

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
 Data File : VL039806.D
 Acq On : 26 Oct 2022 9:01
 Operator : SY/AP
 Sample : QC102422 CAN 10279
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC102422 CAN 10279

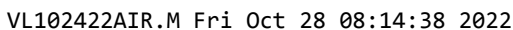
Quant Time: Oct 28 08:14:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Oct 24 20:00:55 2022
 Response via : Initial Calibration

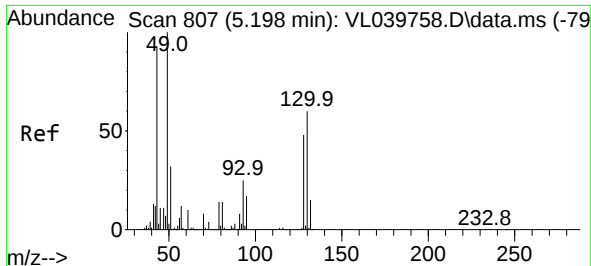
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.211	49	821084	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.668	114	2152730	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	1817679	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1254438	9.701	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.883	85	8663	0.101	ppbv	94
3) Chlorodifluoromethane	2.700	51	7362	0.075	ppbv	95
4) Chloromethane	2.838	50	5224	0.085	ppbv #	87
5) Vinyl Chloride	2.948	62	1740	0.034	ppbv #	46
6) Bromomethane	3.150	94	1585	0.086	ppbv #	62
7) Chloroethane	3.218	64	600	0.033	ppbv #	71
8) Dichlorotetrafluoroethane	2.883	85	8663	0.077	ppbv	95
11) Trichlorofluoromethane	3.591	101	6149	0.051	ppbv #	77
12) 1,1,2-Trichlorotrifluo...	4.102	101	5267	0.057	ppbv #	75
13) Ethanol	3.272	45	217	0.071	ppbv #	37
14) Bromoethene	3.398	108	1277	0.035	ppbv #	29
15) Acetone	3.520	43	11939	0.122	ppbv #	78
16) 1,3-Butadiene	3.015	39	3114	0.064	ppbv	90
20) Methylene Chloride	3.964	84	9238	0.248	ppbv #	85
22) trans-1,2-Dichloroethene	4.468	96	1953	0.046	ppbv #	55
23) Vinyl Acetate	4.661	43	2350	0.062	ppbv #	6
25) Ethyl Acetate	5.237	43	6950	0.036	ppbv #	70
26) Hexane	5.230	57	3047	0.038	ppbv #	1
27) Carbon Disulfide	4.153	76	3201	0.034	ppbv #	1
31) cis-1,2-Dichloroethene	5.105	61	4294	0.056	ppbv #	61
32) 1,1,1-Trichloroethane	6.021	97	4012	0.035	ppbv #	32
35) Carbon Tetrachloride	6.510	117	6833	0.056	ppbv	92
37) 1,2-Dichloroethane	5.822	62	4784	0.053	ppbv #	95
39) 1,2-Dichloropropane	6.668	63	519010	8.126	ppbv #	25
52) Tetrachloroethene	10.623	164	3024	0.049	ppbv #	36
54) 1,2-Dibromoethane	10.018	107	3038	0.044	ppbv #	28
56) 1,1,1,2-Tetrachloroethane	11.516	131	3341	0.043	ppbv #	31
57) Chlorobenzene	11.539	112	5620	0.040	ppbv #	42

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

Quant Time: Oct 28 08:14:29 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Oct 24 20:00:55 2022
Response via : Initial Calibration

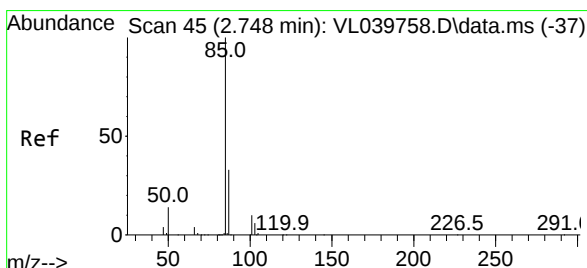
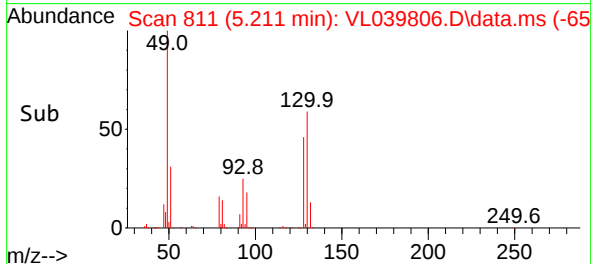
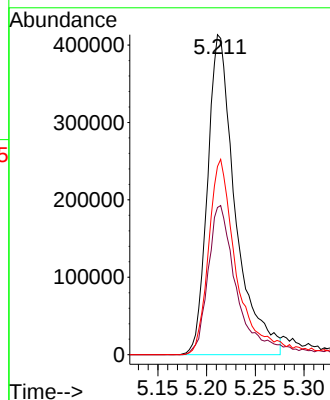
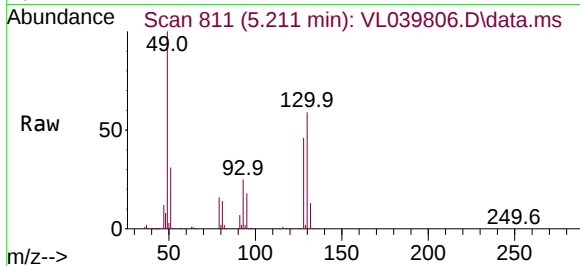




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

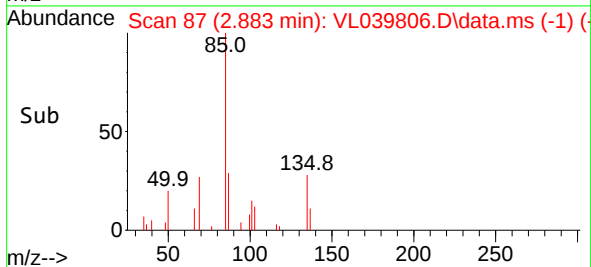
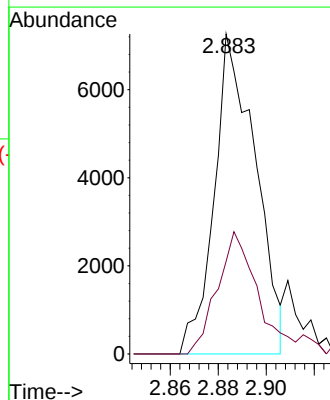
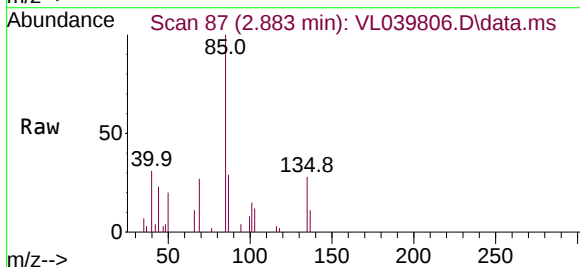
Instrument :
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QC102422 CAN 10279

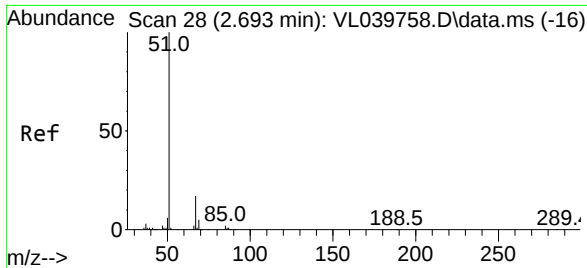
Tgt Ion: 49 Resp: 821084
Ion Ratio Lower Upper
49 100
128 48.8 24.6 74.0
130 64.9 31.8 95.3



#2
Dichlorodifluoromethane
Concen: 0.101 ppbv
RT: 2.883 min Scan# 87
Delta R.T. 0.135 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

Tgt Ion: 85 Resp: 8663
Ion Ratio Lower Upper
85 100
87 29.0 26.1 39.1

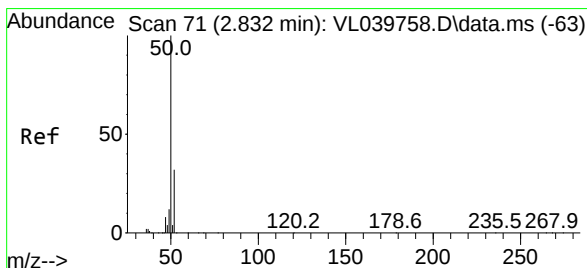
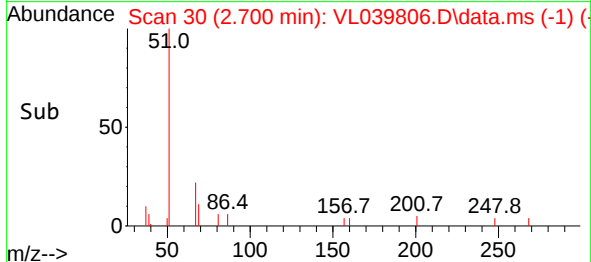
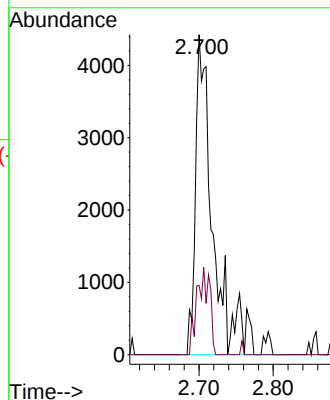
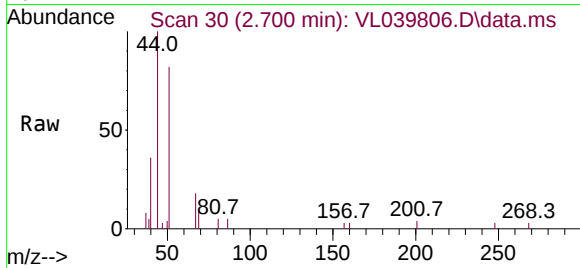




#3
Chlorodifluoromethane
Concen: 0.075 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.007 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

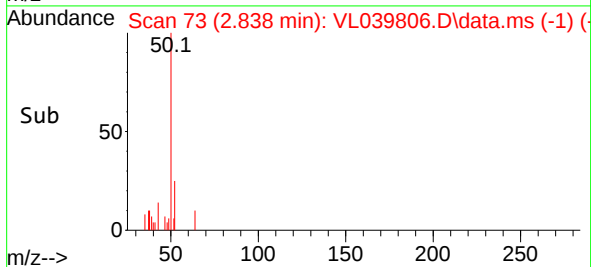
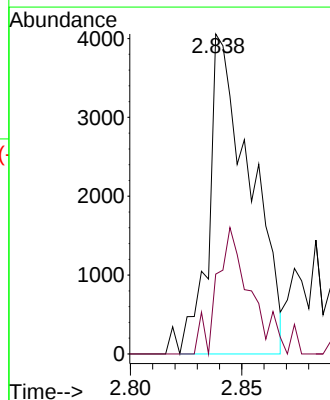
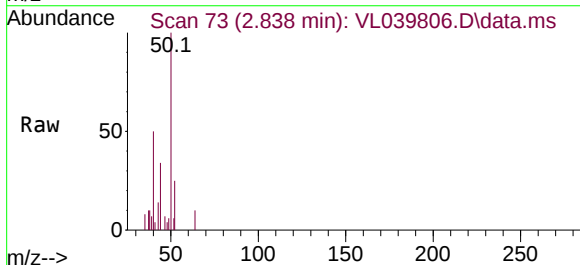
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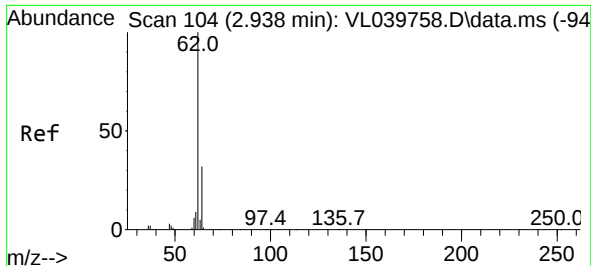
Tgt Ion: 51 Resp: 7362
Ion Ratio Lower Upper
51 100
67 19.7 14.2 21.2



#4
Chloromethane
Concen: 0.085 ppbv
RT: 2.838 min Scan# 73
Delta R.T. 0.007 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

Tgt Ion: 50 Resp: 5224
Ion Ratio Lower Upper
50 100
52 24.9 25.9 38.9#

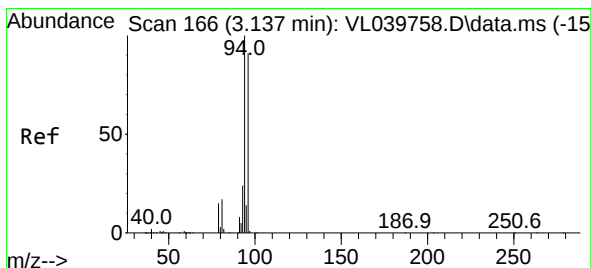
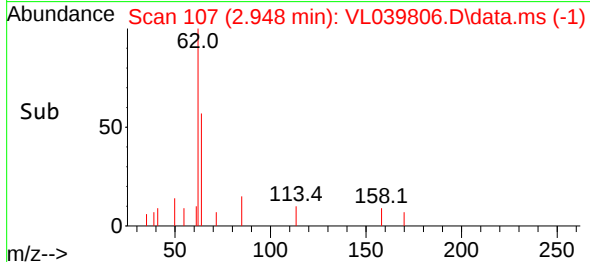
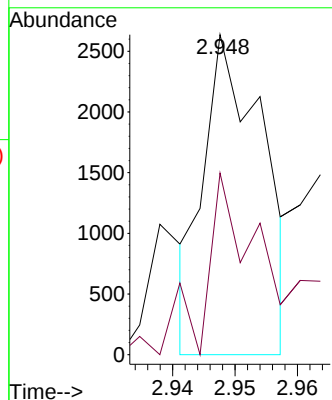
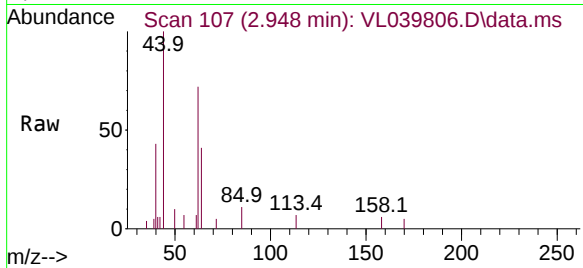




#5
 Vinyl Chloride
 Concen: 0.034 ppbv
 RT: 2.948 min Scan# 11
 Delta R.T. 0.010 min
 Lab File: VL039806.D
 Acq: 26 Oct 2022 9:01

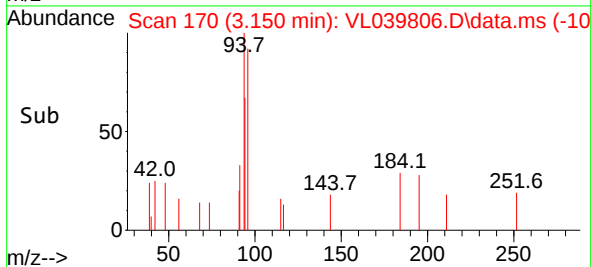
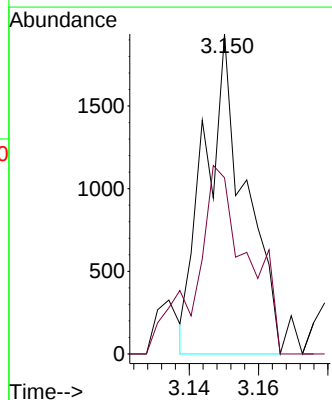
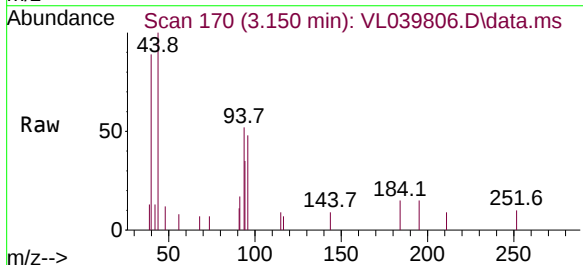
Instrument :
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 ClientSampleId :
 QC102422 CAN 10279

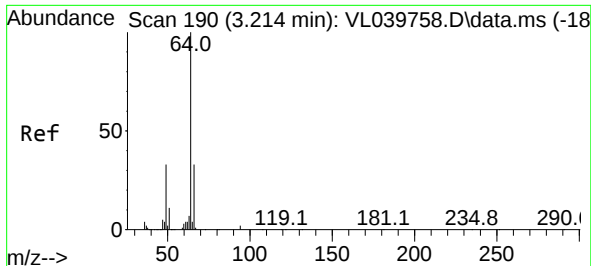
Tgt Ion: 62 Resp: 1740
 Ion Ratio Lower Upper
 62 100
 64 62.8 26.0 39.0#



#6
 Bromomethane
 Concen: 0.086 ppbv
 RT: 3.150 min Scan# 170
 Delta R.T. 0.013 min
 Lab File: VL039806.D
 Acq: 26 Oct 2022 9:01

Tgt Ion: 94 Resp: 1585
 Ion Ratio Lower Upper
 94 100
 96 55.1 73.0 109.6#

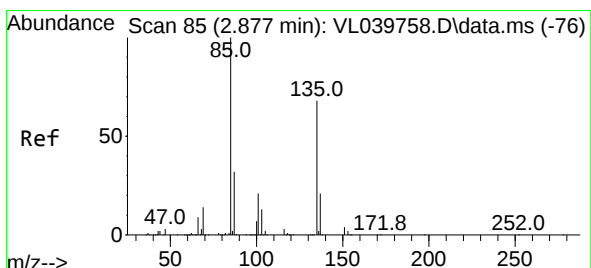
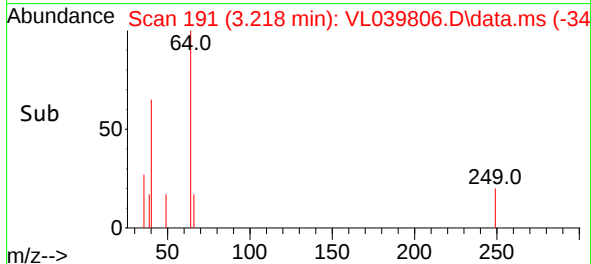
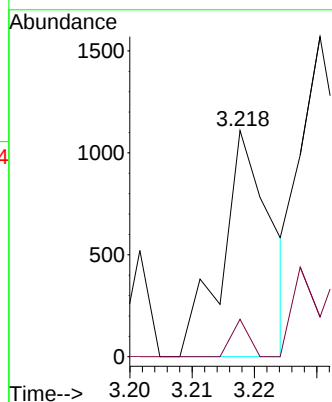
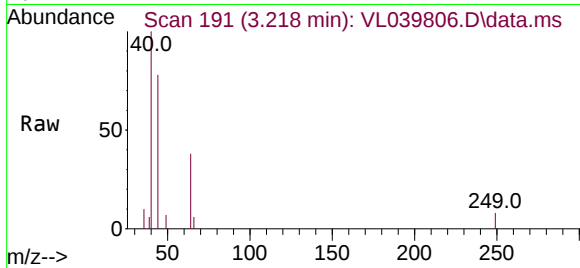




#7
Chloroethane
Concen: 0.033 ppbv
RT: 3.218 min Scan# 190
Delta R.T. 0.003 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

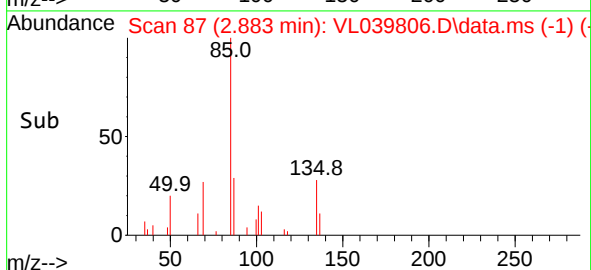
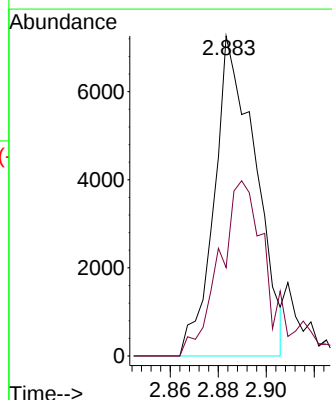
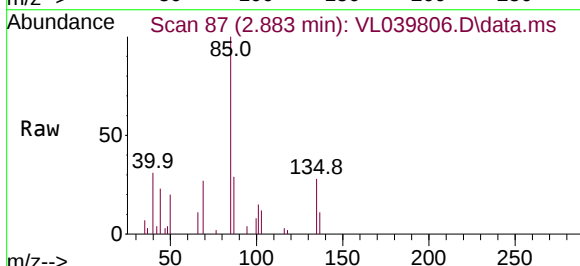
Instrument :
MSVOA_L
ClientSampleId :
QC102422 CAN 10279

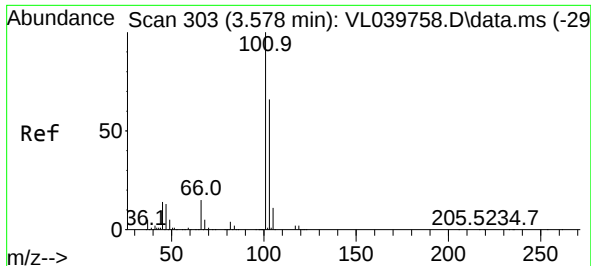
Tgt Ion: 64 Resp: 600
Ion Ratio Lower Upper
64 100
66 16.6 26.3 39.5#



#8
Dichlorotetrafluoroethane
Concen: 0.077 ppbv
RT: 2.883 min Scan# 87
Delta R.T. 0.007 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

Tgt Ion: 85 Resp: 8663
Ion Ratio Lower Upper
85 100
135 65.8 55.8 83.6

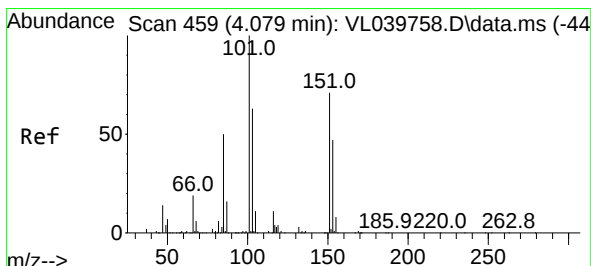
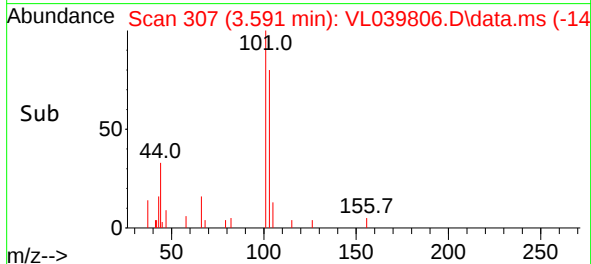
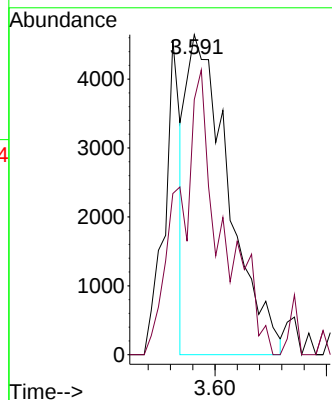
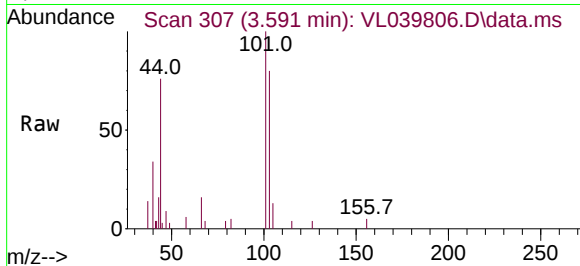




#11
 Trichlorofluoromethane
 Concen: 0.051 ppbv
 RT: 3.591 min Scan# 303
 Delta R.T. 0.013 min
 Lab File: VL039806.D
 Acq: 26 Oct 2022 9:01

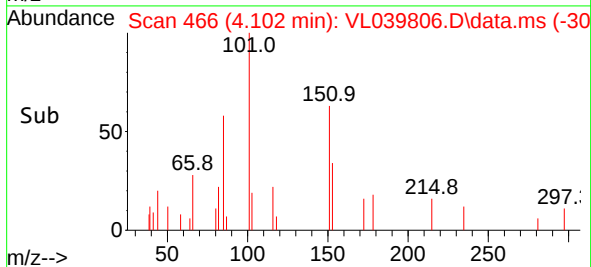
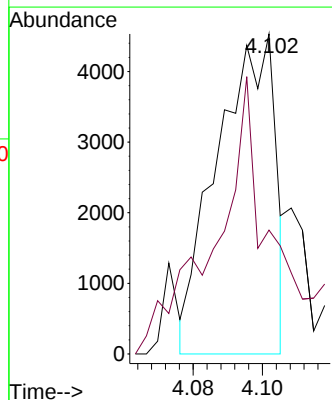
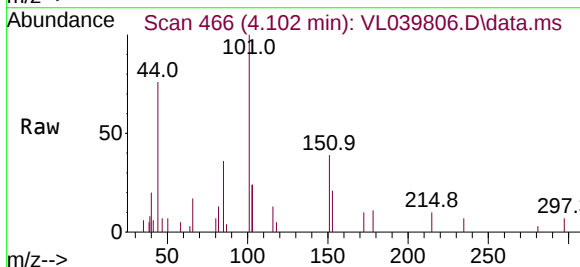
Instrument :
 MSVOA_L
 ClientSampleId :
 QC102422 CAN 10279

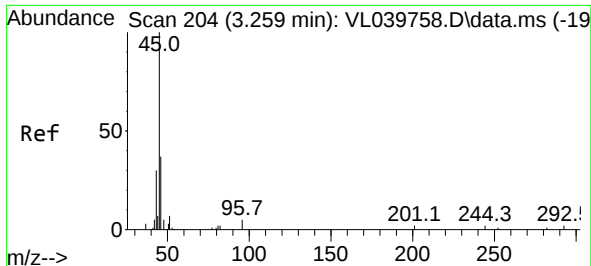
Tgt Ion:101 Resp: 6149
 Ion Ratio Lower Upper
 101 100
 103 83.9 52.7 79.1#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.057 ppbv
 RT: 4.102 min Scan# 466
 Delta R.T. 0.023 min
 Lab File: VL039806.D
 Acq: 26 Oct 2022 9:01

Tgt Ion:101 Resp: 5267
 Ion Ratio Lower Upper
 101 100
 151 91.0 56.6 84.8#

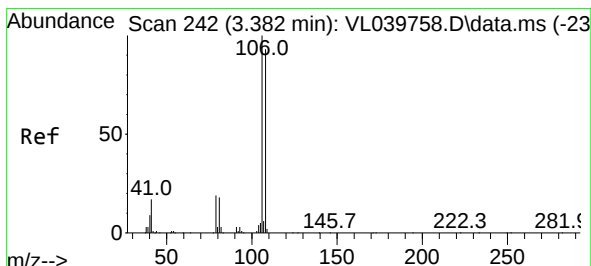
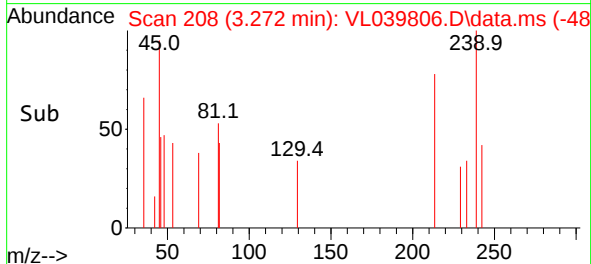
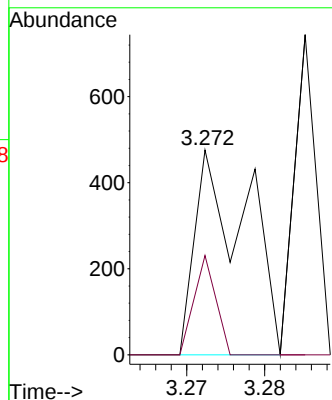
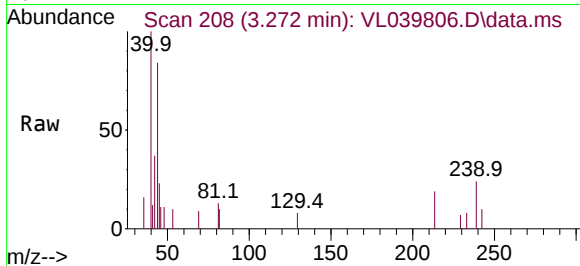




#13
 Ethanol
 Concen: 0.071 ppbv
 RT: 3.272 min Scan# 204
 Delta R.T. 0.013 min
 Lab File: VL039806.D
 Acq: 26 Oct 2022 9:01

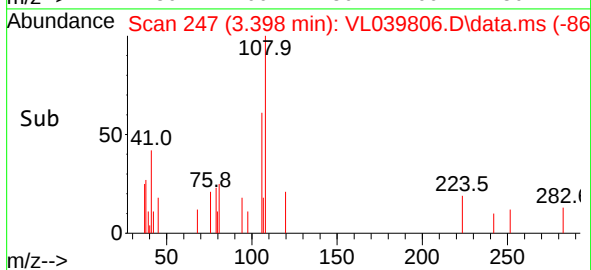
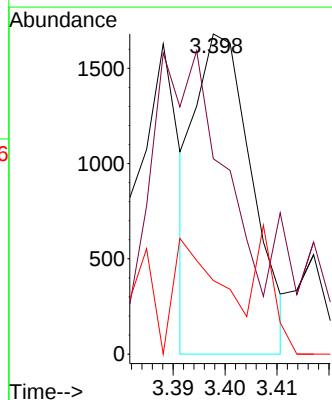
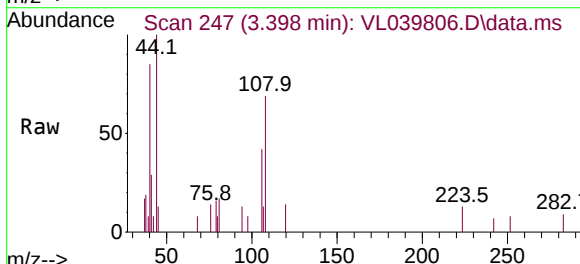
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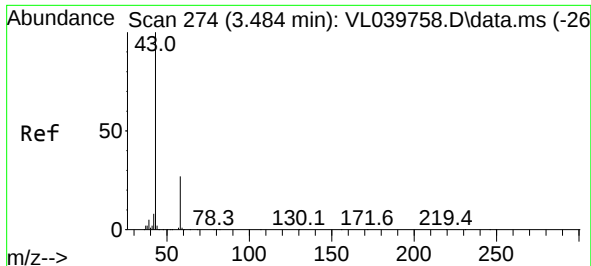
Tgt Ion: 45 Resp: 217
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.3 61.3#



#14
 Bromoethene
 Concen: 0.035 ppbv
 RT: 3.398 min Scan# 247
 Delta R.T. 0.016 min
 Lab File: VL039806.D
 Acq: 26 Oct 2022 9:01

Tgt Ion: 108 Resp: 1277
 Ion Ratio Lower Upper
 108 100
 106 195.3 90.6 136.0#
 79 0.0 16.6 24.8#

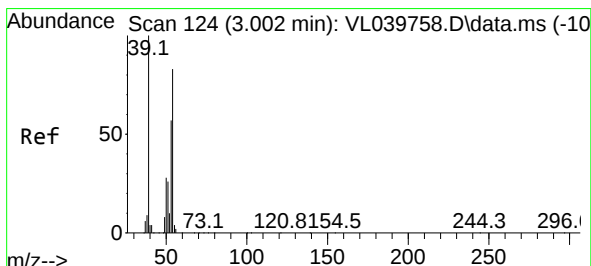
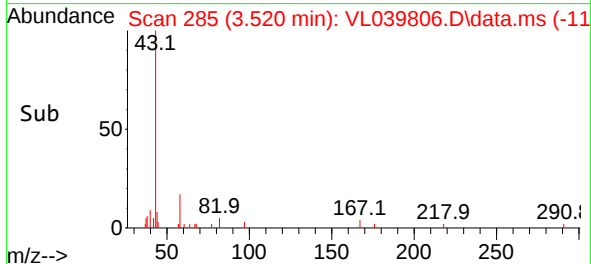
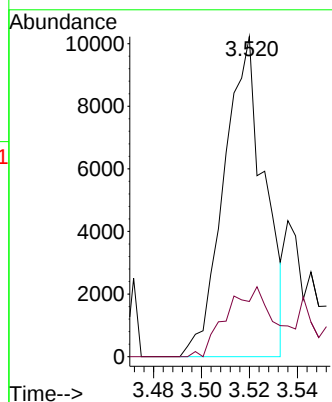
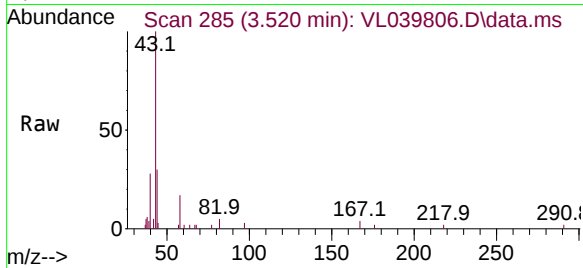




#15
Acetone
Concen: 0.122 ppbv
RT: 3.520 min Scan# 21
Delta R.T. 0.035 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

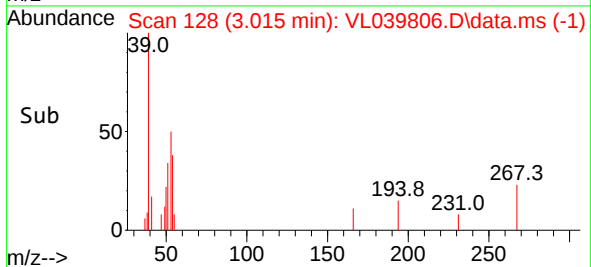
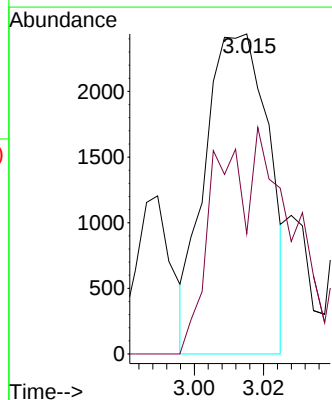
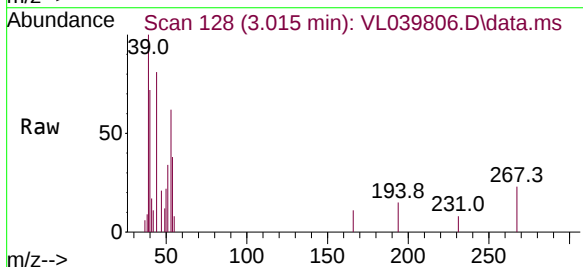
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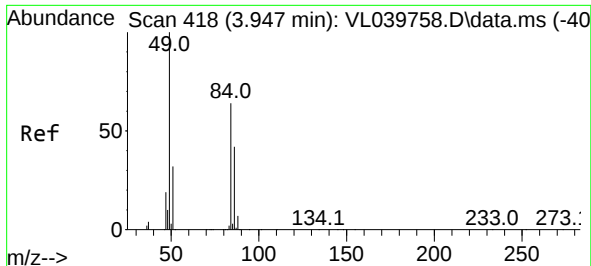
Tgt Ion: 43 Resp: 11939
Ion Ratio Lower Upper
43 100
58 37.3 20.7 31.1#



#16
1,3-Butadiene
Concen: 0.064 ppbv
RT: 3.015 min Scan# 128
Delta R.T. 0.013 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

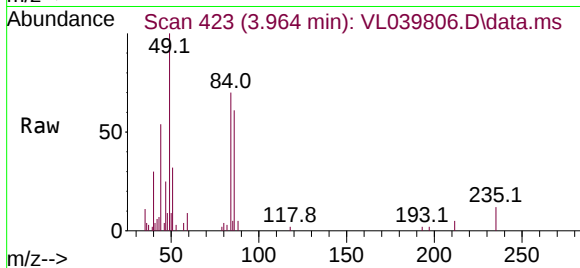
Tgt Ion: 39 Resp: 3114
Ion Ratio Lower Upper
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54 89.8 64.6 97.0



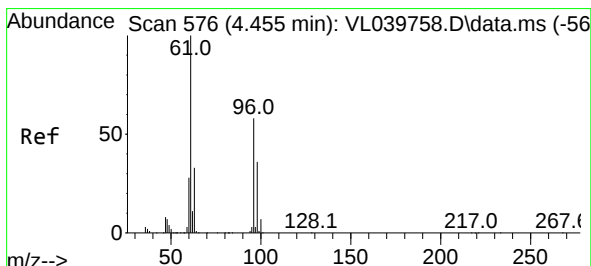
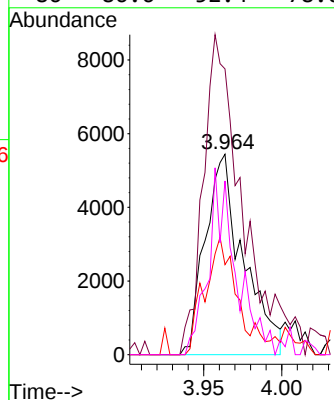
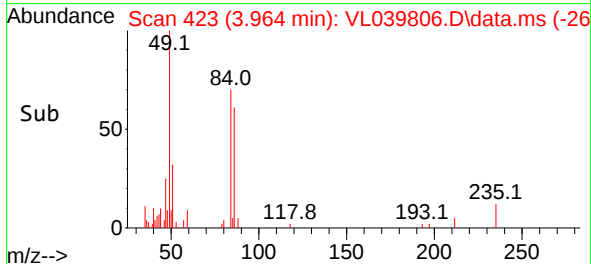


#20
Methylene Chloride
Concen: 0.248 ppbv
RT: 3.964 min Scan# 418
Delta R.T. 0.016 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

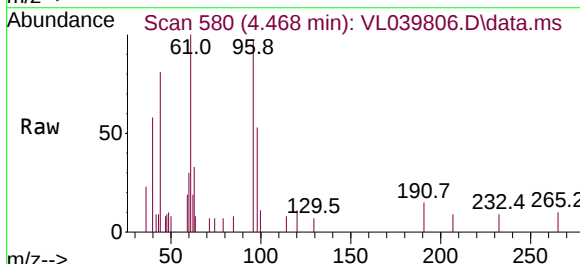
Instrument :
MSVOA_L
ClientSampleId :
QC102422 CAN 10279



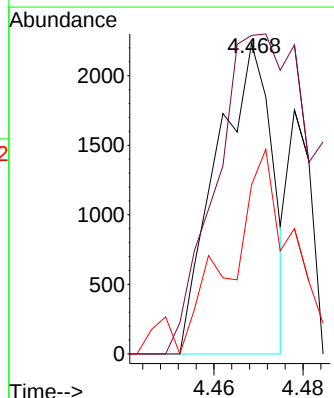
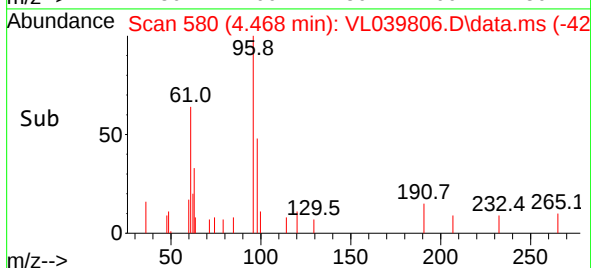
Tgt Ion: 84 Resp: 9238
Ion Ratio Lower Upper
84 100
49 142.5 126.0 189.0
51 44.9 40.9 61.3
86 86.6 52.4 78.6#

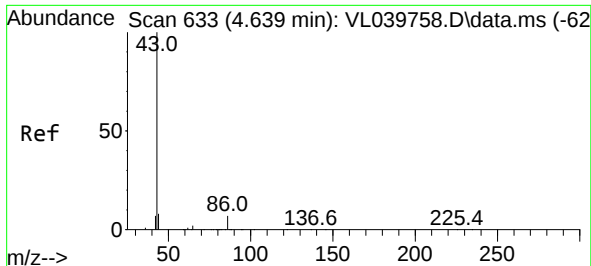


#22
trans-1,2-Dichloroethene
Concen: 0.046 ppbv
RT: 4.468 min Scan# 580
Delta R.T. 0.013 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01



Tgt Ion: 96 Resp: 1953
Ion Ratio Lower Upper
96 100
61 92.6 137.1 205.7#
98 54.5 49.8 74.6

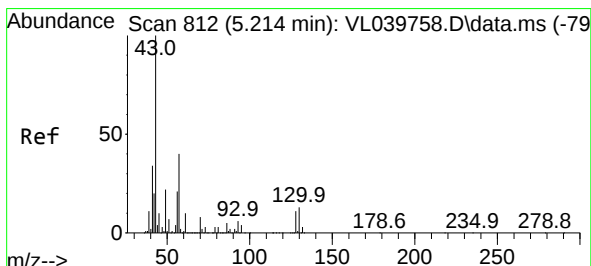
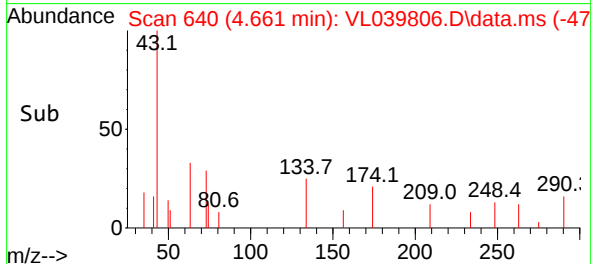
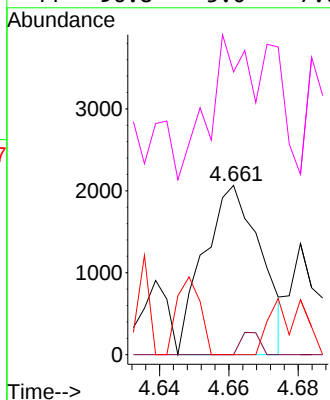
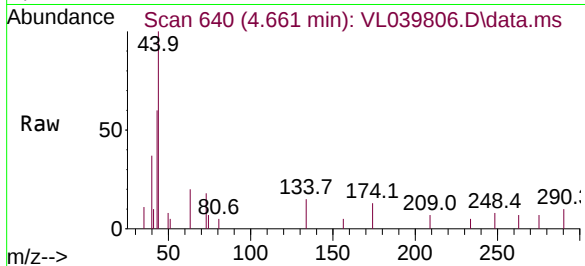




#23
 Vinyl Acetate
 Concen: 0.062 ppbv
 RT: 4.661 min Scan# 640
 Delta R.T. 0.023 min
 Lab File: VL039806.D
 Acq: 26 Oct 2022 9:01

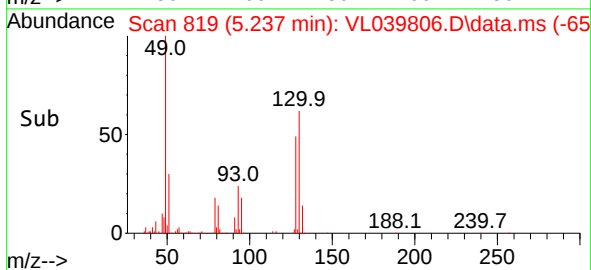
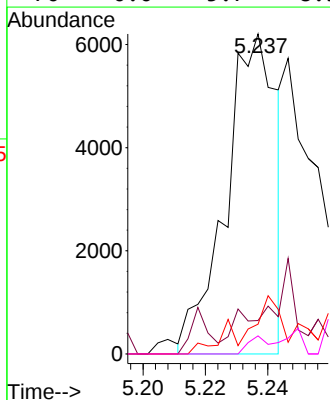
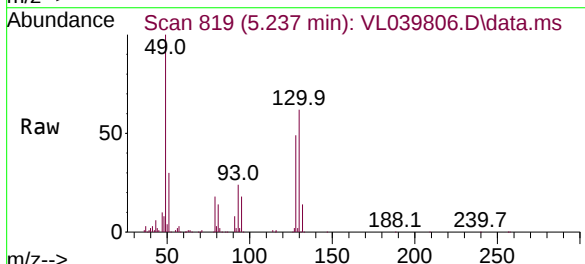
Instrument :
 MSVOA_1
 ClientSampleId :
 QC102422 CAN 10279

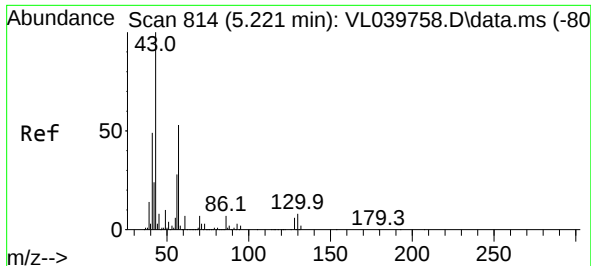
Tgt Ion: 43	Resp: 2350
Ion Ratio	Lower Upper
43 100	
86 0.0	4.9 7.3#
42 0.0	7.2 10.8#
44 96.8	5.0 7.6#



#25
 Ethyl Acetate
 Concen: 0.036 ppbv
 RT: 5.237 min Scan# 819
 Delta R.T. 0.023 min
 Lab File: VL039806.D
 Acq: 26 Oct 2022 9:01

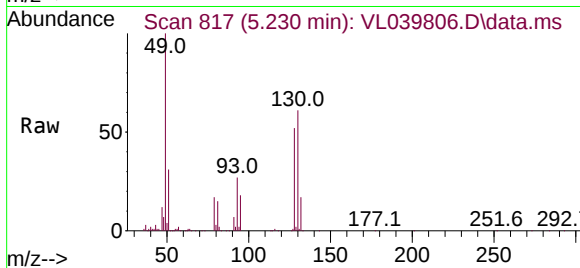
Tgt Ion: 43	Resp: 6950
Ion Ratio	Lower Upper
43 100	
45 0.0	8.2 12.2#
61 24.9	8.2 12.4#
70 0.0	5.7 8.5#





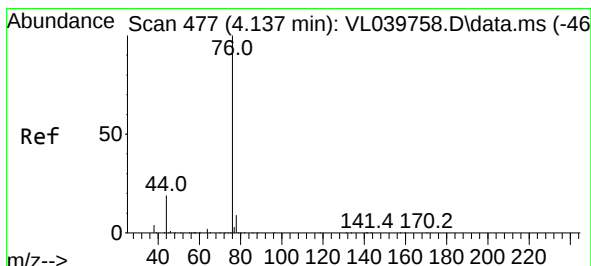
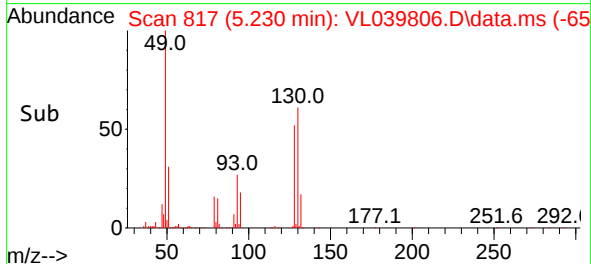
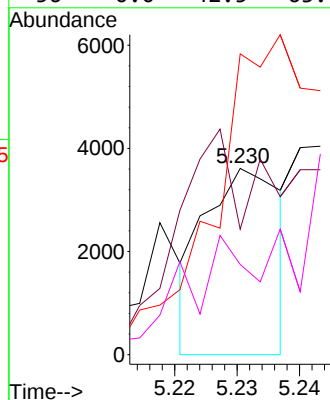
#26
Hexane
Concen: 0.038 ppbv
RT: 5.230 min Scan# 814
Delta R.T. 0.010 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

Instrument :
MSVOA_L
ClientSampleId :
QC102422 CAN 10279



Tgt Ion: 57 Resp: 3047

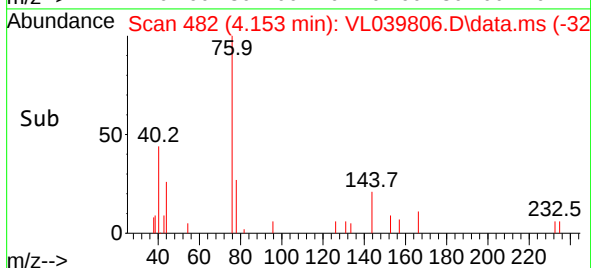
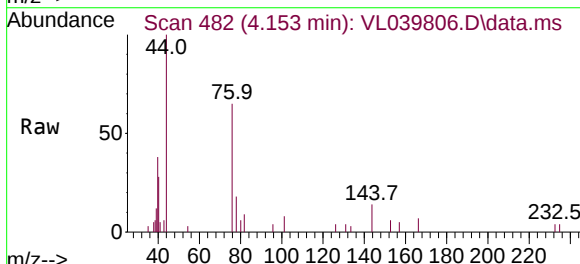
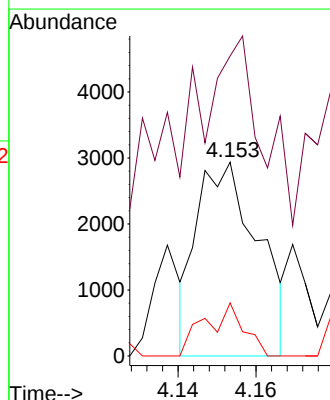
Ion	Ratio	Lower	Upper
57	100		
41	261.2	76.1	114.1#
43	0.0	197.1	295.7#
56	0.0	42.5	63.7#

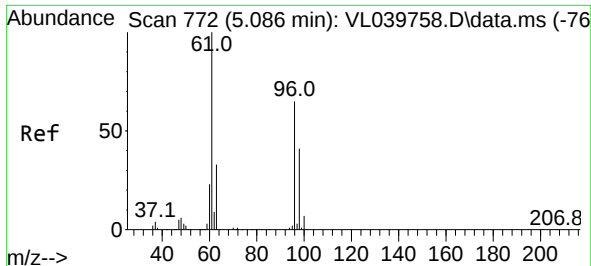


#27
Carbon Disulfide
Concen: 0.034 ppbv
RT: 4.153 min Scan# 482
Delta R.T. 0.016 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

Tgt Ion: 76 Resp: 3201

Ion	Ratio	Lower	Upper
76	100		
44	132.9	16.6	25.0#
78	20.8	7.6	11.4#

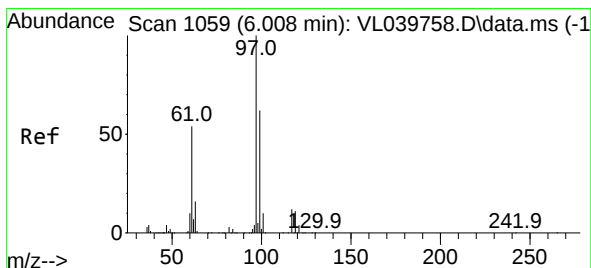
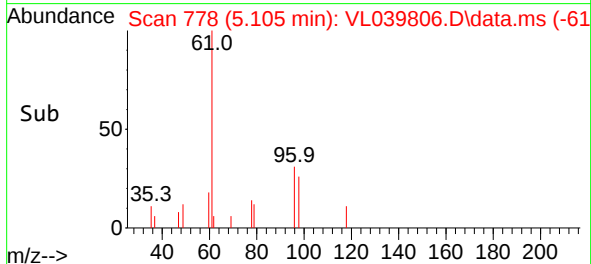
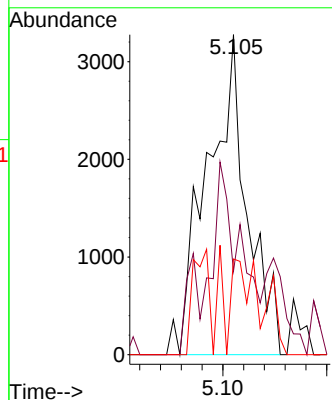
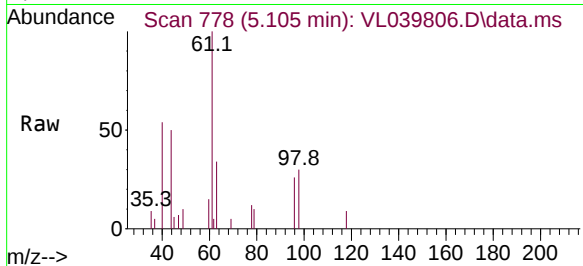




#31
 cis-1,2-Dichloroethene
 Concen: 0.056 ppbv
 RT: 5.105 min Scan# 71
 Delta R.T. 0.019 min
 Lab File: VL039806.D
 Acq: 26 Oct 2022 9:01

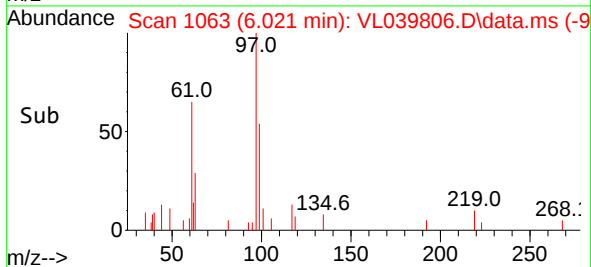
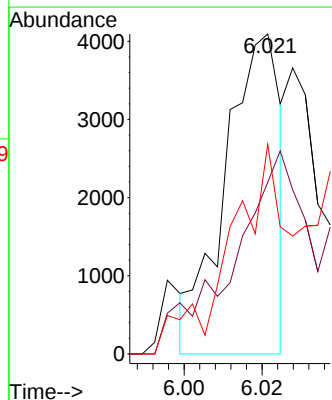
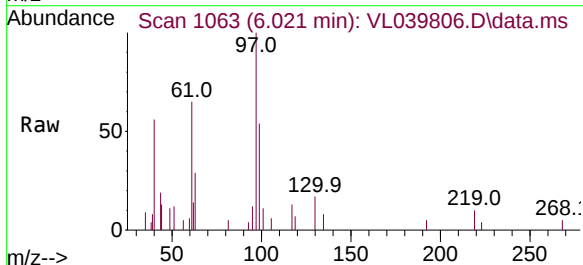
Instrument :
 MSVOA_L
 ClientSampleId :
 QC102422 CAN 10279

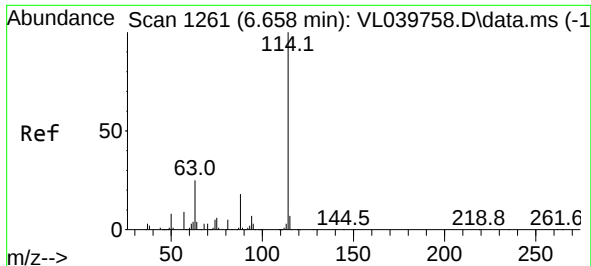
Tgt Ion: 61 Resp: 4294
 Ion Ratio Lower Upper
 61 100
 96 24.9 52.2 78.2#
 98 28.6 32.9 49.3#



#32
 1,1,1-Trichloroethane
 Concen: 0.035 ppbv
 RT: 6.021 min Scan# 1063
 Delta R.T. 0.013 min
 Lab File: VL039806.D
 Acq: 26 Oct 2022 9:01

Tgt Ion: 97 Resp: 4012
 Ion Ratio Lower Upper
 97 100
 99 112.6 52.2 78.4#
 61 110.0 43.2 64.8#

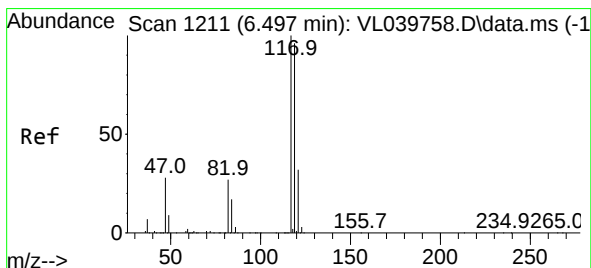
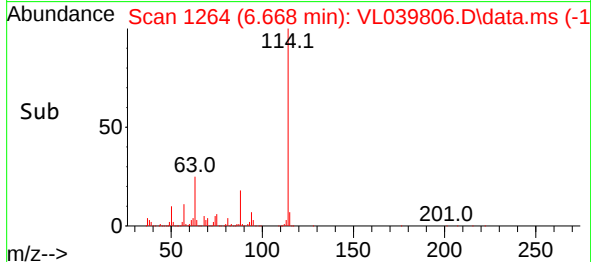
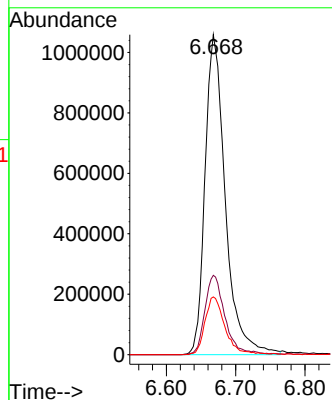
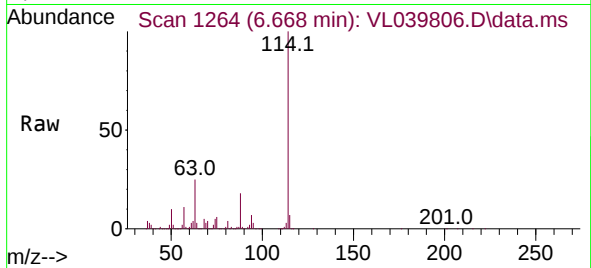




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.668 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

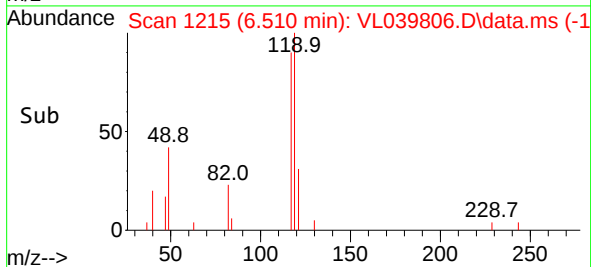
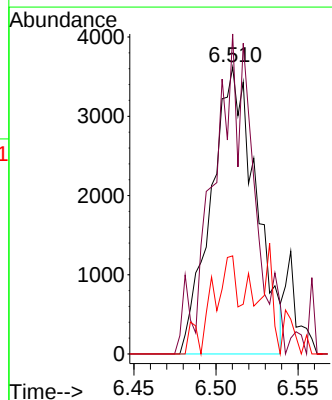
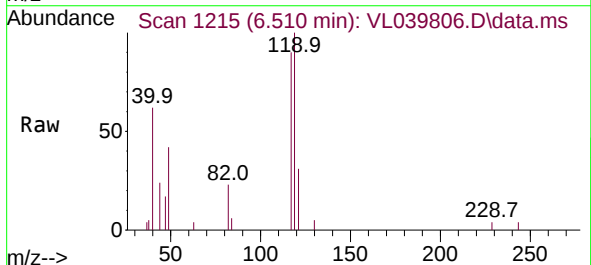
Instrument :
MSVOA_L
ClientSampleId :
QC102422 CAN 10279

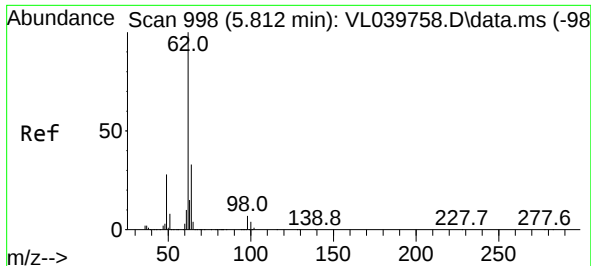
Tgt Ion:114 Resp: 2152730
Ion Ratio Lower Upper
114 100
63 24.8 20.1 30.1
88 18.0 14.5 21.7



#35
Carbon Tetrachloride
Concen: 0.056 ppbv
RT: 6.510 min Scan# 1215
Delta R.T. 0.013 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

Tgt Ion:117 Resp: 6833
Ion Ratio Lower Upper
117 100
119 105.1 76.6 115.0
121 34.2 25.3 37.9





#37

1,2-Dichloroethane

Concen: 0.053 ppbv

RT: 5.822 min Scan# 1

Delta R.T. 0.010 min

Lab File: VL039806.D

Acq: 26 Oct 2022 9:01

Instrument :

MSVOA_L

ClientSampleId :

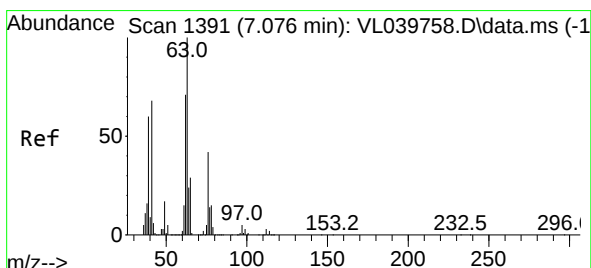
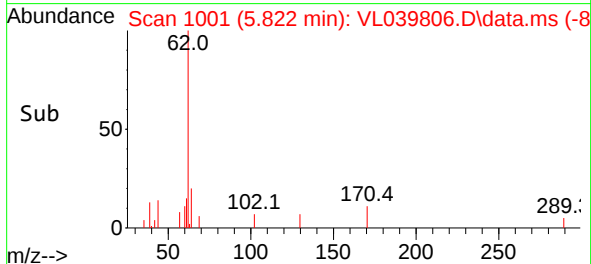
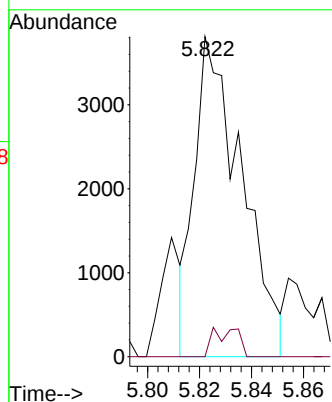
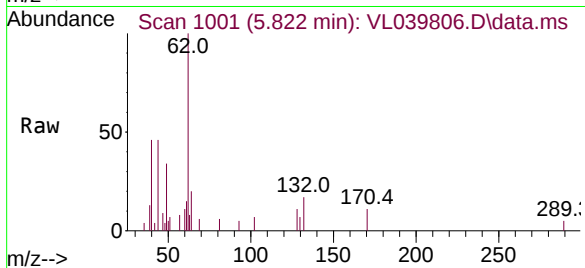
QC102422 CAN 10279

Tgt Ion: 62 Resp: 4784

Ion Ratio Lower Upper

62 100

98 4.8 5.2 7.8#



#39

1,2-Dichloropropane

Concen: 8.126 ppbv

RT: 6.668 min Scan# 1264

Delta R.T. -0.408 min

Lab File: VL039806.D

Acq: 26 Oct 2022 9:01

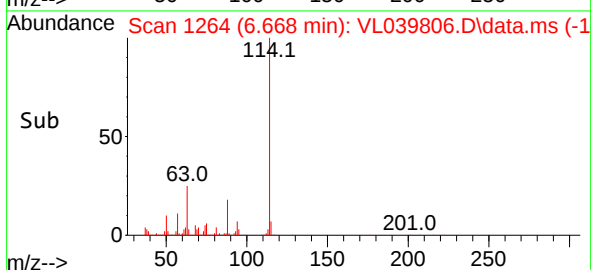
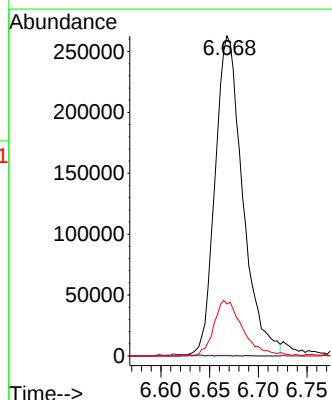
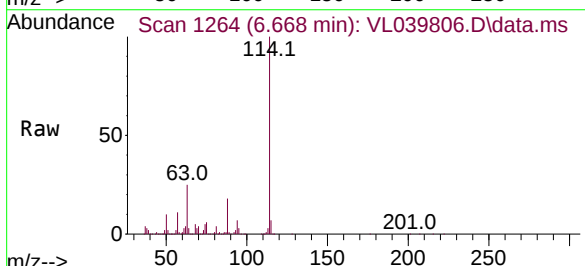
Tgt Ion: 63 Resp: 519010

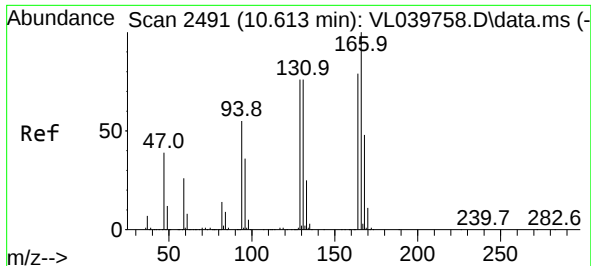
Ion Ratio Lower Upper

63 100

41 0.2 54.5 81.7#

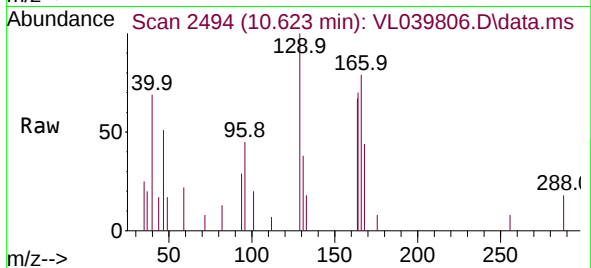
62 16.3 56.6 85.0#



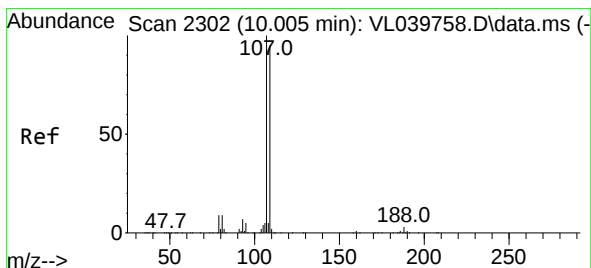
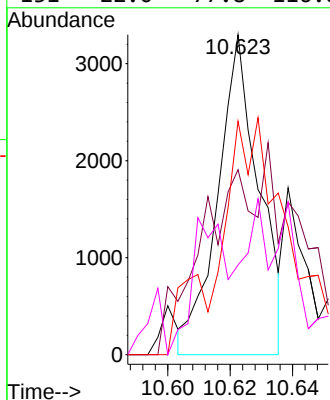
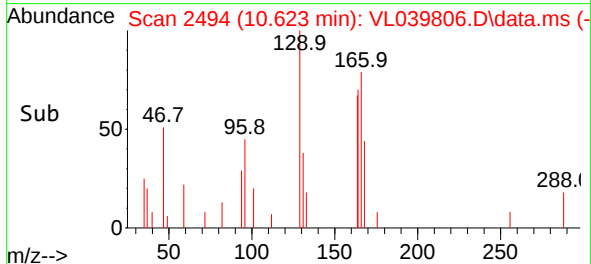


#52
Tetrachloroethene
Concen: 0.049 ppbv
RT: 10.623 min Scan# 2491
Delta R.T. 0.010 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

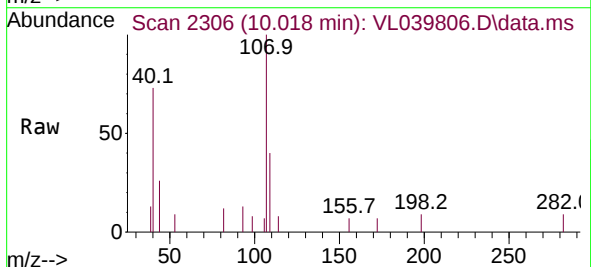
Instrument :
MSVOA_L
ClientSampleId :
QC102422 CAN 10279



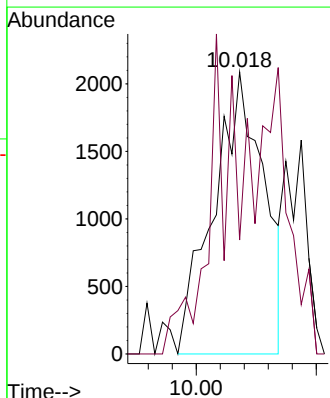
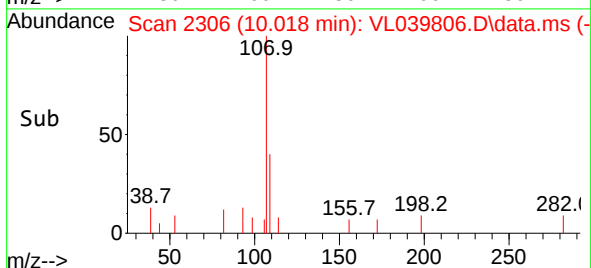
Tgt Ion:164 Resp: 3024
Ion Ratio Lower Upper
164 100
166 44.7 101.8 152.6#
129 56.5 77.5 116.3#
131 22.0 77.8 116.8#

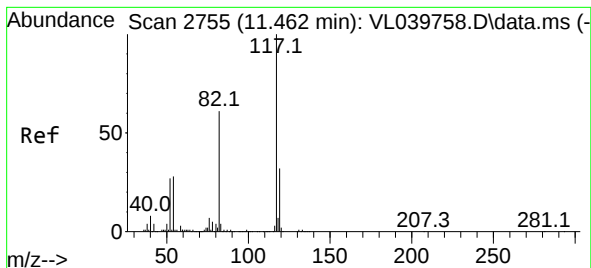


#54
1,2-Dibromoethane
Concen: 0.044 ppbv
RT: 10.018 min Scan# 2306
Delta R.T. 0.013 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01



Tgt Ion:107 Resp: 3038
Ion Ratio Lower Upper
107 100
109 25.0 75.8 113.8#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.475 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL039806.D

Acq: 26 Oct 2022 9:01

Instrument :

MSVOA_L

ClientSampleId :

QC102422 CAN 10279

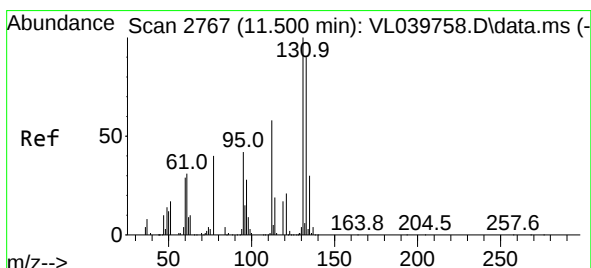
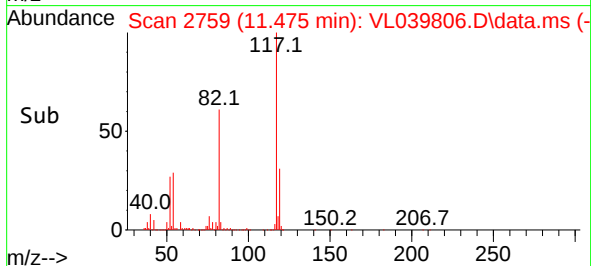
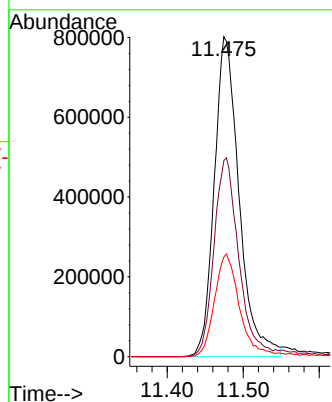
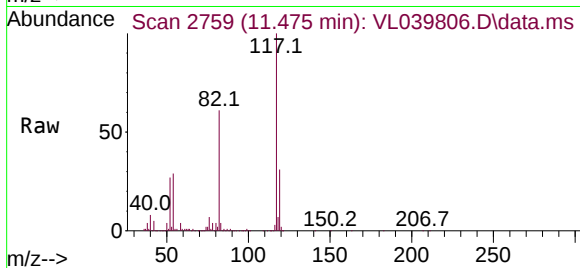
Tgt Ion:117 Resp: 1817679

Ion Ratio Lower Upper

117 100

82 65.0 49.9 74.9

119 33.6 25.2 37.8



#56

1,1,1,2-Tetrachloroethane

Concen: 0.043 ppbv

RT: 11.516 min Scan# 2772

Delta R.T. 0.016 min

Lab File: VL039806.D

Acq: 26 Oct 2022 9:01

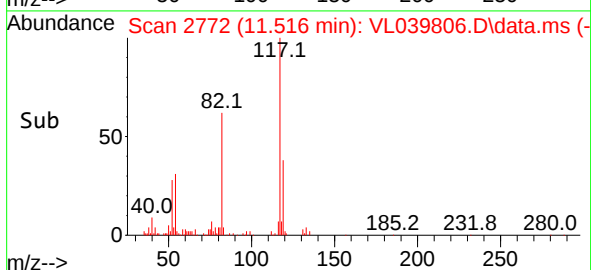
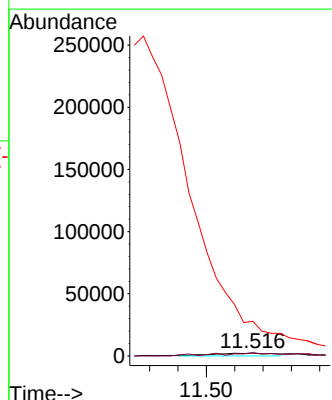
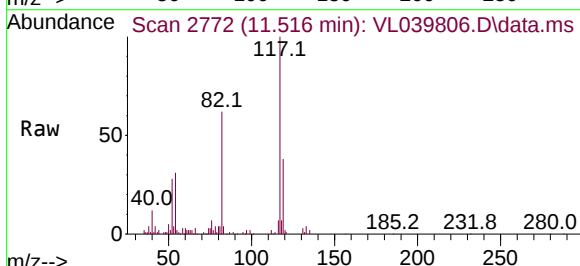
Tgt Ion:131 Resp: 3341

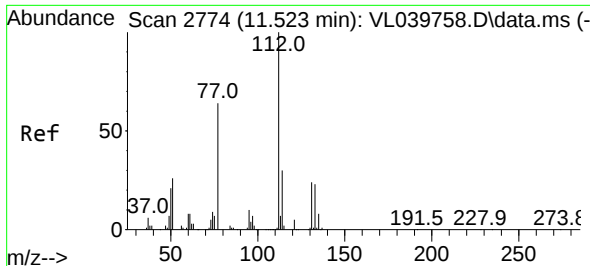
Ion Ratio Lower Upper

131 100

133 154.7 77.1 115.7#

119 0.0 52.0 78.0#

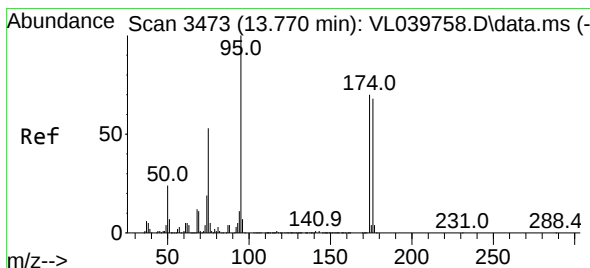
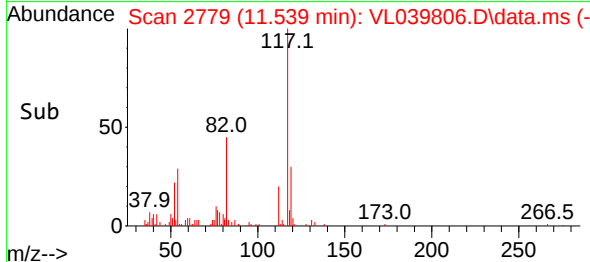
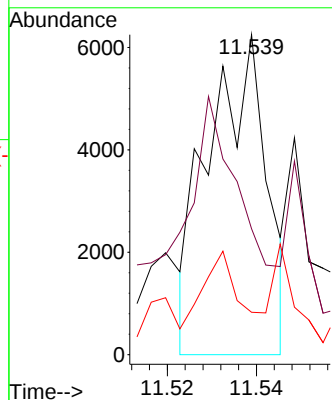
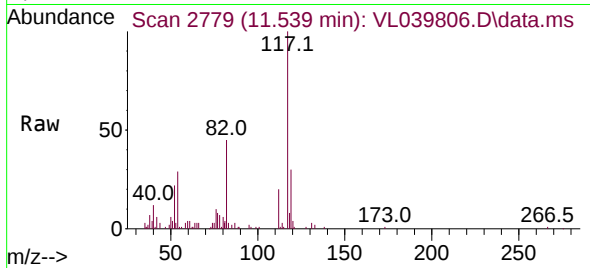




#57
Chlorobenzene
Concen: 0.040 ppbv
RT: 11.539 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

Instrument :
MSVOA_L
ClientSampleId :
QC102422 CAN 10279

Tgt Ion:112 Resp: 5620
Ion Ratio Lower Upper
112 100
77 15.9 51.5 77.3#
114 3.3 27.1 33.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.701 ppbv
RT: 13.786 min Scan# 3478
Delta R.T. 0.016 min
Lab File: VL039806.D
Acq: 26 Oct 2022 9:01

Tgt Ion: 95 Resp: 1254438
Ion Ratio Lower Upper
95 100
174 75.3 57.3 85.9
175 5.0 4.2 6.2

