

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081822\
 Data File : VL039569.D
 Acq On : 18 Aug 2022 21:44
 Operator : SY/AP
 Sample : N3980-13 0.1 LOD
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 19 03:06:01 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 17 12:06:24 2022
 QLast Update : Wed Aug 17 12:06:24 2022
 Response via : Initial Calibration

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

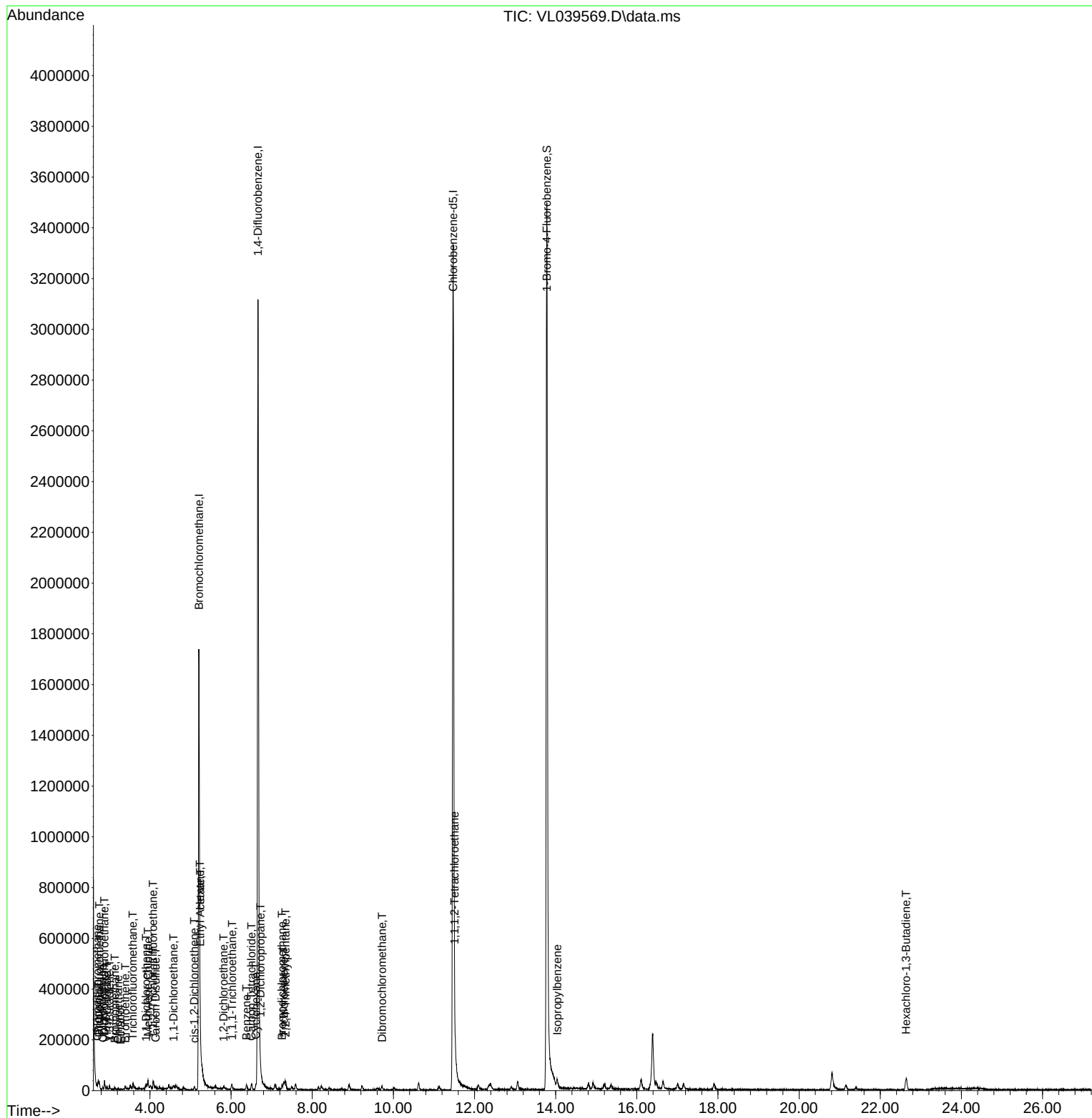
Internal Standards						
1) Bromochloromethane	5.208	49	907453	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2499868	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2217856	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1651974	9.894	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.751	85	15695	0.129	ppbv	100
3) Chlorodifluoromethane	2.700	51	12001	0.110	ppbv	100
4) Chloromethane	2.835	50	5907	0.091	ppbv #	88
5) Vinyl Chloride	2.941	62	5336	0.095	ppbv #	86
6) Bromomethane	3.137	94	1045	0.046	ppbv #	67
7) Chloroethane	3.221	64	1544	0.077	ppbv #	83
8) Dichlorotetrafluoroethane	2.877	85	14415	0.110	ppbv	92
9) Propene	2.726	41	11074	0.224	ppbv	92
11) Trichlorofluoromethane	3.578	101	5031	0.038	ppbv	85
12) 1,1,2-Trichlorotrifluo...	4.079	101	4163	0.042	ppbv #	1
13) Ethanol	3.275	45	356	0.100	ppbv #	29
14) Bromoethene	3.391	108	1719	0.043	ppbv #	1
16) 1,3-Butadiene	3.005	39	3608	0.068	ppbv #	61
18) 1,1-Dichloroethene	3.902	96	1917	0.043	ppbv #	11
20) Methylene Chloride	3.954	84	7673	0.184	ppbv #	71
24) 1,1-Dichloroethane	4.581	63	5173	0.057	ppbv #	91
25) Ethyl Acetate	5.237	43	17096	0.078	ppbv #	85
26) Hexane	5.230	57	5341	0.060	ppbv #	1
27) Carbon Disulfide	4.144	76	6323	0.066	ppbv #	1
30) Cyclohexane	6.610	84	2650	0.036	ppbv #	100
31) cis-1,2-Dichloroethene	5.089	61	2716	0.031	ppbv #	59
32) 1,1,1-Trichloroethane	6.025	97	9134	0.069	ppbv #	73
35) Carbon Tetrachloride	6.500	117	8073	0.057	ppbv #	71
36) Benzene	6.381	78	13257	0.070	ppbv #	86
37) 1,2-Dichloroethane	5.816	62	7038	0.066	ppbv #	89
38) Trichloroethene	7.301	130	3152	0.030	ppbv #	75
39) 1,2-Dichloropropane	6.726	63	6659	0.093	ppbv #	19
42) Bromodichloromethane	7.253	83	8330	0.058	ppbv #	65
44) 2,2,4-Trimethylpentane	7.340	57	10091	0.031	ppbv #	1
48) Dibromochloromethane	9.722	129	6431	0.053	ppbv	79
56) 1,1,1,2-Tetrachloroethane	11.510	131	4174	0.046	ppbv #	9
62) Isopropylbenzene	14.040	105	10117	0.030	ppbv #	49
78) Hexachloro-1,3-Butadiene	22.638	225	5729	0.046	ppbv #	100

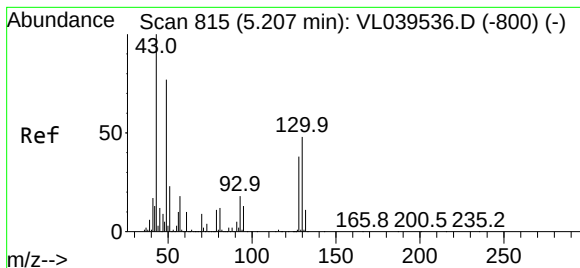
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 17 12:06:24 2022
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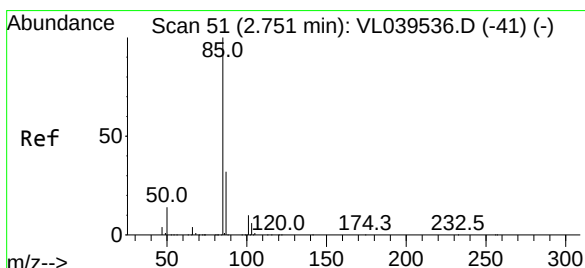
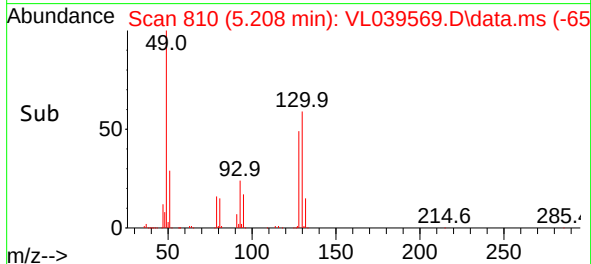
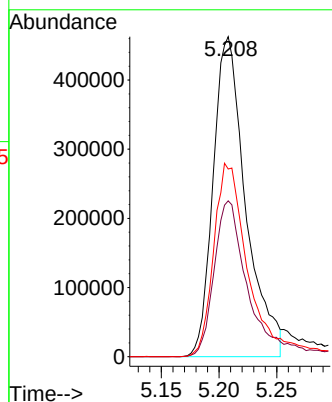
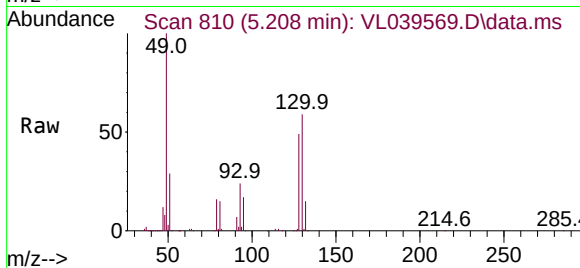




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.208 min Scan# 81
 Delta R.T. 0.001 min
 Lab File: VL039569.D
 Acq: 18 Aug 2022 21:44

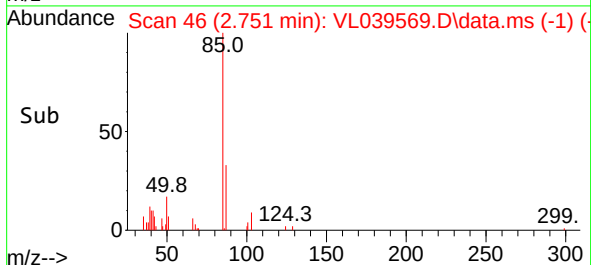
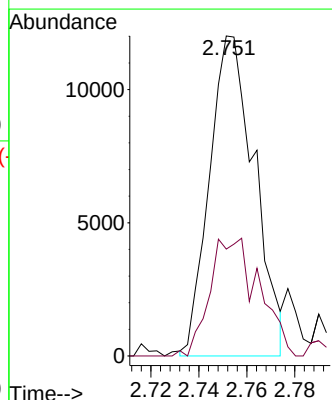
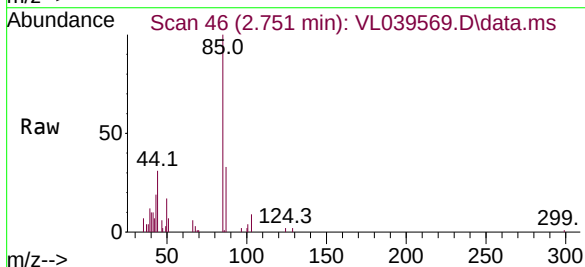
Instrument :
 MSVOA_L
 ClientSampleId :

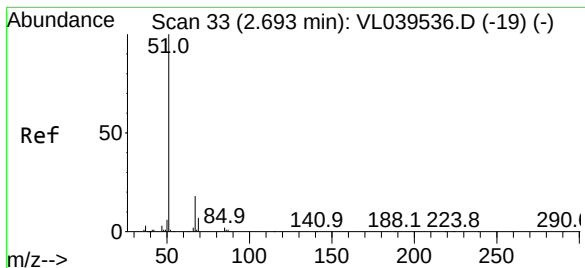
Tgt Ion: 49 Resp: 907453
 Ion Ratio Lower Upper
 49 100
 128 54.4 25.7 77.0
 130 67.2 31.6 95.0



#2
 Dichlorodifluoromethane
 Concen: 0.129 ppbv
 RT: 2.751 min Scan# 46
 Delta R.T. 0.001 min
 Lab File: VL039569.D
 Acq: 18 Aug 2022 21:44

Tgt Ion: 85 Resp: 15695
 Ion Ratio Lower Upper
 85 100
 87 32.3 25.9 38.9





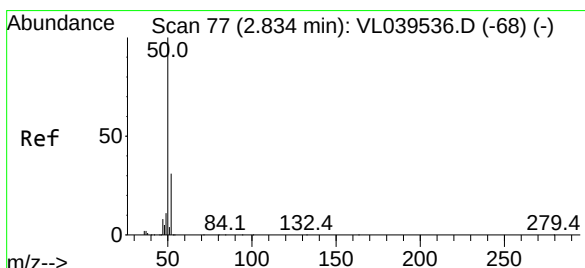
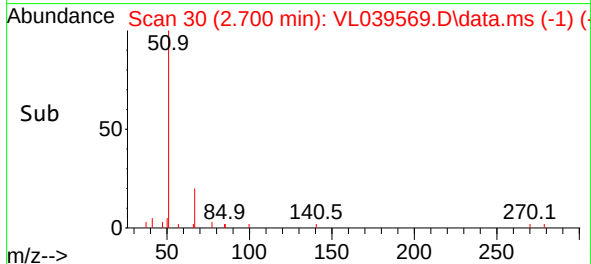
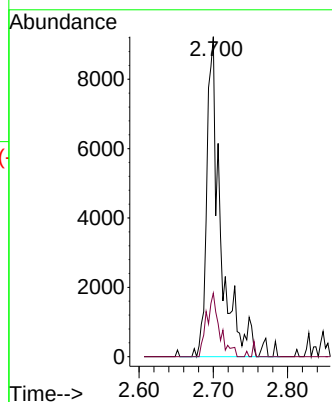
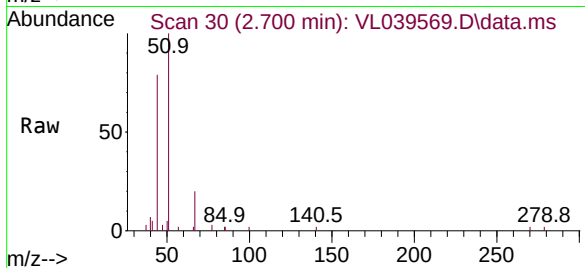
#3
 Chlorodifluoromethane
 Concen: 0.110 ppbv
 RT: 2.700 min Scan# 30
 Delta R.T. 0.007 min
 Lab File: VL039569.D
 Acq: 18 Aug 2022 21:44

Instrument :

MSVOA_L

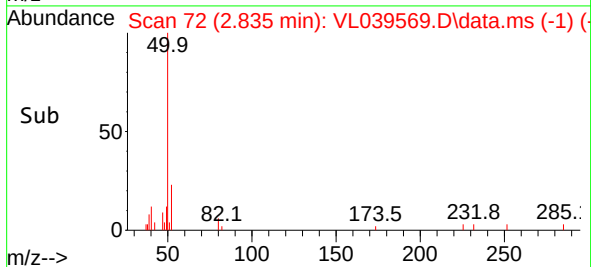
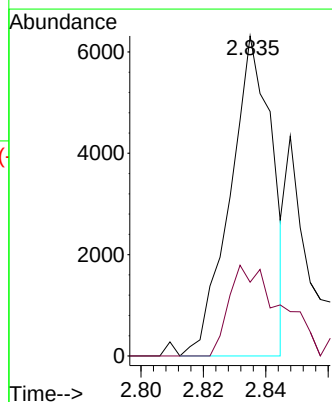
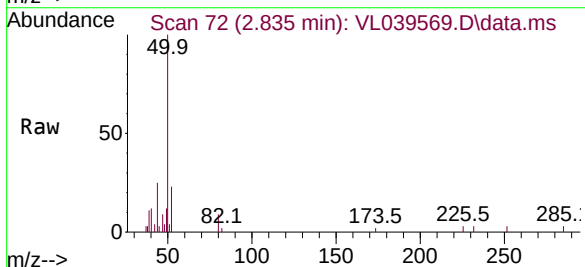
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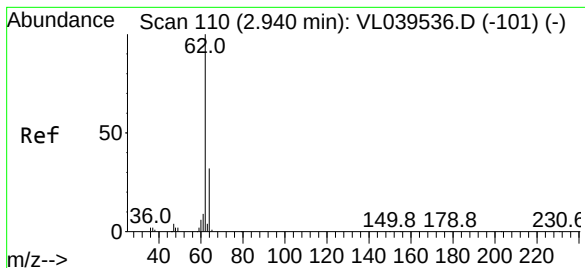
Tgt Ion: 51 Resp: 12001
 Ion Ratio Lower Upper
 51 100
 67 18.3 14.7 22.1



#4
 Chloromethane
 Concen: 0.091 ppbv
 RT: 2.835 min Scan# 72
 Delta R.T. 0.001 min
 Lab File: VL039569.D
 Acq: 18 Aug 2022 21:44

Tgt Ion: 50 Resp: 5907
 Ion Ratio Lower Upper
 50 100
 52 23.8 24.3 36.5#

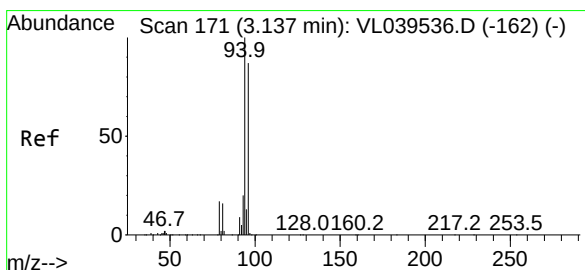
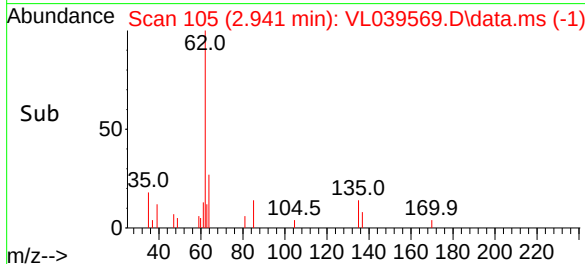
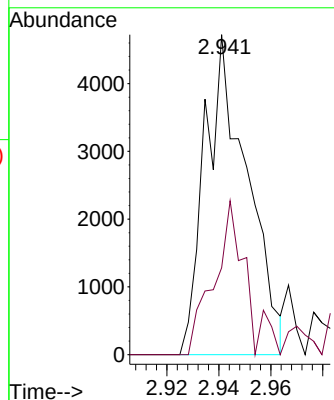
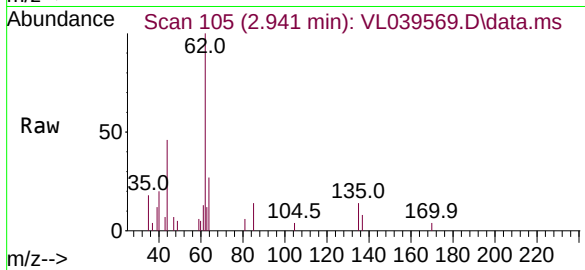




#5
 Vinyl Chloride
 Concen: 0.095 ppbv
 RT: 2.941 min Scan# 105
 Delta R.T. 0.001 min
 Lab File: VL039569.D
 Acq: 18 Aug 2022 21:44

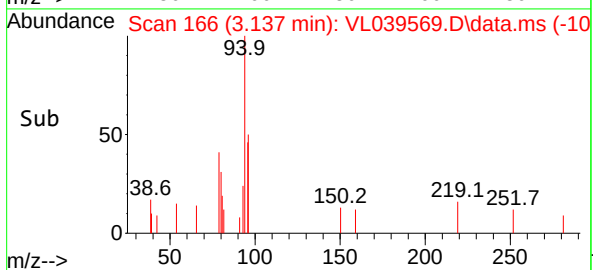
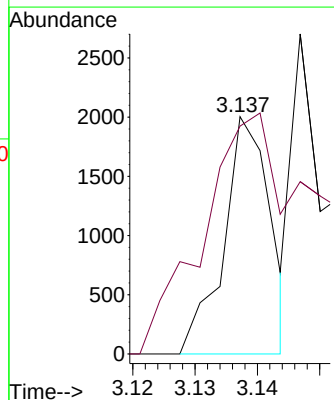
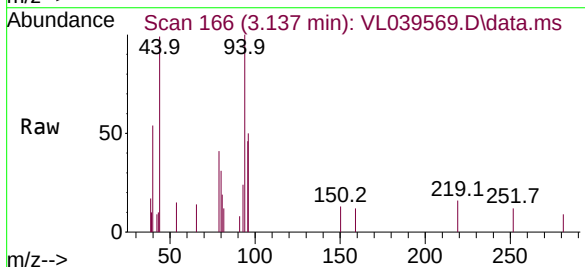
Instrument :
 MSVOA_L
 ClientSampleId :

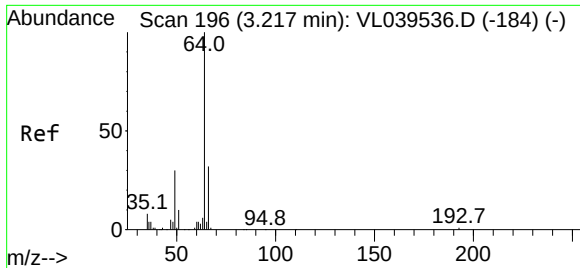
Tgt Ion: 62 Resp: 5336
 Ion Ratio Lower Upper
 62 100
 64 24.3 25.5 38.3#



#6
 Bromomethane
 Concen: 0.046 ppbv
 RT: 3.137 min Scan# 166
 Delta R.T. 0.001 min
 Lab File: VL039569.D
 Acq: 18 Aug 2022 21:44

Tgt Ion: 94 Resp: 1045
 Ion Ratio Lower Upper
 94 100
 96 57.1 69.8 104.6#

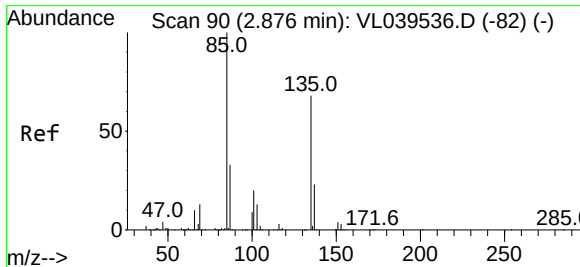
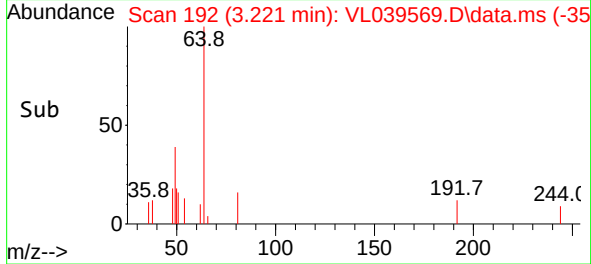
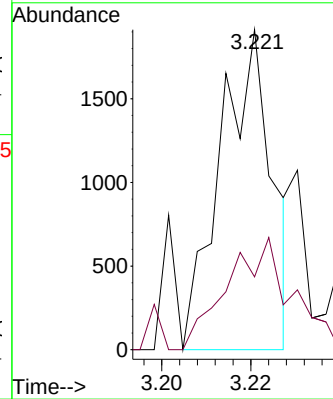
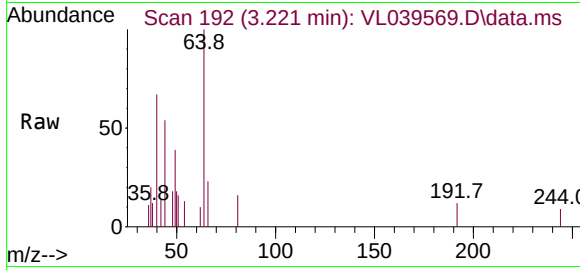




#7
Chloroethane
Concen: 0.077 ppbv
RT: 3.221 min Scan# 196
Delta R.T. 0.004 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

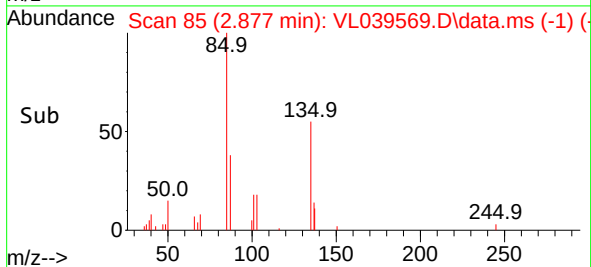
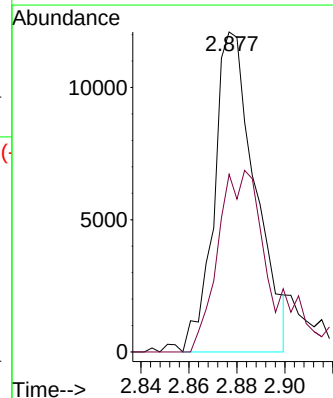
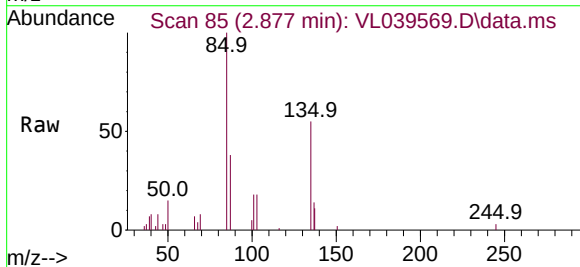
Instrument :
MSVOA_L
ClientSampleId :

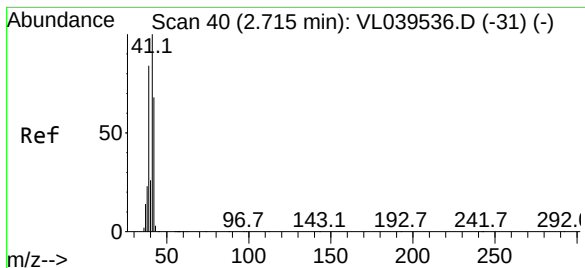
Tgt Ion: 64 Resp: 1544
Ion Ratio Lower Upper
64 100
66 22.8 25.6 38.4#



#8
Dichlorotetrafluoroethane
Concen: 0.110 ppbv
RT: 2.877 min Scan# 85
Delta R.T. 0.001 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

Tgt Ion: 85 Resp: 14415
Ion Ratio Lower Upper
85 100
135 77.1 56.3 84.5





#9

Propene

Concen: 0.224 ppbv

RT: 2.726 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

Instrument :

MSVOA_L

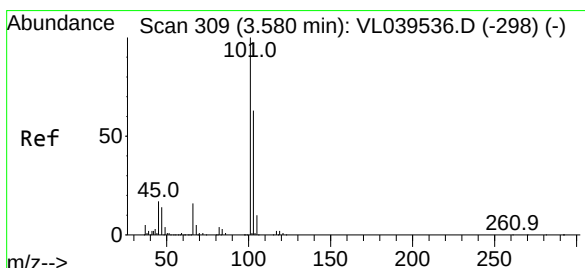
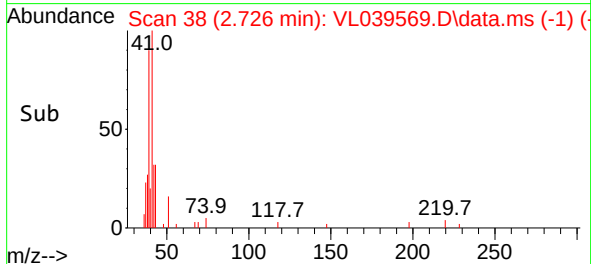
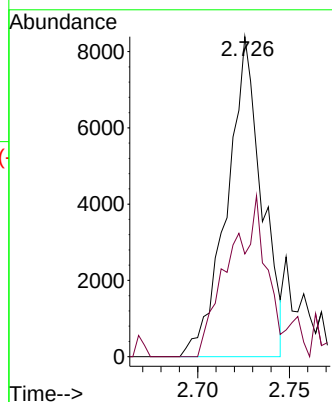
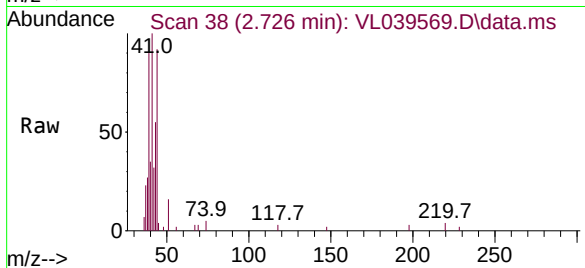
ClientSampleId :

Tgt Ion: 41 Resp: 11074

Ion Ratio Lower Upper

41 100

42 63.1 55.4 83.0



#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 3.578 min Scan# 303

Delta R.T. -0.003 min

Lab File: VL039569.D

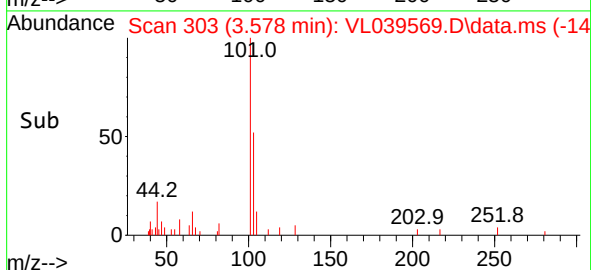
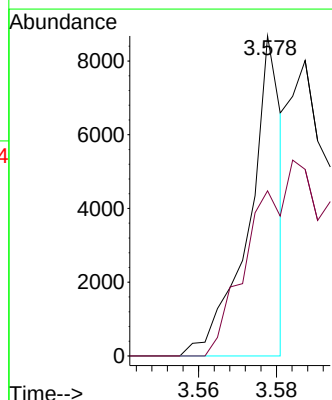
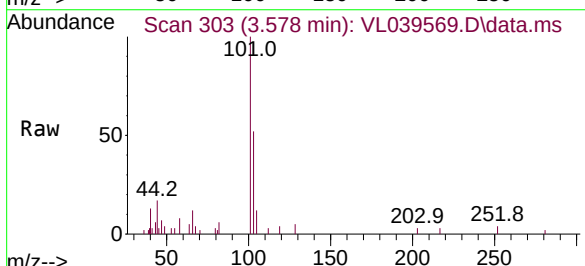
Acq: 18 Aug 2022 21:44

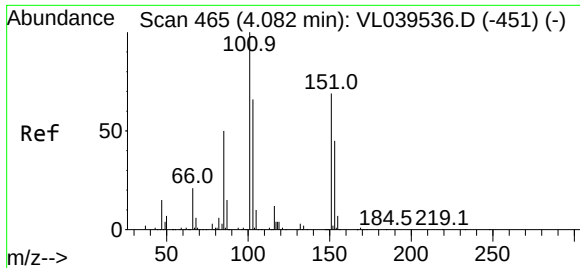
Tgt Ion: 101 Resp: 5031

Ion Ratio Lower Upper

101 100

103 51.6 50.6 76.0

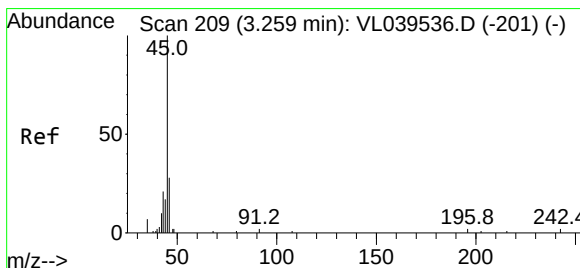
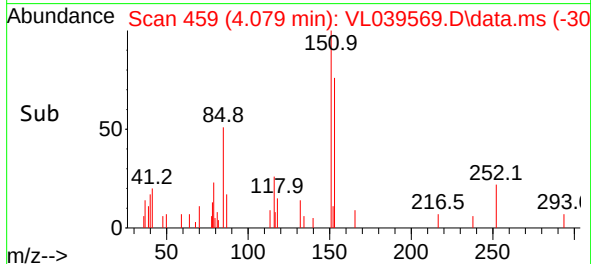
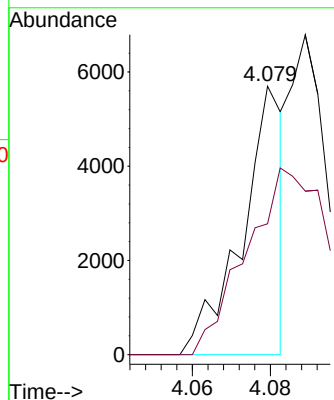
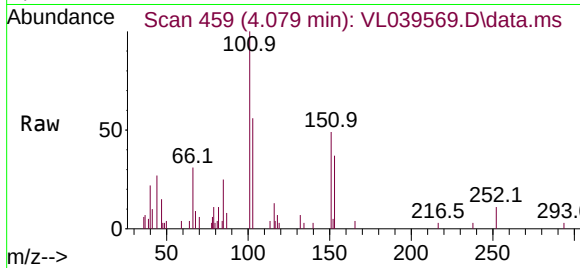




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.042 ppbv
RT: 4.079 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

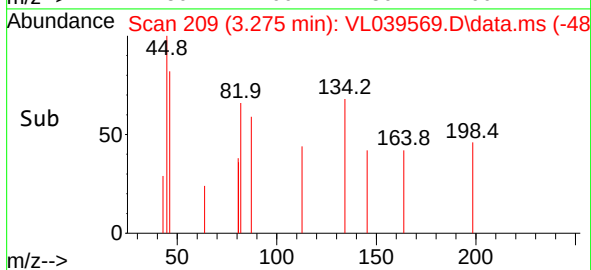
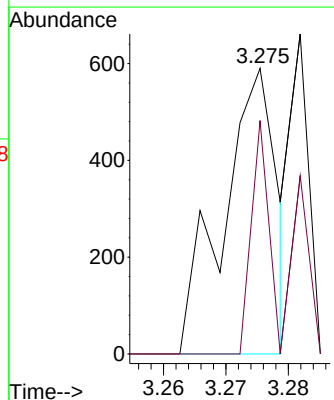
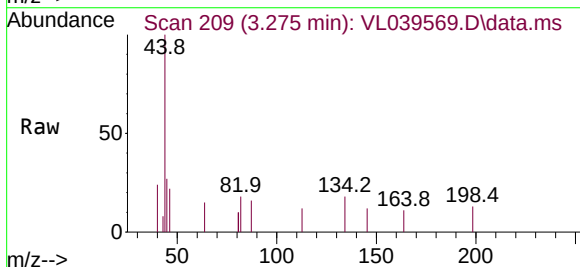
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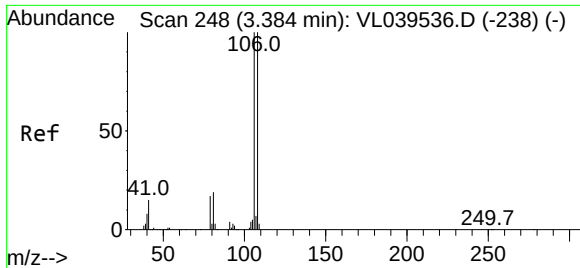
Tgt Ion:101 Resp: 4163
Ion Ratio Lower Upper
101 100
151 164.4 58.6 87.8#



#13
Ethanol
Concen: 0.100 ppbv
RT: 3.275 min Scan# 209
Delta R.T. 0.017 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

Tgt Ion: 45 Resp: 356
Ion Ratio Lower Upper
45 100
46 0.0 19.3 77.1#





#14

Bromoethene

Concen: 0.043 ppbv

RT: 3.391 min Scan# 24

Delta R.T. 0.007 min

Lab File: VL039569.D

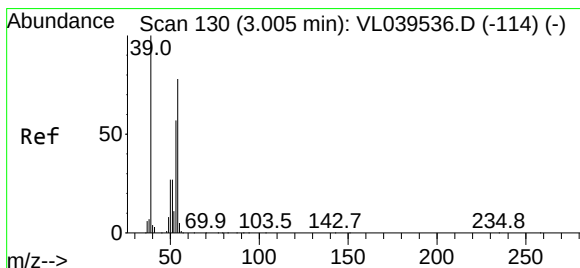
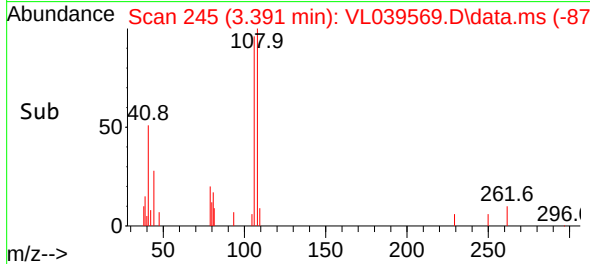
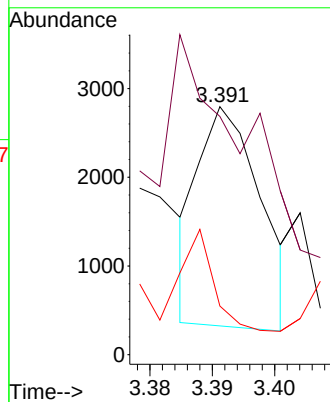
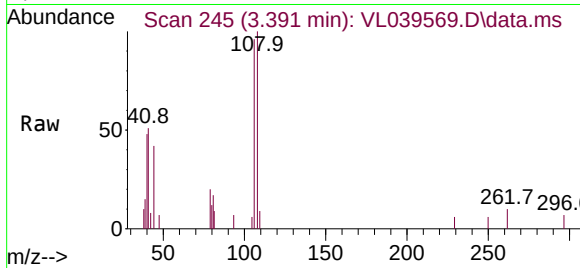
Acq: 18 Aug 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	108	Resp:	1719
Ion	Ratio	Lower	Upper
108	100		
106	305.1	86.6	130.0#
79	102.2	15.1	22.7#



#16

1,3-Butadiene

Concen: 0.068 ppbv

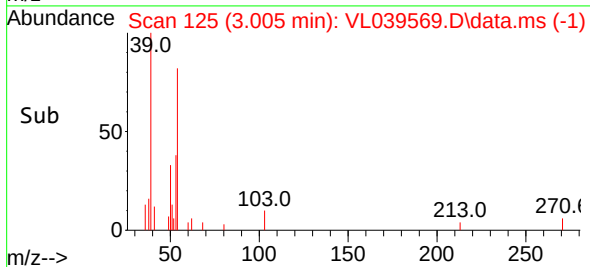
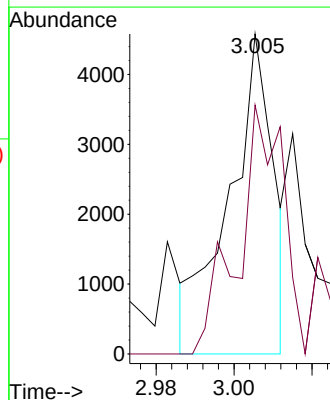
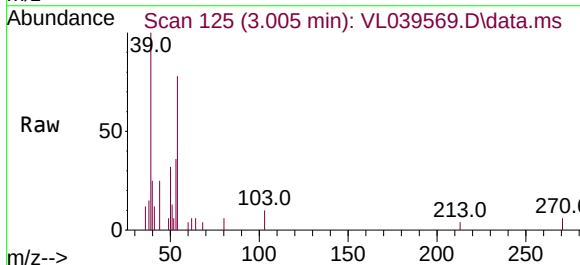
RT: 3.005 min Scan# 125

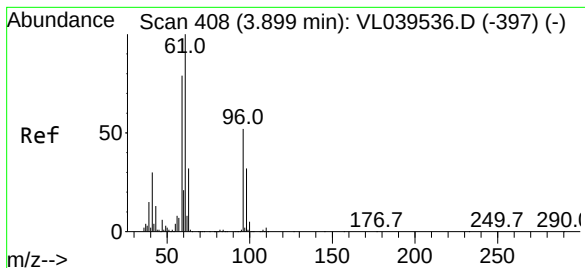
Delta R.T. 0.001 min

Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

Tgt Ion:	39	Resp:	3608
Ion	Ratio	Lower	Upper
39	100		
54	111.1	61.8	92.8#

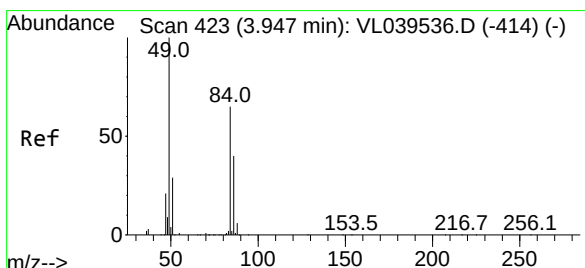
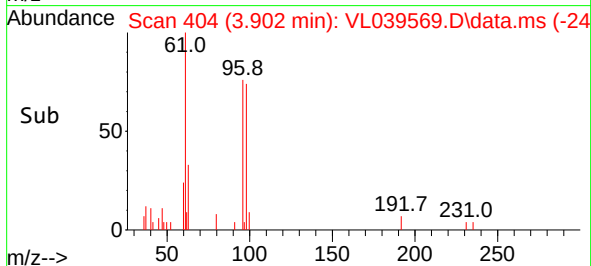
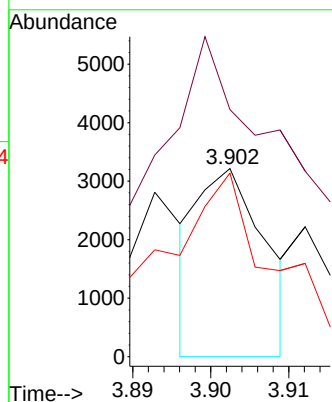
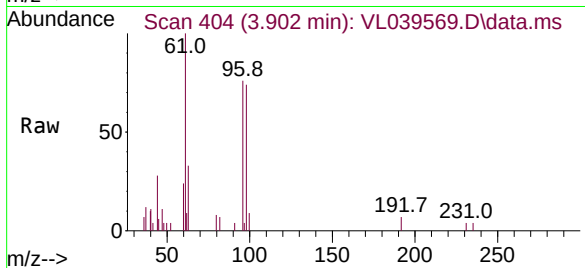




#18
1,1-Dichloroethene
Concen: 0.043 ppbv
RT: 3.902 min Scan# 408
Delta R.T. 0.004 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

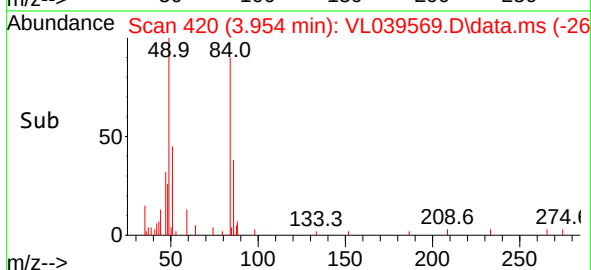
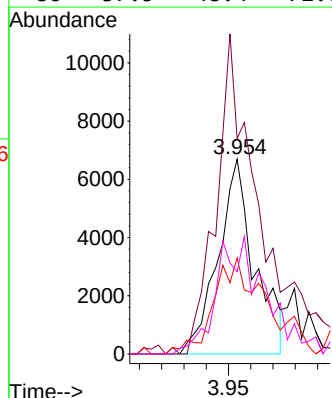
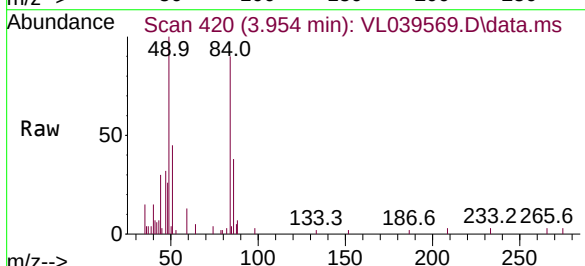
Instrument :
MSVOA_L
ClientSampleId :

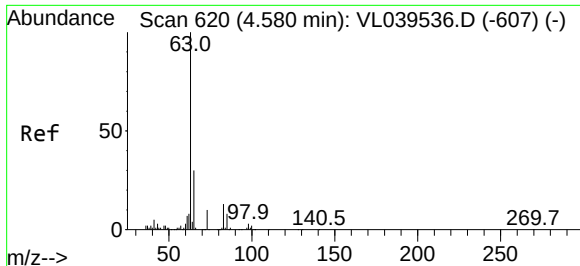
Tgt Ion: 96 Resp: 1917
Ion Ratio Lower Upper
96 100
61 41.8 153.8 230.6#
98 96.8 48.6 73.0#



#20
Methylene Chloride
Concen: 0.184 ppbv
RT: 3.954 min Scan# 420
Delta R.T. 0.007 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

Tgt Ion: 84 Resp: 7673
Ion Ratio Lower Upper
84 100
49 105.5 122.2 183.4#
51 44.6 35.8 53.6
86 37.5 48.4 72.6#

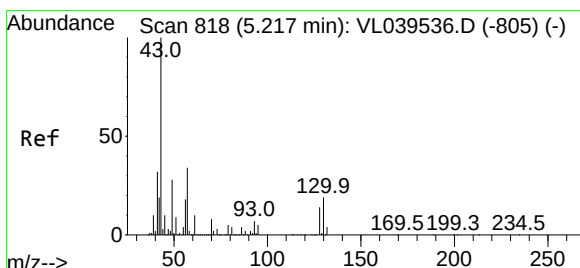
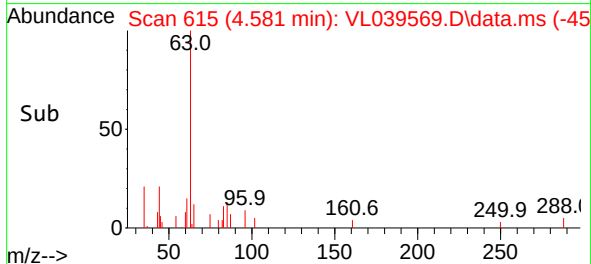
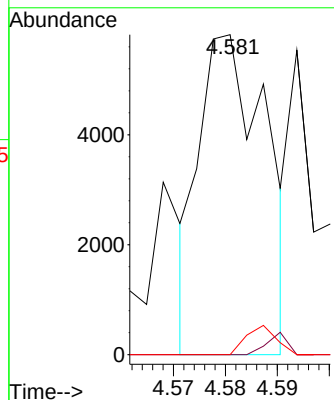
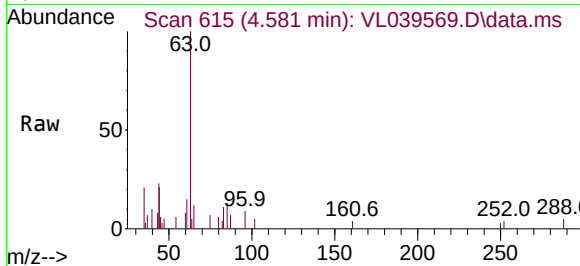




#24
1,1-Dichloroethane
Concen: 0.057 ppbv
RT: 4.581 min Scan# 61
Delta R.T. 0.001 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

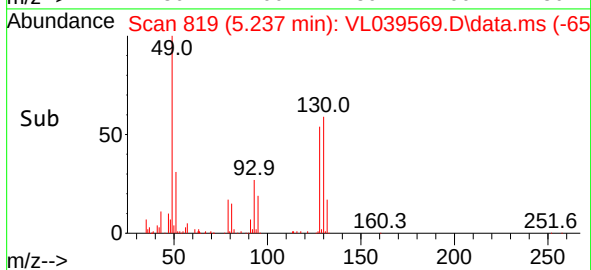
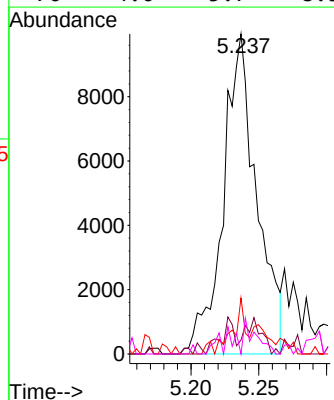
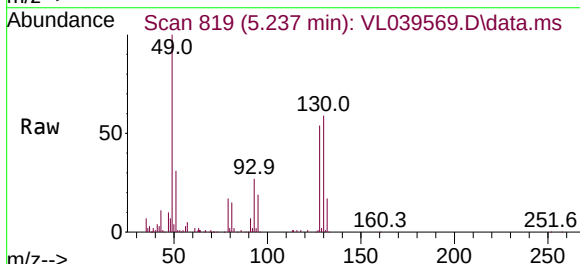
Instrument :
MSVOA_L
ClientSampleId :

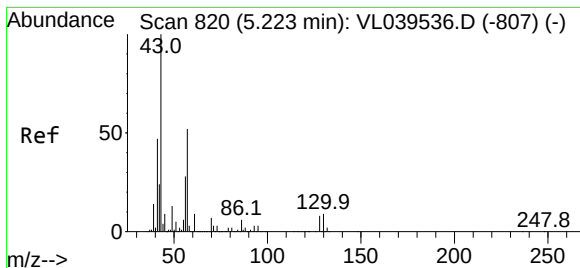
Tgt Ion: 63 Resp: 5173
Ion Ratio Lower Upper
63 100
98 0.0 1.7 5.0#
100 0.0 1.1 3.3#



#25
Ethyl Acetate
Concen: 0.078 ppbv
RT: 5.237 min Scan# 819
Delta R.T. 0.020 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

Tgt Ion: 43 Resp: 17096
Ion Ratio Lower Upper
43 100
45 0.0 8.2 12.4#
61 13.1 8.6 12.8#
70 4.0 5.7 8.5#





#26

Hexane

Concen: 0.060 ppbv

RT: 5.230 min Scan# 81

Delta R.T. 0.007 min

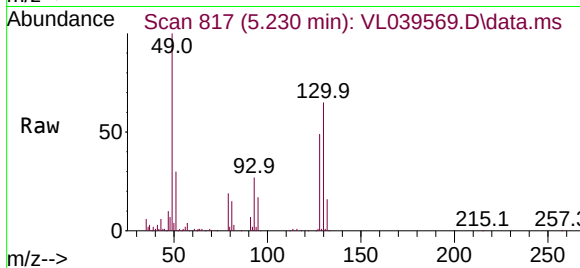
Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 57 Resp: 5341

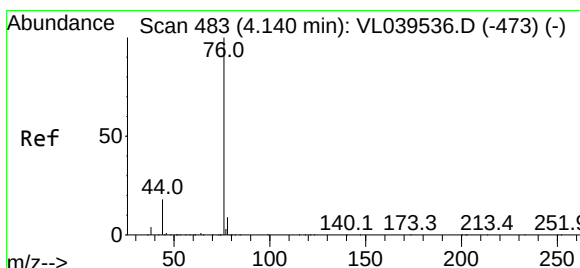
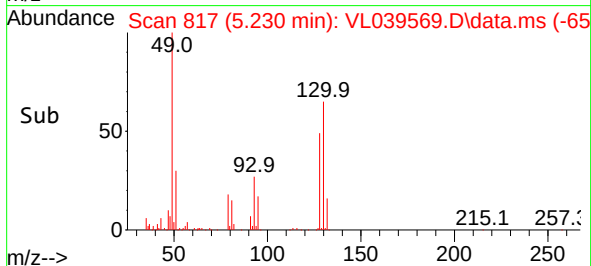
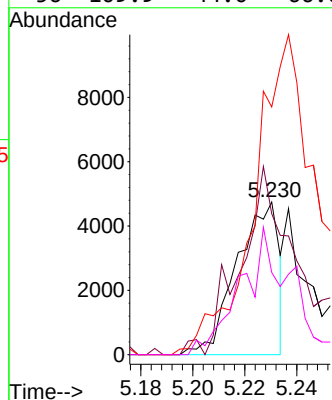
Ion Ratio Lower Upper

57 100

41 177.8 79.4 119.2#

43 0.0 199.7 299.5#

56 109.9 44.0 66.0#



#27

Carbon Disulfide

Concen: 0.066 ppbv

RT: 4.144 min Scan# 479

Delta R.T. 0.004 min

Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

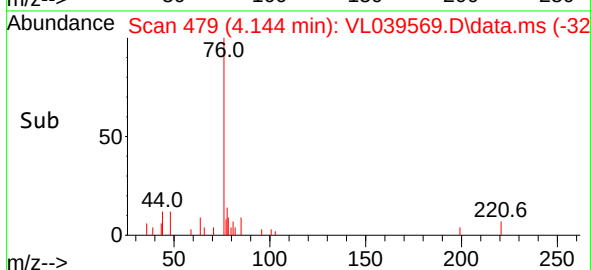
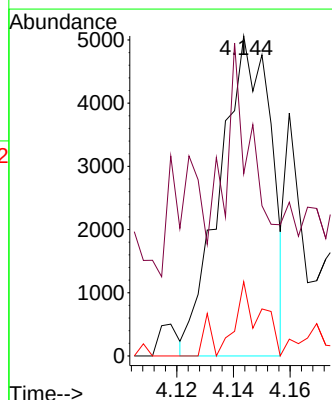
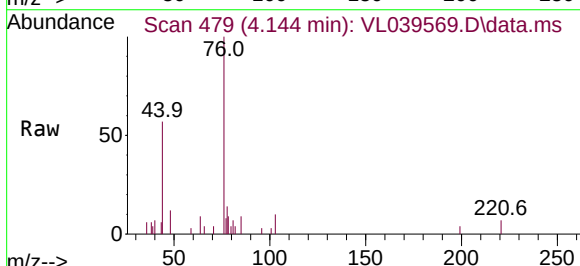
Tgt Ion: 76 Resp: 6323

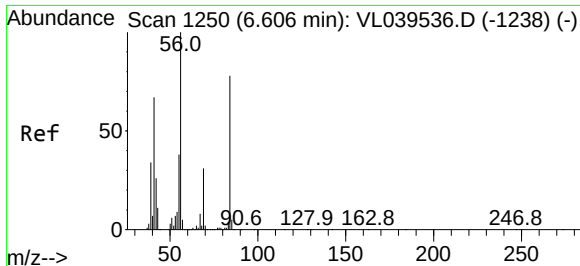
Ion Ratio Lower Upper

76 100

44 109.0 16.3 24.5#

78 21.9 7.8 11.6#





#30

Cyclohexane

Concen: 0.036 ppbv

RT: 6.610 min Scan# 11

Delta R.T. 0.004 min

Lab File: VL039569.D

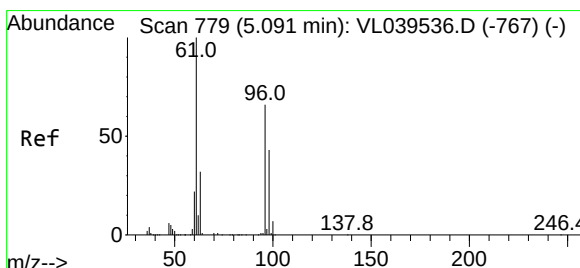
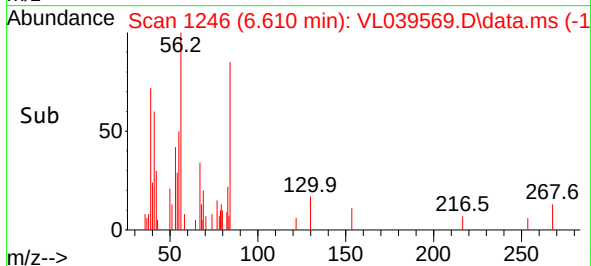
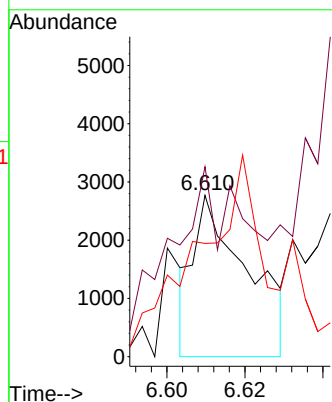
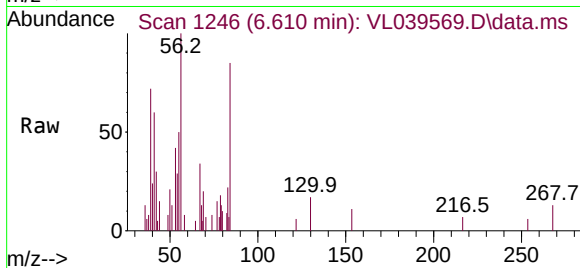
Acq: 18 Aug 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	84	Resp:	2650
Ion	Ratio	Lower	Upper
84	100		
56	200.5	0.0	0.0#
41	217.5	0.0	0.0#



#31

cis-1,2-Dichloroethene

Concen: 0.031 ppbv

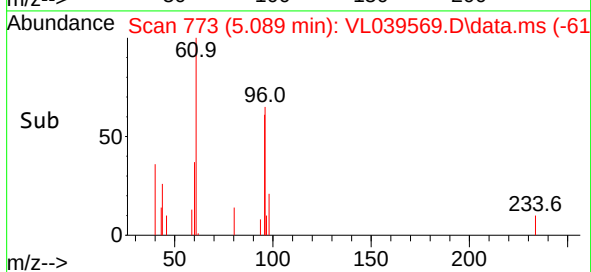
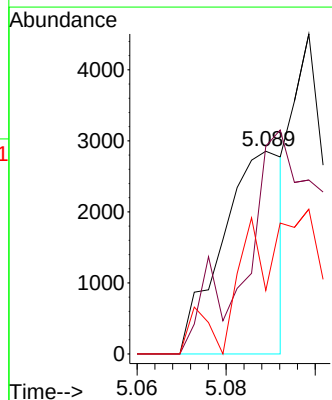
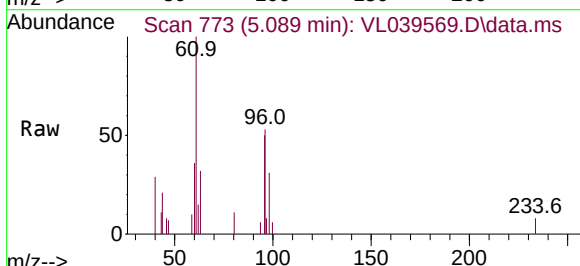
RT: 5.089 min Scan# 773

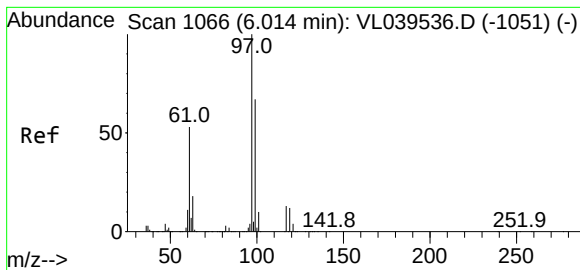
Delta R.T. -0.003 min

Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

Tgt Ion:	61	Resp:	2716
Ion	Ratio	Lower	Upper
61	100		
96	110.5	52.9	79.3#
98	31.3	34.5	51.7#

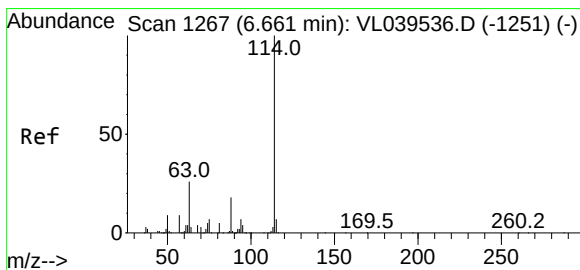
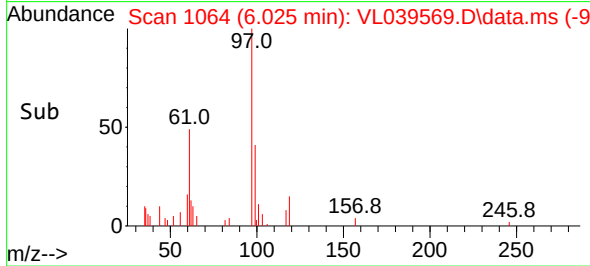
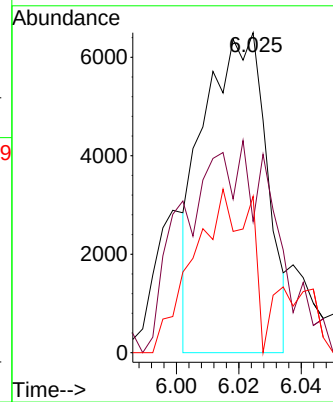
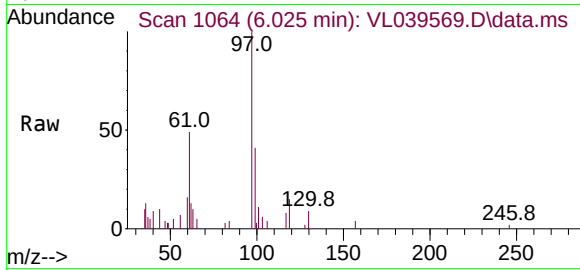




#32
 1,1,1-Trichloroethane
 Concen: 0.069 ppbv
 RT: 6.025 min Scan# 1066
 Delta R.T. 0.010 min
 Lab File: VL039569.D
 Acq: 18 Aug 2022 21:44

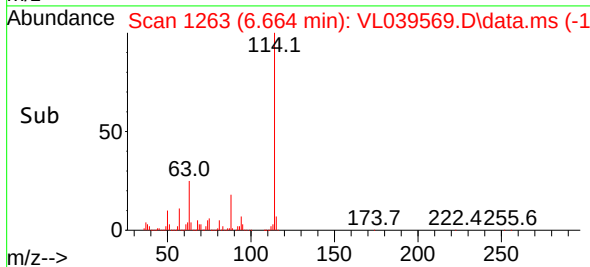
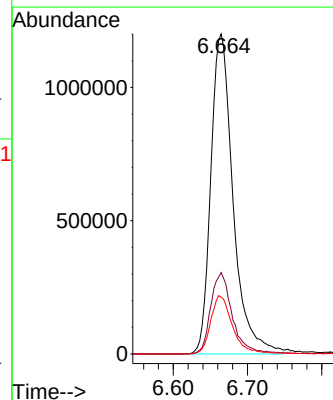
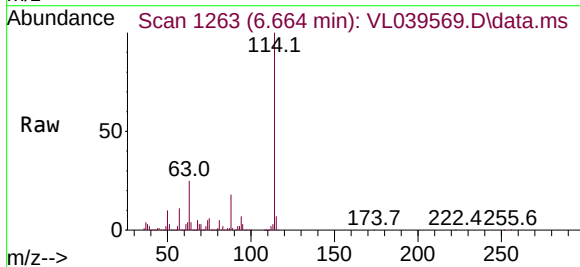
Instrument :
 MSVOA_L
 ClientSampleId :

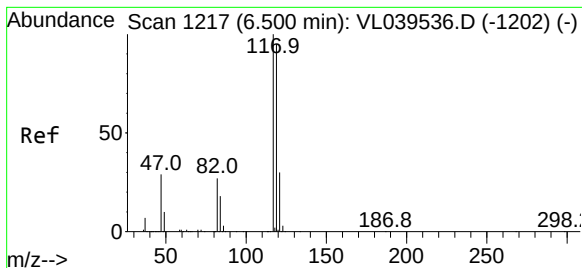
Tgt Ion: 97	Resp:	9134
Ion	Ratio	Lower Upper
97	100	
99	98.9	52.4 78.6#
61	60.3	42.9 64.3



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.664 min Scan# 1263
 Delta R.T. 0.004 min
 Lab File: VL039569.D
 Acq: 18 Aug 2022 21:44

Tgt Ion: 114	Resp:	2499868
Ion	Ratio	Lower Upper
114	100	
63	25.0	20.6 31.0
88	18.0	14.6 22.0





#35

Carbon Tetrachloride

Concen: 0.057 ppbv

RT: 6.500 min Scan# 11

Delta R.T. 0.001 min

Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :

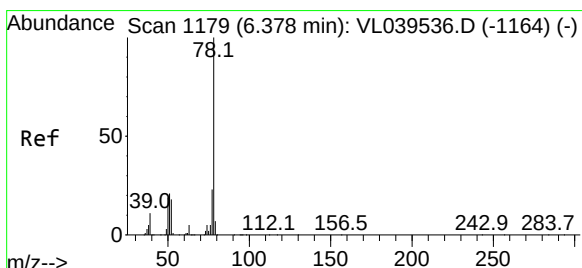
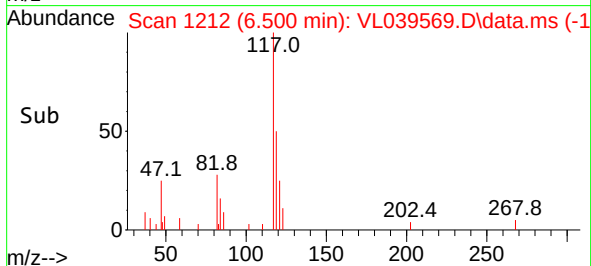
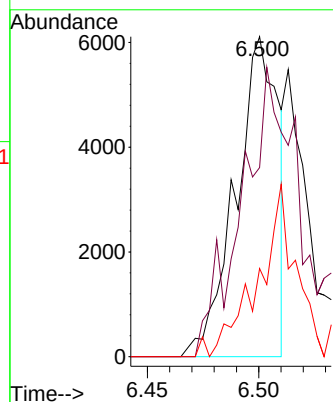
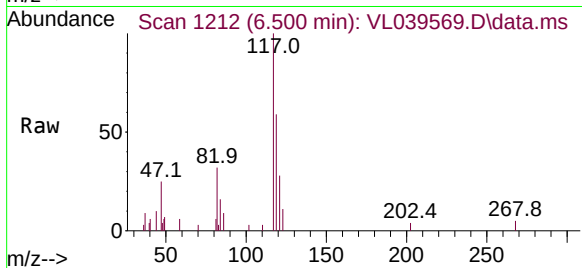
Tgt Ion:117 Resp: 8073

Ion Ratio Lower Upper

117 100

119 59.1 76.2 114.4#

121 27.5 24.4 36.6



#36

Benzene

Concen: 0.070 ppbv

RT: 6.381 min Scan# 1175

Delta R.T. 0.004 min

Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

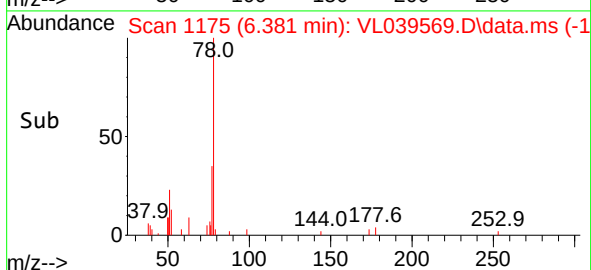
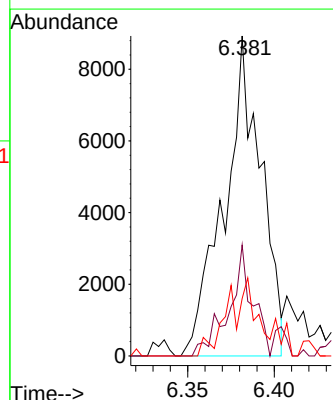
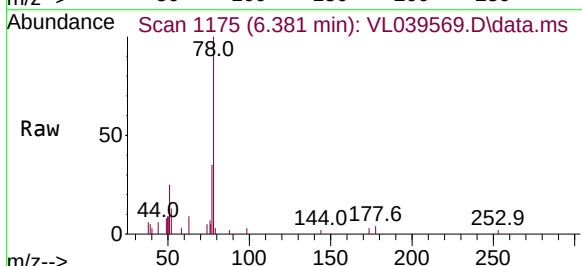
Tgt Ion: 78 Resp: 13257

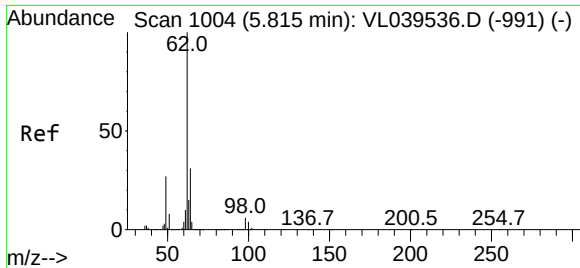
Ion Ratio Lower Upper

78 100

77 34.7 18.6 27.8#

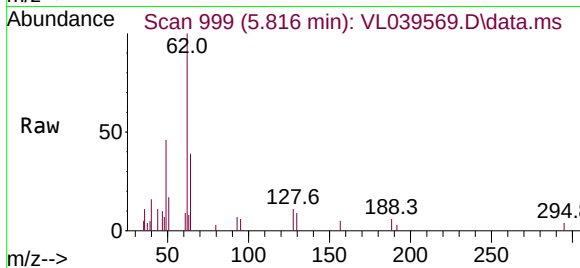
50 17.9 15.0 22.4



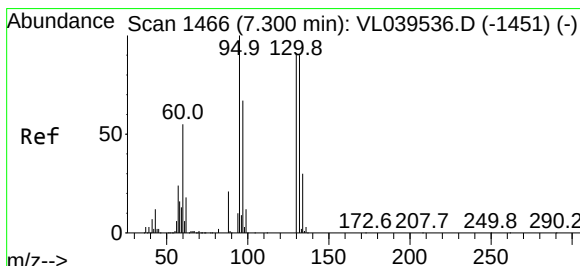
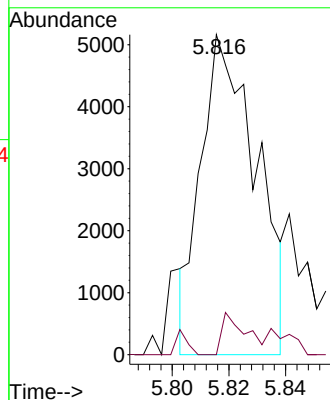
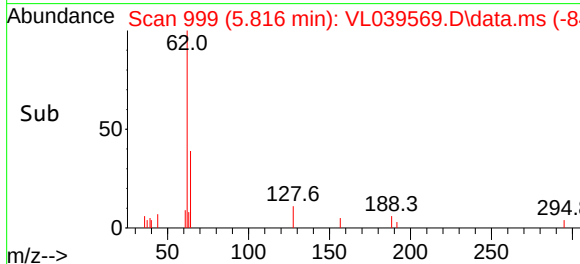


#37
1,2-Dichloroethane
Concen: 0.066 ppbv
RT: 5.816 min Scan# 991
Delta R.T. 0.001 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

Instrument :
MSVOA_L
ClientSampleId :

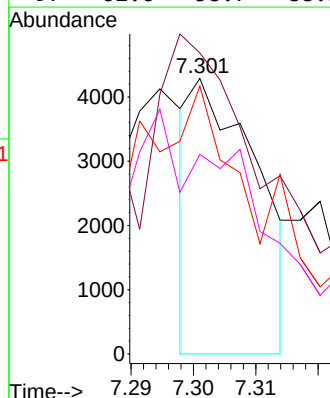
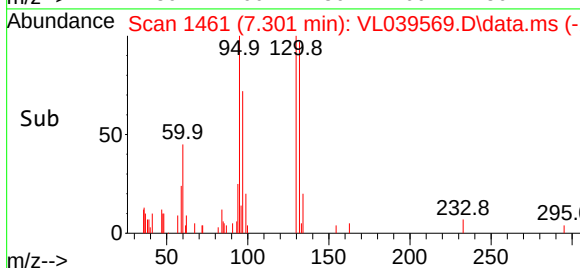
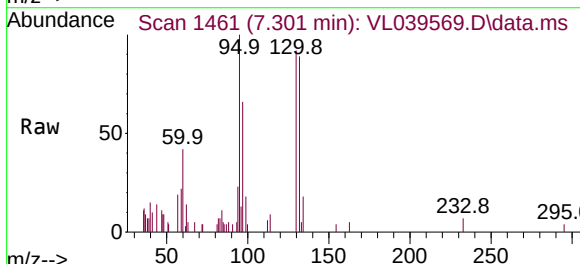


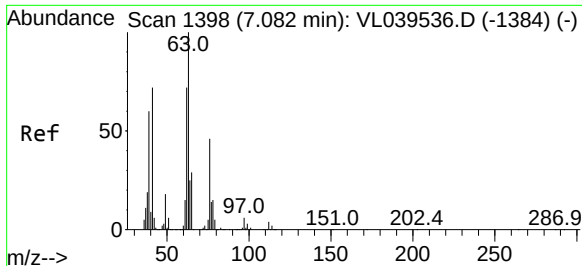
Tgt Ion: 62 Resp: 7038
Ion Ratio Lower Upper
62 100
98 10.6 5.4 8.2#



#38
Trichloroethene
Concen: 0.030 ppbv
RT: 7.301 min Scan# 1461
Delta R.T. 0.001 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

Tgt Ion:130 Resp: 3152
Ion Ratio Lower Upper
130 100
95 86.6 88.0 132.0#
132 62.3 79.1 118.7#
97 62.6 58.7 88.1

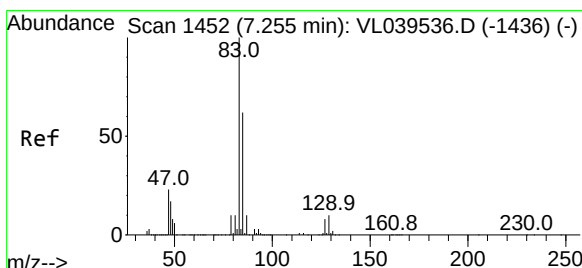
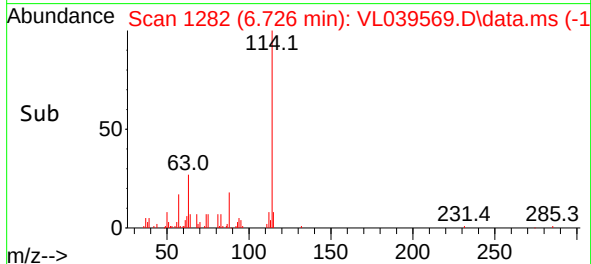
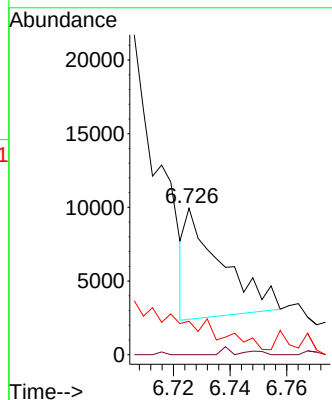
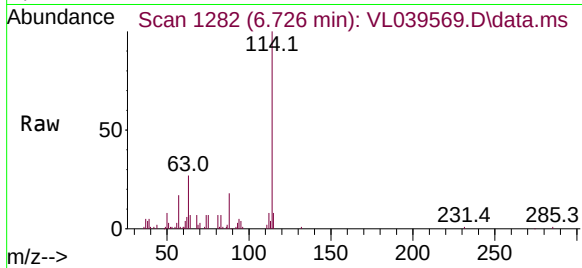




#39
1,2-Dichloropropane
Concen: 0.093 ppbv
RT: 6.726 min Scan# 11
Delta R.T. -0.356 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

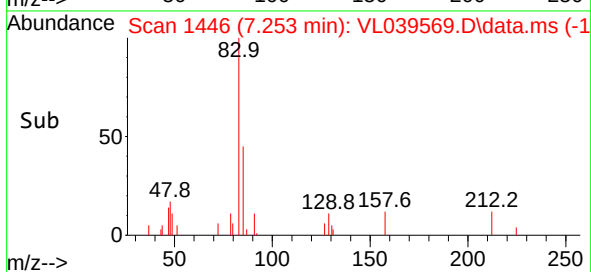
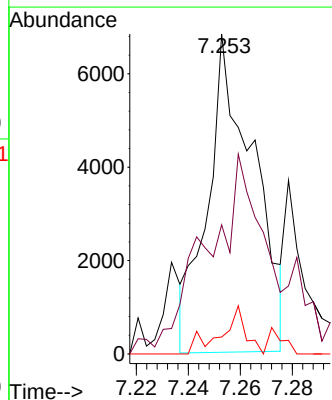
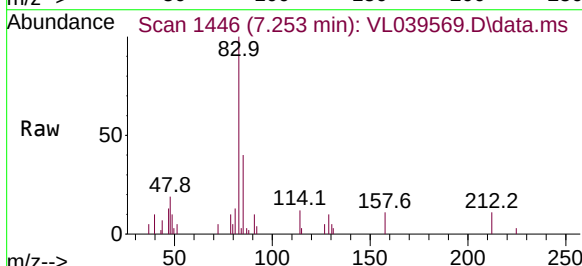
Instrument :
MSVOA_L
ClientSampleId :

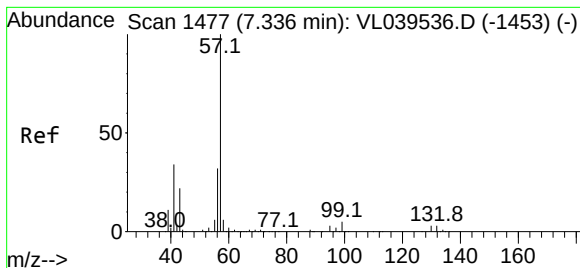
Tgt Ion: 63 Resp: 6659
Ion Ratio Lower Upper
63 100
41 0.0 58.0 87.0#
62 9.0 57.8 86.8#



#42
Bromodichloromethane
Concen: 0.058 ppbv
RT: 7.253 min Scan# 1446
Delta R.T. -0.003 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

Tgt Ion: 83 Resp: 8330
Ion Ratio Lower Upper
83 100
85 31.8 49.9 74.9#
127 6.8 6.7 10.1





#44

2,2,4-Trimethylpentane

Concen: 0.031 ppbv

RT: 7.340 min Scan# 1477

Delta R.T. 0.004 min

Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :

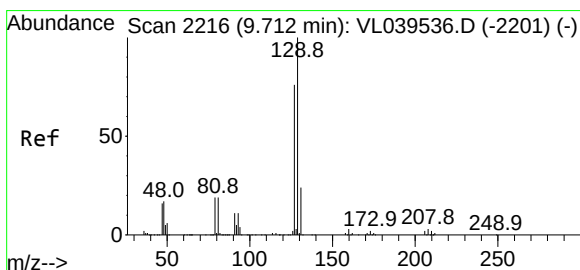
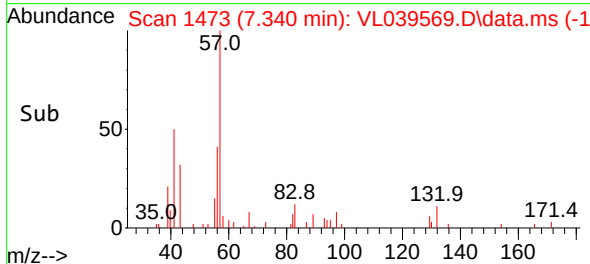
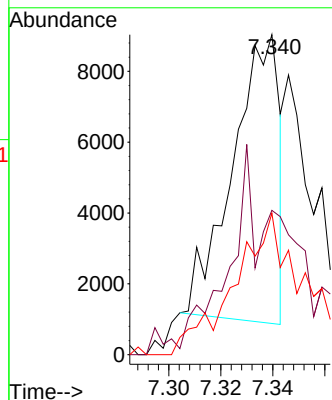
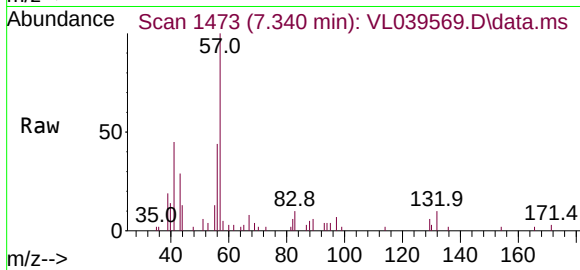
Tgt Ion: 57 Resp: 10091

Ion Ratio Lower Upper

57 100

41 103.8 27.8 41.6#

56 80.9 25.5 38.3#



#48

Dibromochloromethane

Concen: 0.053 ppbv

RT: 9.722 min Scan# 2214

Delta R.T. 0.010 min

Lab File: VL039569.D

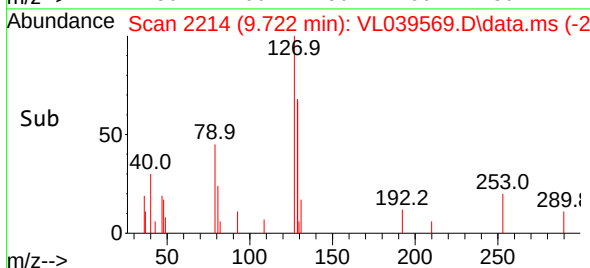
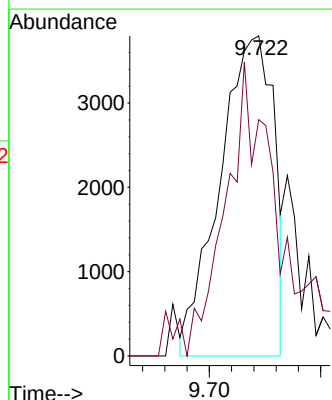
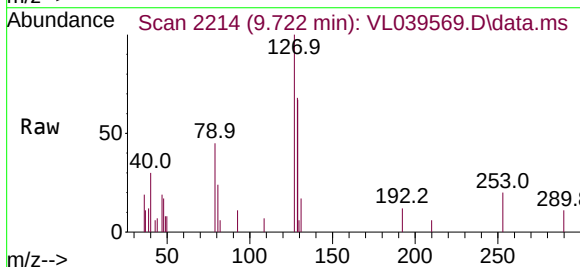
Acq: 18 Aug 2022 21:44

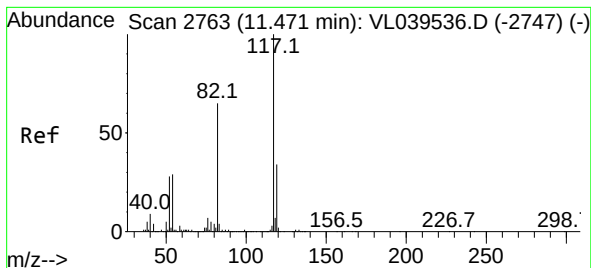
Tgt Ion: 129 Resp: 6431

Ion Ratio Lower Upper

129 100

127 95.8 38.8 116.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.471 min Scan# 21

Delta R.T. 0.001 min

Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :

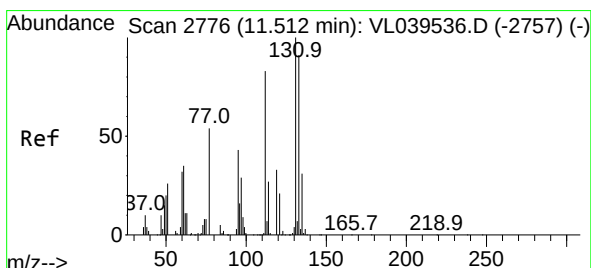
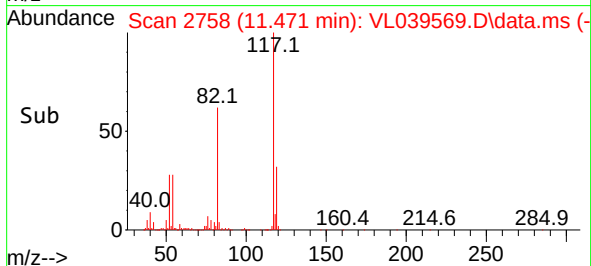
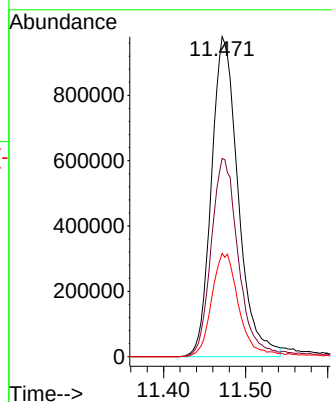
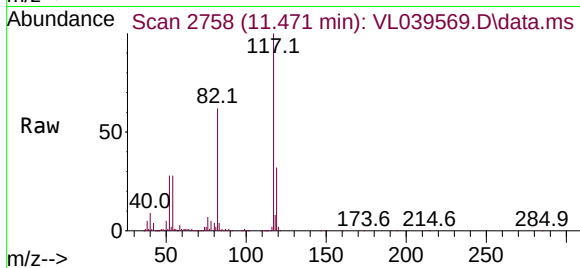
Tgt Ion:117 Resp: 2217856

Ion Ratio Lower Upper

117 100

82 63.9 49.1 73.7

119 33.6 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 0.046 ppbv

RT: 11.510 min Scan# 2770

Delta R.T. -0.003 min

Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

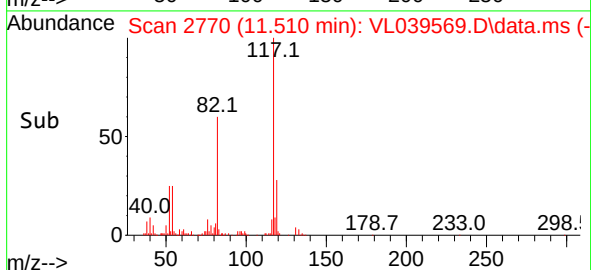
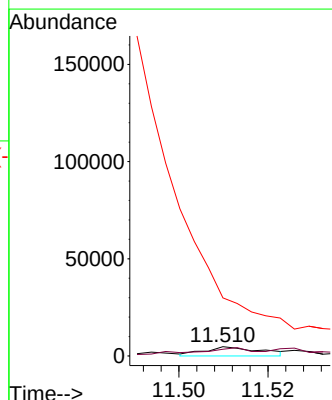
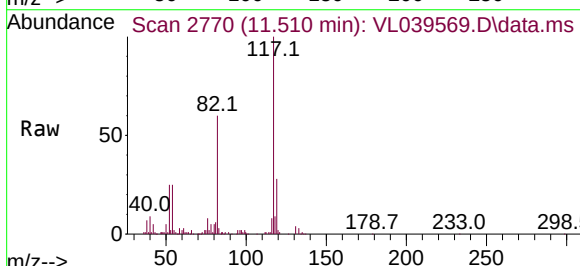
Tgt Ion:131 Resp: 4174

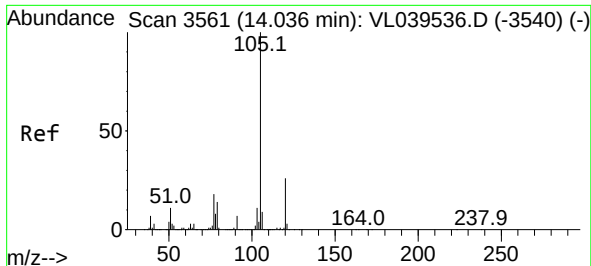
Ion Ratio Lower Upper

131 100

133 190.2 75.4 113.2#

119 0.0 47.4 71.2#

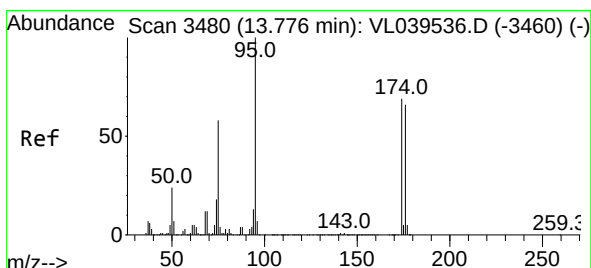
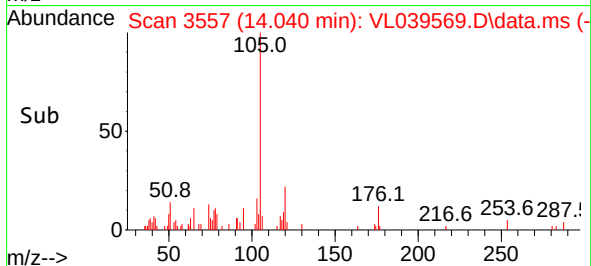
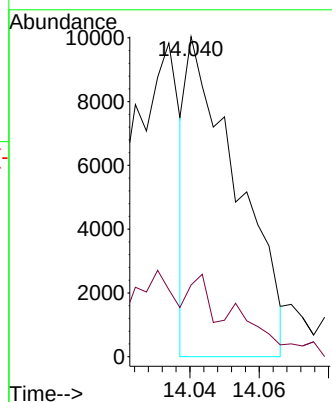
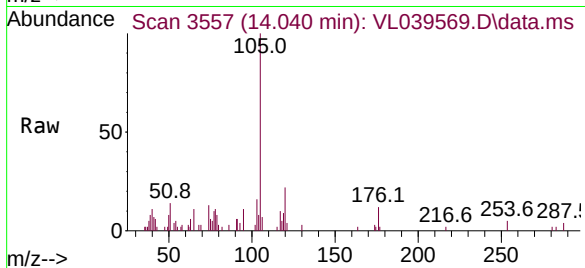




#62
Isopropylbenzene
Concen: 0.030 ppbv
RT: 14.040 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

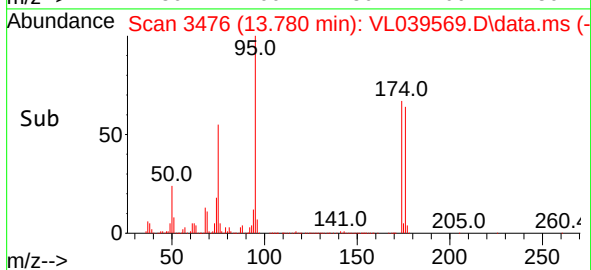
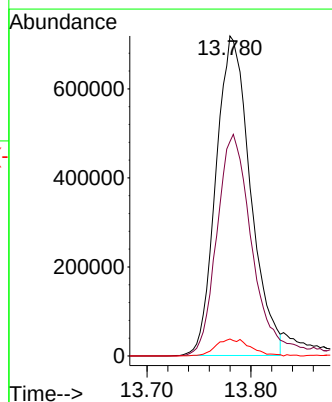
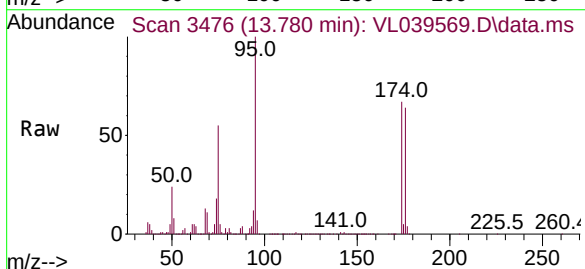
Instrument :
MSVOA_L
ClientSampleId :

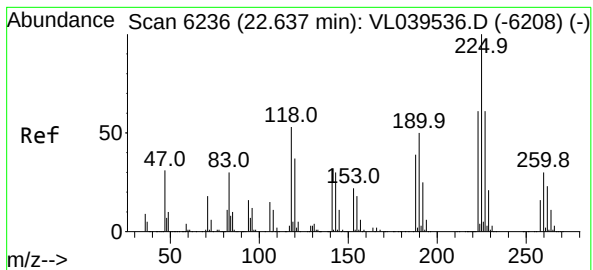
Tgt Ion:105 Resp: 10117
Ion Ratio Lower Upper
105 100
120 0.0 20.6 30.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.894 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. 0.004 min
Lab File: VL039569.D
Acq: 18 Aug 2022 21:44

Tgt Ion: 95 Resp: 1651974
Ion Ratio Lower Upper
95 100
174 75.5 56.3 84.5
175 5.4 4.3 6.5





#78

Hexachloro-1,3-Butadiene

Concen: 0.046 ppbv

RT: 22.638 min Scan# 61

Delta R.T. 0.001 min

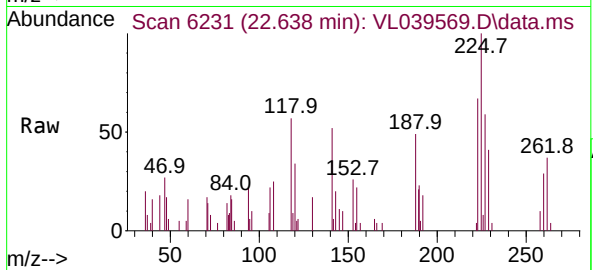
Lab File: VL039569.D

Acq: 18 Aug 2022 21:44

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:225 Resp: 5729

Ion Ratio Lower Upper

225 100

223 152.3 0.0 0.0#

227 132.5 0.0 0.0#

