

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021524\
 Data File : VL041070.D
 Acq On : 15 Feb 2024 14:11
 Operator : SY/MD
 Sample : P1490-04DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Quant Time: Feb 16 04:08:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Feb 16 04:05:22 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1109993	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	2924174	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2439398	10.000	ppbv	0.00

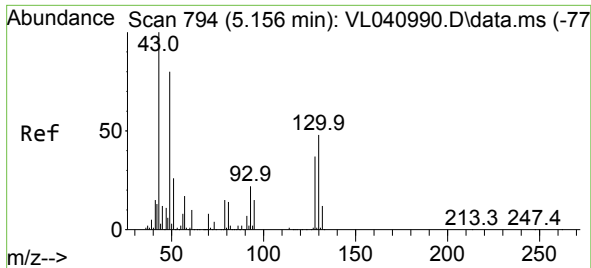
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1880783	10.208	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.713	85	68180	0.278	ppbv	98
3) Chlorodifluoromethane	2.655	51	44542	0.239	ppbv	100
4) Chloromethane	2.796	50	41803	0.597	ppbv	96
8) Dichlorotetrafluoroethane	2.835	85	4198	0.023	ppbv #	81
9) Propene	2.684	41	29241	0.477	ppbv #	73
11) Trichlorofluoromethane	3.546	101	41297	0.209	ppbv #	73
12) 1,1,2-Trichlorotrifluo...	4.047	101	8607	0.060	ppbv	95
13) Ethanol	3.240	45	42755	2.930	ppbv	85
15) Acetone	3.456	43	448487	3.160	ppbv	98
20) Methylene Chloride	3.919	84	441285	8.079	ppbv	98
25) Ethyl Acetate	5.198	43	133801	0.520	ppbv #	78
26) Hexane	5.202	57	179554	1.637	ppbv #	39
34) 2-Butanone	4.780	43	7940	0.057	ppbv #	54
35) Carbon Tetrachloride	6.478	117	10029	0.051	ppbv #	74
36) Benzene	6.356	78	34988	0.145	ppbv #	88
39) 1,2-Dichloropropane	6.639	63	714697	7.512	ppbv #	24
53) Toluene	9.208	91	15683	0.059	ppbv #	50

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

Quant Time: Feb 16 04:08:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Feb 16 04:05:22 2024
Response via : Initial Calibration

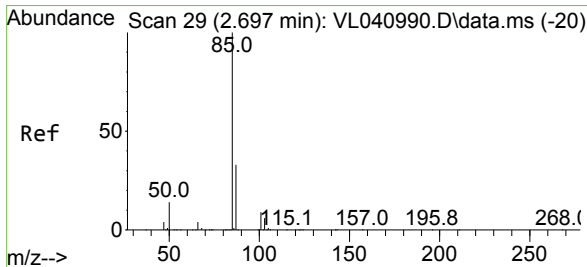
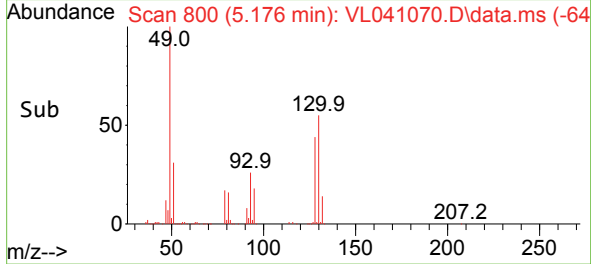
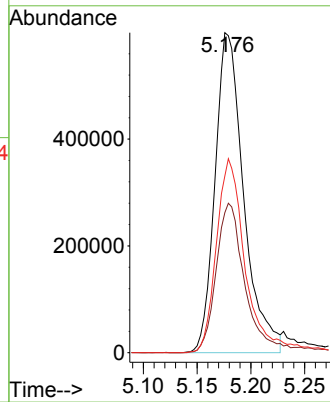
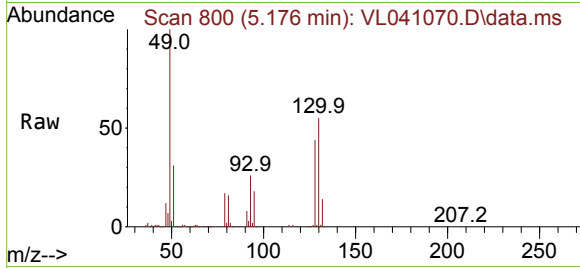




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.176 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VL041070.D
 Acq: 15 Feb 2024 14:11

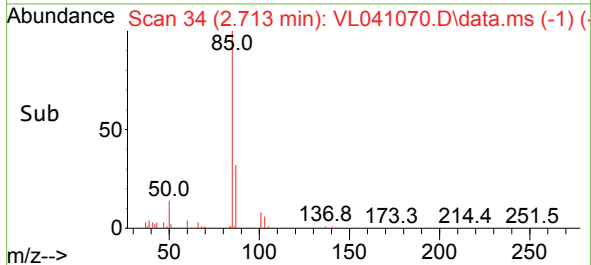
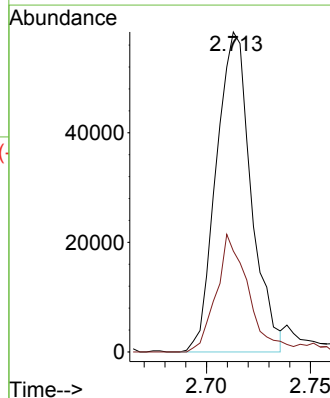
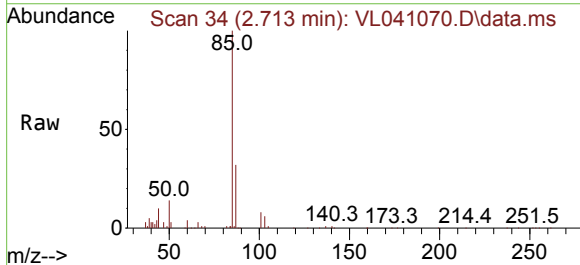
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

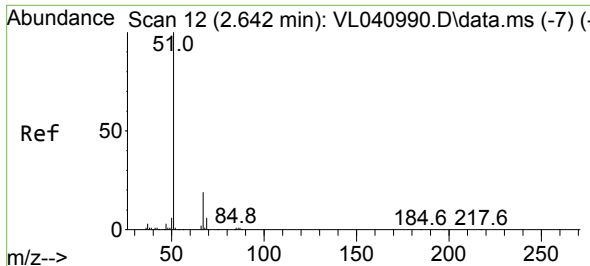
Tgt Ion: 49 Resp: 1109993
 Ion Ratio Lower Upper
 49 100
 128 50.0 23.9 71.7
 130 63.7 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.278 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. 0.007 min
 Lab File: VL041070.D
 Acq: 15 Feb 2024 14:11

Tgt Ion: 85 Resp: 68180
 Ion Ratio Lower Upper
 85 100
 87 31.6 26.3 39.5

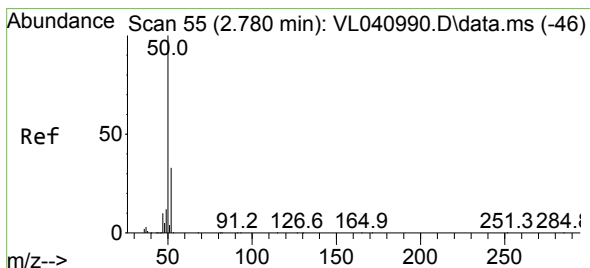
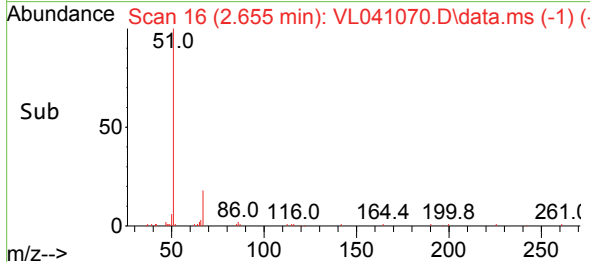
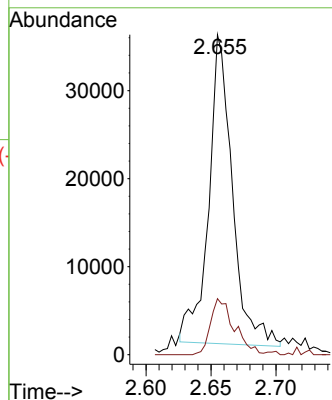
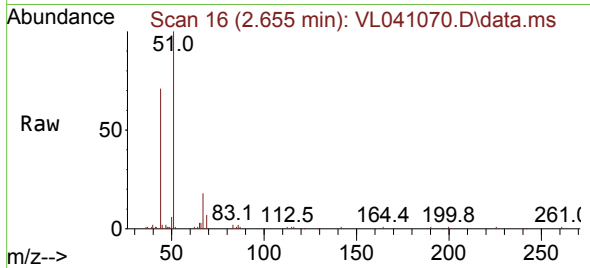




#3
Chlorodifluoromethane
Concen: 0.239 ppbv
RT: 2.655 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL041070.D
Acq: 15 Feb 2024 14:11

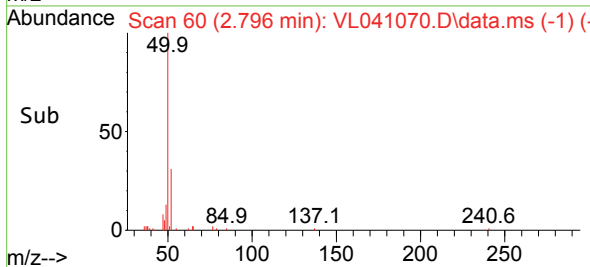
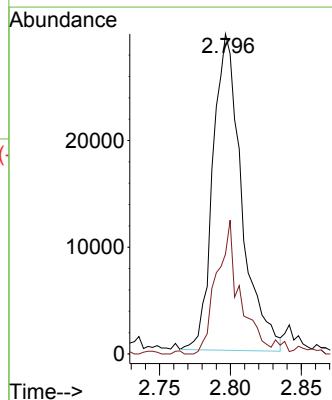
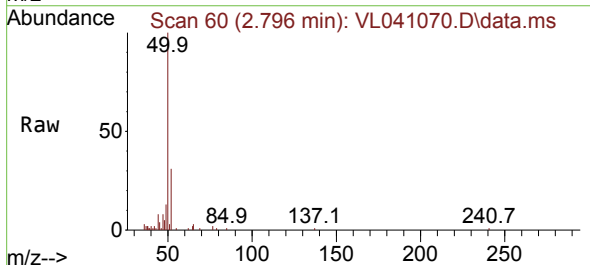
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ClientSampleId :
OA1DUP

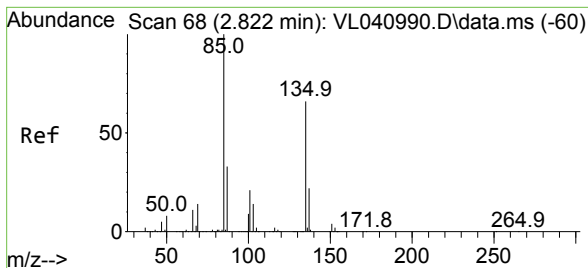
Tgt Ion: 51 Resp: 44542
Ion Ratio Lower Upper
51 100
67 18.6 14.8 22.2



#4
Chloromethane
Concen: 0.597 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.007 min
Lab File: VL041070.D
Acq: 15 Feb 2024 14:11

Tgt Ion: 50 Resp: 41803
Ion Ratio Lower Upper
50 100
52 30.7 26.2 39.4

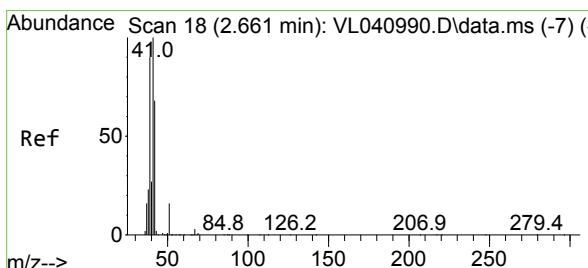
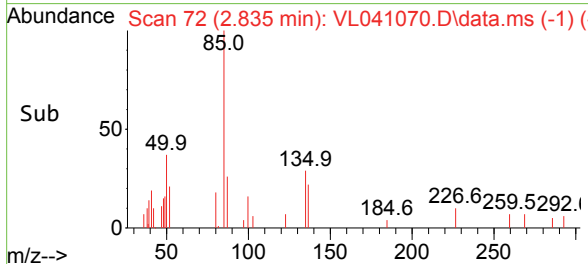
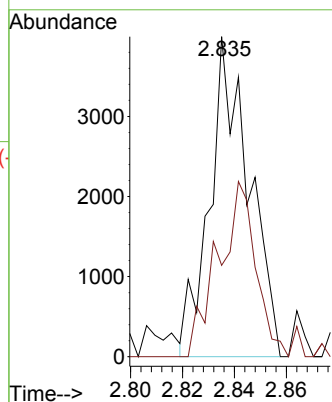
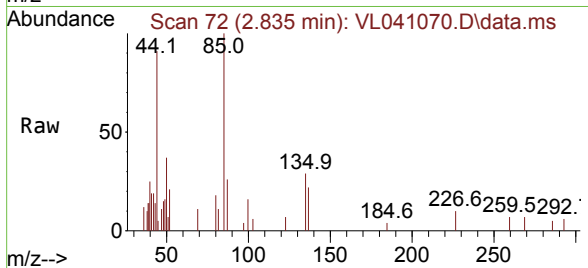




#8
 Dichlorotetrafluoroethane
 Concen: 0.023 ppbv
 RT: 2.835 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VL041070.D
 Acq: 15 Feb 2024 14:11

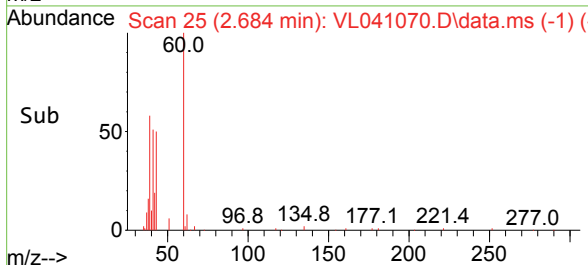
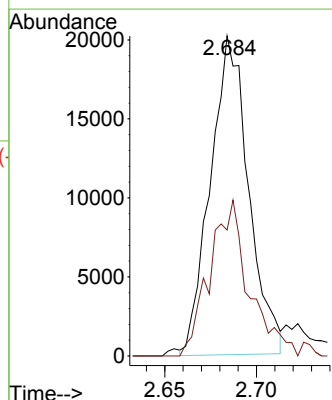
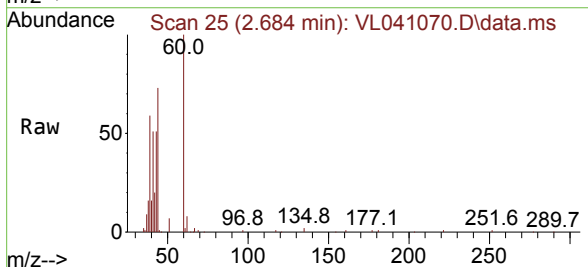
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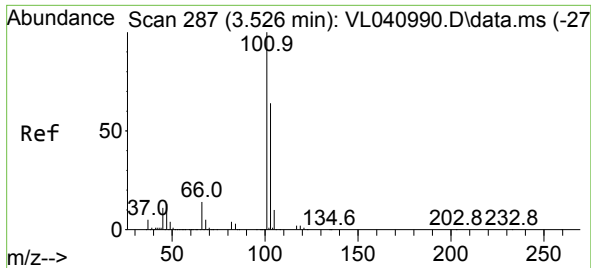
Tgt Ion: 85 Resp: 4198
 Ion Ratio Lower Upper
 85 100
 135 53.7 55.0 82.6#



#9
 Propene
 Concen: 0.477 ppbv
 RT: 2.684 min Scan# 25
 Delta R.T. 0.013 min
 Lab File: VL041070.D
 Acq: 15 Feb 2024 14:11

Tgt Ion: 41 Resp: 29241
 Ion Ratio Lower Upper
 41 100
 42 51.3 59.0 88.4#

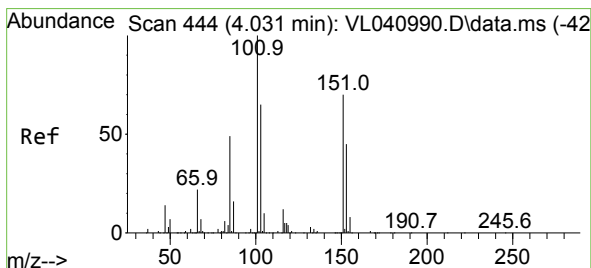
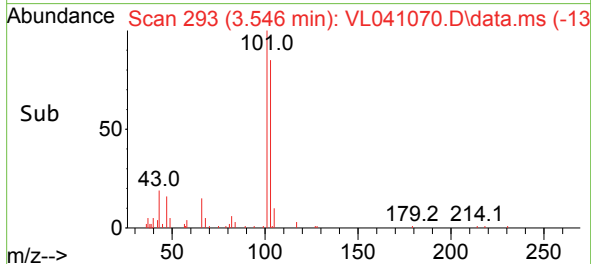
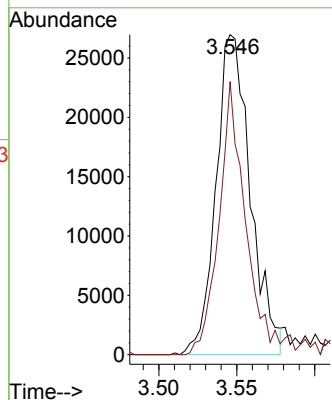
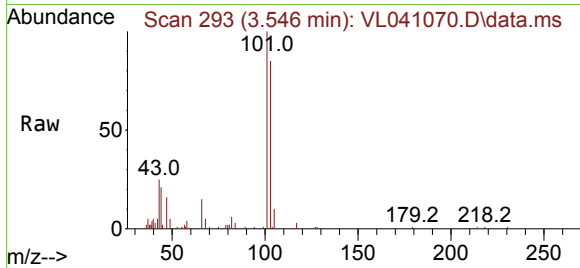




#11
 Trichlorofluoromethane
 Concen: 0.209 ppbv
 RT: 3.546 min Scan# 293
 Delta R.T. 0.003 min
 Lab File: VL041070.D
 Acq: 15 Feb 2024 14:11

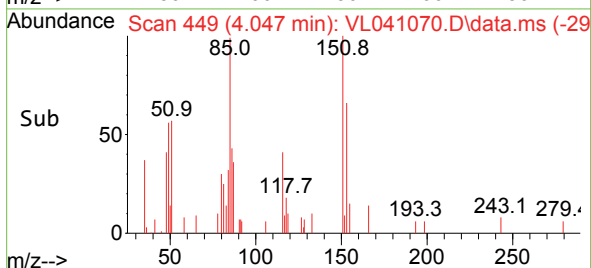
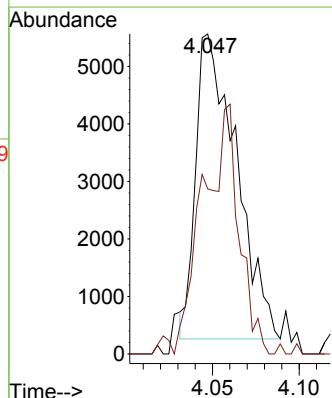
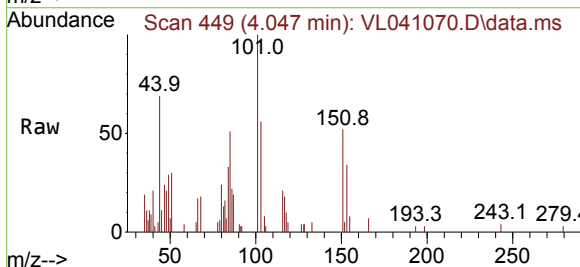
Instrument :
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 ClientSampleId :
 OA1DUP

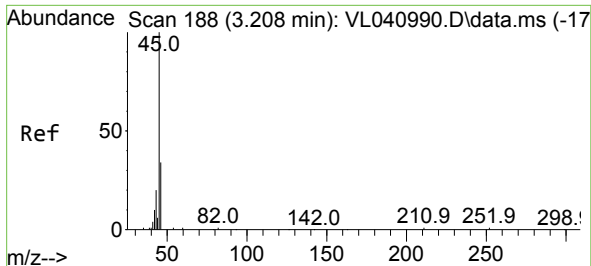
Tgt Ion:101 Resp: 41297
 Ion Ratio Lower Upper
 101 100
 103 85.3 51.4 77.2#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.060 ppbv
 RT: 4.047 min Scan# 449
 Delta R.T. 0.000 min
 Lab File: VL041070.D
 Acq: 15 Feb 2024 14:11

Tgt Ion:101 Resp: 8607
 Ion Ratio Lower Upper
 101 100
 151 74.7 56.6 85.0

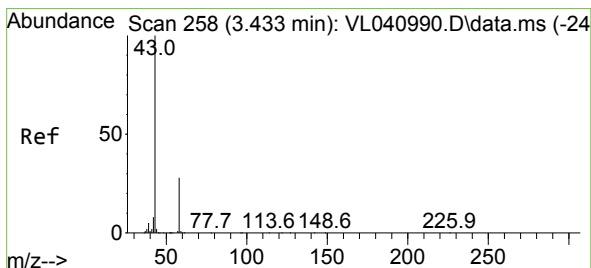
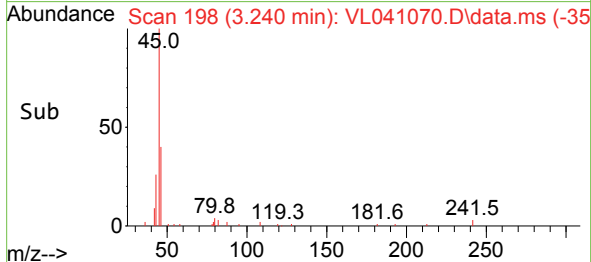
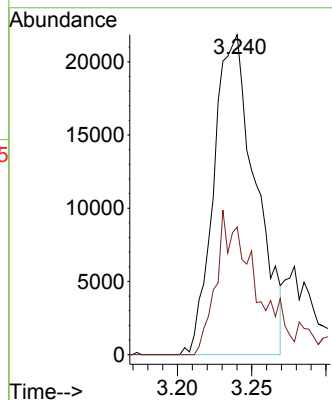
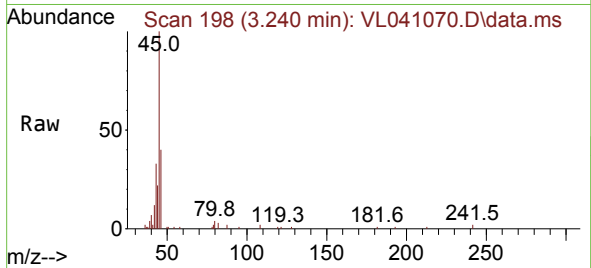




#13
 Ethanol
 Concen: 2.930 ppbv
 RT: 3.240 min Scan# 198
 Delta R.T. 0.023 min
 Lab File: VL041070.D
 Acq: 15 Feb 2024 14:11

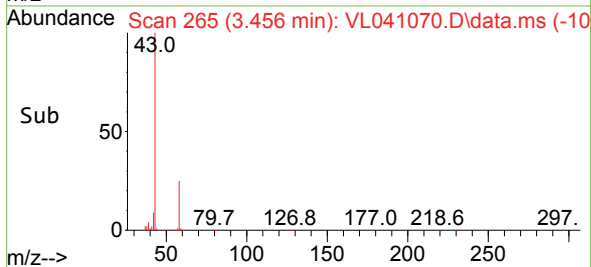
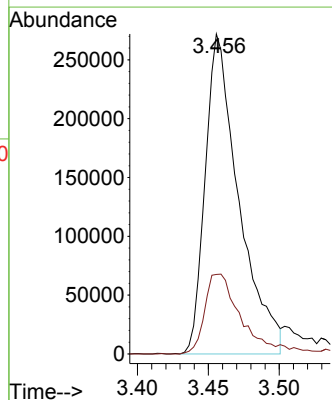
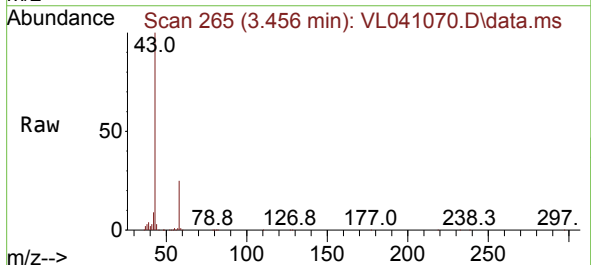
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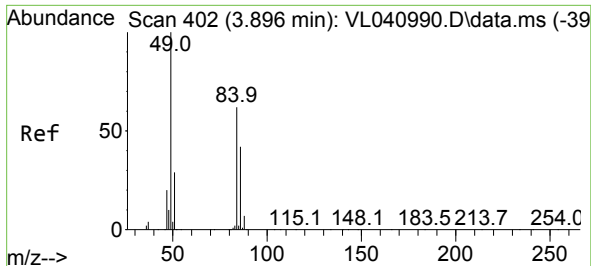
Tgt Ion: 45 Resp: 42755
 Ion Ratio Lower Upper
 45 100
 46 49.6 16.2 64.8



#15
 Acetone
 Concen: 3.160 ppbv
 RT: 3.456 min Scan# 265
 Delta R.T. 0.010 min
 Lab File: VL041070.D
 Acq: 15 Feb 2024 14:11

Tgt Ion: 43 Resp: 448487
 Ion Ratio Lower Upper
 43 100
 58 28.6 22.2 33.2

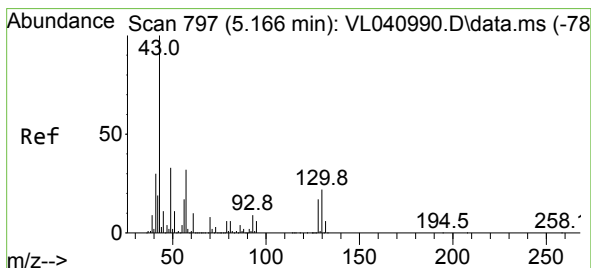
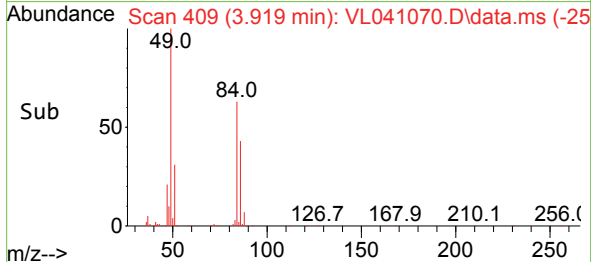
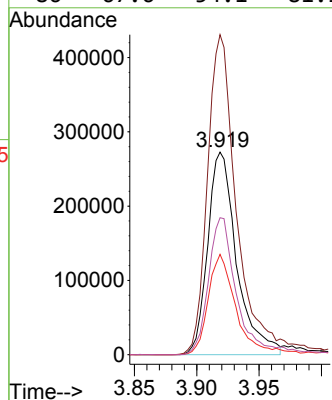
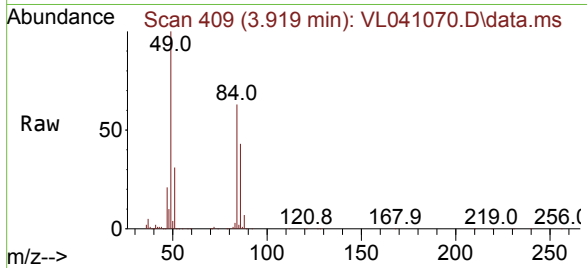




#20
Methylene Chloride
Concen: 8.079 ppbv
RT: 3.919 min Scan# 409
Delta R.T. 0.007 min
Lab File: VL041070.D
Acq: 15 Feb 2024 14:11

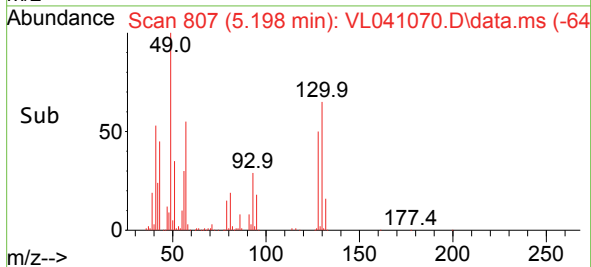
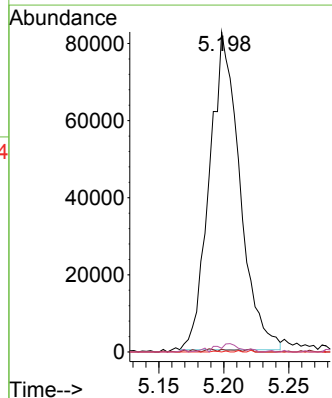
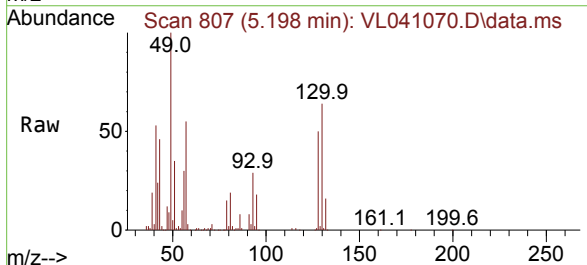
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ClientSampleId :
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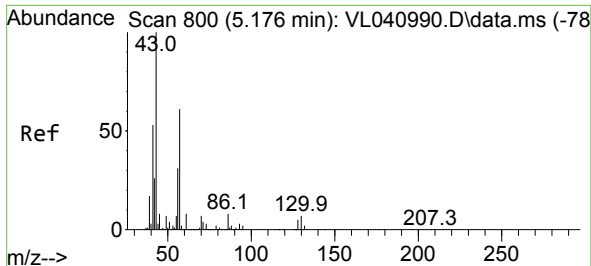
Tgt Ion: 84 Resp: 441285
Ion Ratio Lower Upper
84 100
49 157.7 128.1 192.1
51 49.3 36.5 54.7
86 67.6 54.1 81.1



#25
Ethyl Acetate
Concen: 0.520 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.013 min
Lab File: VL041070.D
Acq: 15 Feb 2024 14:11

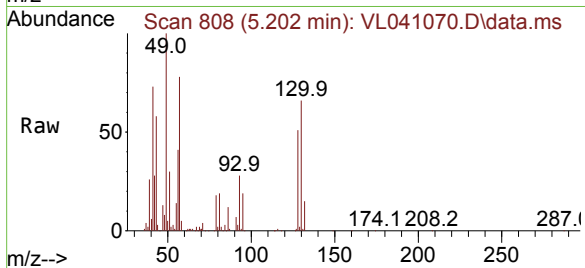
Tgt Ion: 43 Resp: 133801
Ion Ratio Lower Upper
43 100
45 1.2 8.2 12.4#
61 0.1 7.9 11.9#
70 2.4 5.4 8.2#



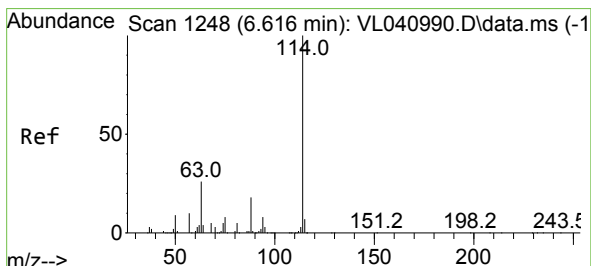
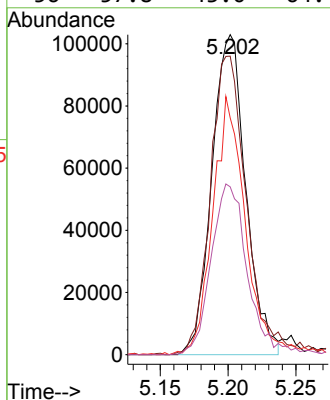
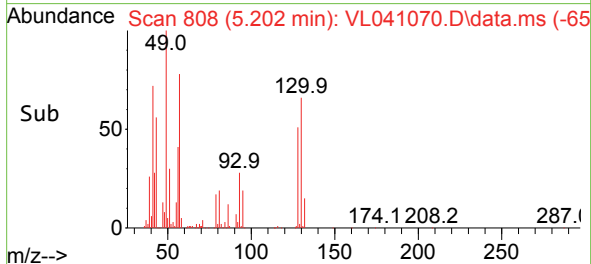


#26
Hexane
Concen: 1.637 ppbv
RT: 5.202 min Scan# 800
Delta R.T. 0.007 min
Lab File: VL041070.D
Acq: 15 Feb 2024 14:11

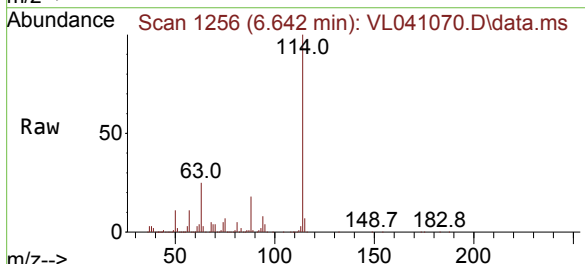
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ClientSampleId :
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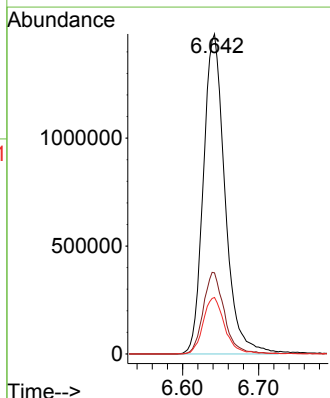
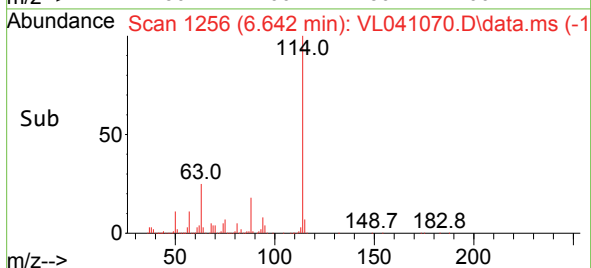
Tgt Ion: 57 Resp: 179554
Ion Ratio Lower Upper
57 100
41 101.5 74.4 111.6
43 78.5 190.6 285.8#
56 57.8 43.0 64.4

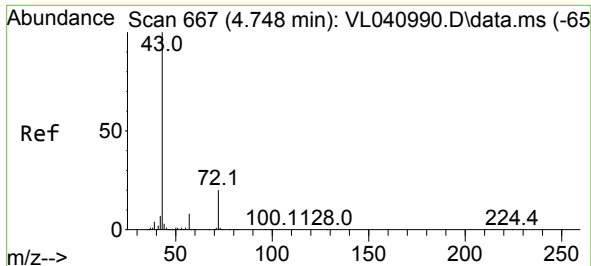


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. 0.003 min
Lab File: VL041070.D
Acq: 15 Feb 2024 14:11



Tgt Ion: 114 Resp: 2924174
Ion Ratio Lower Upper
114 100
63 25.2 20.8 31.2
88 17.8 14.3 21.5

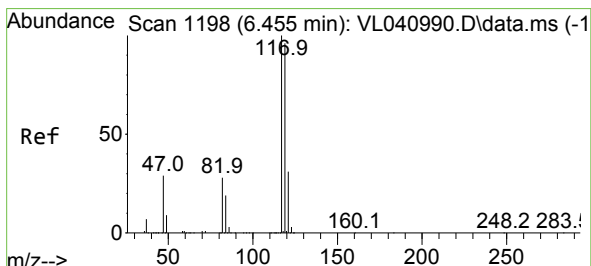
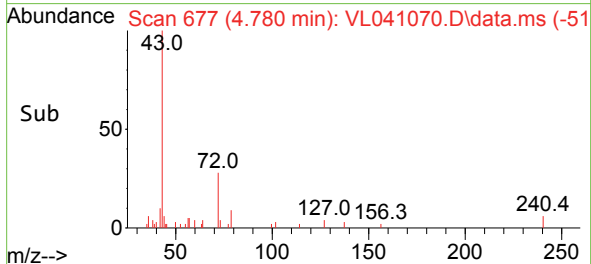
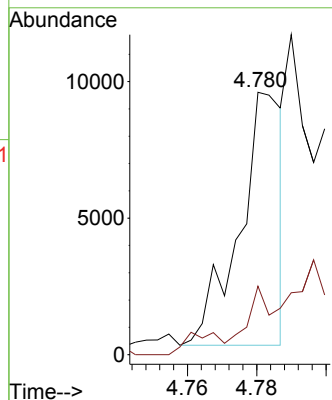
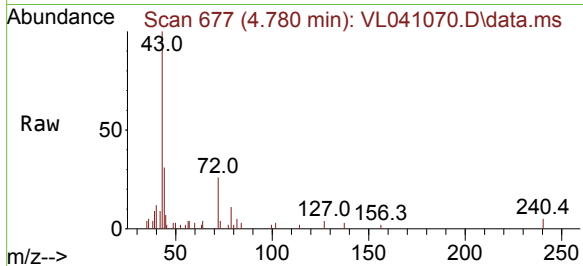




#34
2-Butanone
Concen: 0.057 ppbv
RT: 4.780 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL041070.D
Acq: 15 Feb 2024 14:11

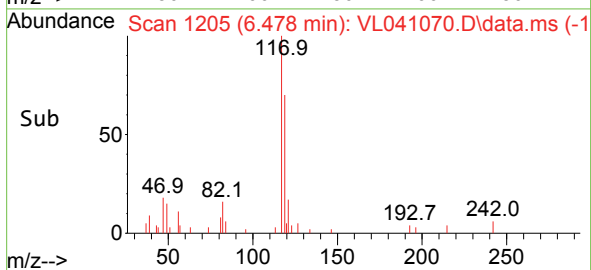
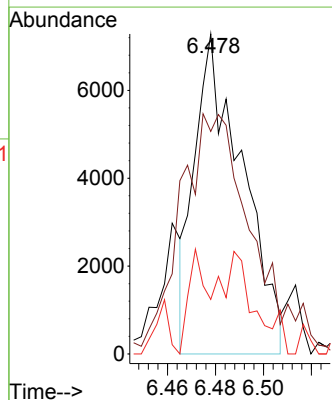
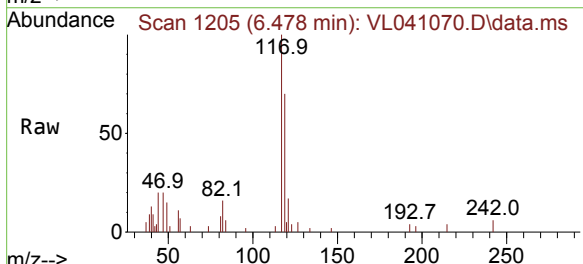
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

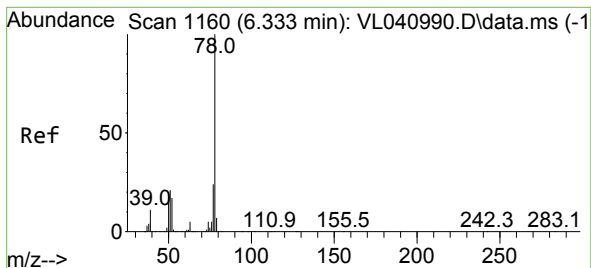
Tgt Ion: 43 Resp: 7940
Ion Ratio Lower Upper
43 100
72 0.0 17.5 26.3#



#35
Carbon Tetrachloride
Concen: 0.051 ppbv
RT: 6.478 min Scan# 1205
Delta R.T. 0.000 min
Lab File: VL041070.D
Acq: 15 Feb 2024 14:11

Tgt Ion: 117 Resp: 10029
Ion Ratio Lower Upper
117 100
119 68.6 76.9 115.3#
121 19.4 24.7 37.1#





#36

Benzene

Concen: 0.145 ppbv

RT: 6.356 min Scan# 1160

Delta R.T. 0.000 min

Lab File: VL041070.D

Acq: 15 Feb 2024 14:11

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

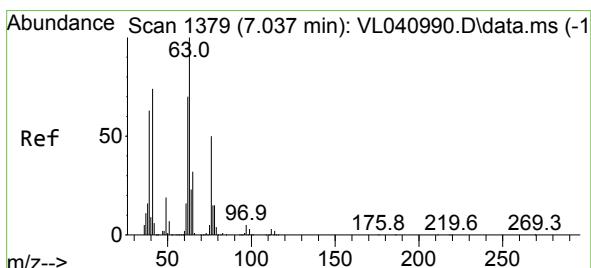
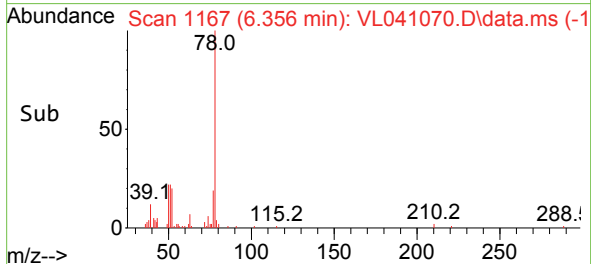
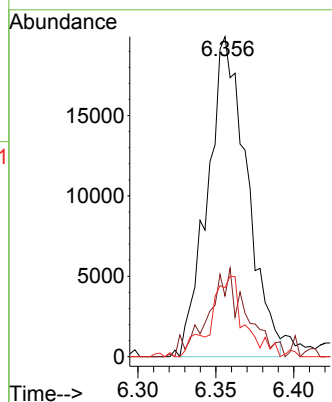
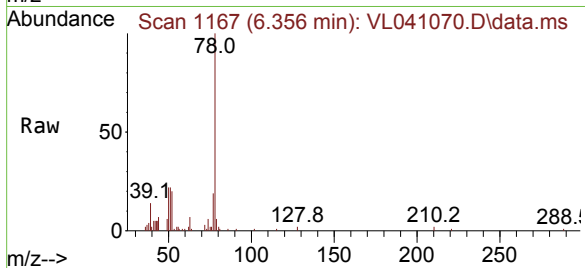
Tgt Ion: 78 Resp: 34988

Ion Ratio Lower Upper

78 100

77 14.3 19.0 28.4#

50 21.6 15.8 23.6



#39

1,2-Dichloropropane

Concen: 7.512 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.418 min

Lab File: VL041070.D

Acq: 15 Feb 2024 14:11

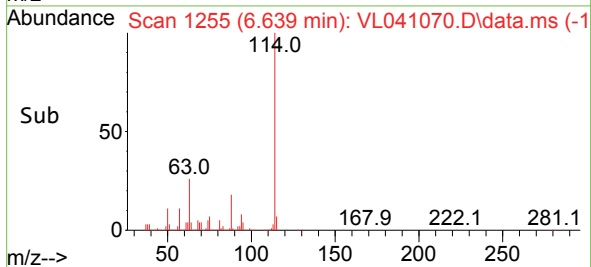
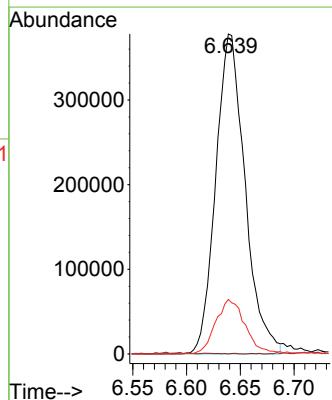
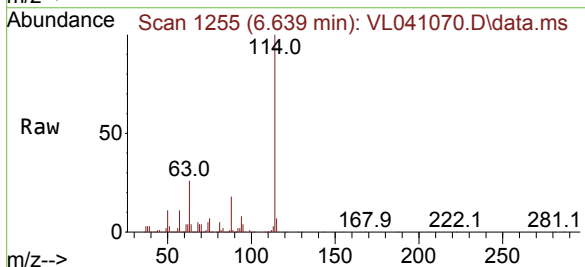
Tgt Ion: 63 Resp: 714697

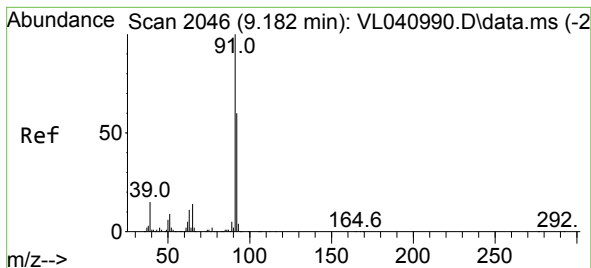
Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.0 55.6 83.4#





#53

Toluene

Concen: 0.059 ppbv

RT: 9.208 min Scan# 2046

Delta R.T. 0.003 min

Lab File: VL041070.D

Acq: 15 Feb 2024 14:11

Instrument :

MSVOA_L

ClientSampleId :

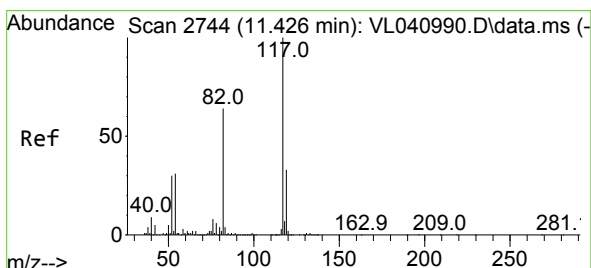
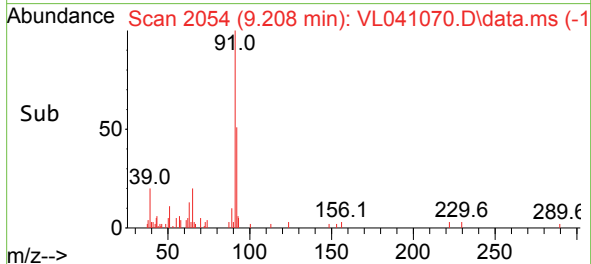
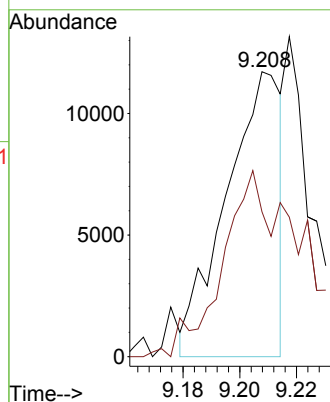
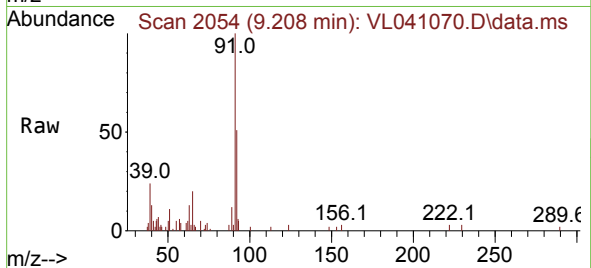
OA1DUP

Tgt Ion: 91 Resp: 15683

Ion Ratio Lower Upper

91 100

92 98.8 48.6 72.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 2753

Delta R.T. 0.003 min

Lab File: VL041070.D

Acq: 15 Feb 2024 14:11

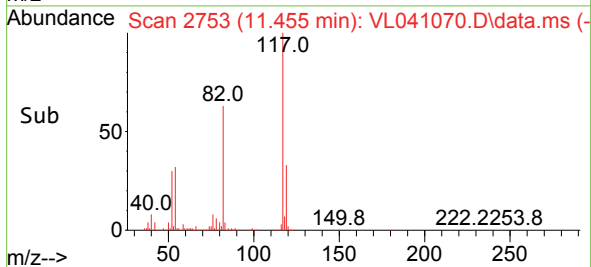
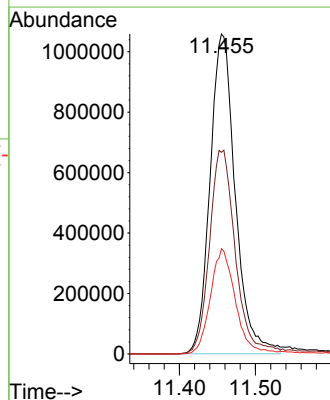
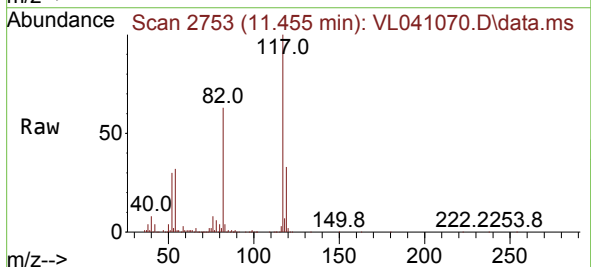
Tgt Ion: 117 Resp: 2439398

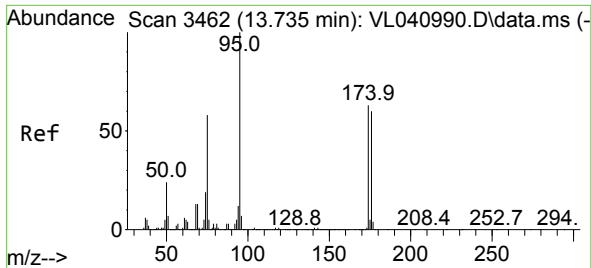
Ion Ratio Lower Upper

117 100

82 67.9 51.7 77.5

119 33.1 23.8 35.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.208 ppbv
 RT: 13.770 min Scan# 34
 Delta R.T. 0.010 min
 Lab File: VL041070.D
 Acq: 15 Feb 2024 14:11

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Tgt Ion: 95 Resp: 1880783

Ion	Ratio	Lower	Upper
95	100		
174	61.9	49.1	73.7
175	4.4	3.7	5.5

