

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092222\
 Data File : VL039674.D
 Acq On : 22 Sep 2022 20:14
 Operator : SY/AP
 Sample : N4669-12DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG4DL

Quant Time: Sep 23 06:37:12 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	5.221	49	941074	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.677	114	2424618	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.491	117	2199218	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1644253	10.015	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%

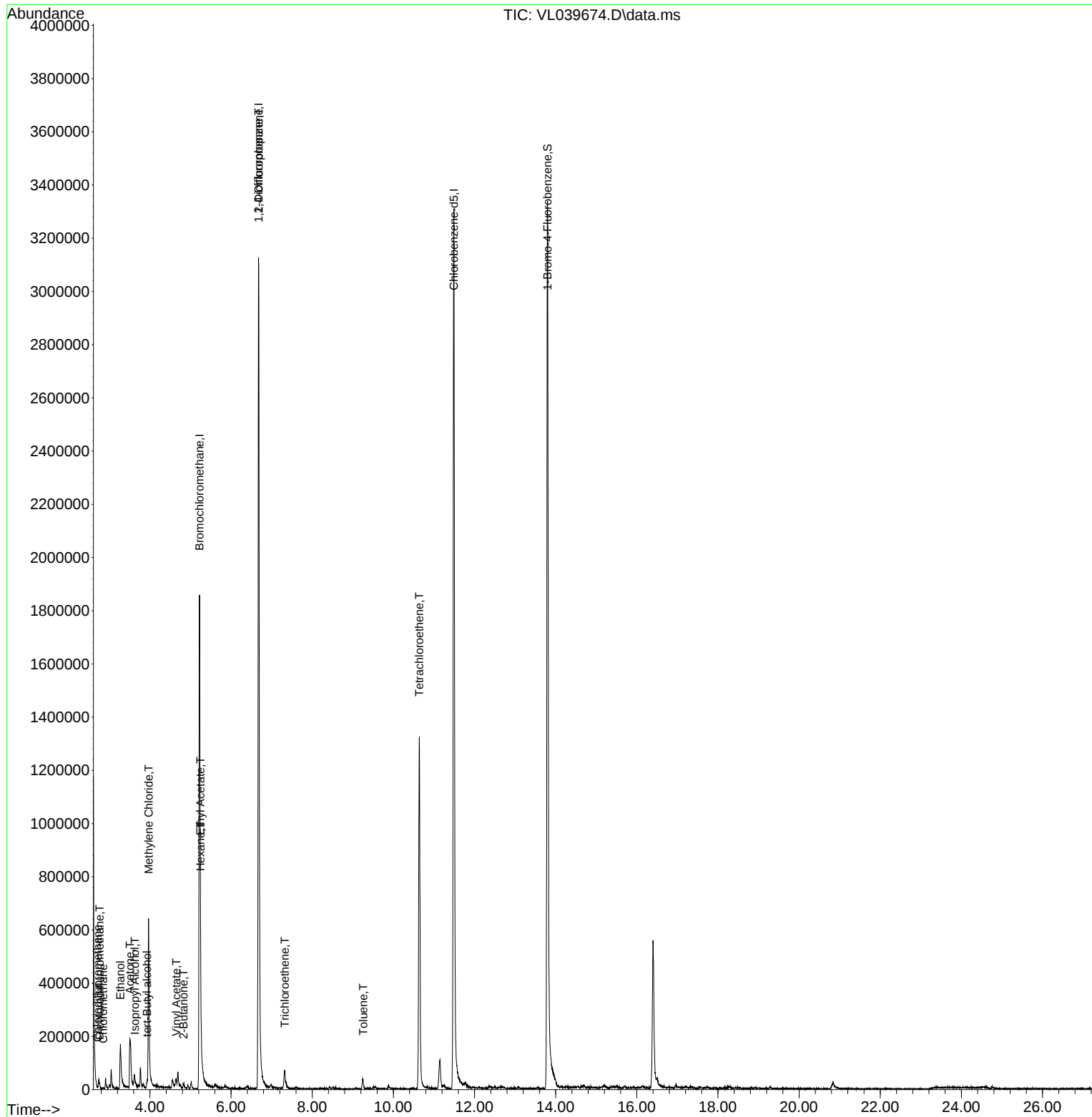
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.761	85	5418	0.050	ppbv #	67
3) Chlorodifluoromethane	2.710	51	6127	0.055	ppbv #	85
4) Chloromethane	2.848	50	2318	0.034	ppbv #	82
13) Ethanol	3.272	45	176958	45.534	ppbv	79
15) Acetone	3.504	43	231587	2.212	ppbv	97
17) tert-Butyl alcohol	3.928	59	11851	0.126	ppbv #	71
19) Isopropyl Alcohol	3.629	45	12390	0.232	ppbv #	88
20) Methylene Chloride	3.967	84	217196	4.486	ppbv	95
23) Vinyl Acetate	4.652	43	2095	0.044	ppbv #	1
25) Ethyl Acetate	5.243	43	74946	0.328	ppbv #	81
26) Hexane	5.246	57	89675	0.925	ppbv #	43
34) 2-Butanone	4.825	43	14336	0.120	ppbv #	62
38) Trichloroethene	7.324	130	7757	0.077	ppbv	85
39) 1,2-Dichloropropane	6.680	63	595617	8.321	ppbv #	26
52) Tetrachloroethene	10.638	164	331924	4.693	ppbv	93
53) Toluene	9.256	91	13955	0.068	ppbv #	21

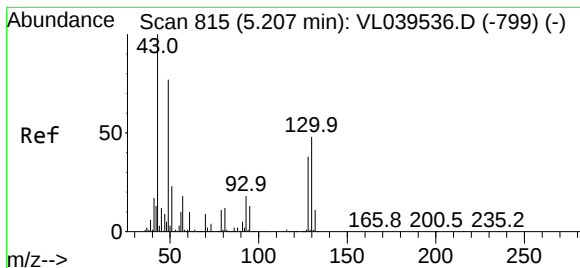
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

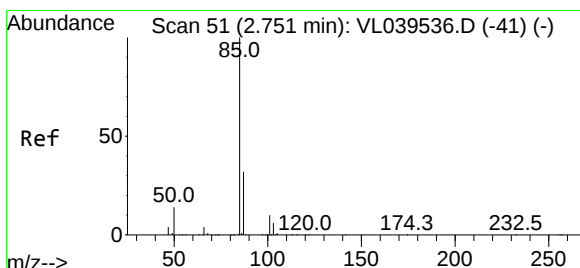
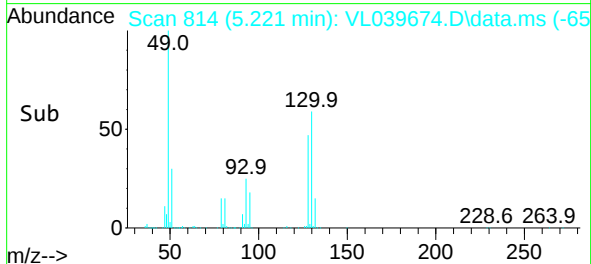
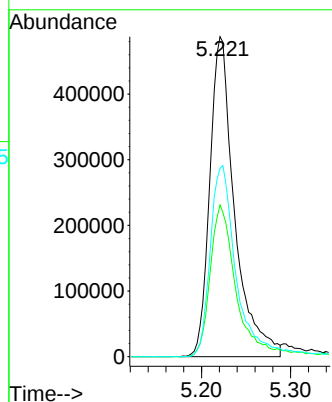
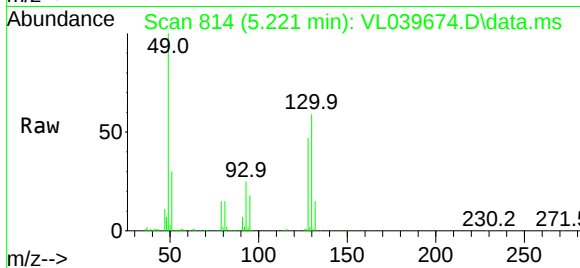




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.221 min Scan# 81
 Delta R.T. 0.014 min
 Lab File: VL039674.D
 Acq: 22 Sep 2022 20:14

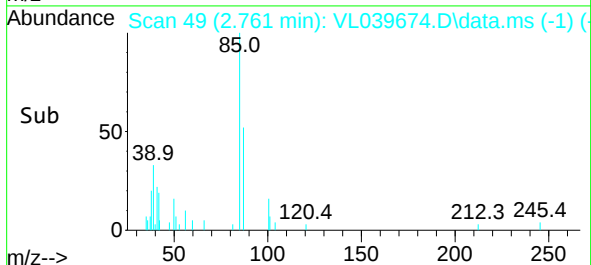
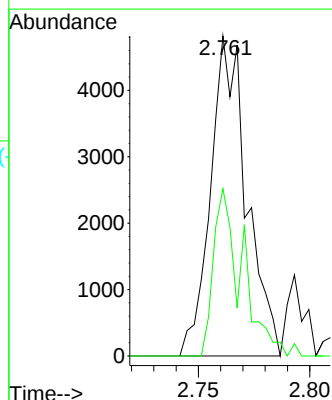
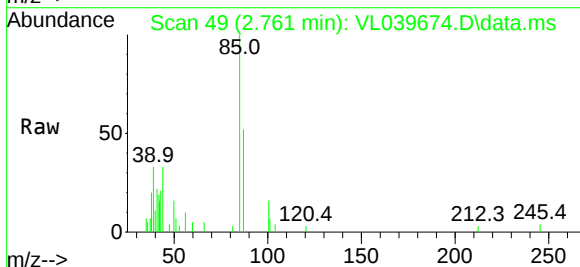
Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG4DL

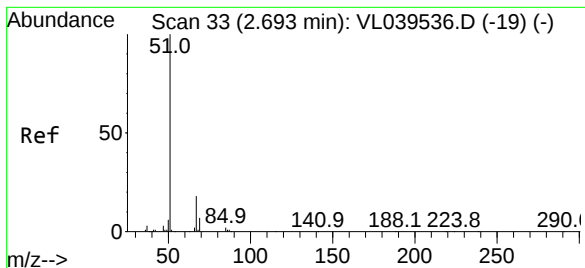
Tgt Ion: 49 Resp: 941074
 Ion Ratio Lower Upper
 49 100
 128 51.7 26.7 80.0
 130 64.7 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.050 ppbv
 RT: 2.761 min Scan# 49
 Delta R.T. 0.010 min
 Lab File: VL039674.D
 Acq: 22 Sep 2022 20:14

Tgt Ion: 85 Resp: 5418
 Ion Ratio Lower Upper
 85 100
 87 52.3 26.7 40.1#

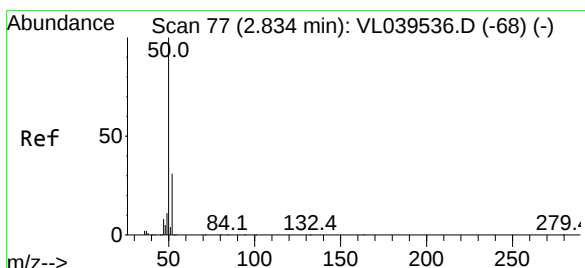
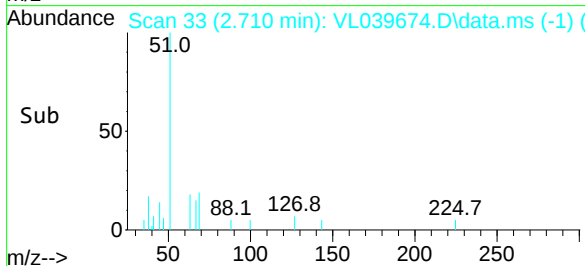
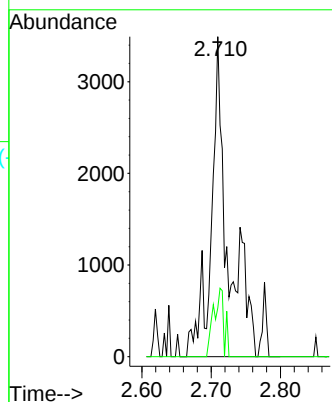
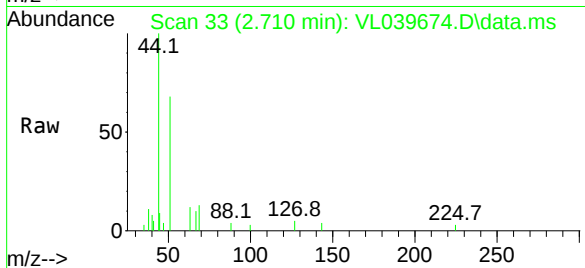




#3
Chlorodifluoromethane
Concen: 0.055 ppbv
RT: 2.710 min Scan# 31
Delta R.T. 0.017 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

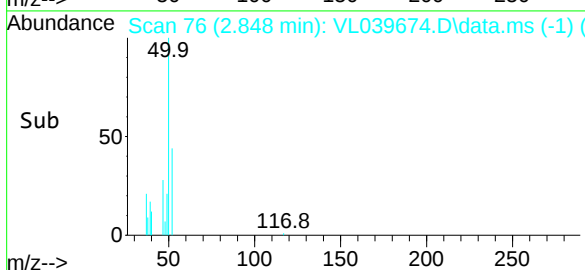
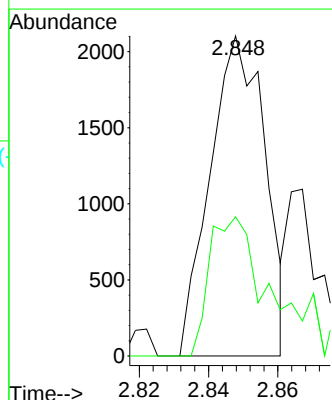
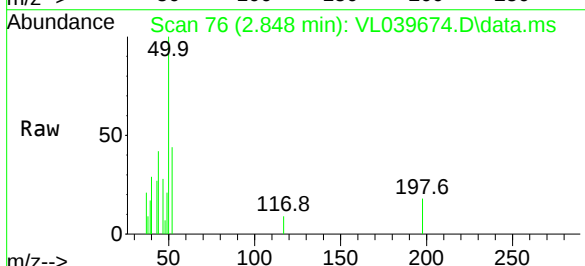
Instrument :
MSVOA_L
ClientSampleId :
C0PG4DL

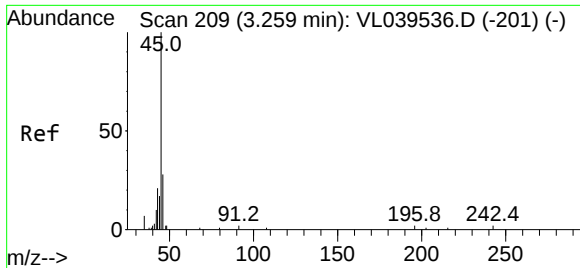
Tgt Ion: 51 Resp: 6127
Ion Ratio Lower Upper
51 100
67 12.7 15.7 23.5#



#4
Chloromethane
Concen: 0.034 ppbv
RT: 2.848 min Scan# 76
Delta R.T. 0.014 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

Tgt Ion: 50 Resp: 2318
Ion Ratio Lower Upper
50 100
52 43.5 26.5 39.7#

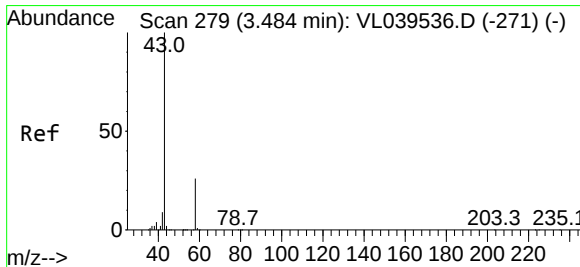
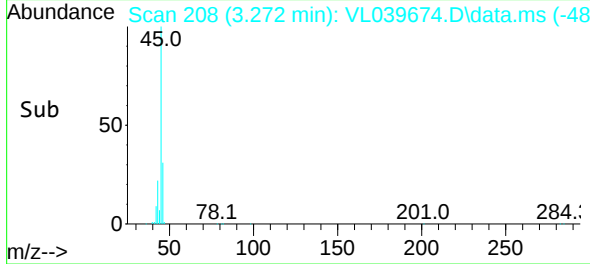
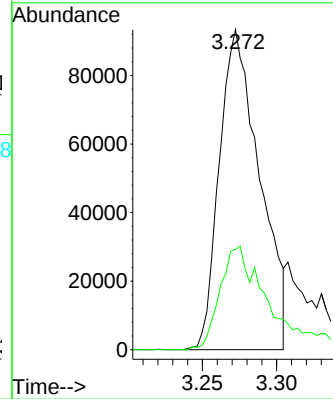
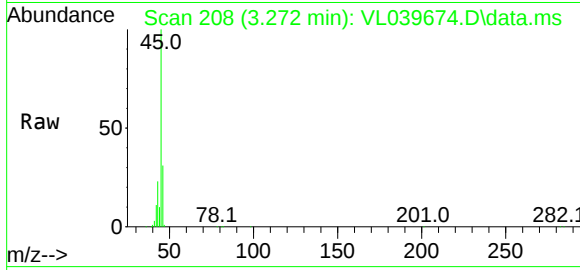




#13
Ethanol
Concen: 45.534 ppbv
RT: 3.272 min Scan# 208
Delta R.T. 0.013 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

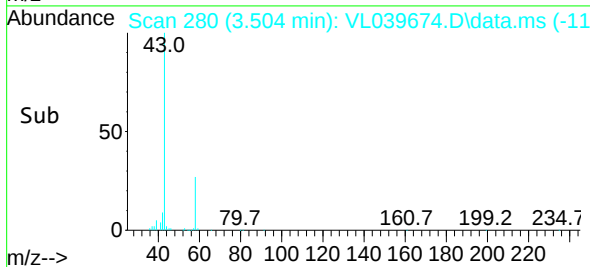
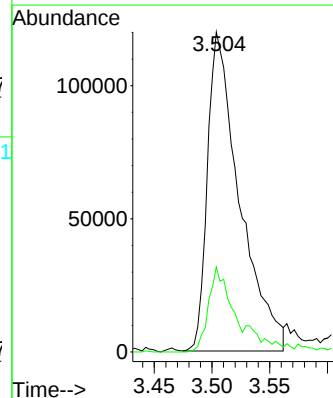
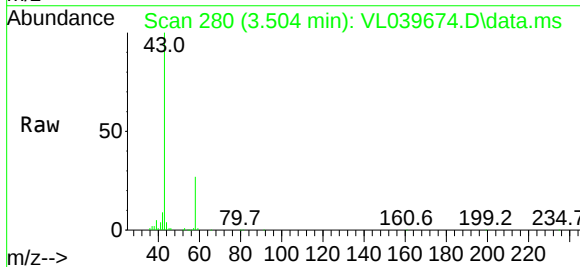
Instrument :
MSVOA_L
ClientSampleId :
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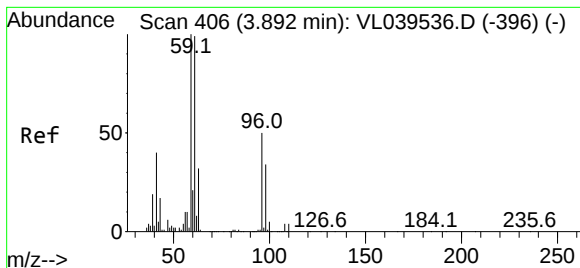
Tgt Ion: 45 Resp: 176958
Ion Ratio Lower Upper
45 100
46 41.6 22.8 91.2



#15
Acetone
Concen: 2.212 ppbv
RT: 3.504 min Scan# 280
Delta R.T. 0.020 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

Tgt Ion: 43 Resp: 231587
Ion Ratio Lower Upper
43 100
58 24.9 21.0 31.6

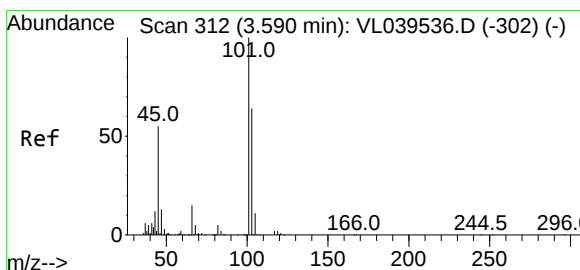
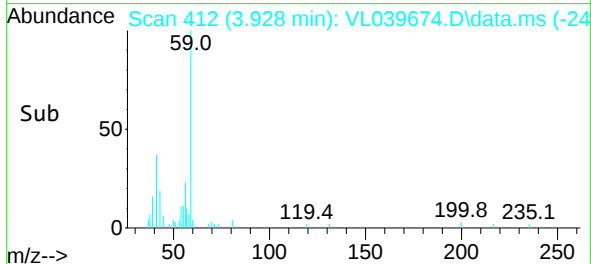
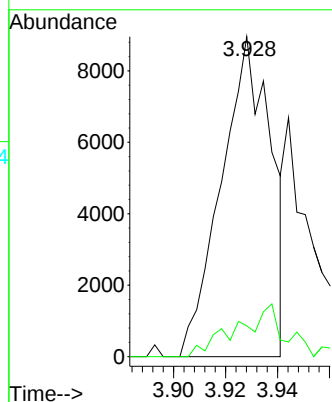
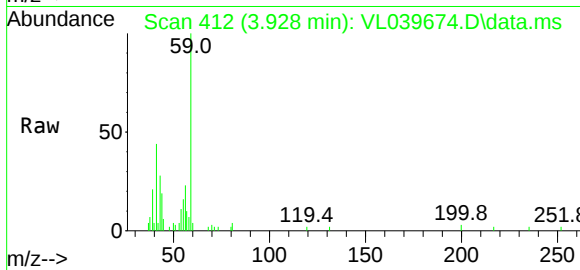




#17
tert-Butyl alcohol
Concen: 0.126 ppbv
RT: 3.928 min Scan# 411
Delta R.T. 0.036 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

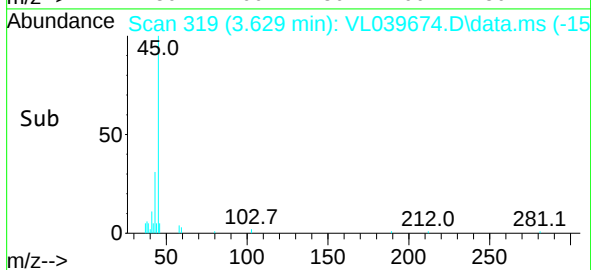
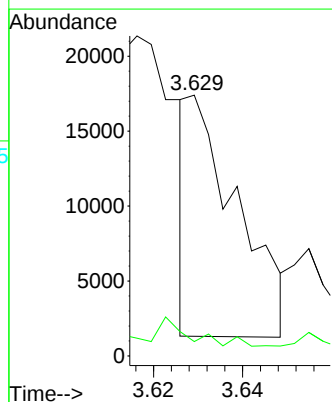
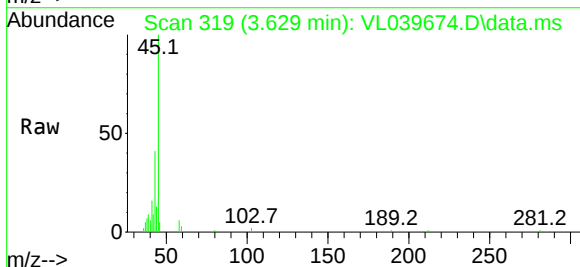
Instrument :
MSVOA_L
ClientSampleId :
C0PG4DL

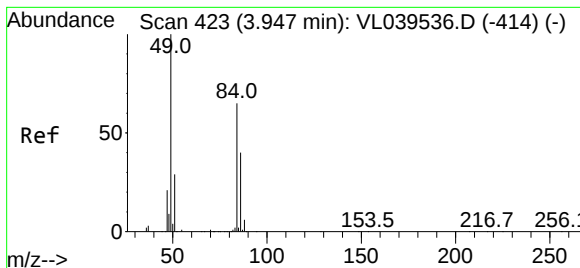
Tgt Ion: 59 Resp: 11851
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#19
Isopropyl Alcohol
Concen: 0.232 ppbv
RT: 3.629 min Scan# 319
Delta R.T. 0.039 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

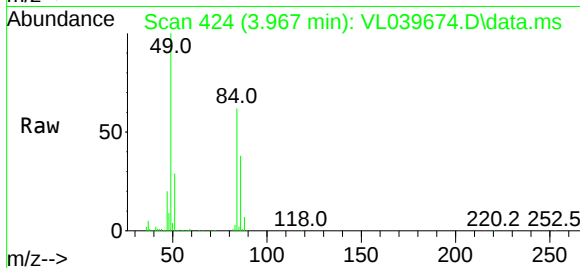
Tgt Ion: 45 Resp: 12390
Ion Ratio Lower Upper
45 100
58 0.0 3.2 4.8#





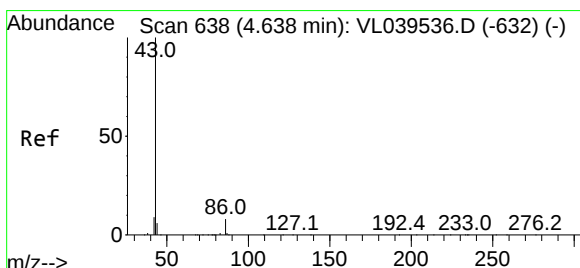
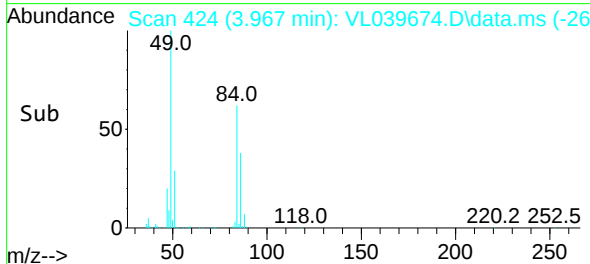
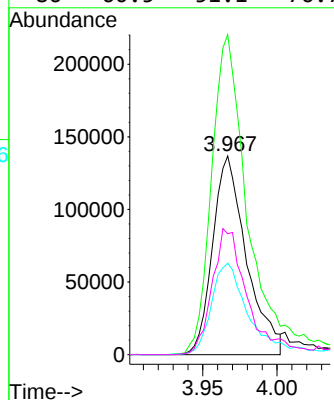
#20
Methylene Chloride
Concen: 4.486 ppbv
RT: 3.967 min Scan# 41
Delta R.T. 0.020 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

Instrument :
MSVOA_L
ClientSampleId :
C0PG4DL



Tgt Ion: 84 Resp: 217196

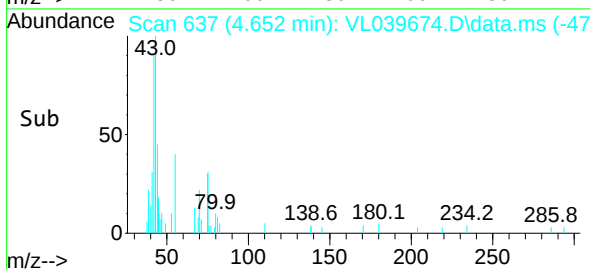
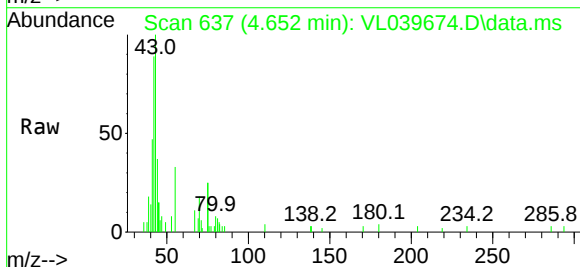
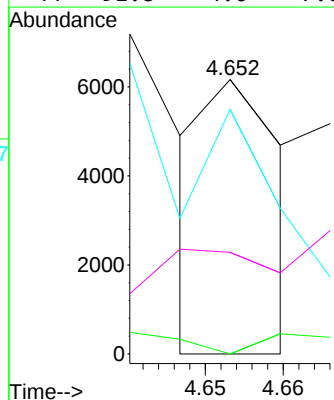
Ion	Ratio	Lower	Upper
84	100		
49	160.6	123.1	184.7
51	45.8	34.4	51.6
86	60.5	51.1	76.7

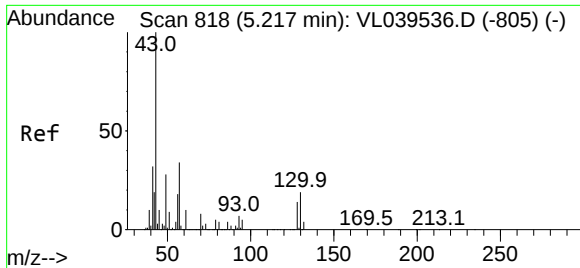


#23
Vinyl Acetate
Concen: 0.044 ppbv
RT: 4.652 min Scan# 637
Delta R.T. 0.013 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

Tgt Ion: 43 Resp: 2095

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.6#
42	165.6	7.7	11.5#
44	91.8	4.6	7.0#





#25

Ethyl Acetate

Concen: 0.328 ppbv

RT: 5.243 min Scan# 818

Delta R.T. 0.026 min

Lab File: VL039674.D

Acq: 22 Sep 2022 20:14

Instrument :

MSVOA_L

ClientSampleId :

C0PG4DL

Tgt Ion: 43 Resp: 74946

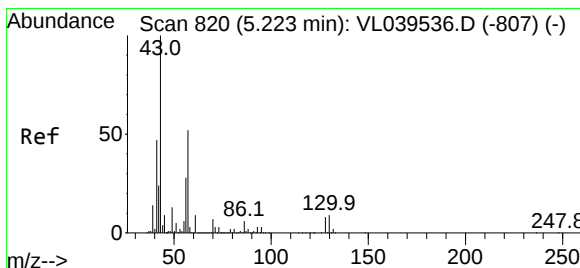
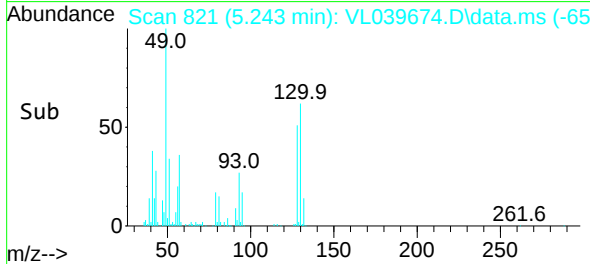
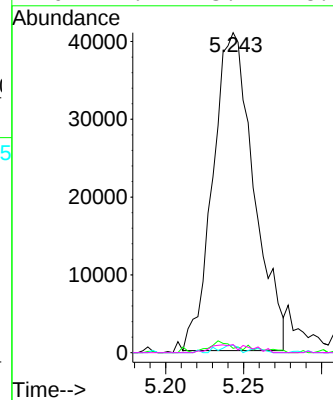
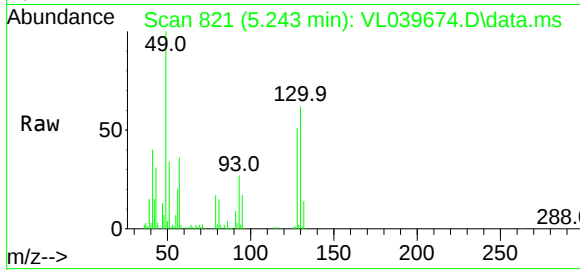
Ion Ratio Lower Upper

43 100

45 3.3 8.2 12.4#

61 1.6 8.3 12.5#

70 2.4 5.9 8.9#



#26

Hexane

Concen: 0.925 ppbv

RT: 5.246 min Scan# 822

Delta R.T. 0.023 min

Lab File: VL039674.D

Acq: 22 Sep 2022 20:14

Tgt Ion: 57 Resp: 89675

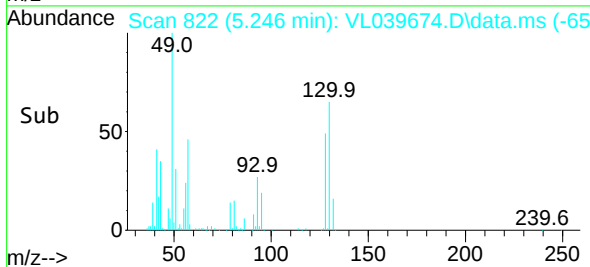
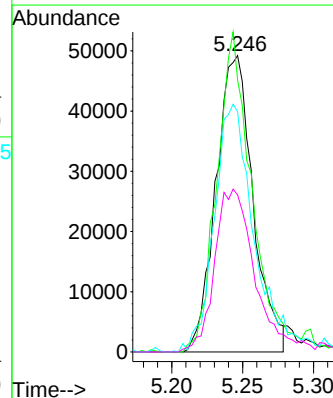
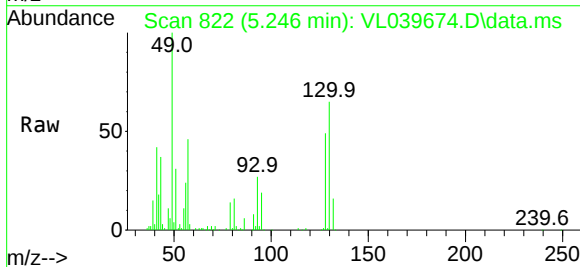
Ion Ratio Lower Upper

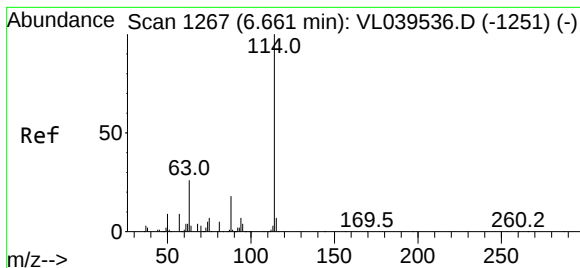
57 100

41 106.6 76.9 115.3

43 92.4 191.0 286.6#

56 61.0 43.2 64.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.677 min Scan# 114

Delta R.T. 0.017 min

Lab File: VL039674.D

Acq: 22 Sep 2022 20:14

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ClientSampleId :

C0PG4DL

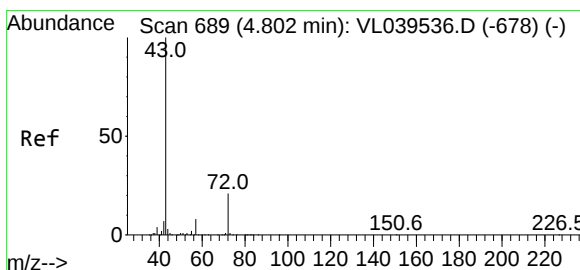
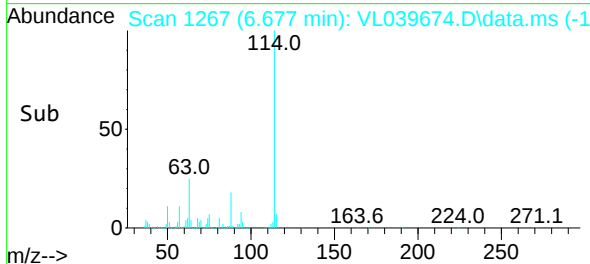
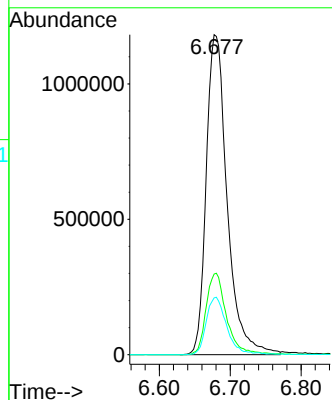
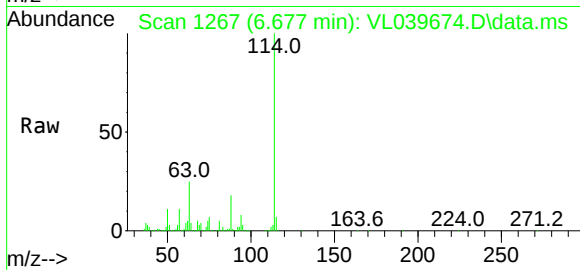
Tgt Ion:114 Resp: 2424618

Ion Ratio Lower Upper

114 100

63 25.1 20.2 30.4

88 17.9 14.5 21.7



#34

2-Butanone

Concen: 0.120 ppbv

RT: 4.825 min Scan# 691

Delta R.T. 0.023 min

Lab File: VL039674.D

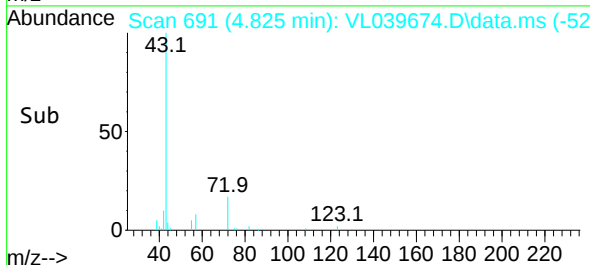
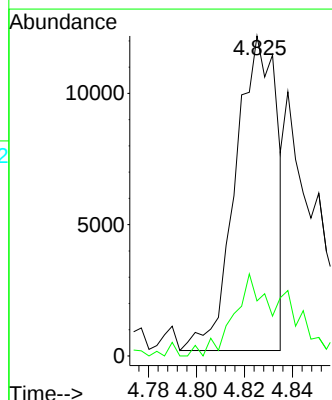
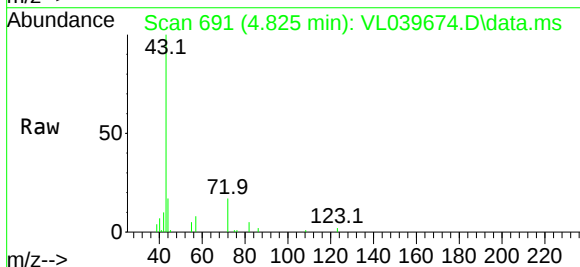
Acq: 22 Sep 2022 20:14

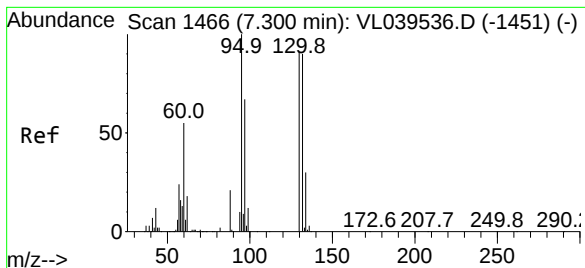
Tgt Ion: 43 Resp: 14336

Ion Ratio Lower Upper

43 100

72 40.8 17.9 26.9#

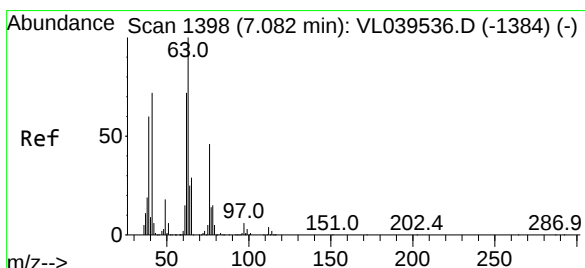
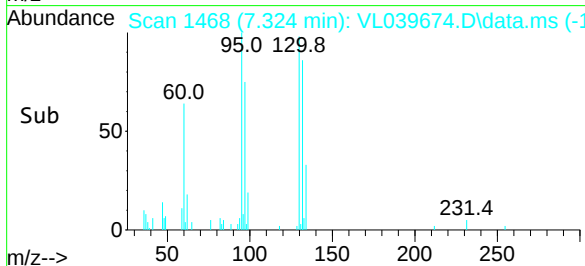
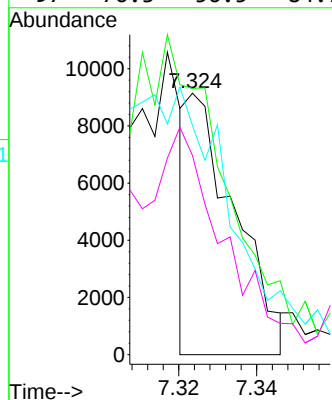
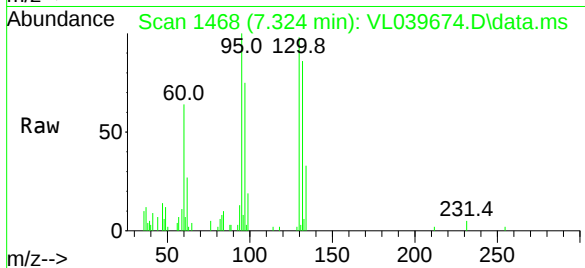




#38
 Trichloroethene
 Concen: 0.077 ppbv
 RT: 7.324 min Scan# 1466
 Delta R.T. 0.023 min
 Lab File: VL039674.D
 Acq: 22 Sep 2022 20:14

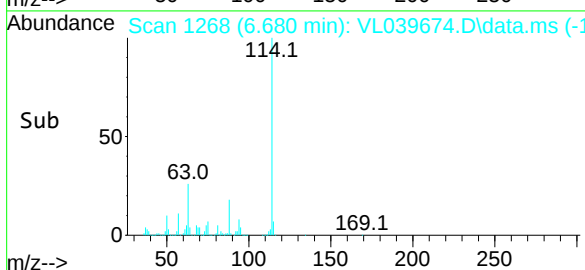
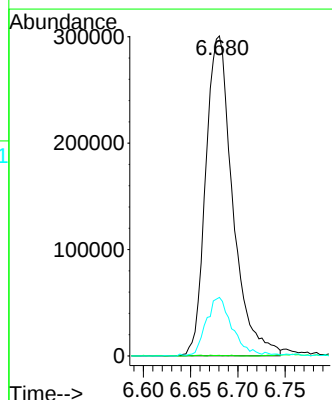
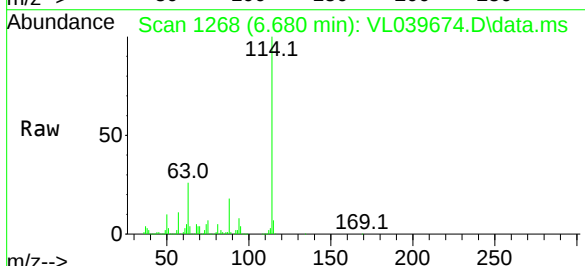
Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG4DL

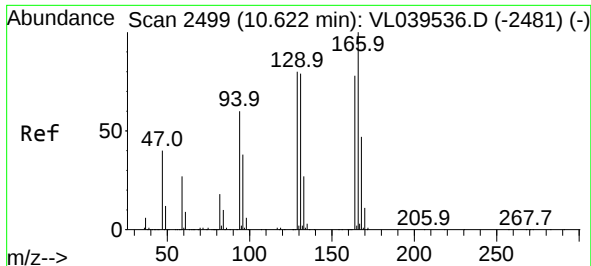
Tgt Ion:130	Resp:	7757	
Ion	Ratio	Lower	Upper
130	100		
95	87.6	87.3	130.9
132	81.9	76.7	115.1
97	76.3	56.5	84.7



#39
 1,2-Dichloropropane
 Concen: 8.321 ppbv
 RT: 6.680 min Scan# 1268
 Delta R.T. -0.401 min
 Lab File: VL039674.D
 Acq: 22 Sep 2022 20:14

Tgt Ion: 63	Resp: 595617
Ion Ratio	Lower Upper
63 100	
41 0.2	59.6 89.4#
62 18.0	51.4 77.0#

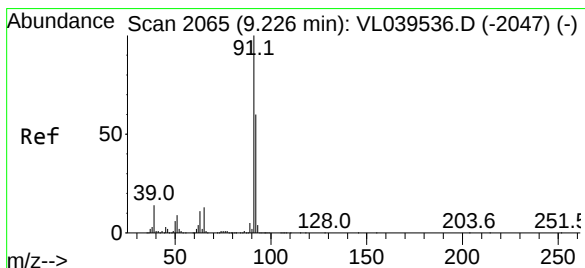
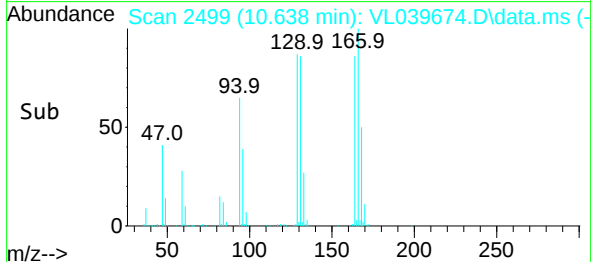
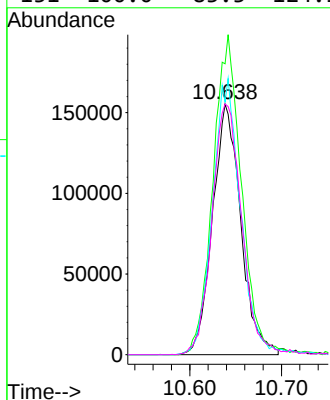
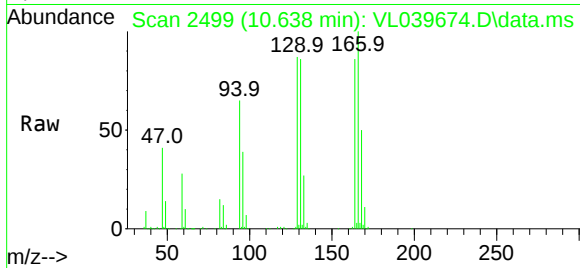




#52
Tetrachloroethene
Concen: 4.693 ppbv
RT: 10.638 min Scan# 2499
Delta R.T. 0.017 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

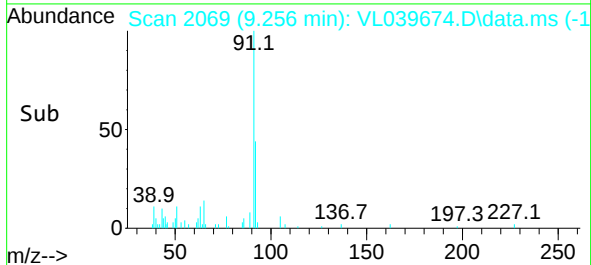
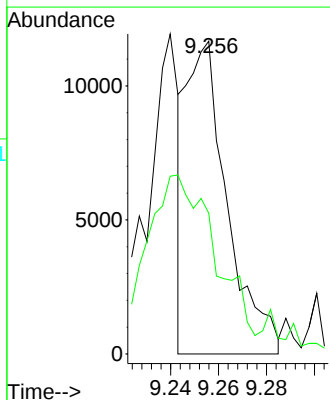
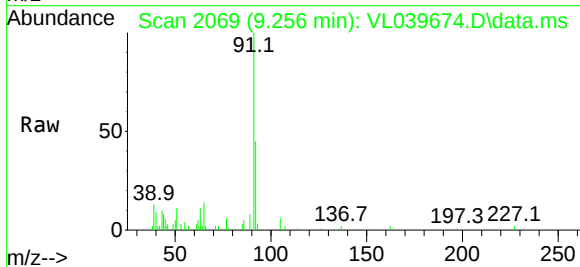
Instrument :
MSVOA_L
ClientSampleId :
C0PG4DL

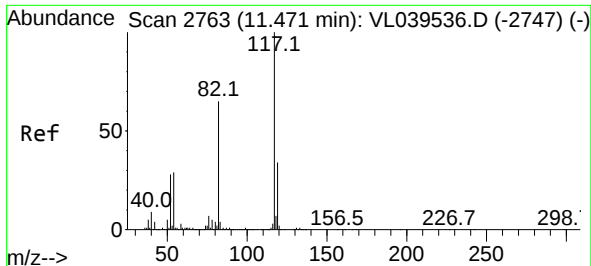
Tgt Ion:164 Resp: 331924
Ion Ratio Lower Upper
164 100
166 116.1 102.2 153.2
129 100.7 85.8 128.8
131 100.0 83.3 124.9



#53
Toluene
Concen: 0.068 ppbv
RT: 9.256 min Scan# 2069
Delta R.T. 0.030 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

Tgt Ion: 91 Resp: 13955
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.2#

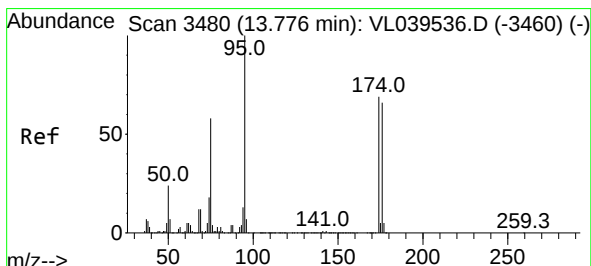
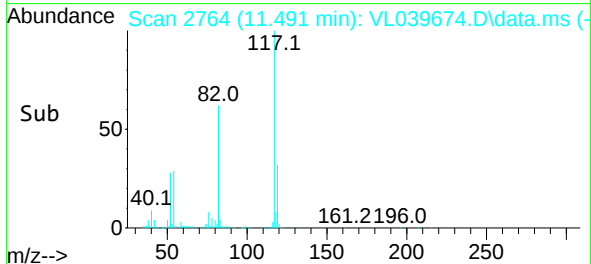
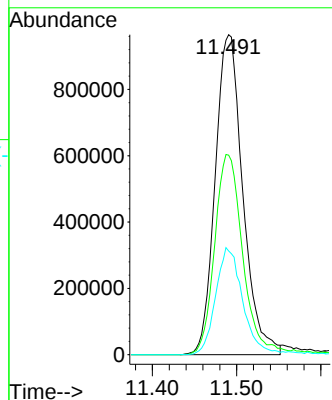
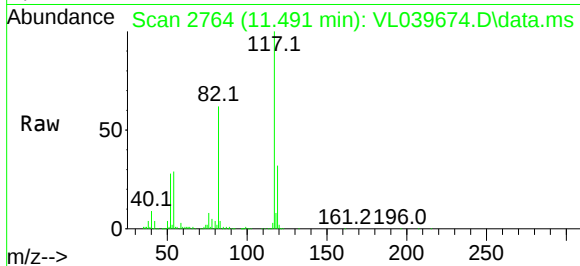




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.491 min Scan# 21
Delta R.T. 0.020 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

Instrument :
MSVOA_L
ClientSampleId :
C0PG4DL

Tgt Ion: 117 Resp: 2199218
Ion Ratio Lower Upper
117 100
82 64.9 50.8 76.2
119 33.3 24.1 36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.015 ppbv
RT: 13.799 min Scan# 3482
Delta R.T. 0.023 min
Lab File: VL039674.D
Acq: 22 Sep 2022 20:14

Tgt Ion: 95 Resp: 1644253
Ion Ratio Lower Upper
95 100
174 73.1 55.9 83.9
175 5.1 4.2 6.4

