

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092222\
 Data File : VL039672.D
 Acq On : 22 Sep 2022 18:58
 Operator : SY/AP
 Sample : N4669-13DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG5DL

Quant Time: Sep 23 06:36:36 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Sep 19 14:26:28 2022
 Response via : Initial Calibration

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

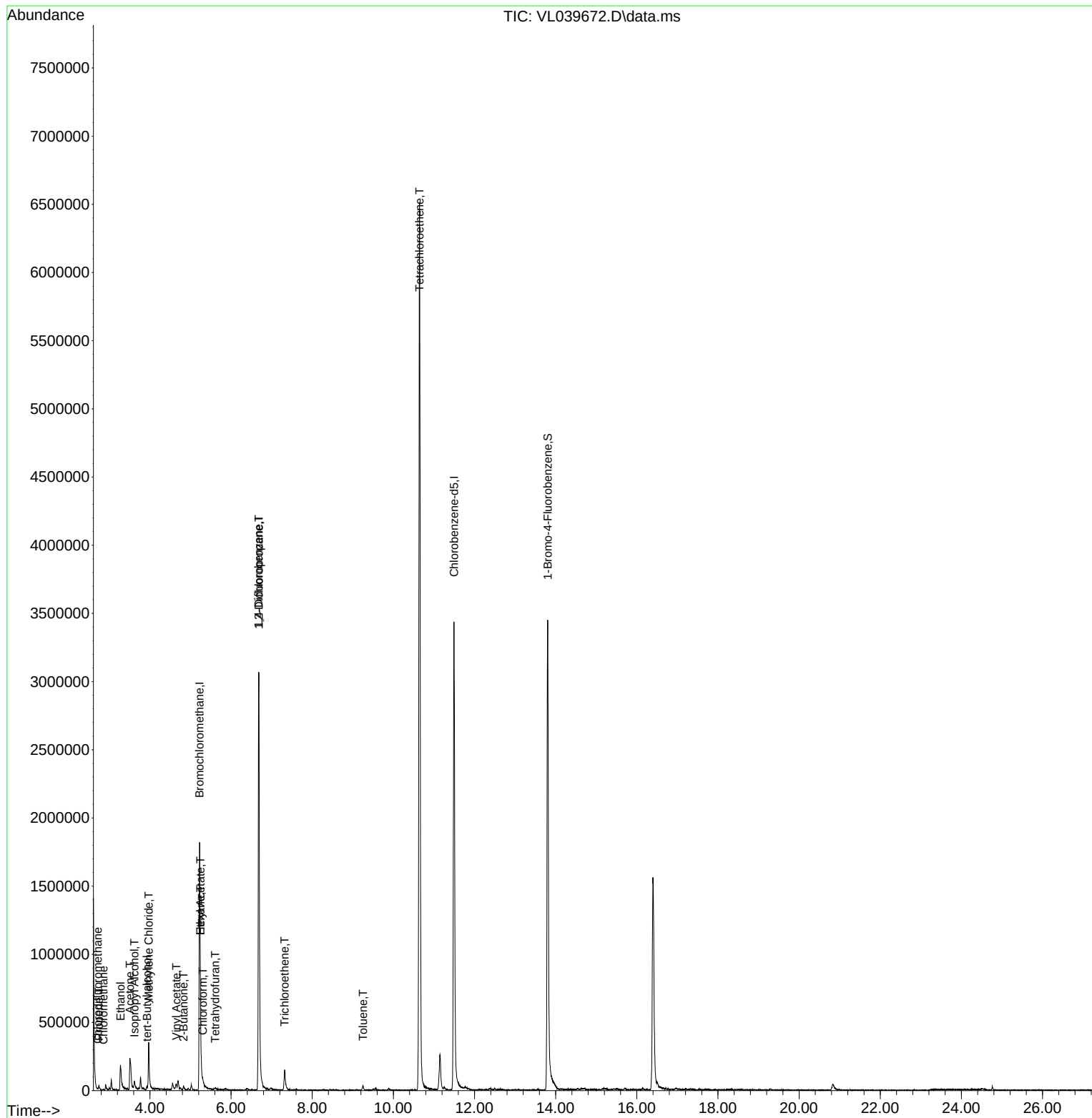
Internal Standards						
1) Bromochloromethane	5.224	49	939826	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.680	114	2424519	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.494	117	2286517	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.806	95	1667371	9.769	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.709	51	7960	0.071	ppbv #	87
4) Chloromethane	2.854	50	5760	0.086	ppbv #	52
9) Propene	2.742	41	8970	0.176	ppbv	94
13) Ethanol	3.275	45	226193	58.280	ppbv	72
15) Acetone	3.507	43	288602	2.760	ppbv	98
17) tert-Butyl alcohol	3.931	59	13065	0.139	ppbv #	79
19) Isopropyl Alcohol	3.619	45	54536	1.023	ppbv #	80
20) Methylene Chloride	3.967	84	114088	2.360	ppbv	94
23) Vinyl Acetate	4.652	43	9162	0.194	ppbv #	45
25) Ethyl Acetate	5.243	43	21405	0.094	ppbv #	81
26) Hexane	5.243	57	44430	0.459	ppbv #	46
29) Chloroform	5.304	83	8848	0.063	ppbv	87
34) 2-Butanone	4.828	43	16072	0.135	ppbv #	55
38) Trichloroethene	7.317	130	42623	0.425	ppbv	95
39) 1,2-Dichloropropane	6.684	63	589456	8.235	ppbv #	25
41) Tetrahydrofuran	5.613	42	4076	0.056	ppbv #	83
52) Tetrachloroethene	10.645	164	1715278	24.255	ppbv	98
53) Toluene	9.249	91	13134	0.064	ppbv #	52

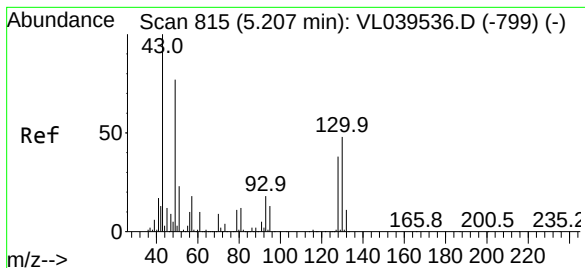
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092222\
Data File : VL039672.D
Acq On : 22 Sep 2022 18:58
Operator : SY/AP
Sample : N4669-13DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
C0PG5DL

Quant Time: Sep 23 06:36:36 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Sep 19 14:26:28 2022
Response via : Initial Calibration

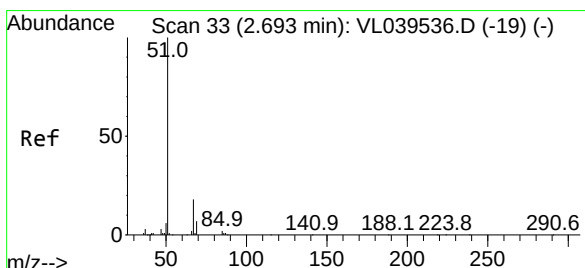
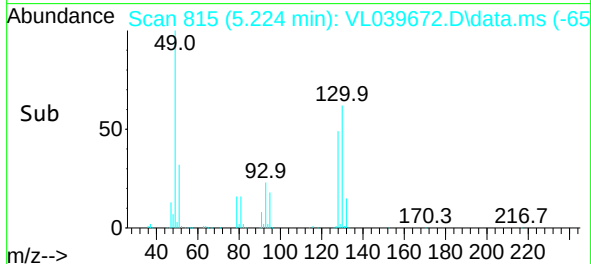
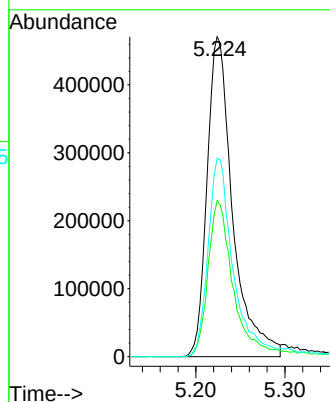
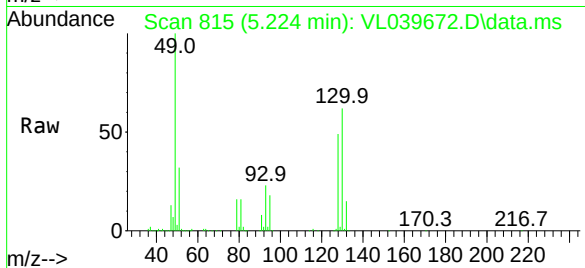




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.224 min Scan# 815
 Delta R.T. 0.017 min
 Lab File: VL039672.D
 Acq: 22 Sep 2022 18:58

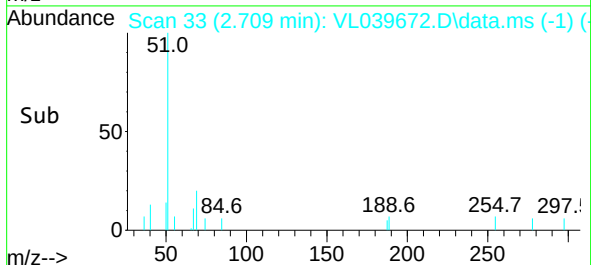
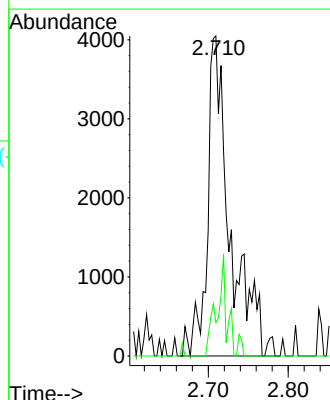
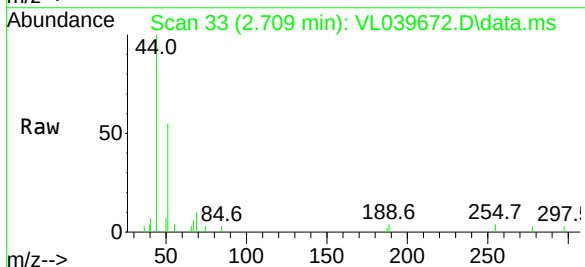
Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG5DL

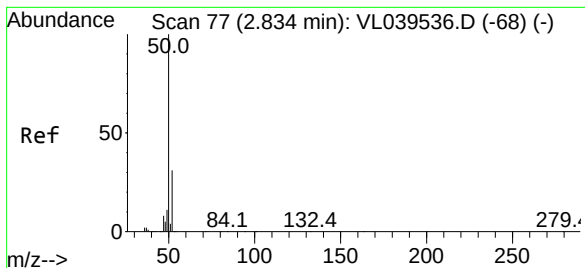
Tgt Ion: 49 Resp: 939826
 Ion Ratio Lower Upper
 49 100
 128 50.0 26.7 80.0
 130 65.4 34.3 102.8



#3
 Chlorodifluoromethane
 Concen: 0.071 ppbv
 RT: 2.709 min Scan# 33
 Delta R.T. 0.017 min
 Lab File: VL039672.D
 Acq: 22 Sep 2022 18:58

Tgt Ion: 51 Resp: 7960
 Ion Ratio Lower Upper
 51 100
 67 13.5 15.7 23.5#





#4
Chloromethane
Concen: 0.086 ppbv
RT: 2.854 min Scan# 71
Delta R.T. 0.020 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

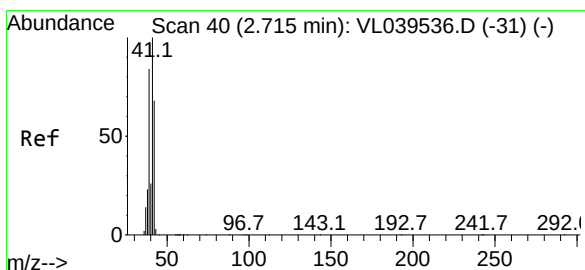
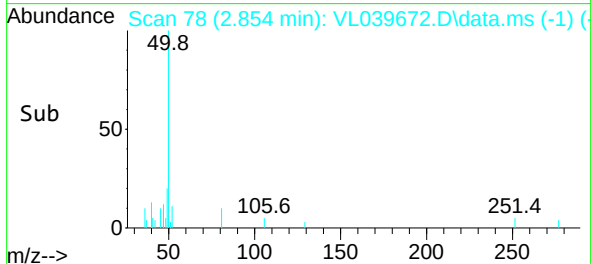
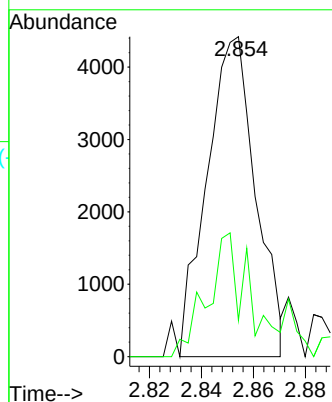
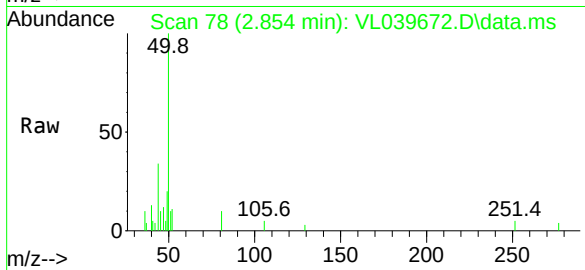
Instrument :

MSVOA_L

ClientSampleId :

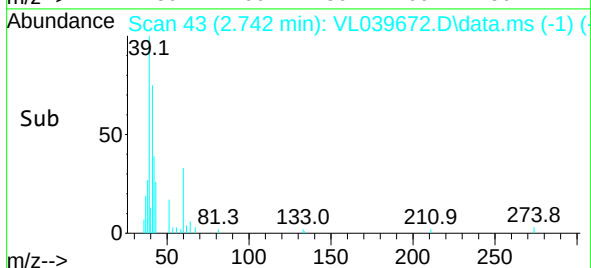
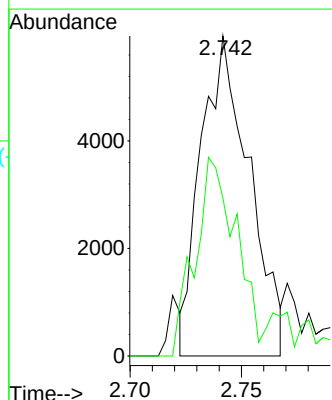
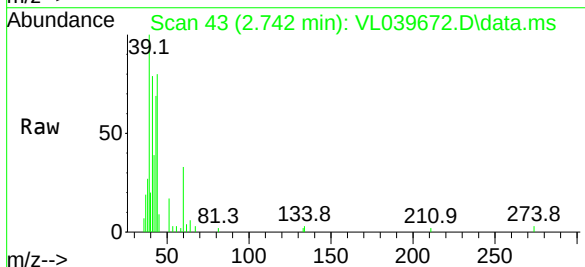
C0PG5DL

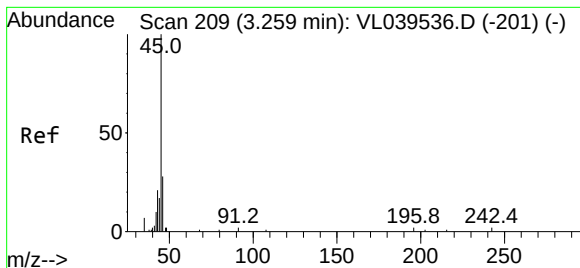
Tgt Ion: 50 Resp: 5760
Ion Ratio Lower Upper
50 100
52 5.9 26.5 39.7#



#9
Propene
Concen: 0.176 ppbv
RT: 2.742 min Scan# 43
Delta R.T. 0.026 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

Tgt Ion: 41 Resp: 8970
Ion Ratio Lower Upper
41 100
42 64.3 55.2 82.8





#13

Ethanol

Concen: 58.280 ppbv

RT: 3.275 min Scan# 209

Delta R.T. 0.017 min

Lab File: VL039672.D

Acq: 22 Sep 2022 18:58

Instrument :

MSVOA_L

ClientSampleId :

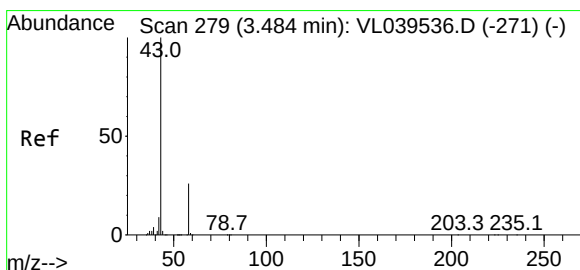
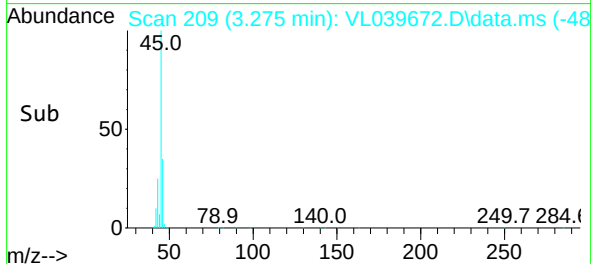
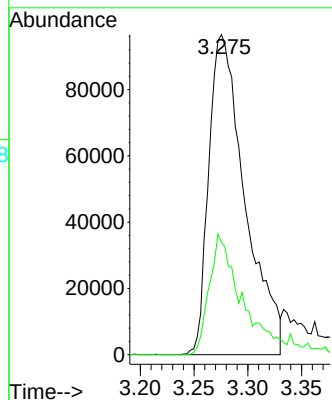
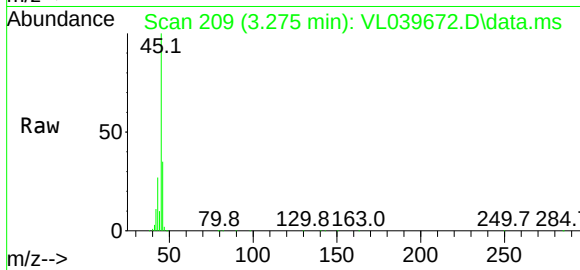
C0PG5DL

Tgt Ion: 45 Resp: 226193

Ion Ratio Lower Upper

45 100

46 36.6 22.8 91.2



#15

Acetone

Concen: 2.760 ppbv

RT: 3.507 min Scan# 281

Delta R.T. 0.023 min

Lab File: VL039672.D

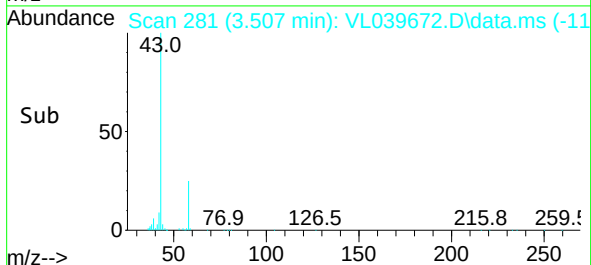
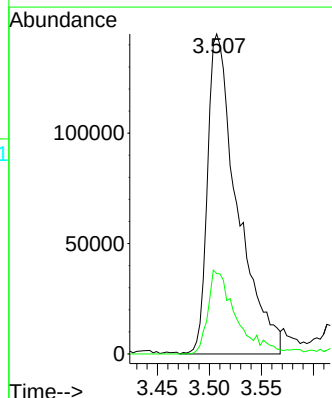
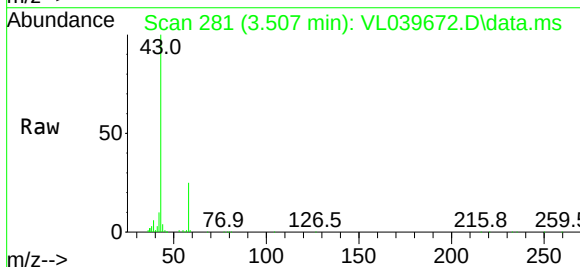
Acq: 22 Sep 2022 18:58

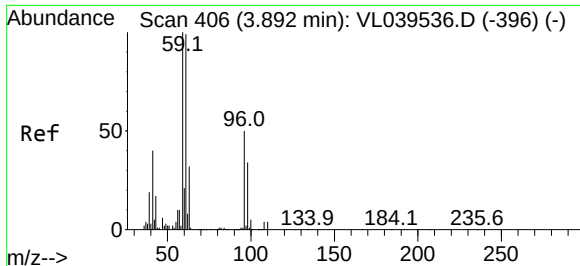
Tgt Ion: 43 Resp: 288602

Ion Ratio Lower Upper

43 100

58 25.3 21.0 31.6

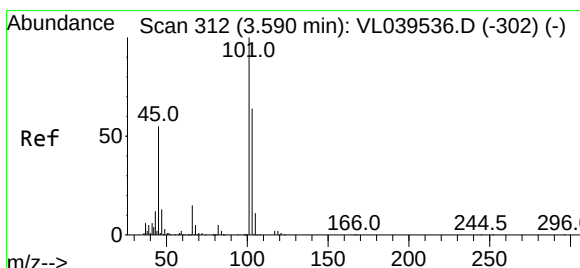
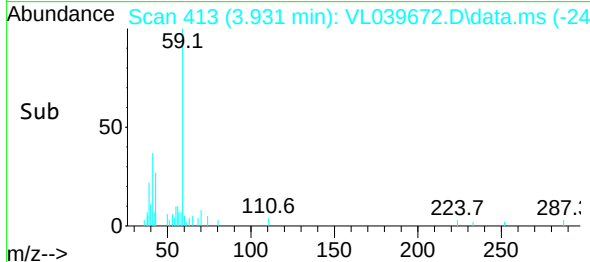
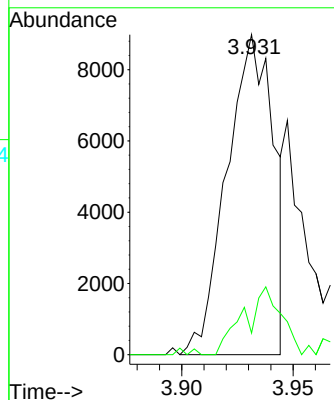
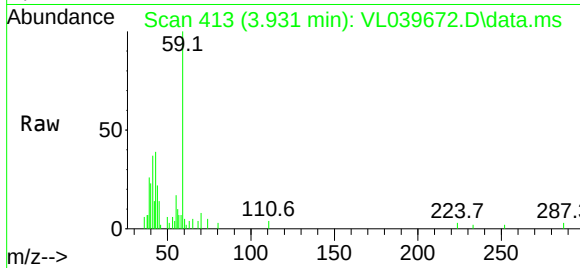




#17
tert-Butyl alcohol
Concen: 0.139 ppbv
RT: 3.931 min Scan# 413
Delta R.T. 0.039 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

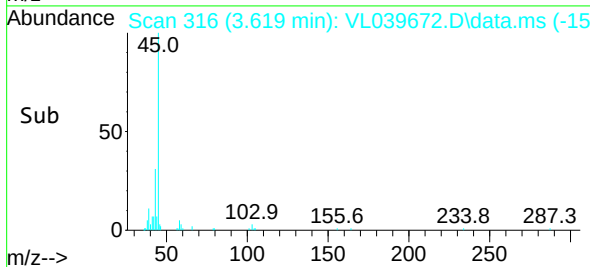
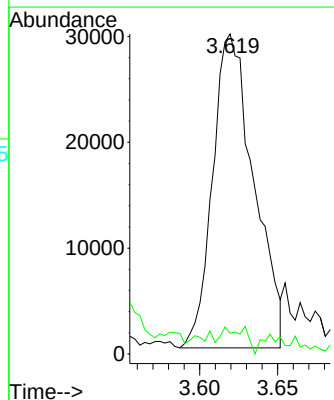
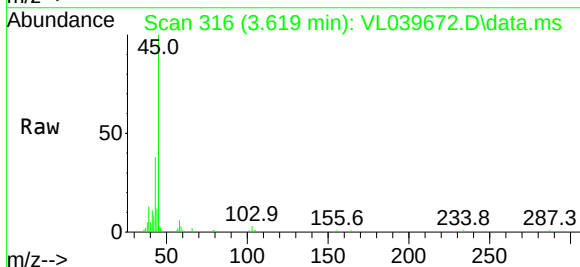
Instrument :
MSVOA_L
ClientSampleId :
C0PG5DL

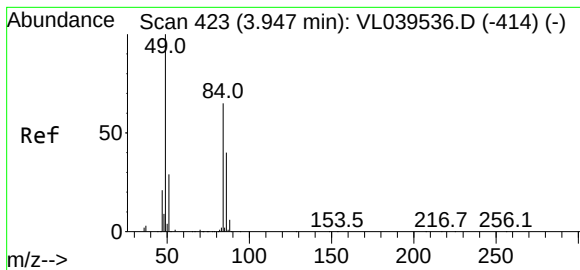
Tgt Ion: 59 Resp: 13065
Ion Ratio Lower Upper
59 100
57 19.0 8.7 13.1#



#19
Isopropyl Alcohol
Concen: 1.023 ppbv
RT: 3.619 min Scan# 316
Delta R.T. 0.030 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

Tgt Ion: 45 Resp: 54536
Ion Ratio Lower Upper
45 100
58 10.5 3.2 4.8#



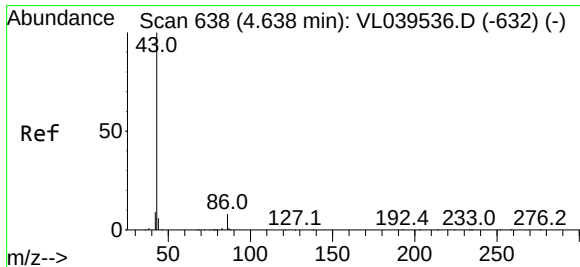
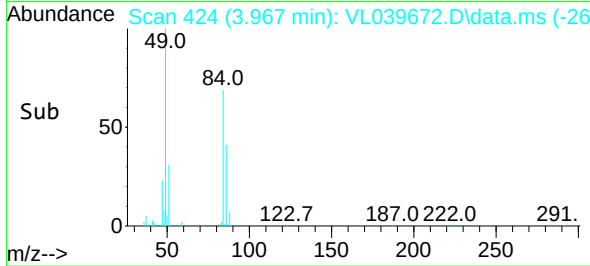
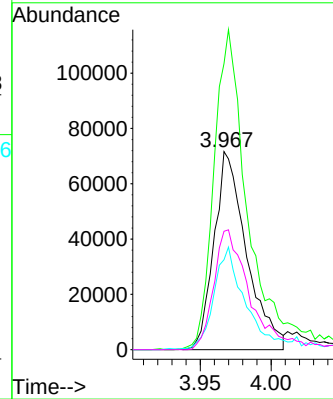
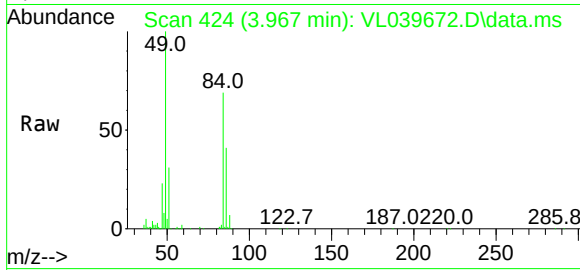


#20
Methylene Chloride
Concen: 2.360 ppbv
RT: 3.967 min Scan# 41
Delta R.T. 0.020 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

Instrument :
MSVOA_L
ClientSampleId :
C0PG5DL

Tgt Ion: 84 Resp: 114088

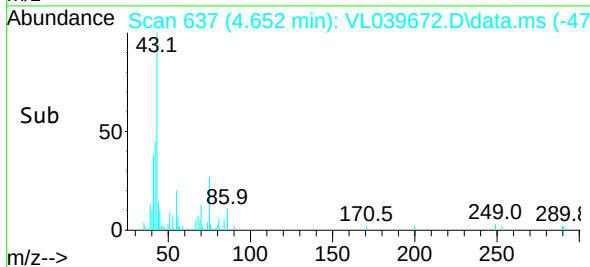
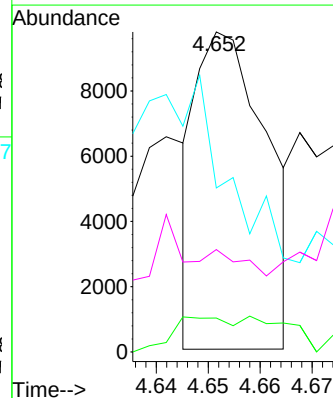
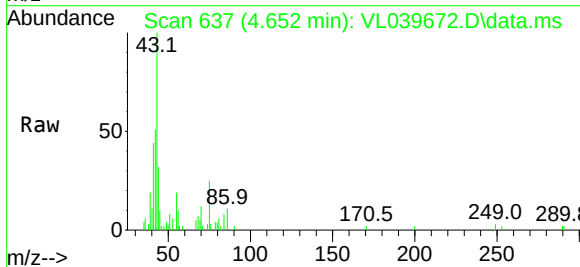
Ion	Ratio	Lower	Upper
84	100		
49	143.8	123.1	184.7
51	44.8	34.4	51.6
86	59.8	51.1	76.7

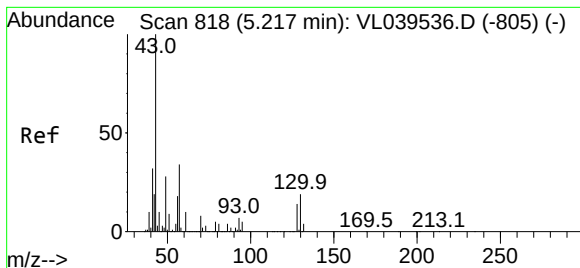


#23
Vinyl Acetate
Concen: 0.194 ppbv
RT: 4.652 min Scan# 637
Delta R.T. 0.013 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

Tgt Ion: 43 Resp: 9162

Ion	Ratio	Lower	Upper
43	100		
86	3.6	5.0	7.6#
42	51.4	7.7	11.5#
44	9.2	4.6	7.0#





#25

Ethyl Acetate

Concen: 0.094 ppbv

RT: 5.243 min Scan# 81

Delta R.T. 0.026 min

Lab File: VL039672.D

Acq: 22 Sep 2022 18:58

Instrument :

MSVOA_L

ClientSampleId :

C0PG5DL

Tgt Ion: 43 Resp: 21405

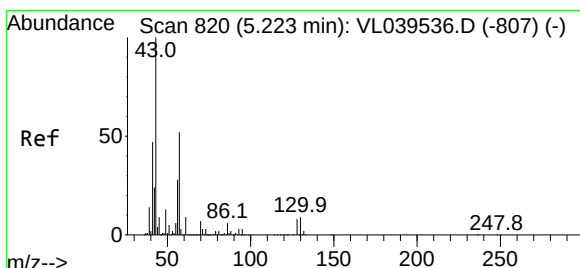
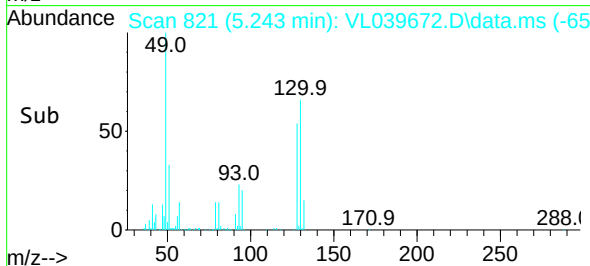
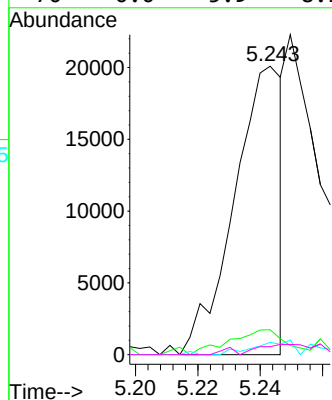
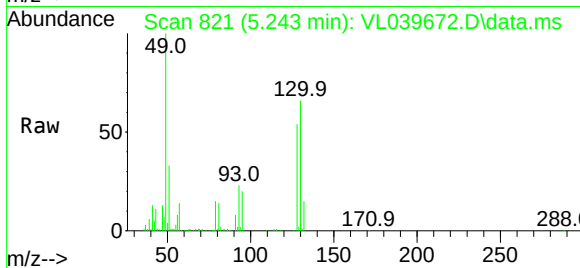
Ion Ratio Lower Upper

43 100

45 13.9 8.2 12.4#

61 0.0 8.3 12.5#

70 0.0 5.9 8.9#



#26

Hexane

Concen: 0.459 ppbv

RT: 5.243 min Scan# 821

Delta R.T. 0.020 min

Lab File: VL039672.D

Acq: 22 Sep 2022 18:58

Tgt Ion: 57 Resp: 44430

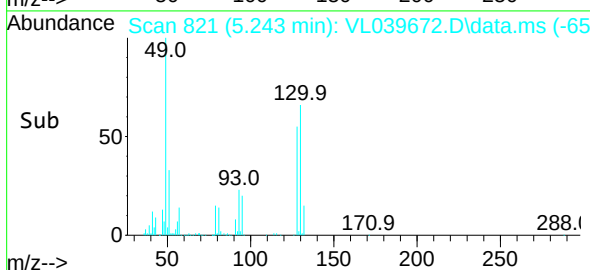
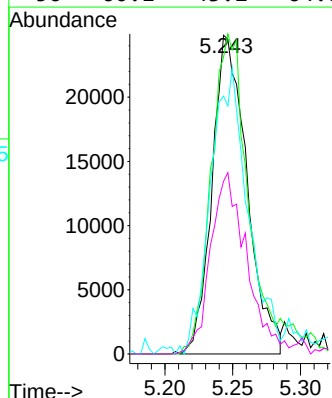
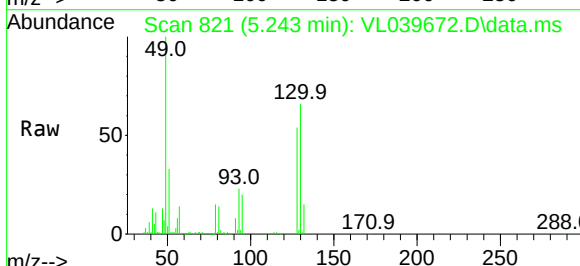
Ion Ratio Lower Upper

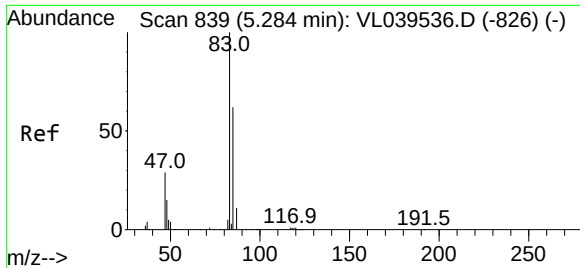
57 100

41 117.0 76.9 115.3#

43 107.6 191.0 286.6#

56 60.1 43.2 64.8

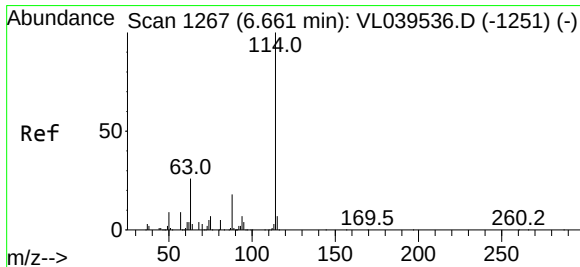
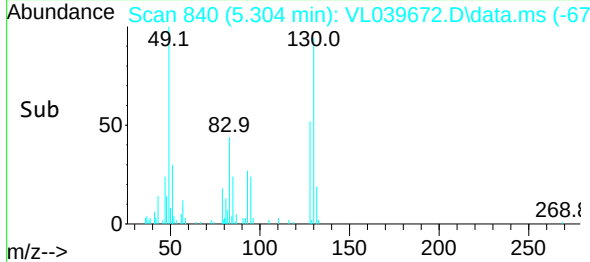
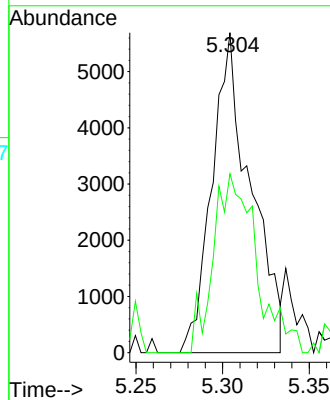
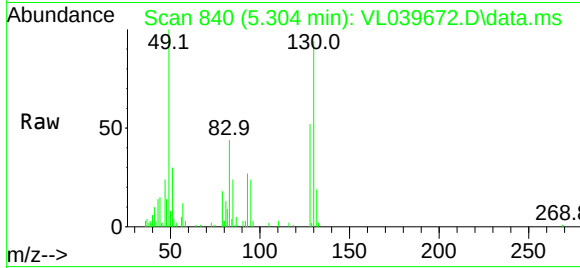




#29
Chloroform
Concen: 0.063 ppbv
RT: 5.304 min Scan# 84
Delta R.T. 0.020 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

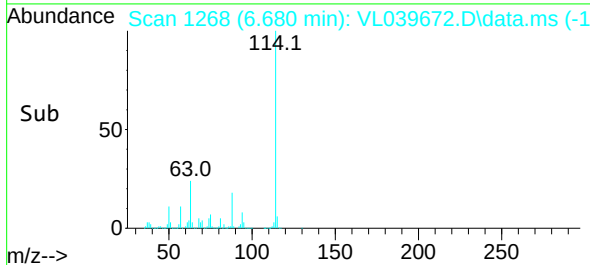
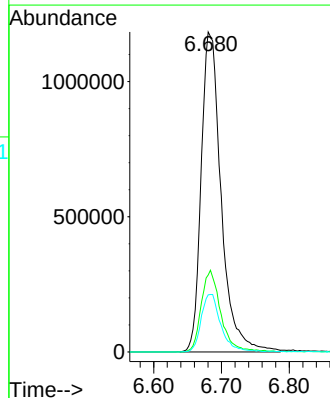
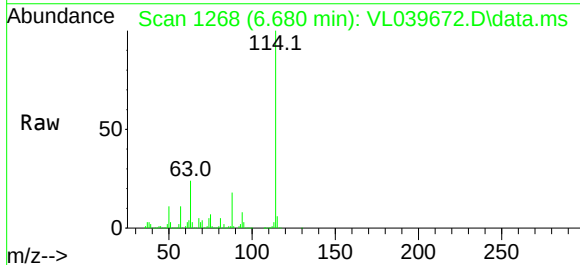
Instrument :
MSVOA_L
ClientSampleId :
C0PG5DL

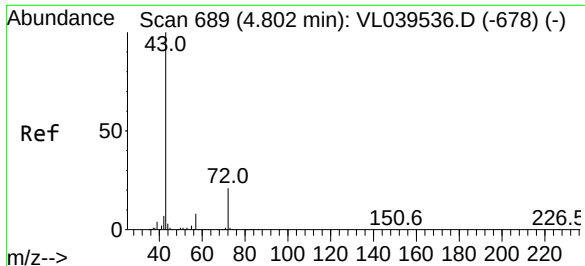
Tgt Ion: 83 Resp: 8848
Ion Ratio Lower Upper
83 100
85 55.9 52.8 79.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.680 min Scan# 1268
Delta R.T. 0.020 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

Tgt Ion: 114 Resp: 2424519
Ion Ratio Lower Upper
114 100
63 25.1 20.2 30.4
88 17.9 14.5 21.7





#34

2-Butanone

Concen: 0.135 ppbv

RT: 4.828 min Scan# 61

Delta R.T. 0.026 min

Lab File: VL039672.D

Acq: 22 Sep 2022 18:58

Instrument :

MSVOA_L

ClientSampleId :

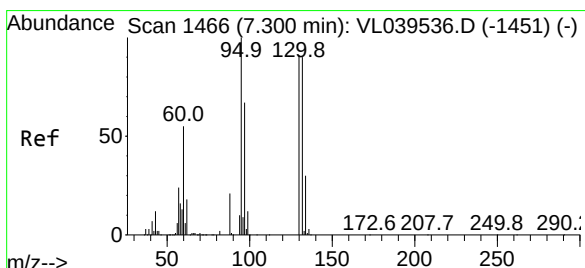
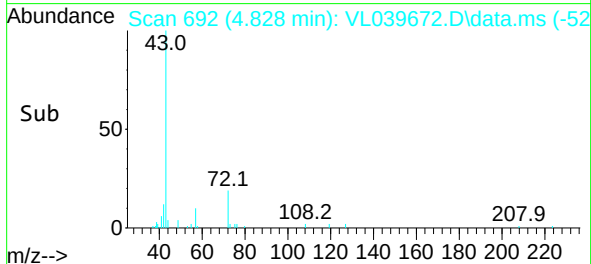
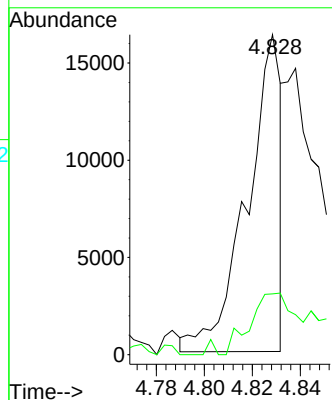
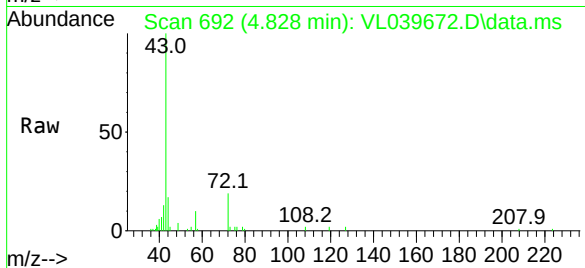
C0PG5DL

Tgt Ion: 43 Resp: 16072

Ion Ratio Lower Upper

43 100

72 44.2 17.9 26.9#



#38

Trichloroethene

Concen: 0.425 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. 0.017 min

Lab File: VL039672.D

Acq: 22 Sep 2022 18:58

Tgt Ion:130 Resp: 42623

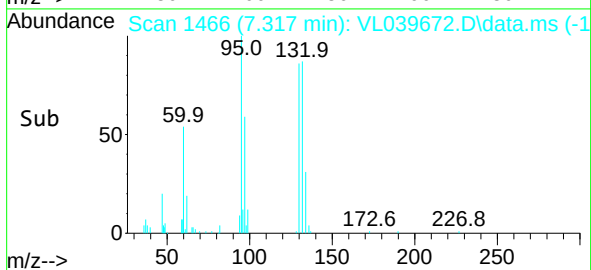
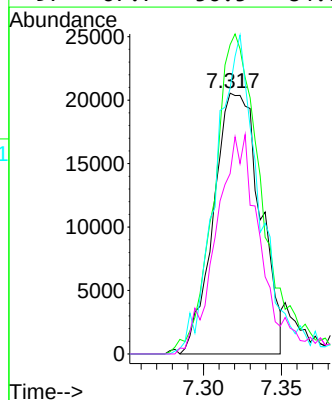
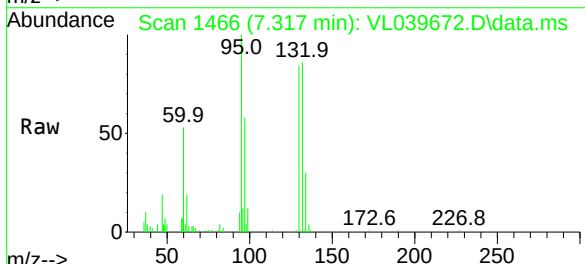
Ion Ratio Lower Upper

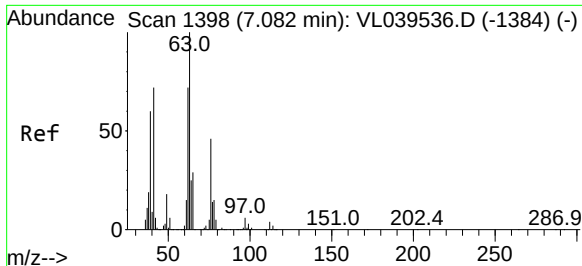
130 100

95 114.4 87.3 130.9

132 101.1 76.7 115.1

97 67.7 56.5 84.7

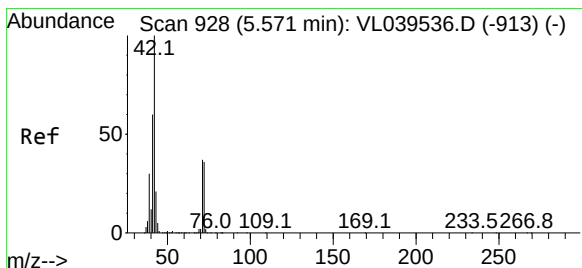
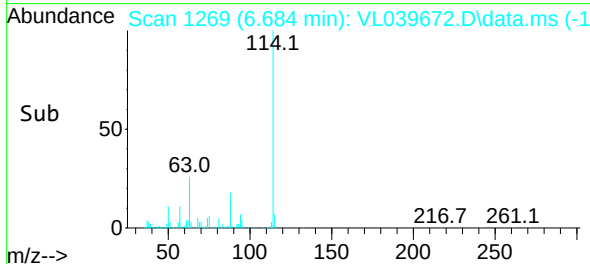
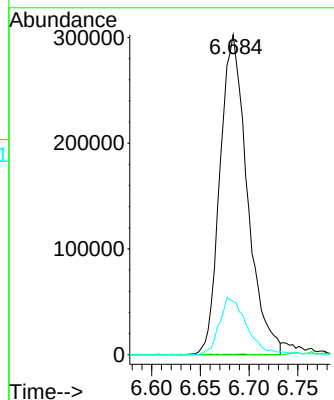
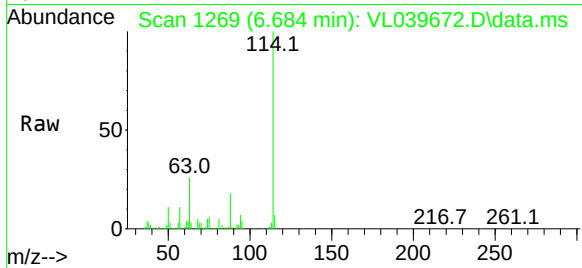




#39
1,2-Dichloropropane
Concen: 8.235 ppbv
RT: 6.684 min Scan# 11
Delta R.T. -0.398 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

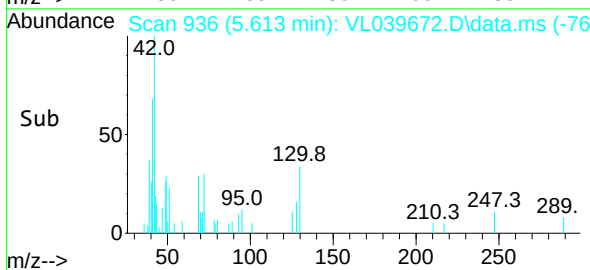
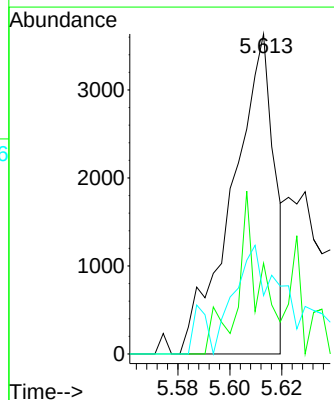
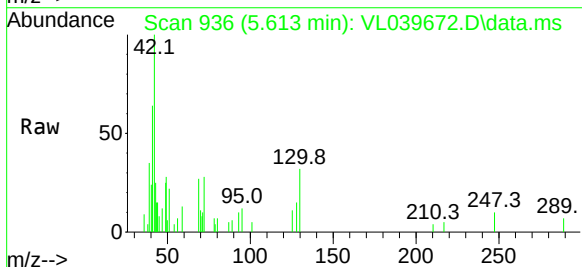
Instrument :
MSVOA_L
ClientSampleId :
C0PG5DL

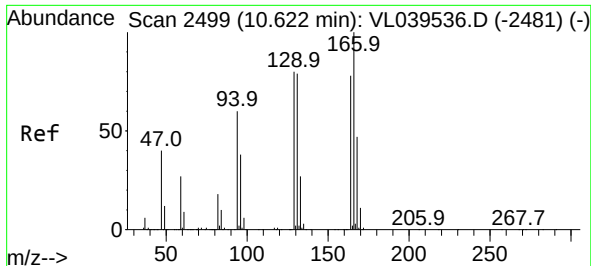
Tgt Ion: 63 Resp: 589456
Ion Ratio Lower Upper
63 100
41 0.1 59.6 89.4#
62 16.7 51.4 77.0#



#41
Tetrahydrofuran
Concen: 0.056 ppbv
RT: 5.613 min Scan# 936
Delta R.T. 0.042 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

Tgt Ion: 42 Resp: 4076
Ion Ratio Lower Upper
42 100
72 47.6 31.8 47.8
71 52.7 31.8 47.8#



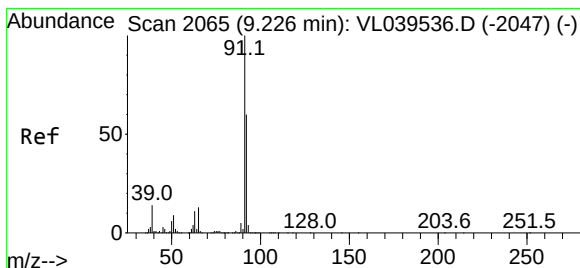
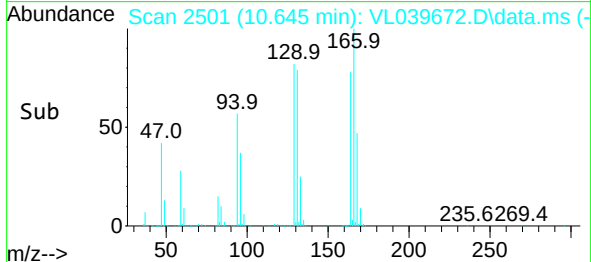
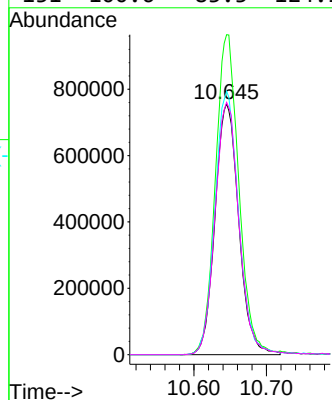
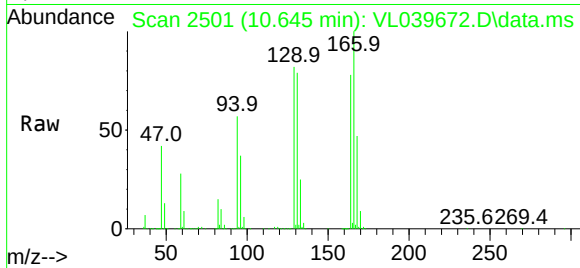


#52
Tetrachloroethene
Concen: 24.255 ppbv
RT: 10.645 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

Instrument :
MSVOA_L
ClientSampleId :
C0PG5DL

Tgt Ion:164 Resp: 1715278

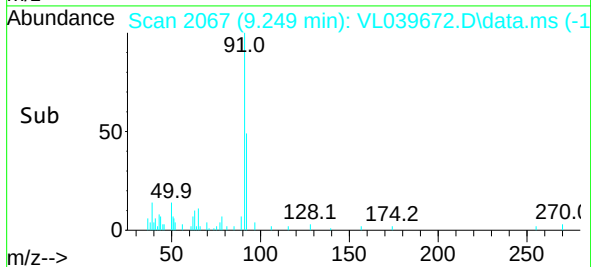
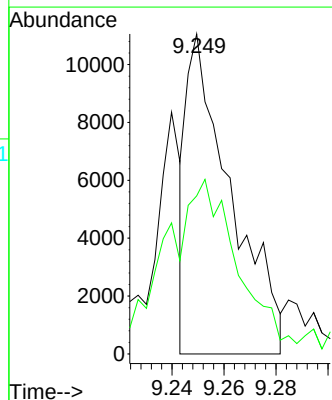
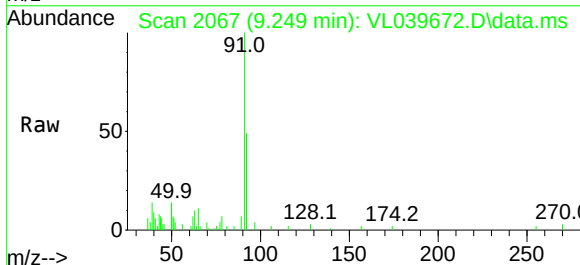
Ion	Ratio	Lower	Upper
164	100		
166	127.5	102.2	153.2
129	105.0	85.8	128.8
131	100.6	83.3	124.9

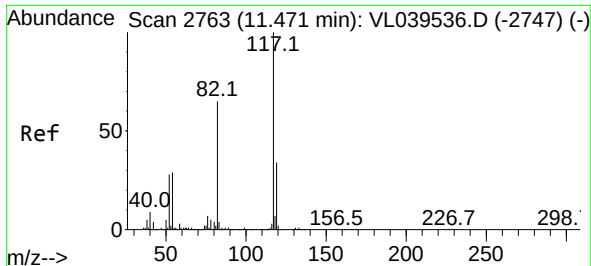


#53
Toluene
Concen: 0.064 ppbv
RT: 9.249 min Scan# 2067
Delta R.T. 0.023 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

Tgt Ion: 91 Resp: 13134

Ion	Ratio	Lower	Upper
91	100		
92	96.3	48.2	72.2#

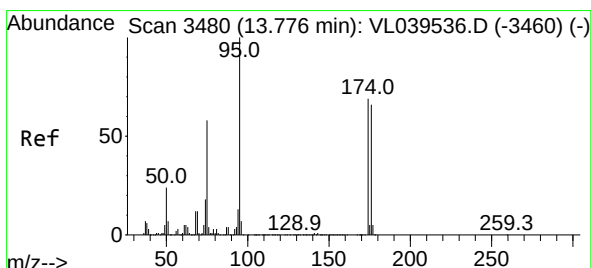
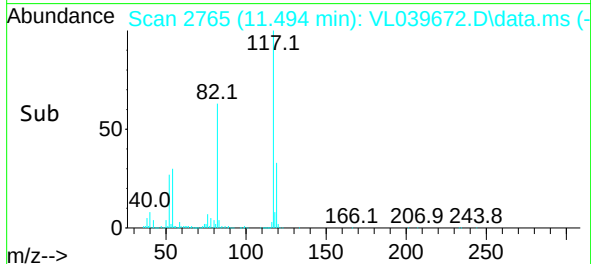
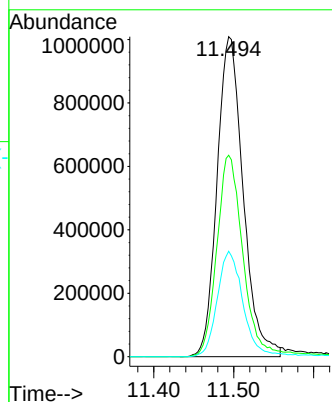
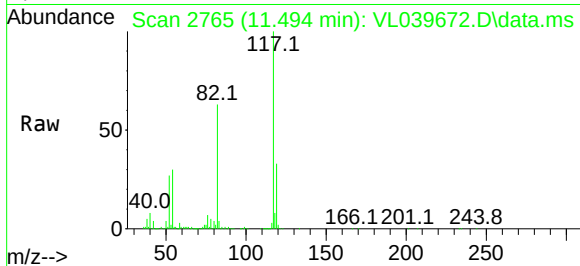




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.494 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

Instrument :
MSVOA_L
ClientSampleId :
C0PG5DL

Tgt Ion: 117 Resp: 2286517
Ion Ratio Lower Upper
117 100
82 64.6 50.8 76.2
119 33.4 24.1 36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.769 ppbv
RT: 13.806 min Scan# 3484
Delta R.T. 0.030 min
Lab File: VL039672.D
Acq: 22 Sep 2022 18:58

Tgt Ion: 95 Resp: 1667371
Ion Ratio Lower Upper
95 100
174 73.1 55.9 83.9
175 5.5 4.2 6.4

