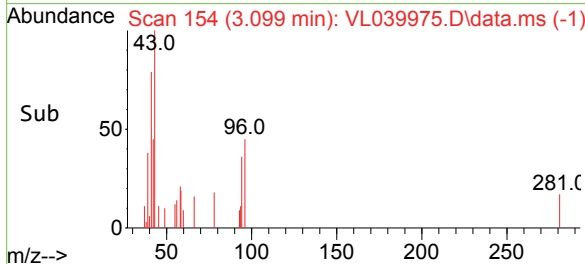
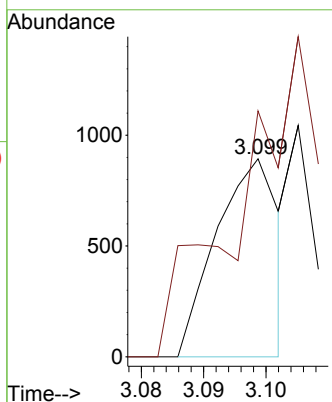
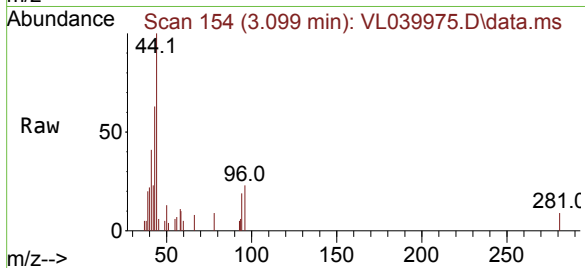




#6
Bromomethane
Concen: 0.023 ppbv
RT: 3.099 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

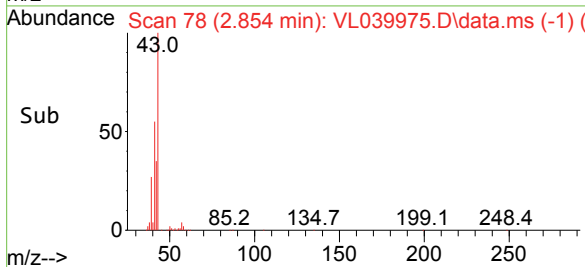
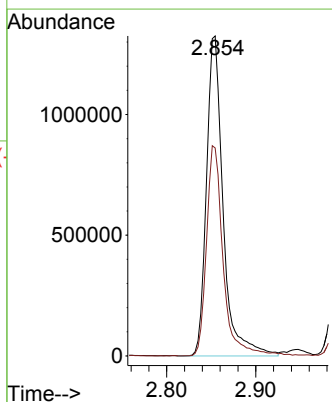
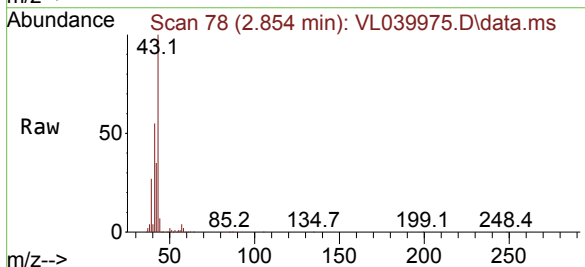
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

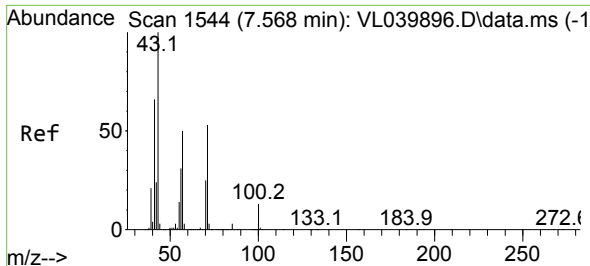
Tgt Ion: 94 Resp: 620
Ion Ratio Lower Upper
94 100
96 68.0 73.7 110.5#



#9
Propene
Concen: 23.037 ppbv
RT: 2.854 min Scan# 78
Delta R.T. 0.193 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 41 Resp: 1714253
Ion Ratio Lower Upper
41 100
42 66.4 55.8 83.6

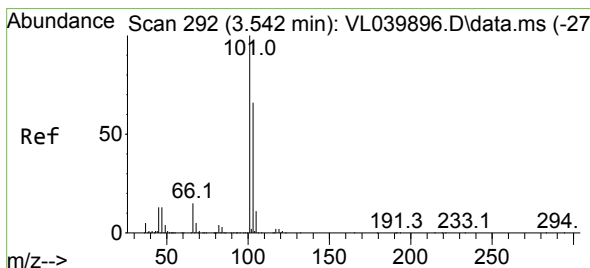
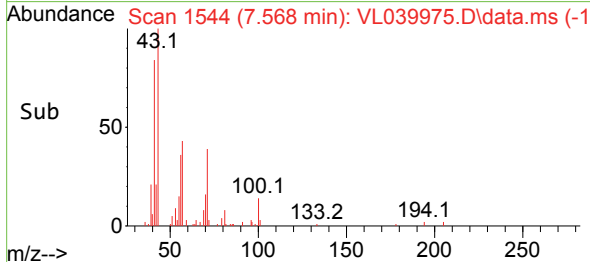
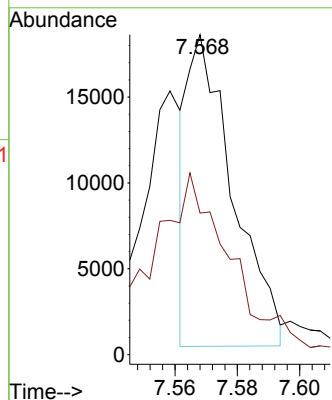
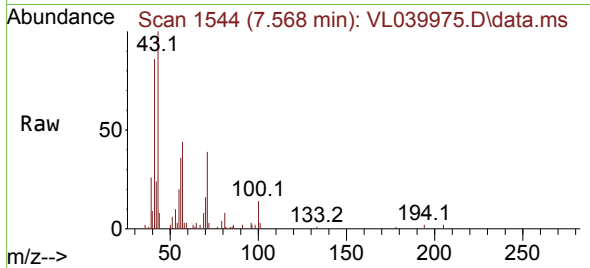




#10
 Heptane
 Concen: 0.102 ppbv
 RT: 7.568 min Scan# 11
 Delta R.T. 0.023 min
 Lab File: VL039975.D
 Acq: 12 Dec 2022 14:29

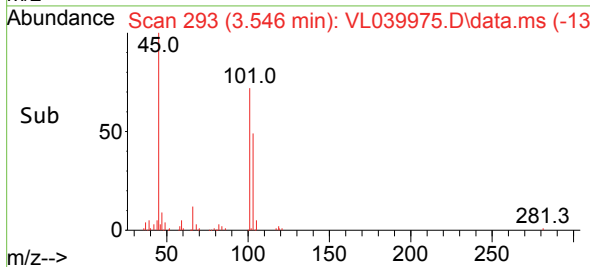
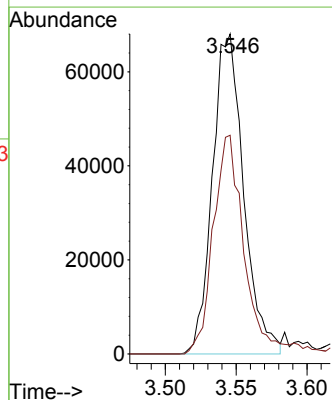
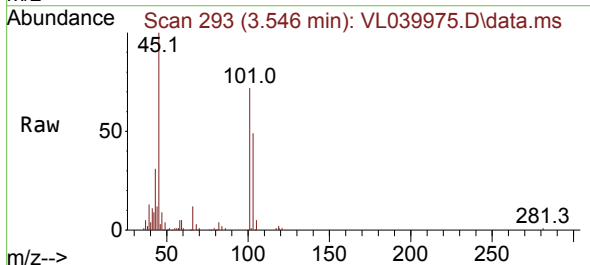
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

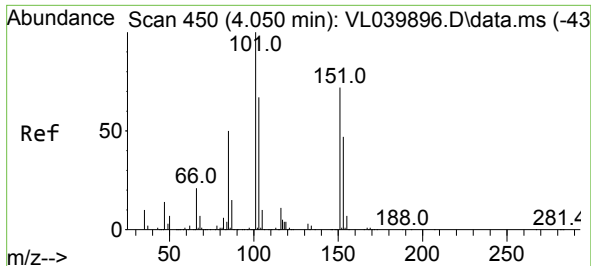
Tgt Ion: 43 Resp: 18307
 Ion Ratio Lower Upper
 43 100
 57 106.0 40.7 61.1#



#11
 Trichlorofluoromethane
 Concen: 0.520 ppbv
 RT: 3.546 min Scan# 293
 Delta R.T. 0.016 min
 Lab File: VL039975.D
 Acq: 12 Dec 2022 14:29

Tgt Ion: 101 Resp: 104028
 Ion Ratio Lower Upper
 101 100
 103 68.4 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.044 min Scan# 448

Delta R.T. 0.013 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

Instrument :

MSVOA_L

ClientSampleId :

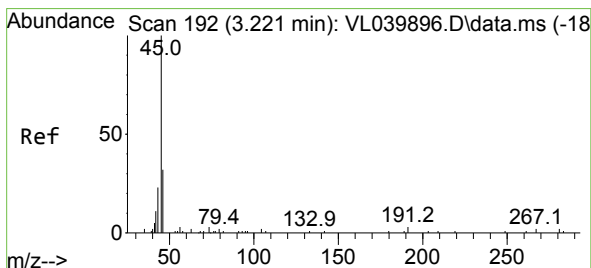
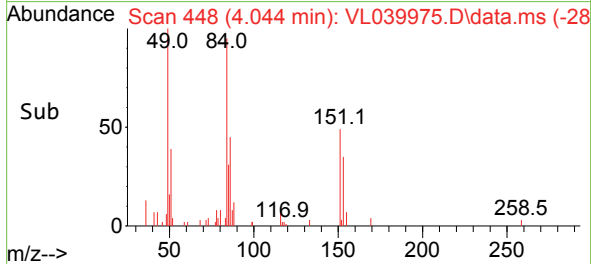
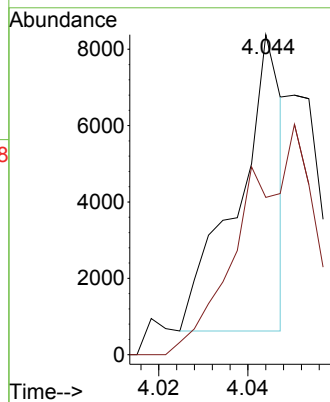
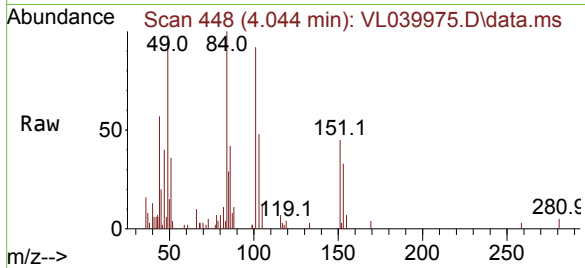
IA-2DUP

Tgt Ion:101 Resp: 5397

Ion Ratio Lower Upper

101 100

151 0.0 59.6 89.4#



#13

Ethanol

Concen: 380.426 ppbv

RT: 3.218 min Scan# 191

Delta R.T. 0.003 min

Lab File: VL039975.D

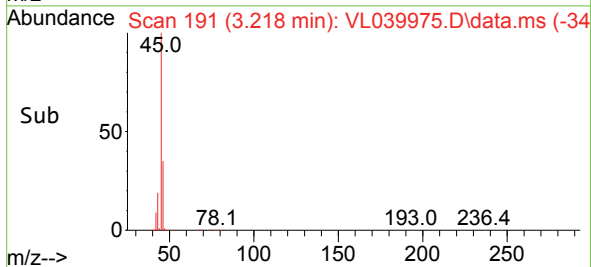
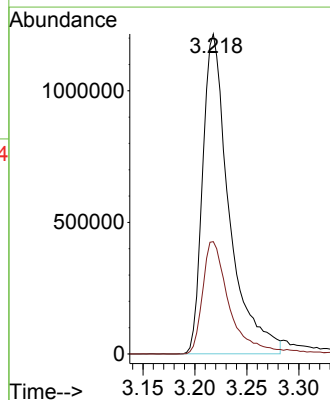
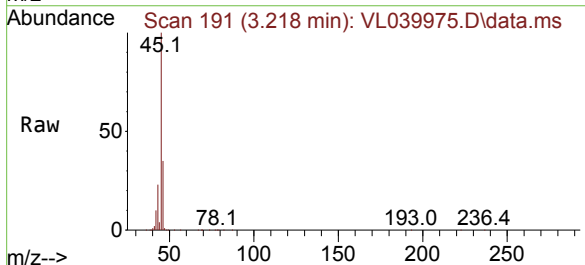
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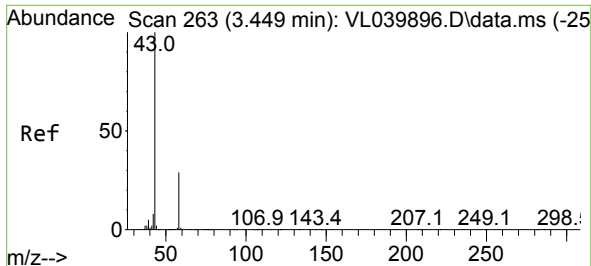
Tgt Ion: 45 Resp: 2161358

Ion Ratio Lower Upper

45 100

46 37.1 14.6 58.2





#15

Acetone

Concen: 7.182 ppbv

RT: 3.449 min Scan# 2

Delta R.T. 0.016 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

Instrument :

MSVOA_L

ClientSampleId :

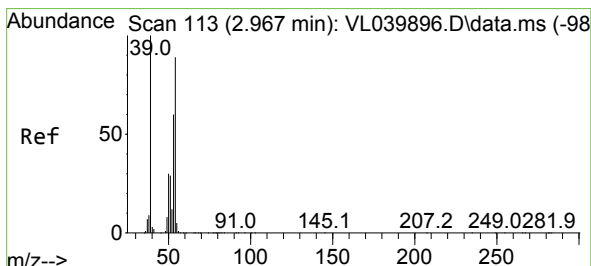
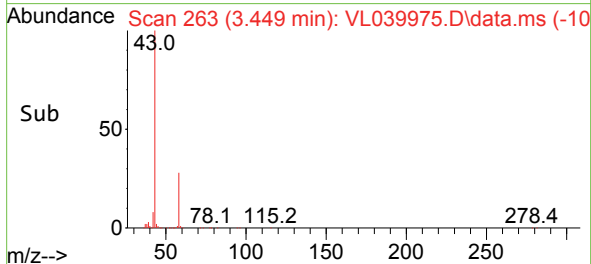
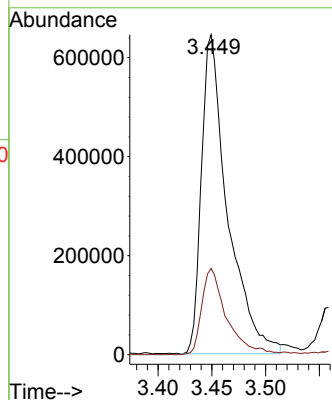
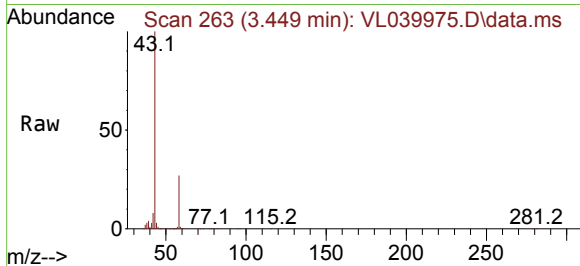
IA-2DUP

Tgt Ion: 43 Resp: 1090627

Ion Ratio Lower Upper

43 100

58 26.2 22.9 34.3



#16

1,3-Butadiene

Concen: 0.161 ppbv

RT: 2.944 min Scan# 106

Delta R.T. -0.006 min

Lab File: VL039975.D

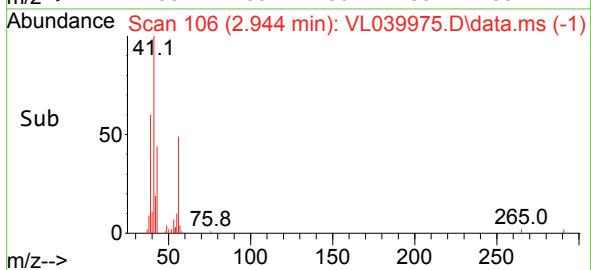
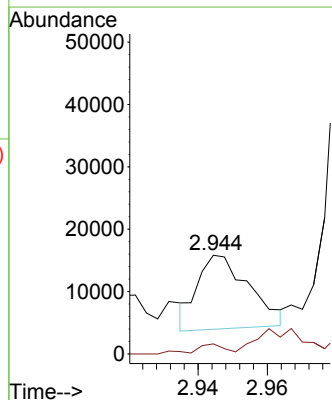
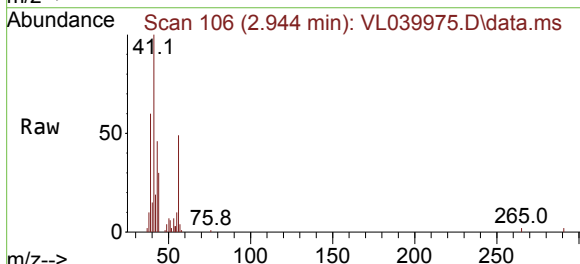
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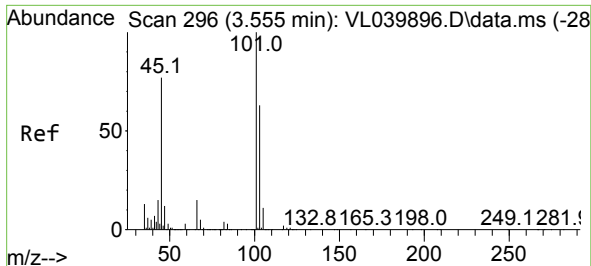
Tgt Ion: 39 Resp: 12194

Ion Ratio Lower Upper

39 100

54 74.9 66.6 99.8

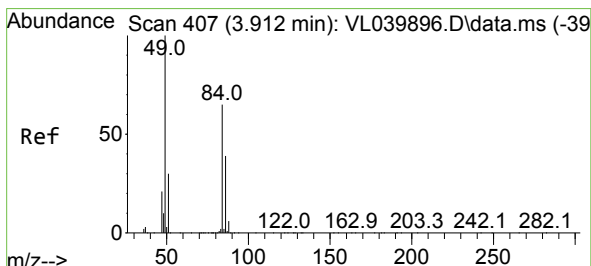
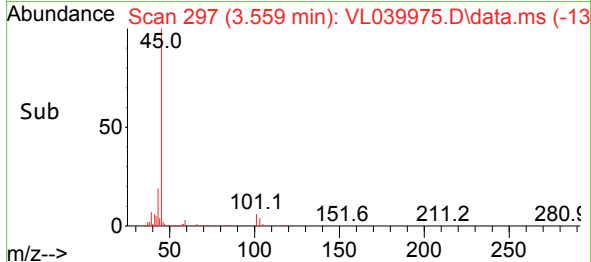
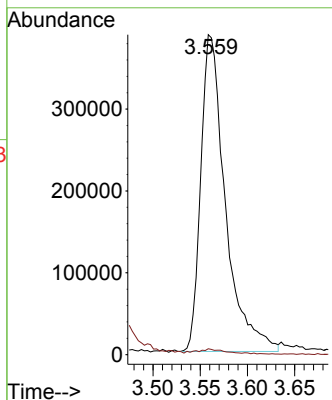
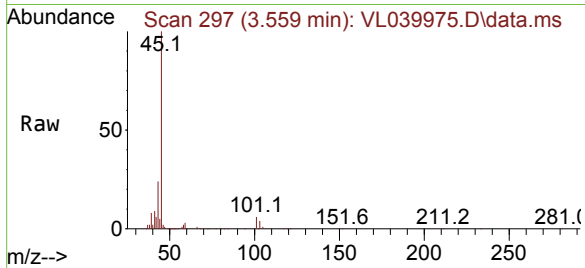




#19
Isopropyl Alcohol
Concen: 8.522 ppbv
RT: 3.559 min Scan# 296
Delta R.T. 0.016 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

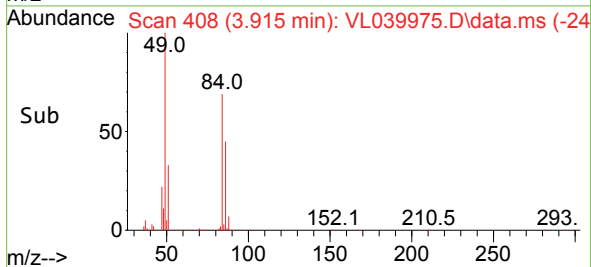
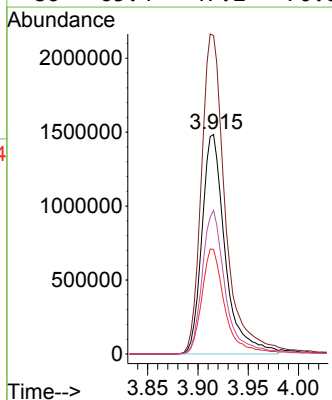
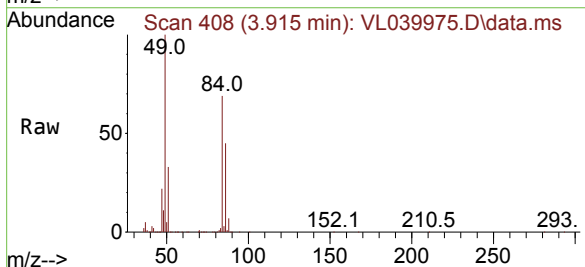
Instrument :
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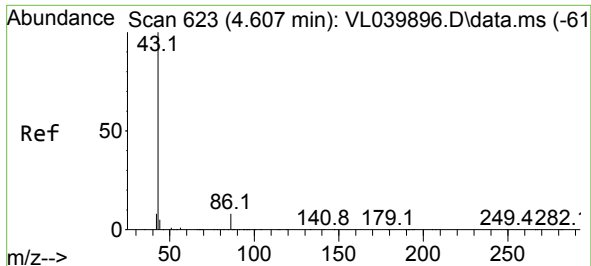
Tgt Ion: 45 Resp: 700670
Ion Ratio Lower Upper
45 100
58 2.1 38.7 58.1#



#20
Methylene Chloride
Concen: 32.449 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.020 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 84 Resp: 2387201
Ion Ratio Lower Upper
84 100
49 144.9 122.2 183.4
51 47.6 36.3 54.5
86 65.4 47.2 70.8

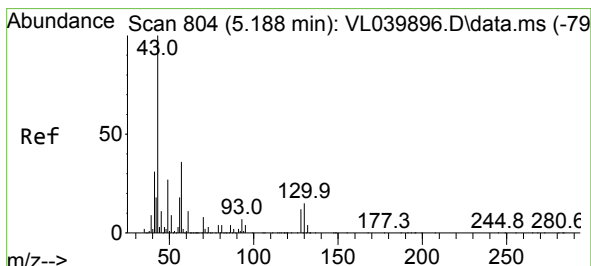
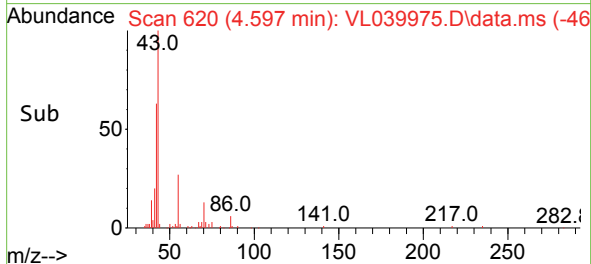
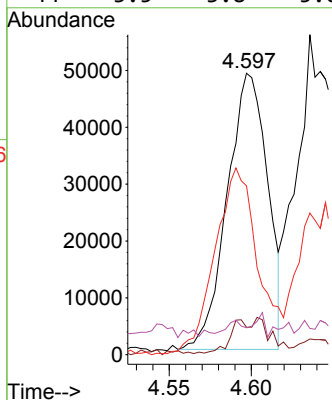
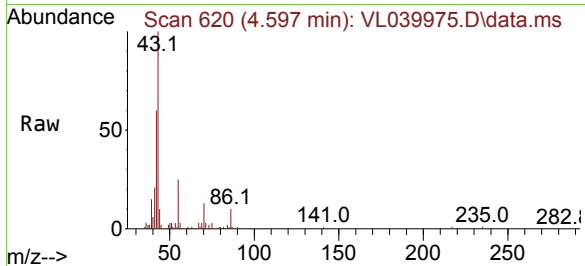




#23
 Vinyl Acetate
 Concen: 1.331 ppbv
 RT: 4.597 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL039975.D
 Acq: 12 Dec 2022 14:29

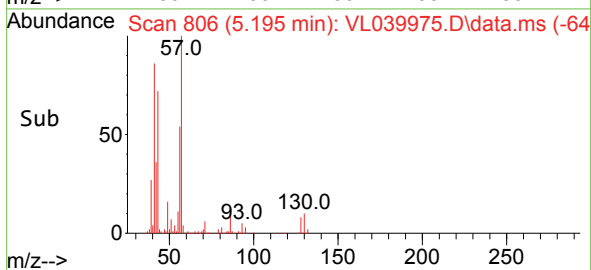
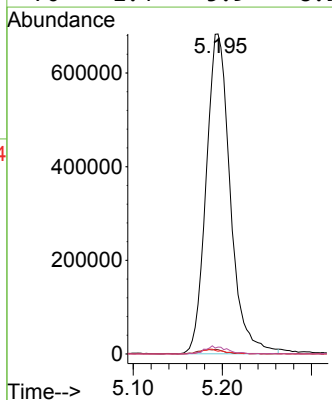
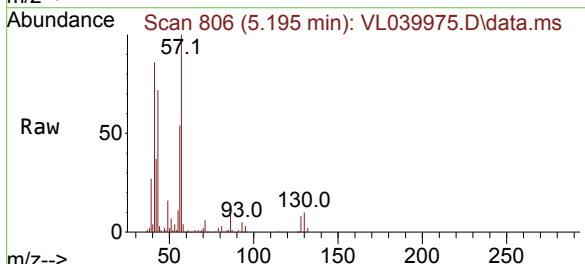
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

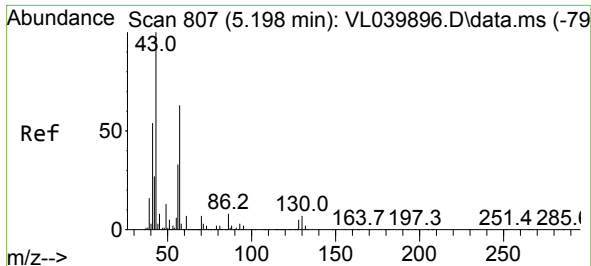
Tgt Ion: 43	Resp: 83061
Ion Ratio	Lower Upper
43 100	
86 8.5	5.0 7.4#
42 59.9	7.6 11.4#
44 3.5	3.8 5.6#



#25
 Ethyl Acetate
 Concen: 4.592 ppbv
 RT: 5.195 min Scan# 806
 Delta R.T. 0.026 min
 Lab File: VL039975.D
 Acq: 12 Dec 2022 14:29

Tgt	Ion: 43	Resp: 1280363	
Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.4	12.6#
61	1.4	8.5	12.7#
70	2.4	5.9	8.9#

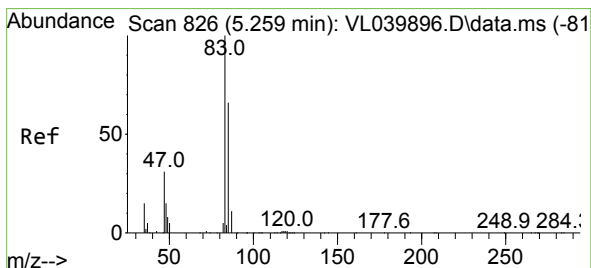
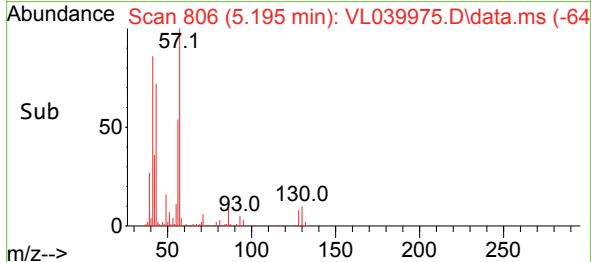
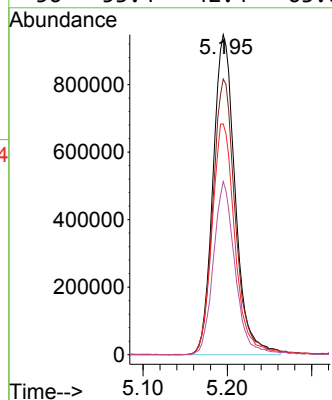
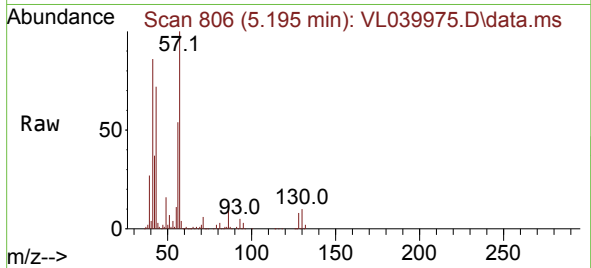




#26
Hexane
Concen: 14.202 ppbv
RT: 5.195 min Scan# 807
Delta R.T. 0.020 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

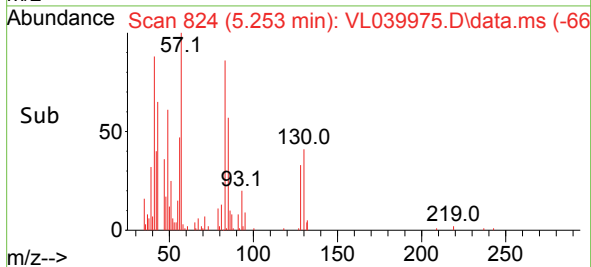
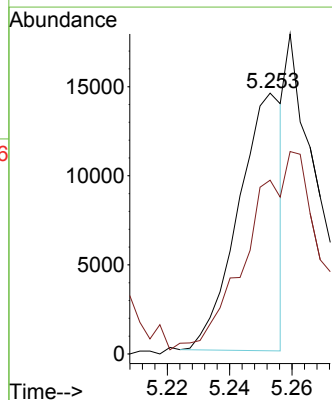
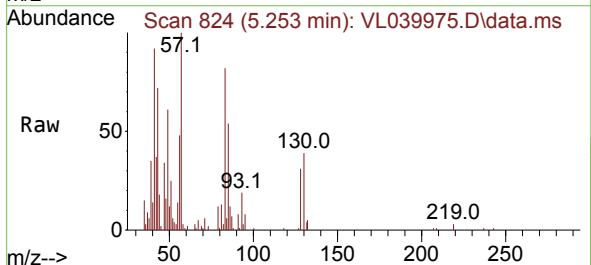
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

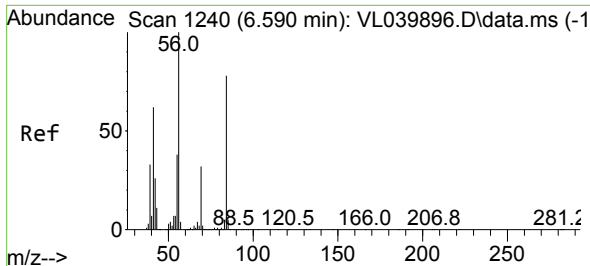
Tgt Ion: 57 Resp: 1729682
Ion Ratio Lower Upper
57 100
41 88.0 72.3 108.5
43 75.0 188.7 283.1#
56 53.4 42.4 63.6



#29
Chloroform
Concen: 0.087 ppbv
RT: 5.253 min Scan# 824
Delta R.T. 0.016 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 83 Resp: 14141
Ion Ratio Lower Upper
83 100
85 63.6 52.4 78.6

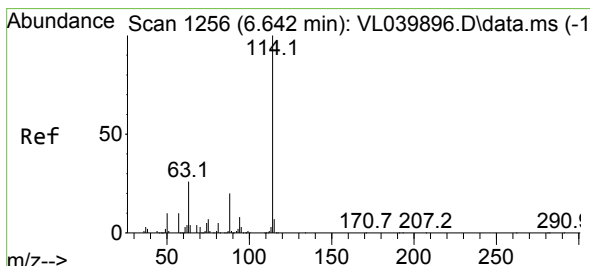
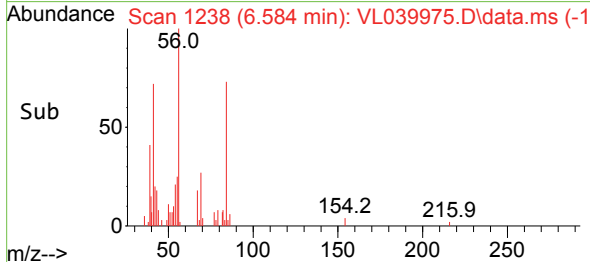
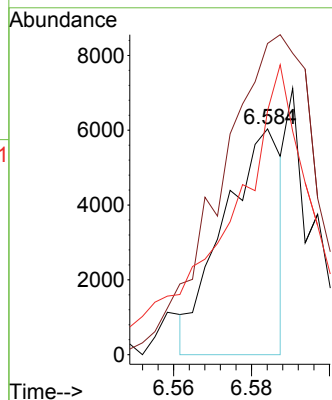
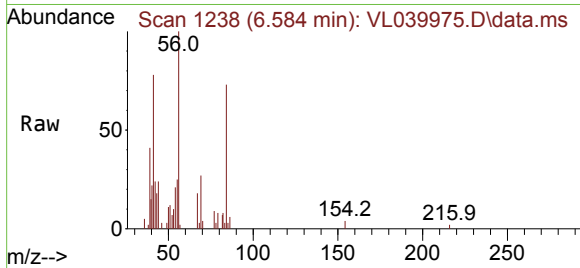




#30
Cyclohexane
Concen: 0.052 ppbv
RT: 6.584 min Scan# 11
Delta R.T. 0.020 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

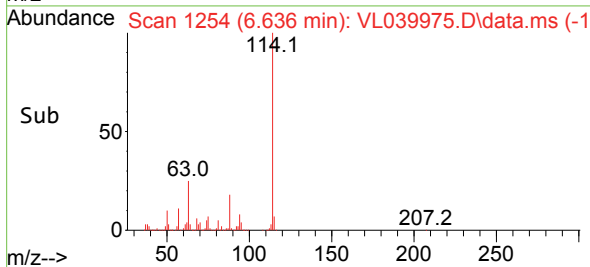
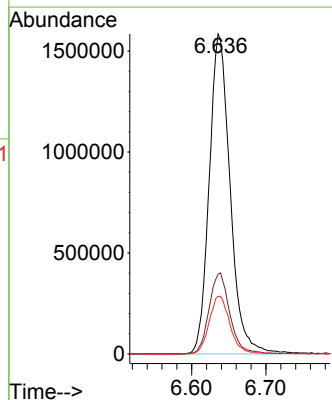
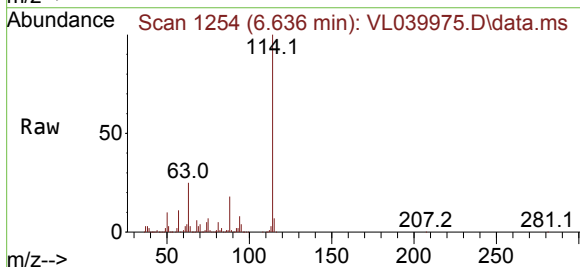
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

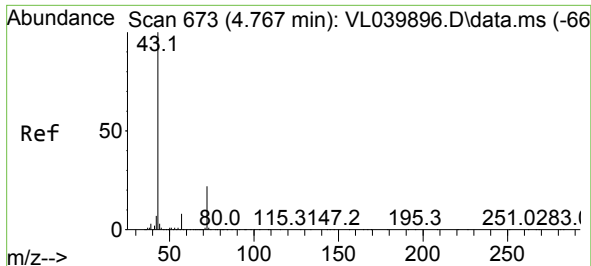
Tgt Ion: 84 Resp: 6182
Ion Ratio Lower Upper
84 100
56 0.0 112.5 168.7#
41 0.0 67.8 101.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.636 min Scan# 1254
Delta R.T. 0.016 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 114 Resp: 3094285
Ion Ratio Lower Upper
114 100
63 25.2 21.4 32.0
88 18.2 15.3 22.9

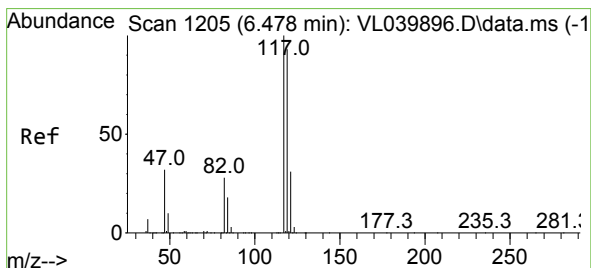
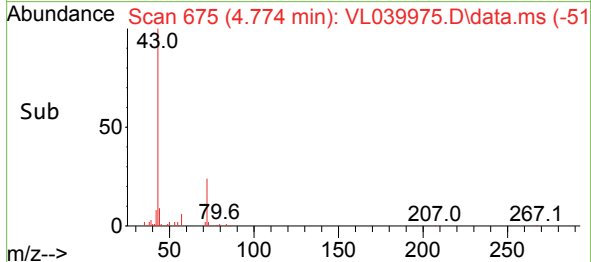
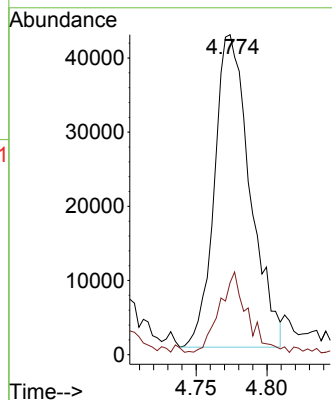
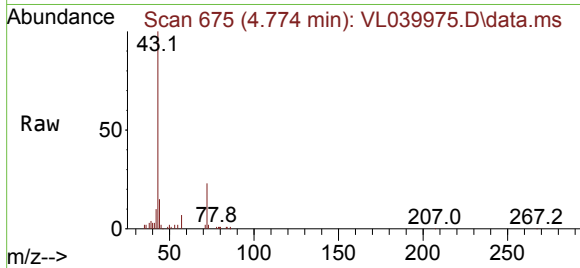




#34
2-Butanone
Concen: 0.498 ppbv
RT: 4.774 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

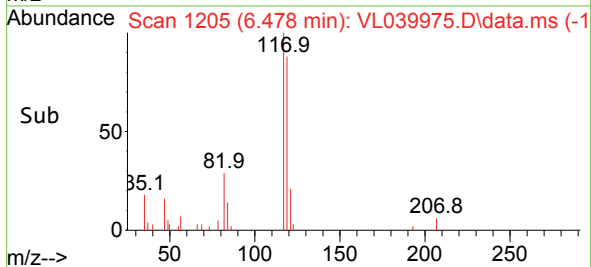
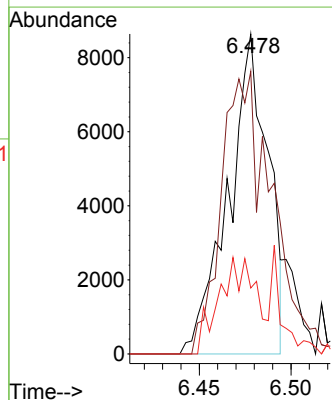
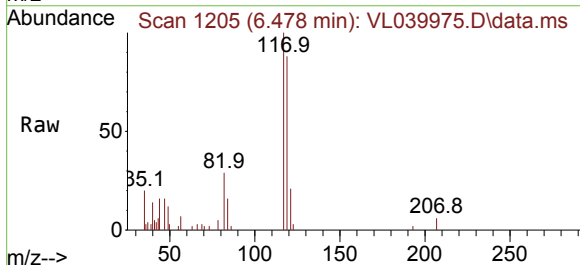
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

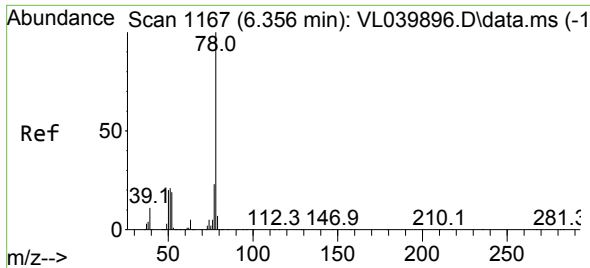
Tgt Ion: 43 Resp: 73747
Ion Ratio Lower Upper
43 100
72 23.6 17.4 26.2



#35
Carbon Tetrachloride
Concen: 0.074 ppbv
RT: 6.478 min Scan# 1205
Delta R.T. 0.023 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 117 Resp: 12932
Ion Ratio Lower Upper
117 100
119 88.3 74.7 112.1
121 20.6 24.5 36.7#

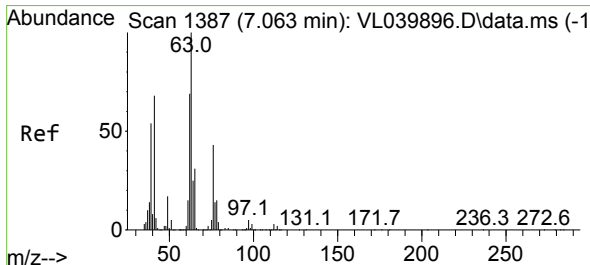
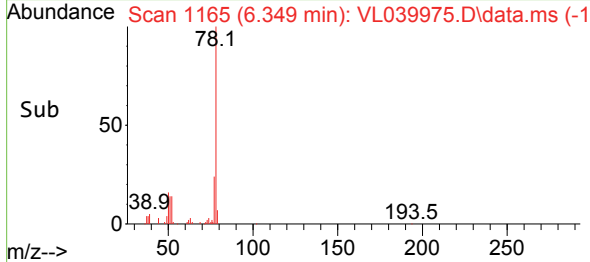
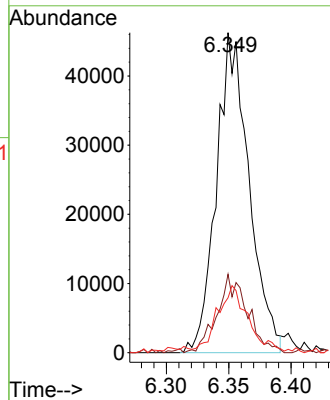
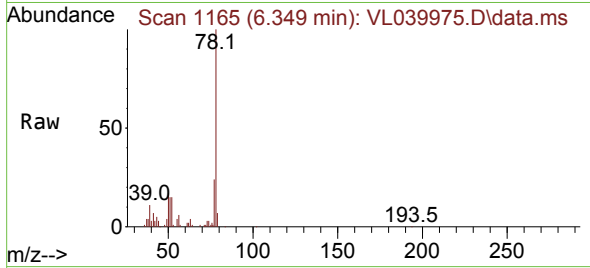




#36
Benzene
Concen: 0.320 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.016 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

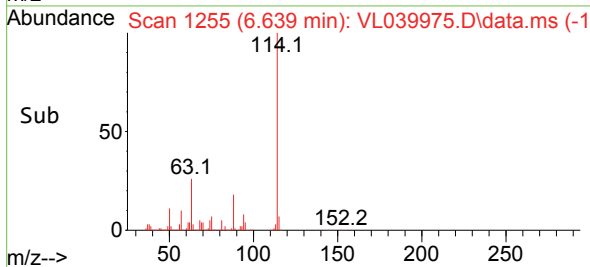
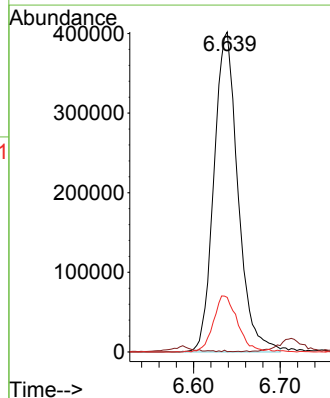
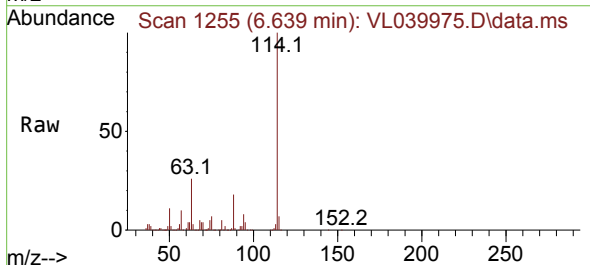
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

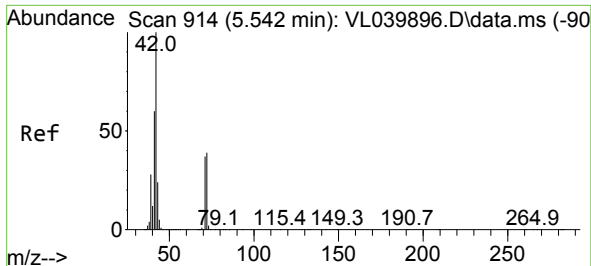
Tgt Ion: 78 Resp: 84167
Ion Ratio Lower Upper
78 100
77 23.5 18.2 27.2
50 15.1 15.8 23.8#



#39
1,2-Dichloropropane
Concen: 7.559 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.395 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 63 Resp: 774609
Ion Ratio Lower Upper
63 100
41 0.0 54.7 82.1#
62 17.0 55.0 82.6#

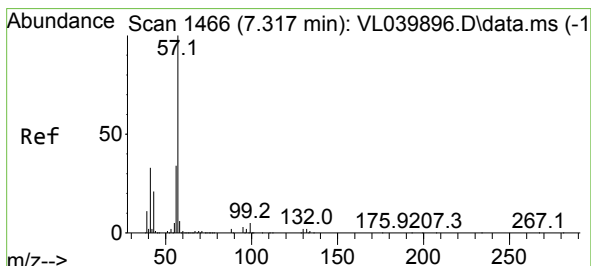
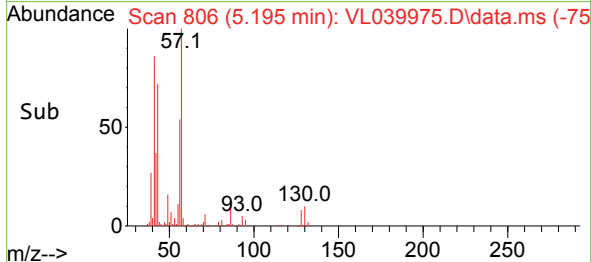
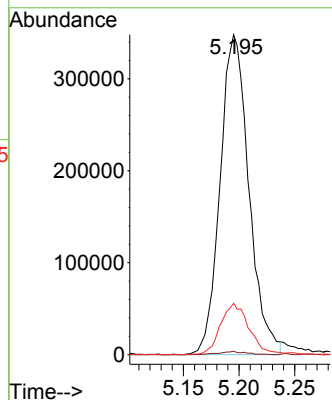
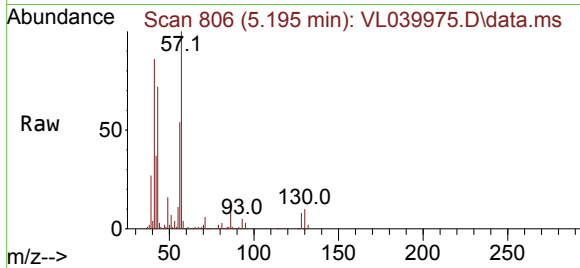




#41
Tetrahydrofuran
Concen: 6.111 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.325 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

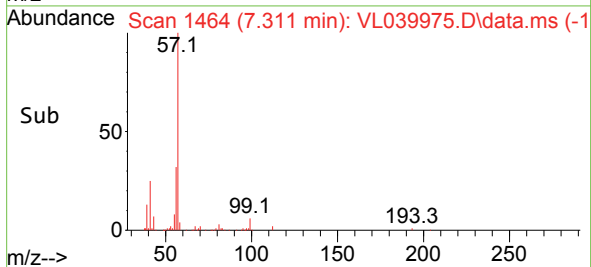
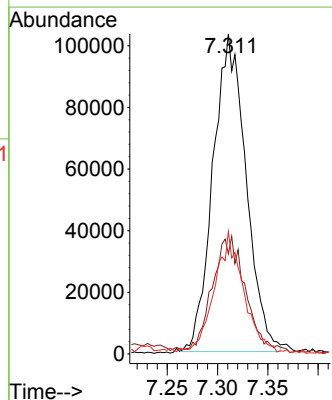
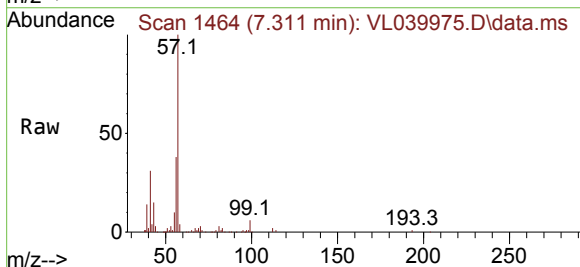
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

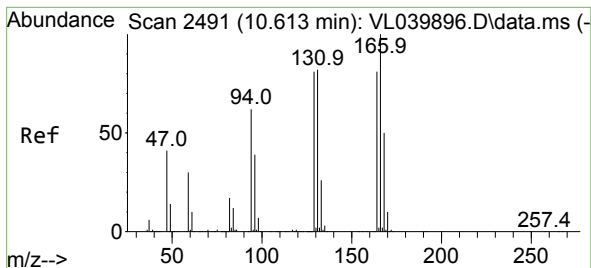
Tgt Ion: 42 Resp: 624605
Ion Ratio Lower Upper
42 100
72 1.0 31.6 47.4#
71 16.4 31.2 46.8#



#44
2,2,4-Trimethylpentane
Concen: 0.536 ppbv
RT: 7.311 min Scan# 1464
Delta R.T. 0.020 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 57 Resp: 235249
Ion Ratio Lower Upper
57 100
41 38.5 26.2 39.2
56 35.8 25.5 38.3

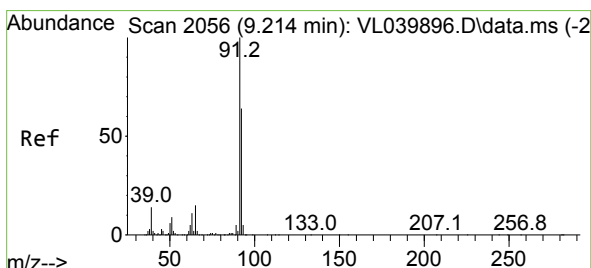
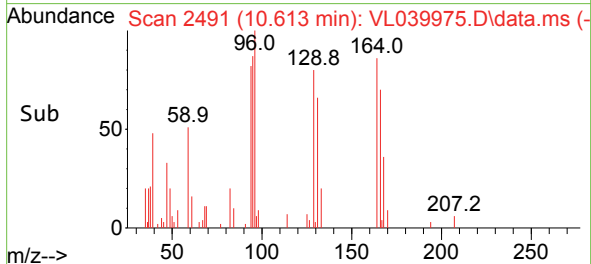
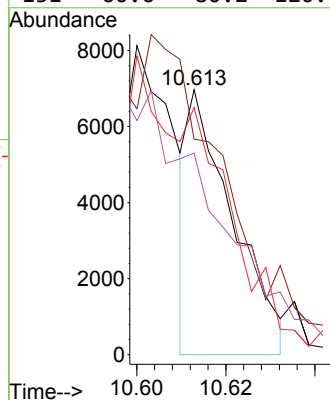
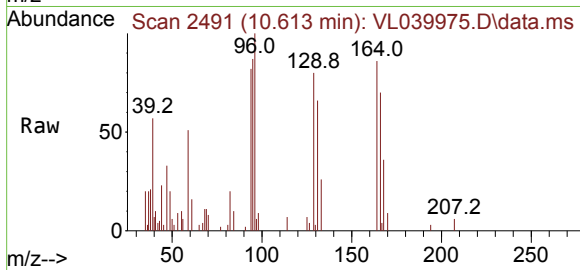




#52
Tetrachloroethene
Concen: 0.049 ppbv
RT: 10.613 min Scan# 2491
Delta R.T. 0.032 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

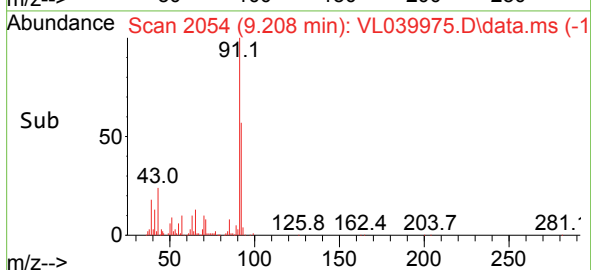
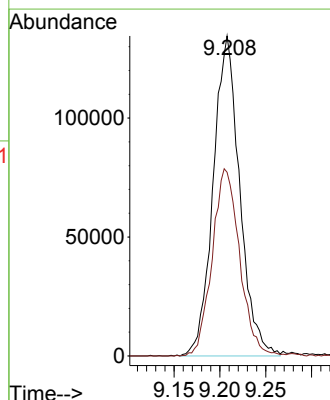
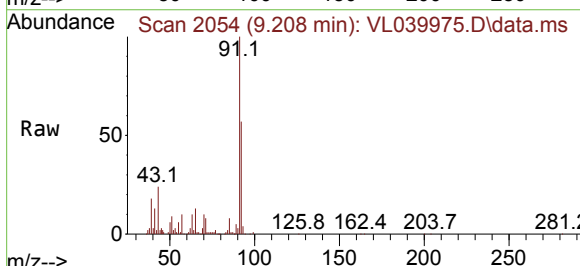
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

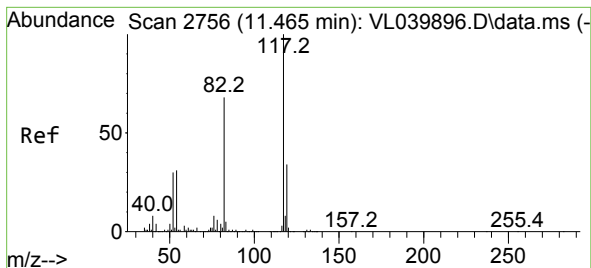
Tgt Ion:164 Resp: 4859
Ion Ratio Lower Upper
164 100
166 55.1 98.3 147.5#
129 100.2 79.7 119.5
131 60.6 80.2 120.4#



#53
Toluene
Concen: 0.903 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. 0.023 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 91 Resp: 270482
Ion Ratio Lower Upper
91 100
92 61.0 49.8 74.6

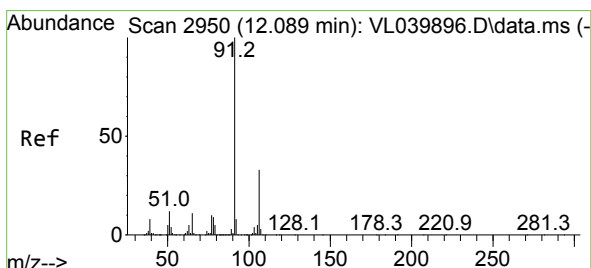
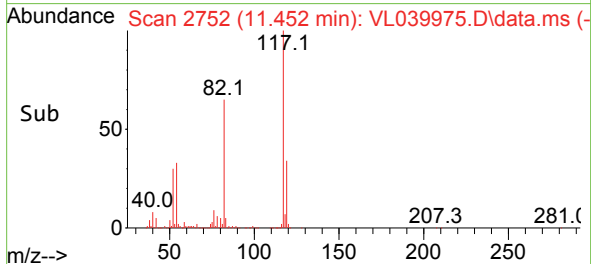
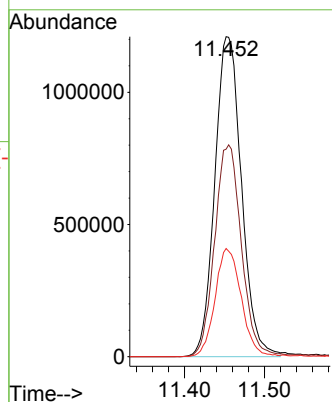
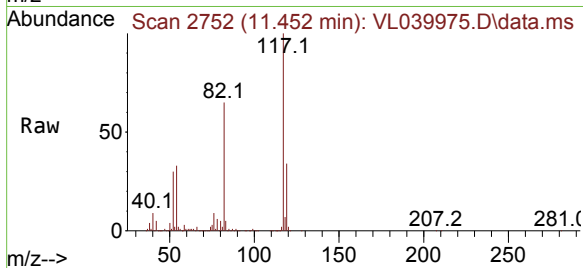




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. 0.020 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

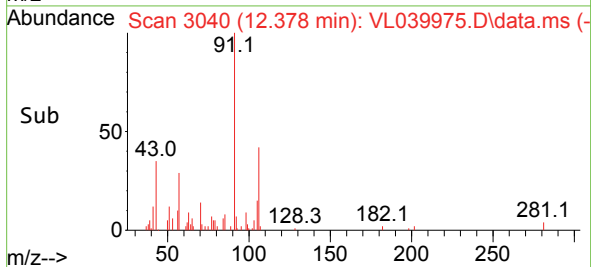
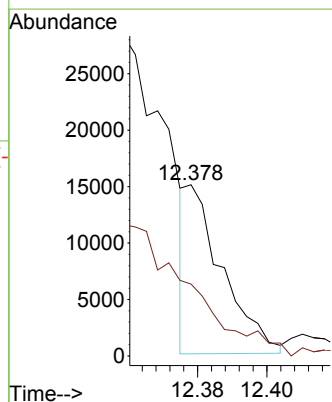
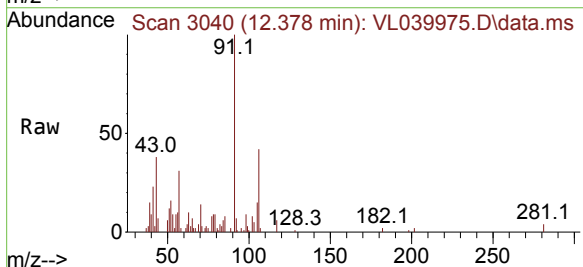
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

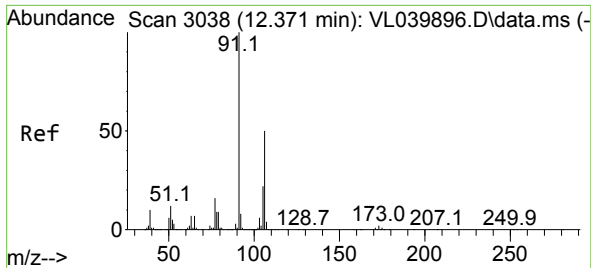
Tgt Ion:117 Resp: 2804765
Ion Ratio Lower Upper
117 100
82 67.4 52.3 78.5
119 33.4 25.7 38.5



#58
Ethyl Benzene
Concen: 0.028 ppbv
RT: 12.378 min Scan# 3040
Delta R.T. 0.322 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 91 Resp: 10786
Ion Ratio Lower Upper
91 100
106 36.7 26.1 39.1





#59

m/p-Xylene

Concen: 0.034 ppbv

RT: 12.368 min Scan# 3037

Delta R.T. 0.029 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

Instrument :

MSVOA_L

ClientSampleId :

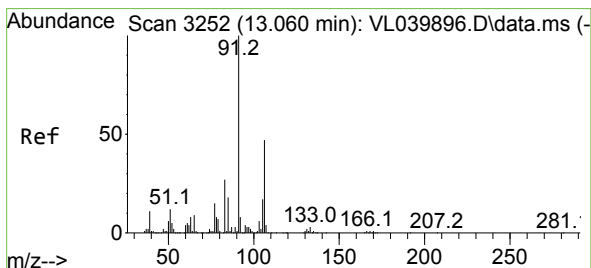
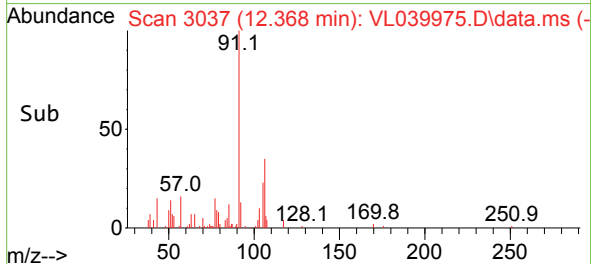
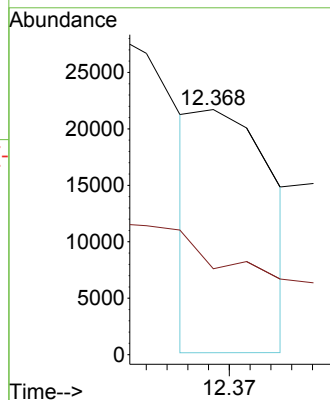
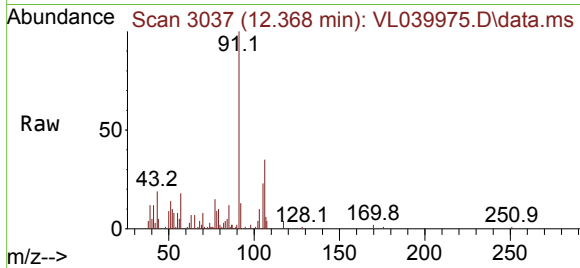
IA-2DUP

Tgt Ion: 91 Resp: 10829

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#



#60

o-Xylene

Concen: 0.152 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. 0.020 min

Lab File: VL039975.D

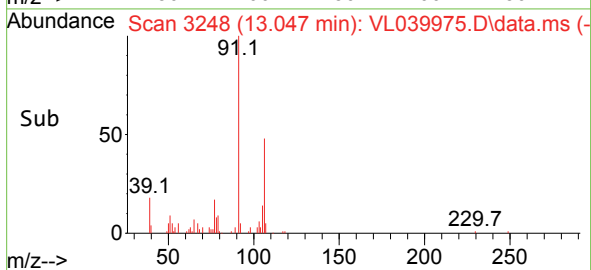
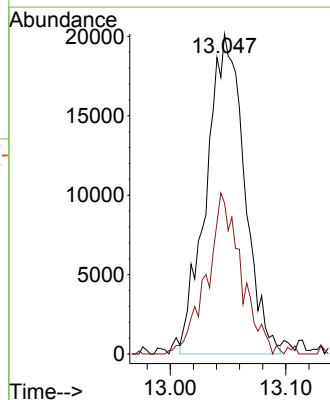
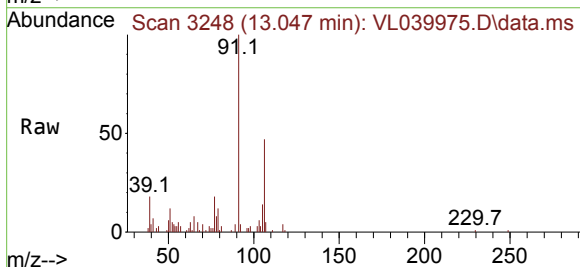
Acq: 12 Dec 2022 14:29

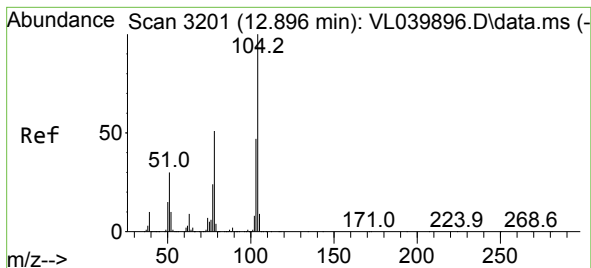
Tgt Ion: 91 Resp: 46131

Ion Ratio Lower Upper

91 100

106 45.3 23.2 69.6





#61

Styrene

Concen: 0.026 ppbv

RT: 12.886 min Scan# 3198

Delta R.T. 0.023 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

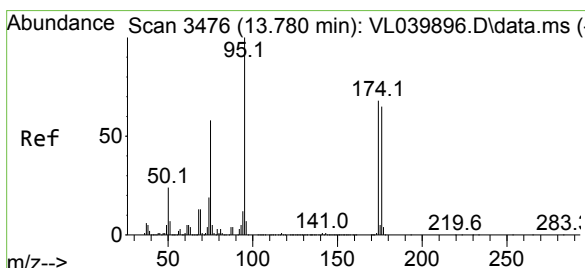
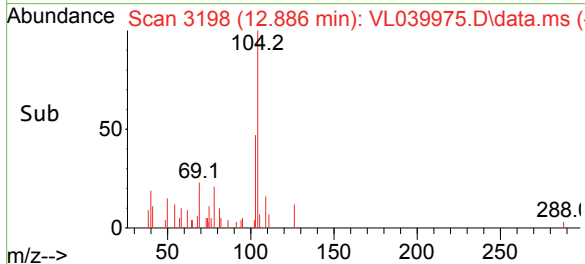
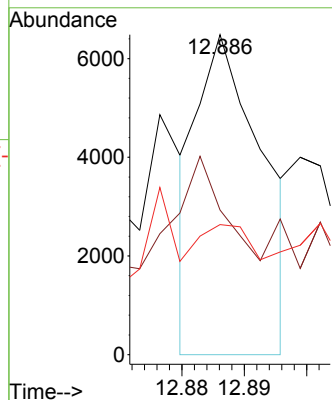
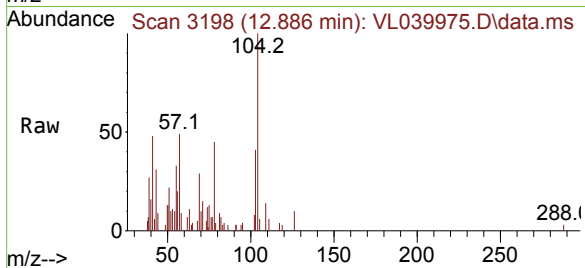
Tgt Ion:104 Resp: 4701

Ion Ratio Lower Upper

104 100

78 171.5 41.8 62.8#

103 0.0 37.2 55.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.755 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. 0.026 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

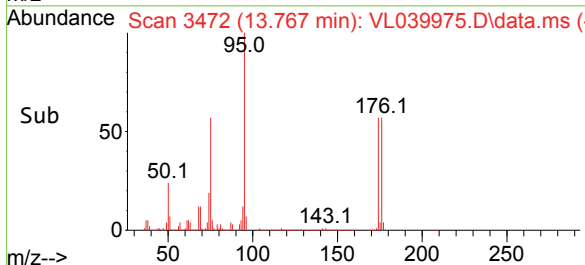
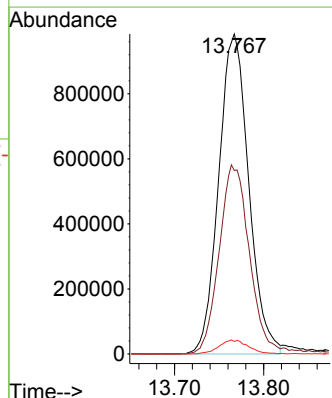
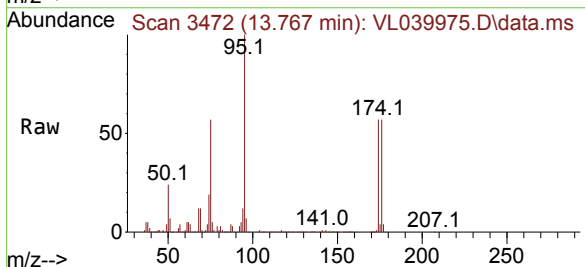
Tgt Ion: 95 Resp: 2303959

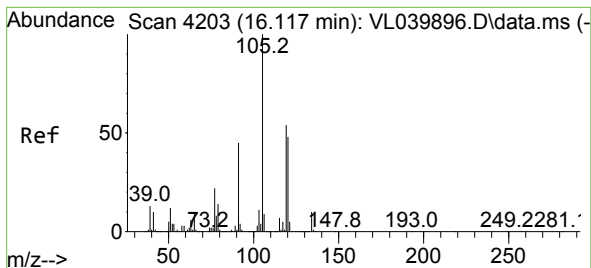
Ion Ratio Lower Upper

95 100

174 61.3 53.7 80.5

175 4.4 4.0 6.0





#74

1,2,4-Trimethylbenzene

Concen: 0.041 ppbv

RT: 16.105 min Scan# 41

Delta R.T. 0.029 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tgt Ion:105 Resp: 13577

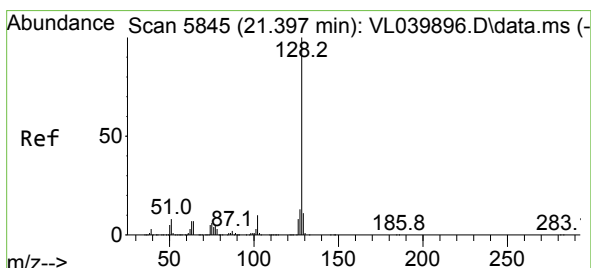
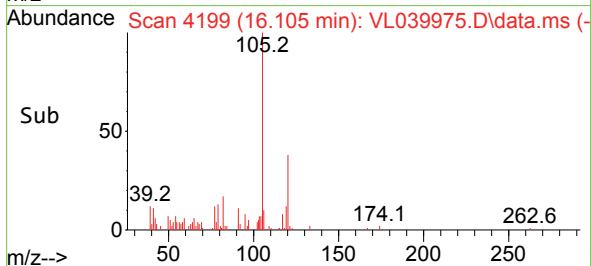
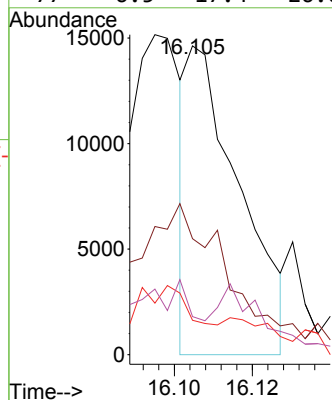
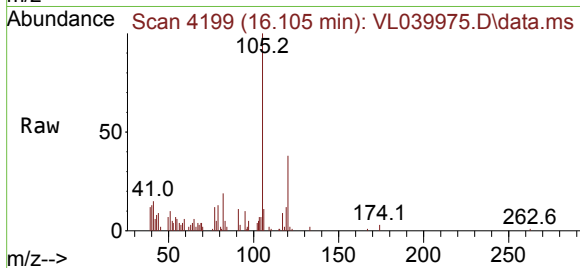
Ion Ratio Lower Upper

105 100

120 38.4 38.7 58.1#

91 7.1 36.4 54.6#

77 6.5 17.4 26.0#



#79

Naphthalene

Concen: 0.143 ppbv

RT: 21.387 min Scan# 5842

Delta R.T. 0.039 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

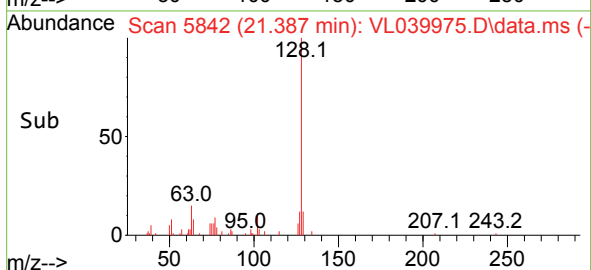
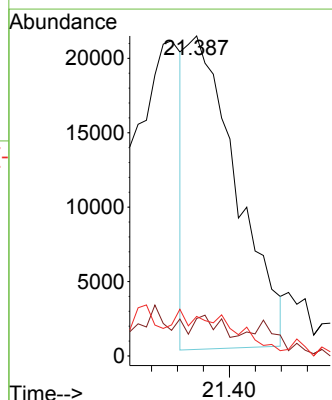
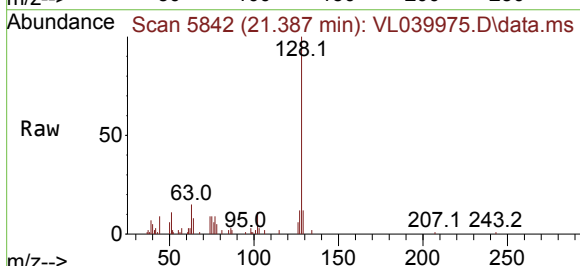
Tgt Ion:128 Resp: 28328

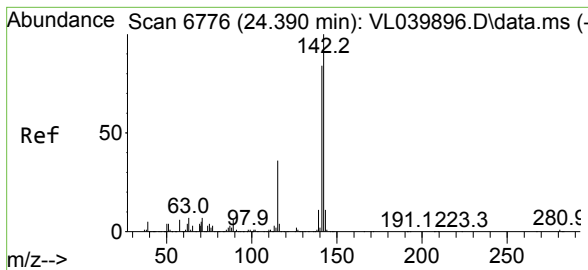
Ion Ratio Lower Upper

128 100

127 6.3 10.0 15.0#

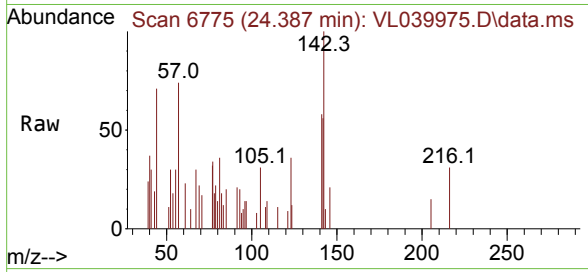
129 13.1 8.8 13.2





#80
 Naphthalene, 2-methyl-
 Concen: 0.074 ppbv
 RT: 24.387 min Scan# 61
 Delta R.T. 0.039 min
 Lab File: VL039975.D
 Acq: 12 Dec 2022 14:29

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP



Tgt Ion:	142	Resp:	4108
Ion	Ratio	Lower	Upper
142	100		
141	57.2	69.1	103.7#
115	37.9	29.6	44.4

