

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092222\
 Data File : VL039678.D
 Acq On : 23 Sep 2022 9:07
 Operator : SY/AP
 Sample : N4669-12DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG4DL

Quant Time: Sep 30 08:01:25 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	5.205	49	939453	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.665	114	2398949	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2187730	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1638622	10.034	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

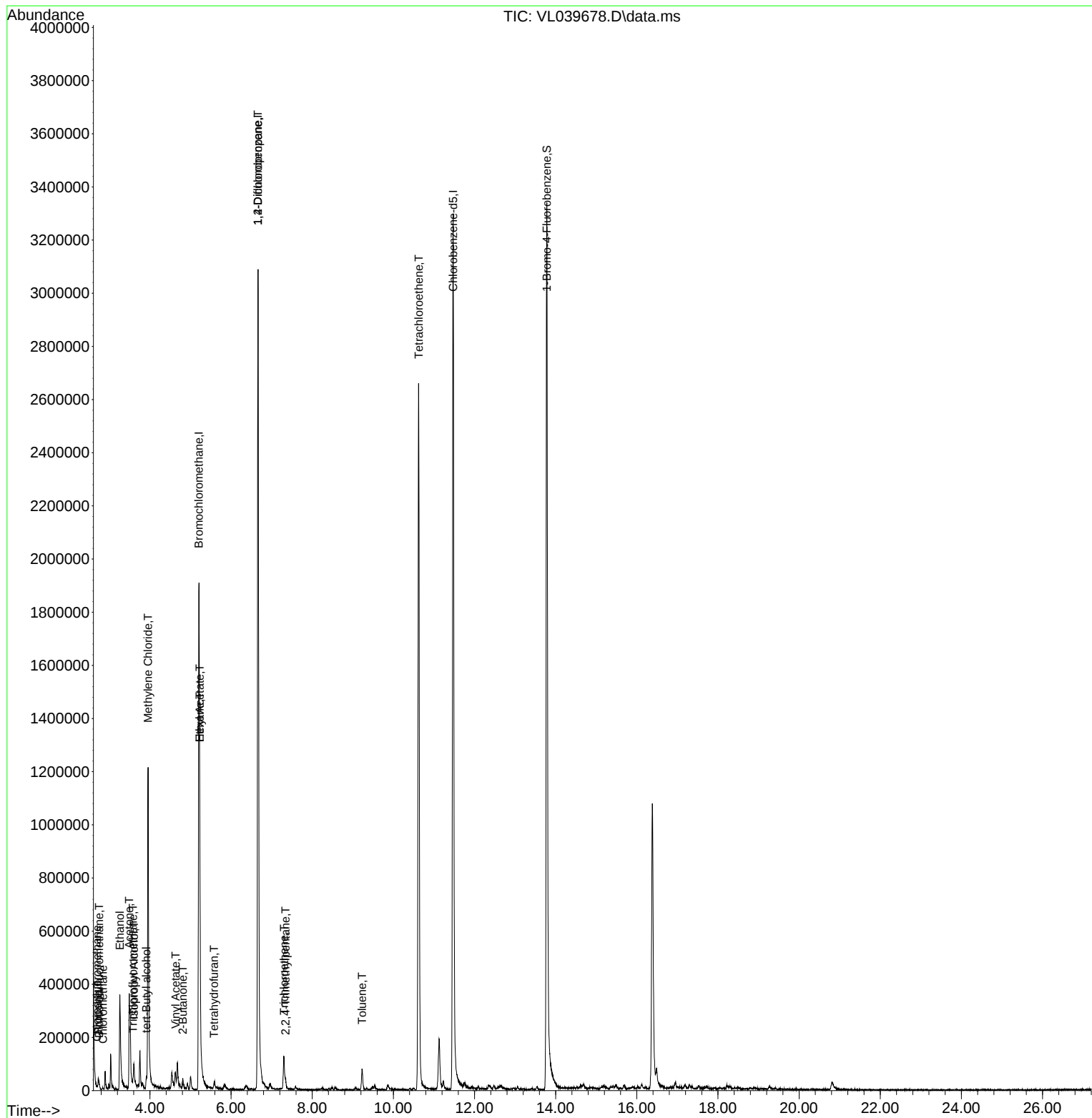
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.748	85	5605	0.051	ppbv	91
3) Chlorodifluoromethane	2.697	51	7913	0.071	ppbv #	90
4) Chloromethane	2.841	50	5041	0.075	ppbv	100
9) Propene	2.723	41	4297	0.084	ppbv #	3
11) Trichlorofluoromethane	3.584	101	7308	0.054	ppbv	84
13) Ethanol	3.260	45	429143	110.615	ppbv	68
15) Acetone	3.491	43	453655	4.340	ppbv	93
17) tert-Butyl alcohol	3.912	59	24413	0.260	ppbv #	84
19) Isopropyl Alcohol	3.604	45	80964	1.519	ppbv #	74
20) Methylene Chloride	3.954	84	422990	8.752	ppbv	94
23) Vinyl Acetate	4.632	43	19161	0.405	ppbv #	1
25) Ethyl Acetate	5.227	43	164772	0.723	ppbv #	80
26) Hexane	5.227	57	197779	2.045	ppbv #	42
34) 2-Butanone	4.812	43	38638	0.328	ppbv	91
38) Trichloroethene	7.308	130	16057	0.162	ppbv	86
39) 1,2-Dichloropropane	6.665	63	588270	8.306	ppbv #	25
41) Tetrahydrofuran	5.581	42	4710	0.065	ppbv #	35
44) 2,2,4-Trimethylpentane	7.340	57	11376	0.036	ppbv #	14
52) Tetrachloroethene	10.626	164	663118	9.477	ppbv	96
53) Toluene	9.227	91	39365	0.193	ppbv #	71

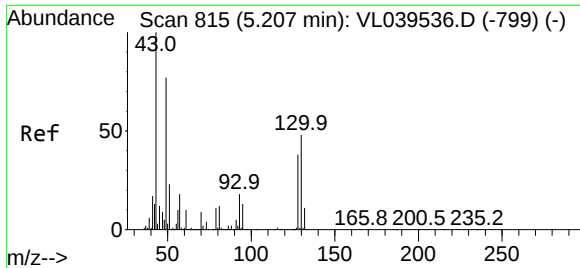
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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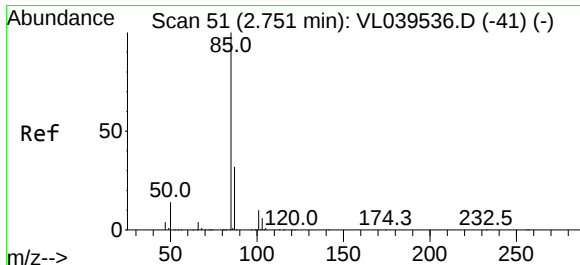
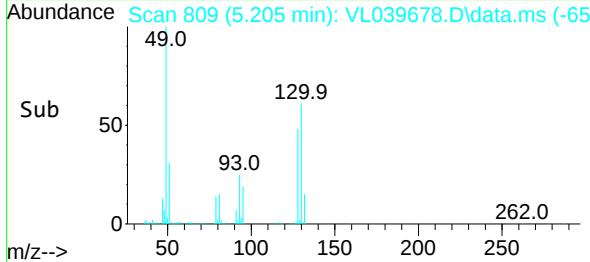
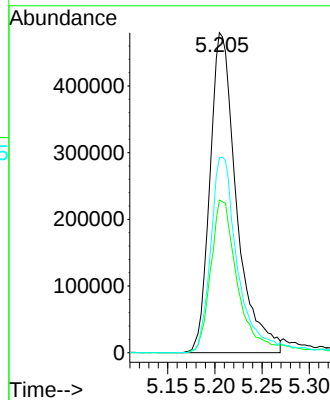
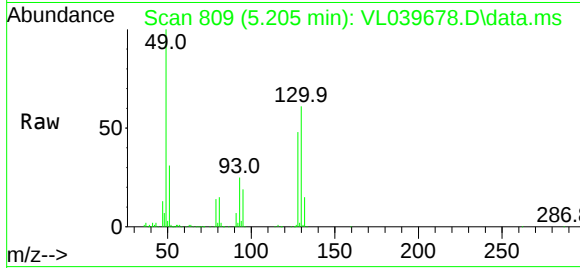




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.205 min Scan# 80
 Delta R.T. -0.002 min
 Lab File: VL039678.D
 Acq: 23 Sep 2022 9:07

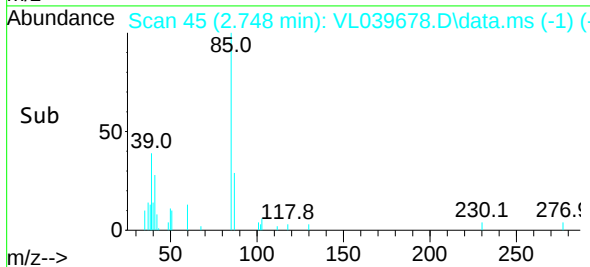
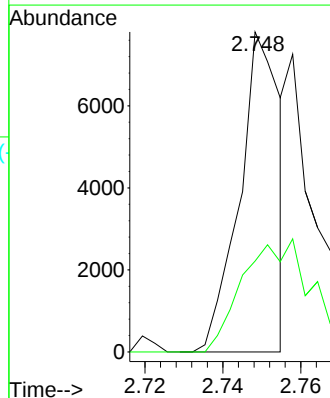
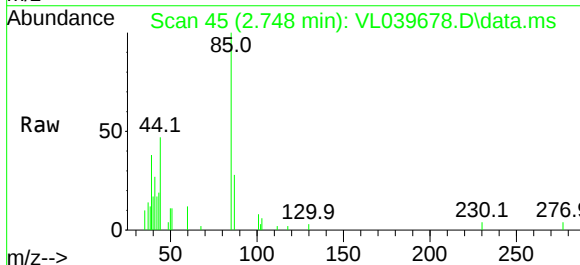
Instrument :
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 ClientSampleId :
 C0PG4DL

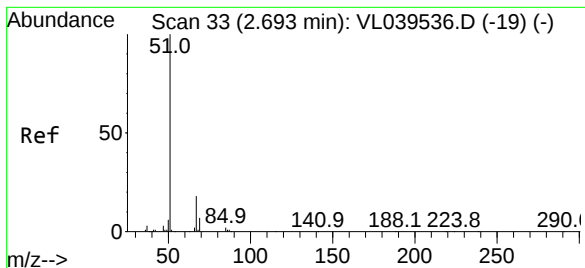
Tgt Ion: 49 Resp: 939453
 Ion Ratio Lower Upper
 49 100
 128 51.0 26.7 80.0
 130 65.0 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.051 ppbv
 RT: 2.748 min Scan# 45
 Delta R.T. -0.002 min
 Lab File: VL039678.D
 Acq: 23 Sep 2022 9:07

Tgt Ion: 85 Resp: 5605
 Ion Ratio Lower Upper
 85 100
 87 28.4 26.7 40.1

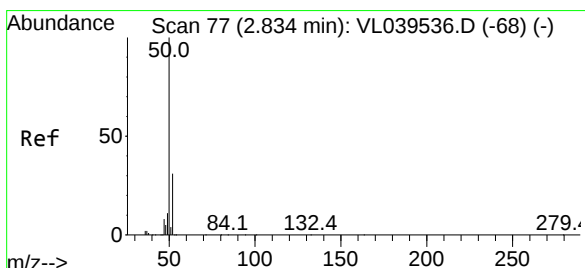
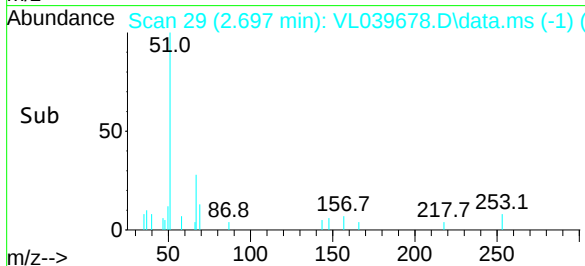
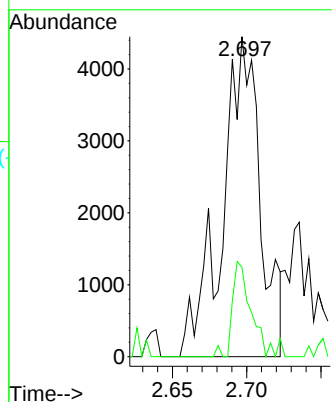
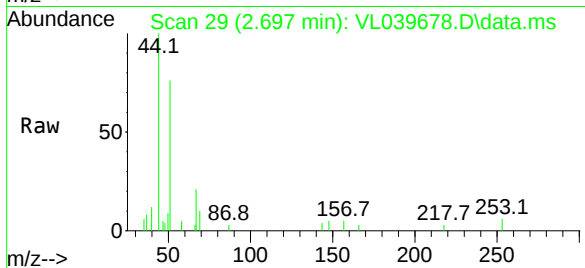




#3
 Chlorodifluoromethane
 Concen: 0.071 ppbv
 RT: 2.697 min Scan# 29
 Delta R.T. 0.004 min
 Lab File: VL039678.D
 Acq: 23 Sep 2022 9:07

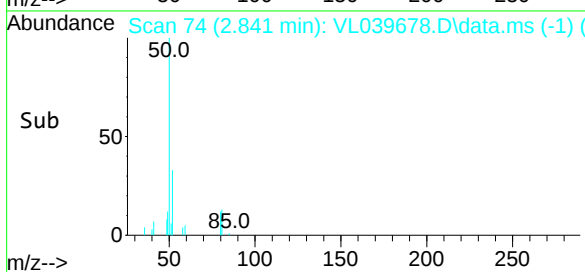
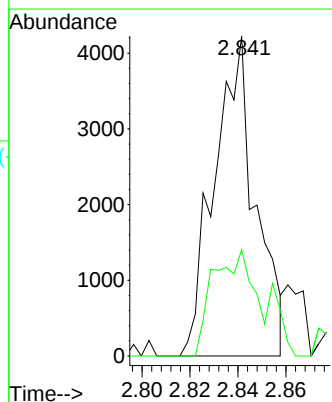
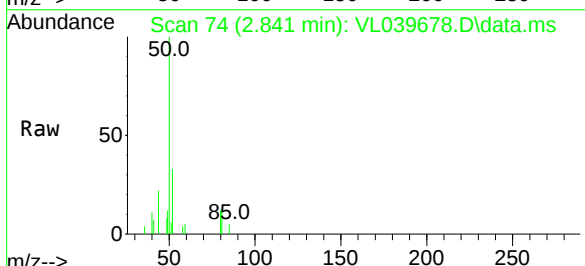
Instrument :
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 ClientSampleId :
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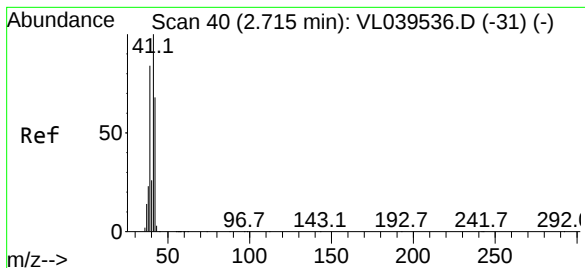
Tgt Ion: 51 Resp: 7913
 Ion Ratio Lower Upper
 51 100
 67 15.0 15.7 23.5#



#4
 Chloromethane
 Concen: 0.075 ppbv
 RT: 2.841 min Scan# 74
 Delta R.T. 0.007 min
 Lab File: VL039678.D
 Acq: 23 Sep 2022 9:07

Tgt Ion: 50 Resp: 5041
 Ion Ratio Lower Upper
 50 100
 52 33.2 26.5 39.7

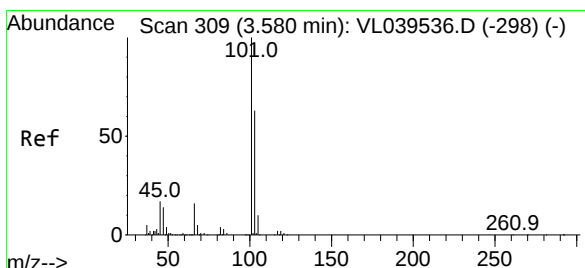
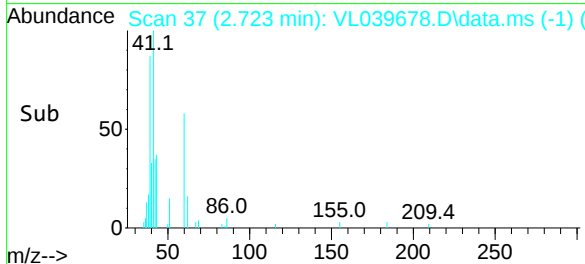
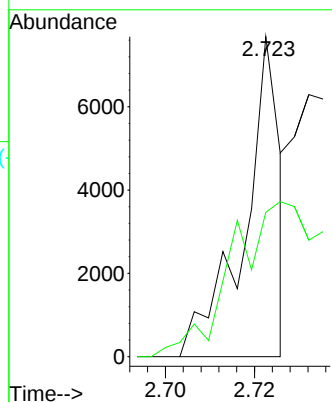
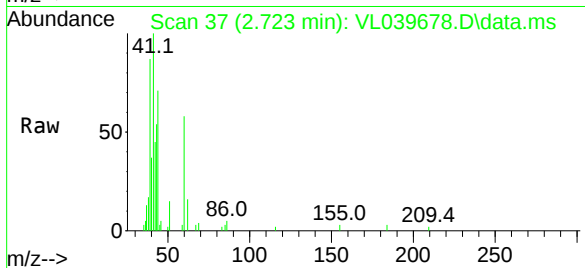




#9
 Propene
 Concen: 0.084 ppbv
 RT: 2.723 min Scan# 31
 Delta R.T. 0.007 min
 Lab File: VL039678.D
 Acq: 23 Sep 2022 9:07

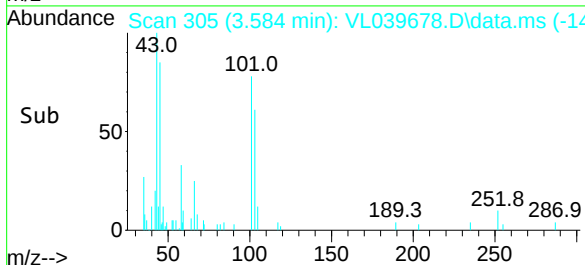
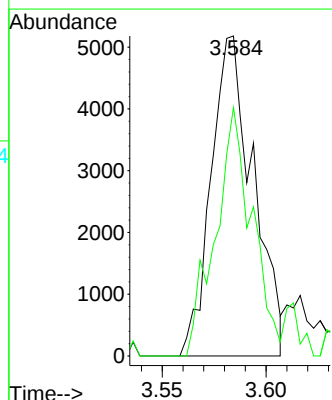
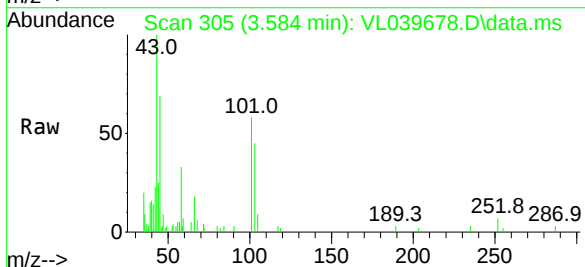
Instrument :
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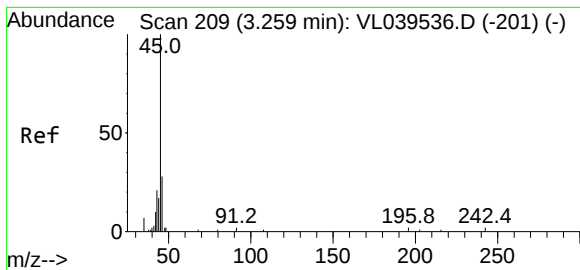
Tgt Ion: 41 Resp: 4297
 Ion Ratio Lower Upper
 41 100
 42 148.1 55.2 82.8#



#11
 Trichlorofluoromethane
 Concen: 0.054 ppbv
 RT: 3.584 min Scan# 305
 Delta R.T. 0.004 min
 Lab File: VL039678.D
 Acq: 23 Sep 2022 9:07

Tgt Ion: 101 Resp: 7308
 Ion Ratio Lower Upper
 101 100
 103 77.7 51.8 77.8

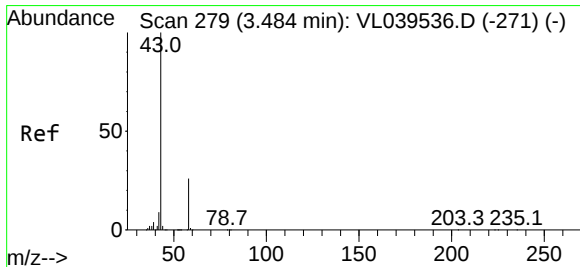
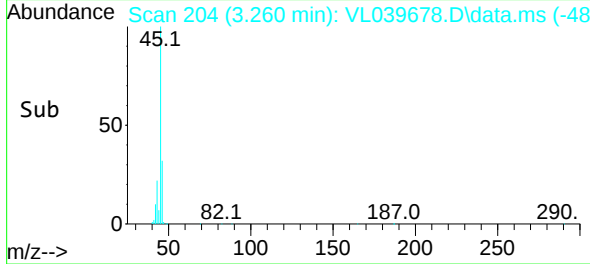
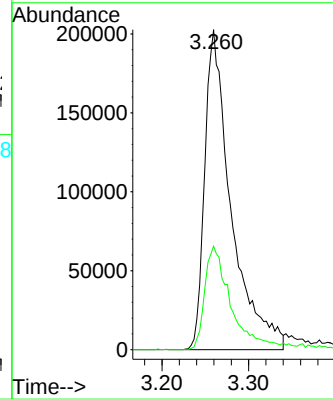
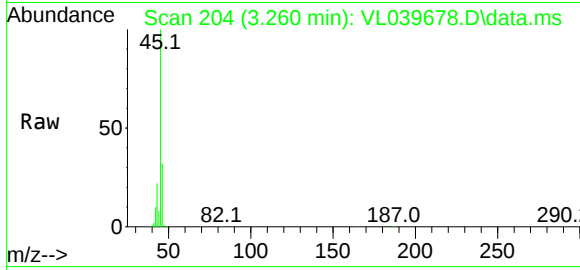




#13
 Ethanol
 Concen: 110.615 ppbv
 RT: 3.260 min Scan# 209
 Delta R.T. 0.001 min
 Lab File: VL039678.D
 Acq: 23 Sep 2022 9:07

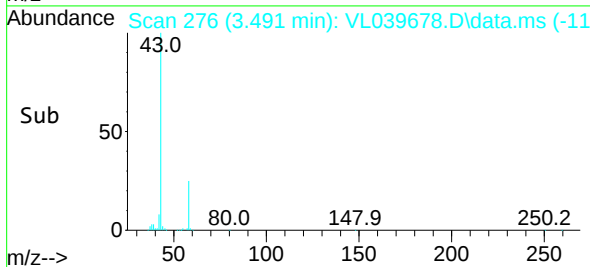
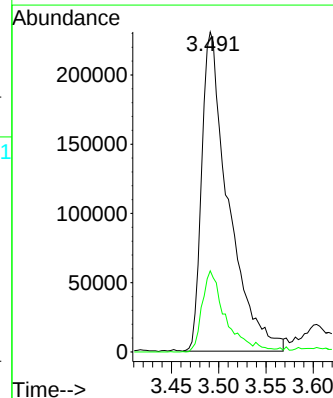
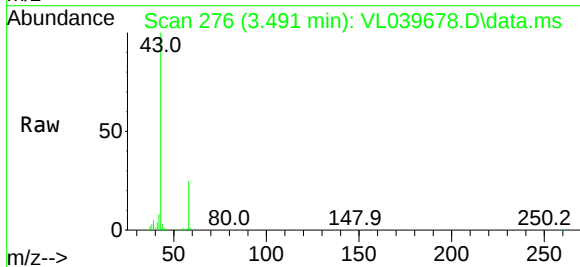
Instrument :
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 ClientSampleId :
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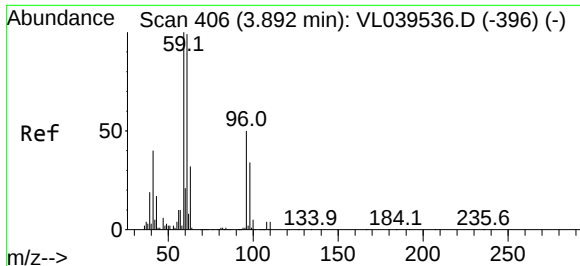
Tgt Ion: 45 Resp: 429143
 Ion Ratio Lower Upper
 45 100
 46 33.1 22.8 91.2



#15
 Acetone
 Concen: 4.340 ppbv
 RT: 3.491 min Scan# 276
 Delta R.T. 0.007 min
 Lab File: VL039678.D
 Acq: 23 Sep 2022 9:07

Tgt Ion: 43 Resp: 453655
 Ion Ratio Lower Upper
 43 100
 58 22.5 21.0 31.6

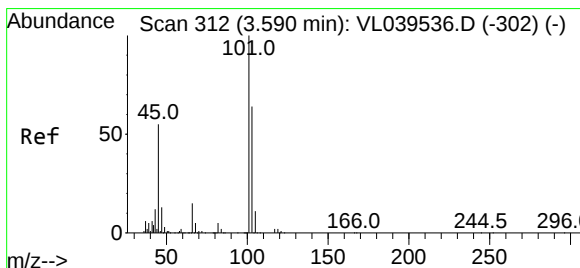
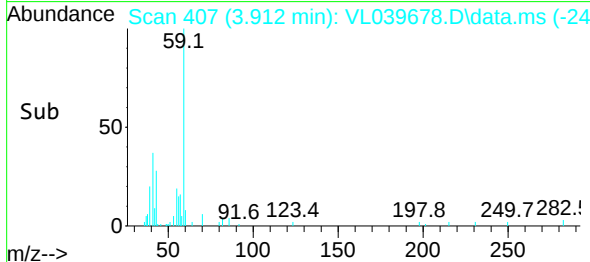
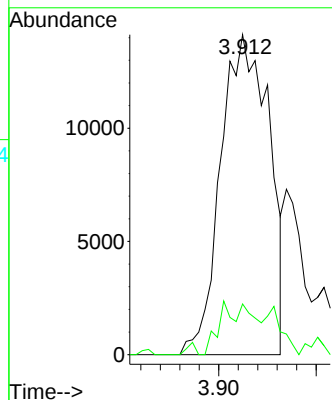
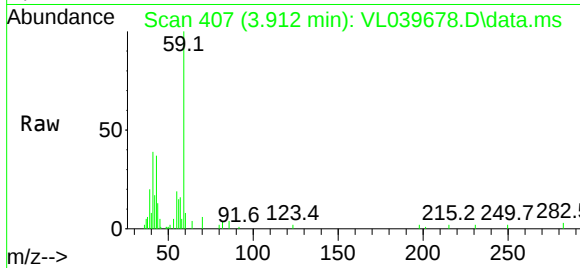




#17
tert-Butyl alcohol
Concen: 0.260 ppbv
RT: 3.912 min Scan# 406
Delta R.T. 0.020 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

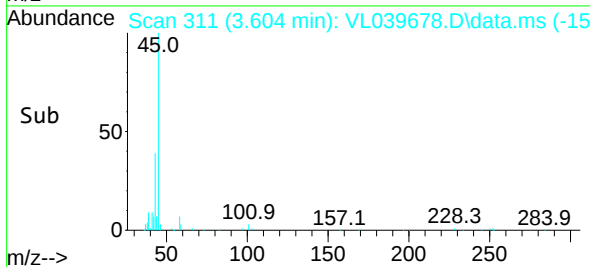
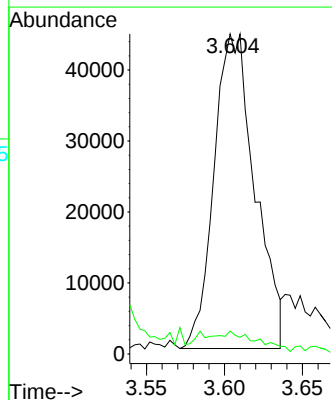
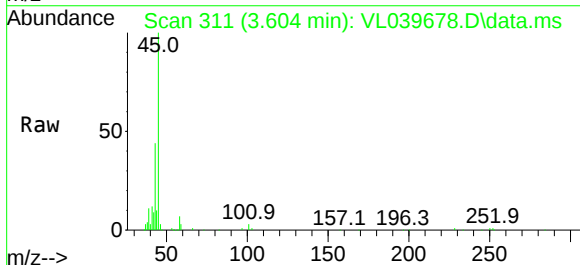
Instrument :
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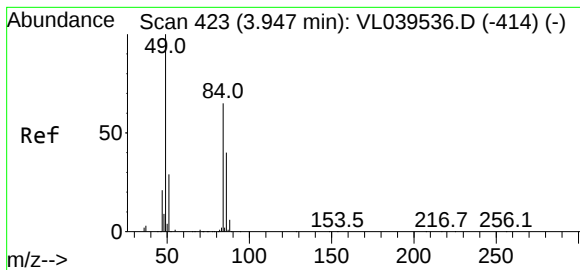
Tgt Ion: 59 Resp: 24413
Ion Ratio Lower Upper
59 100
57 16.9 8.7 13.1#



#19
Isopropyl Alcohol
Concen: 1.519 ppbv
RT: 3.604 min Scan# 311
Delta R.T. 0.014 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

Tgt Ion: 45 Resp: 80964
Ion Ratio Lower Upper
45 100
58 12.6 3.2 4.8#



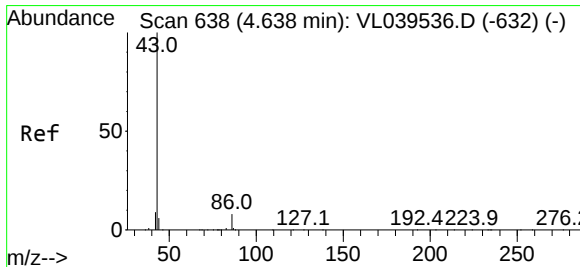
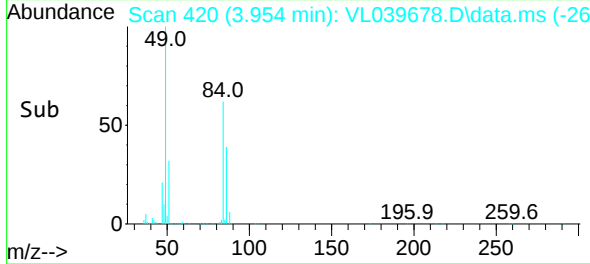
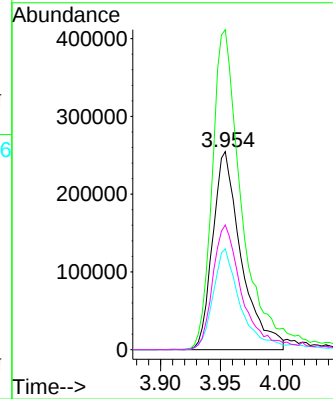
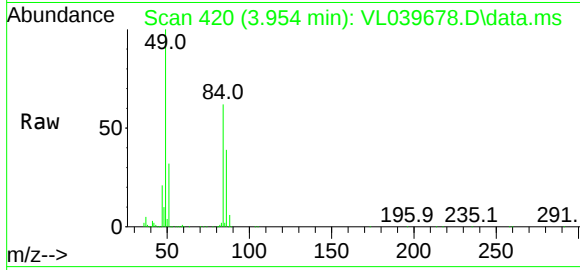


#20
Methylene Chloride
Concen: 8.752 ppbv
RT: 3.954 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

Instrument :
MSVOA_L
ClientSampleId :
C0PG4DL

Tgt Ion: 84 Resp: 422990

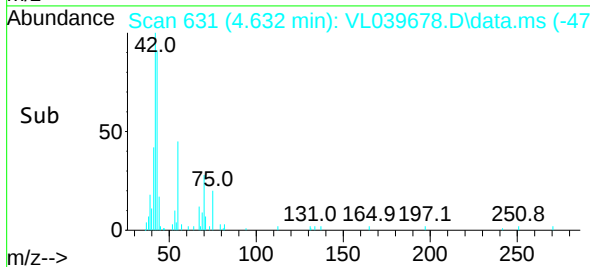
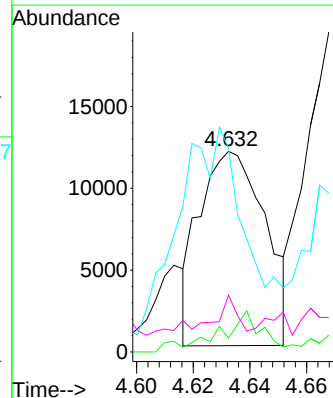
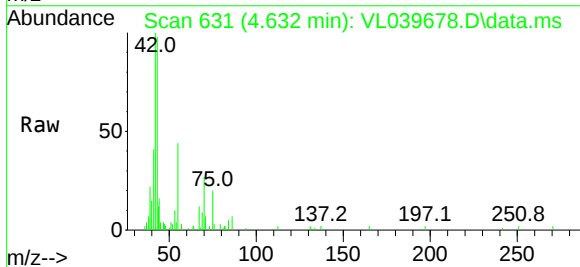
Ion	Ratio	Lower	Upper
84	100		
49	161.4	123.1	184.7
51	50.6	34.4	51.6
86	62.9	51.1	76.7

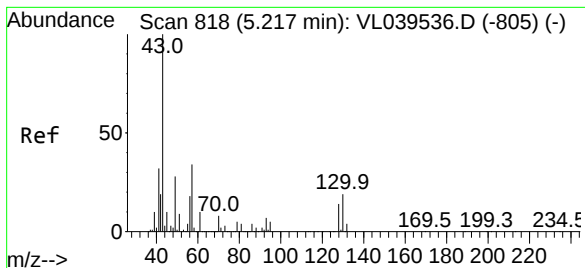


#23
Vinyl Acetate
Concen: 0.405 ppbv
RT: 4.632 min Scan# 631
Delta R.T. -0.006 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

Tgt Ion: 43 Resp: 19161

Ion	Ratio	Lower	Upper
43	100		
86	6.6	5.0	7.6
42	98.9	7.7	11.5#
44	17.9	4.6	7.0#

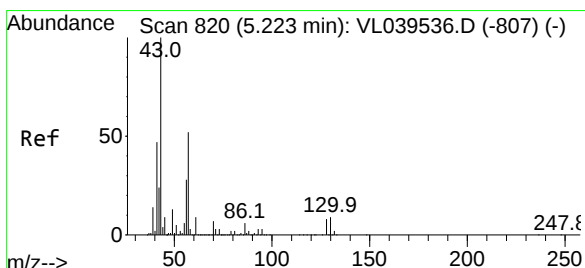
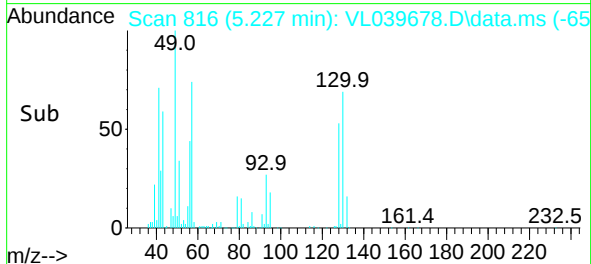
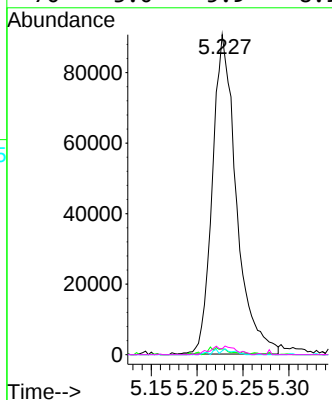
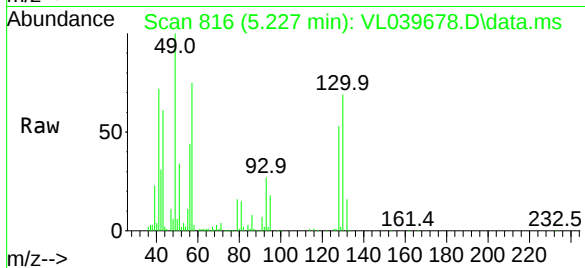




#25
Ethyl Acetate
Concen: 0.723 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.010 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

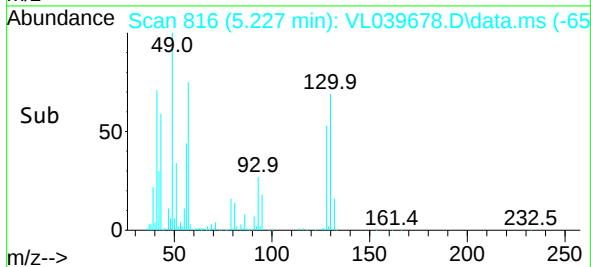
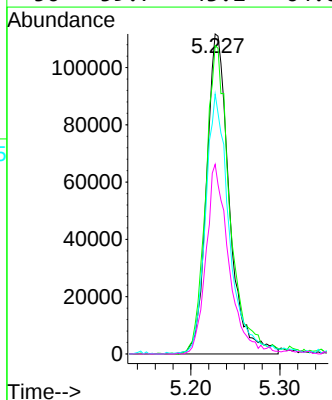
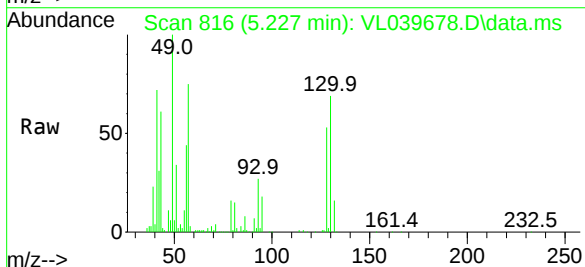
Instrument :
MSVOA_L
ClientSampleId :
C0PG4DL

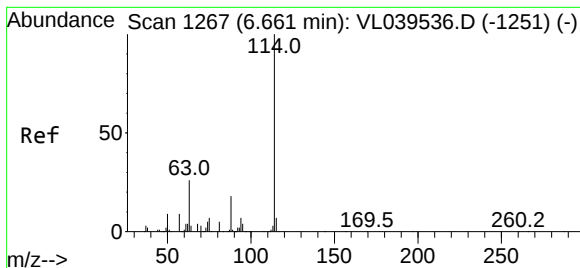
Tgt Ion: 43 Resp: 164772
Ion Ratio Lower Upper
43 100
45 2.1 8.2 12.4#
61 1.4 8.3 12.5#
70 3.0 5.9 8.9#



#26
Hexane
Concen: 2.045 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.004 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

Tgt Ion: 57 Resp: 197779
Ion Ratio Lower Upper
57 100
41 105.1 76.9 115.3
43 86.8 191.0 286.6#
56 59.7 43.2 64.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.665 min Scan# 11

Delta R.T. 0.004 min

Lab File: VL039678.D

Acq: 23 Sep 2022 9:07

Instrument :

MSVOA_L

ClientSampleId :

C0PG4DL

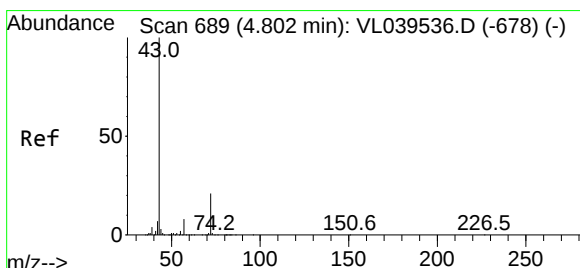
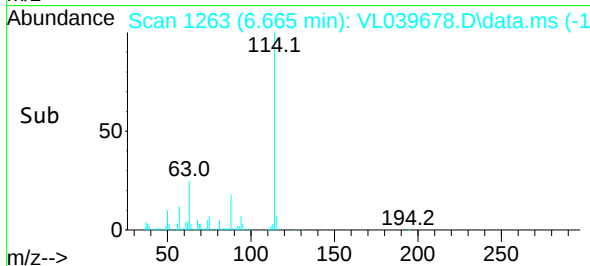
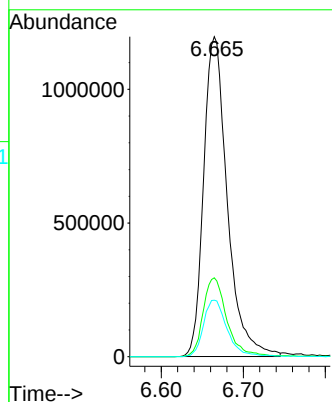
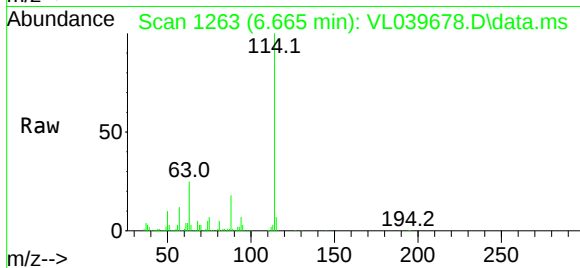
Tgt Ion:114 Resp: 2398949

Ion Ratio Lower Upper

114 100

63 25.1 20.2 30.4

88 17.9 14.5 21.7



#34

2-Butanone

Concen: 0.328 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.010 min

Lab File: VL039678.D

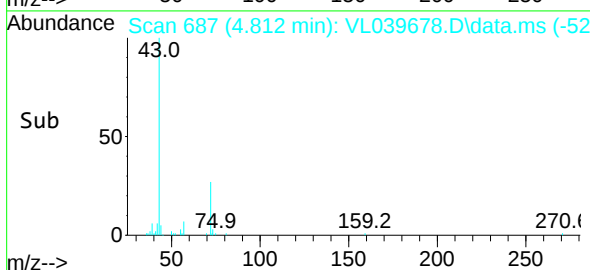
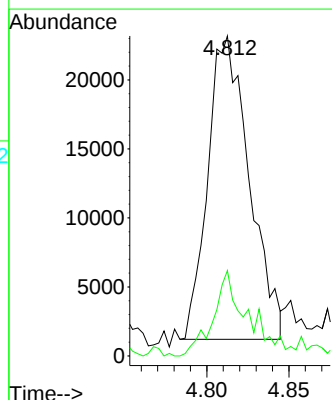
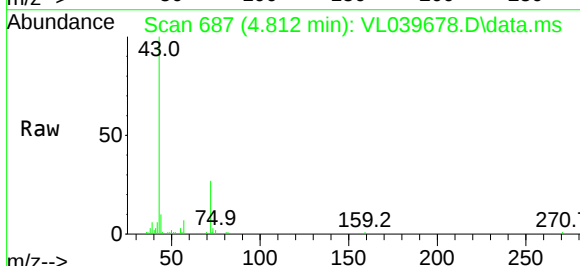
Acq: 23 Sep 2022 9:07

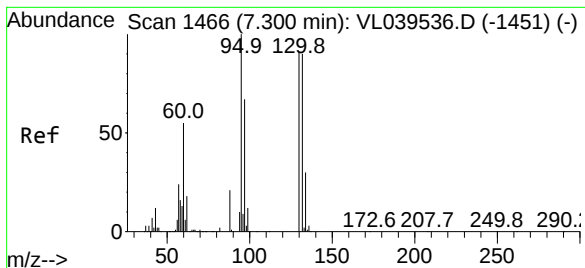
Tgt Ion: 43 Resp: 38638

Ion Ratio Lower Upper

43 100

72 26.7 17.9 26.9

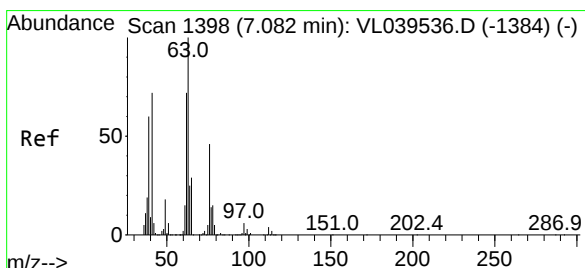
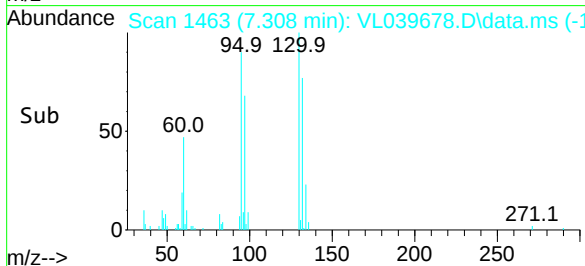
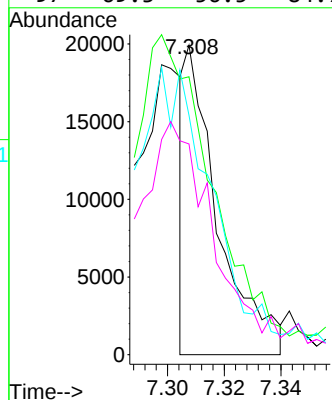
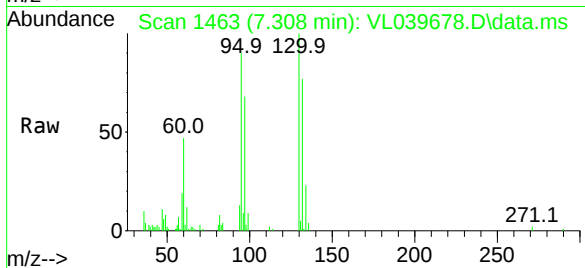




#38
Trichloroethene
Concen: 0.162 ppbv
RT: 7.308 min Scan# 14
Delta R.T. 0.007 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

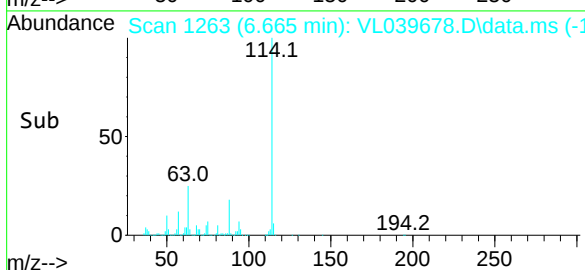
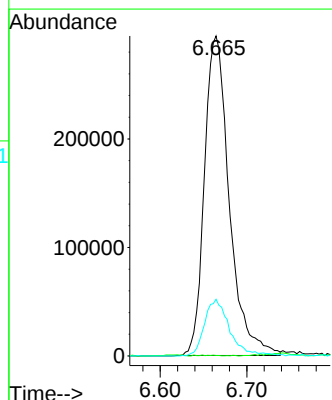
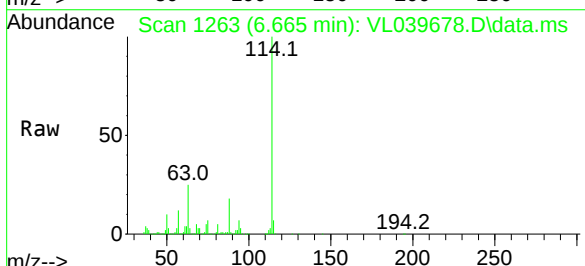
Instrument :
MSVOA_L
ClientSampleId :
C0PG4DL

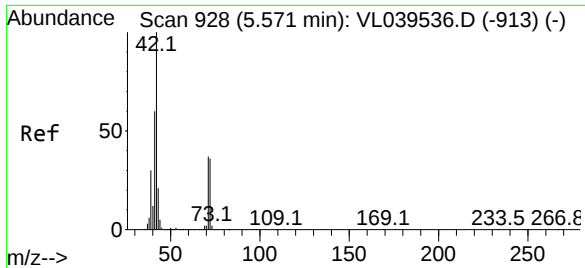
Tgt Ion:	130	Resp:	16057
Ion	Ratio	Lower	Upper
130	100		
95	89.2	87.3	130.9
132	78.3	76.7	115.1
97	69.3	56.5	84.7



#39
1,2-Dichloropropane
Concen: 8.306 ppbv
RT: 6.665 min Scan# 1263
Delta R.T. -0.417 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

Tgt Ion:	63	Resp:	588270
Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	17.8	51.4	77.0#





#41

Tetrahydrofuran

Concen: 0.065 ppbv

RT: 5.581 min Scan# 91

Delta R.T. 0.010 min

Lab File: VL039678.D

Acq: 23 Sep 2022 9:07

Instrument :

MSVOA_L

ClientSampleId :

C0PG4DL

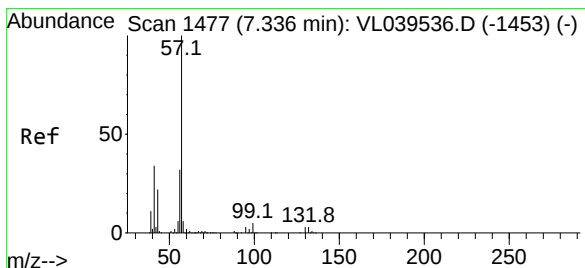
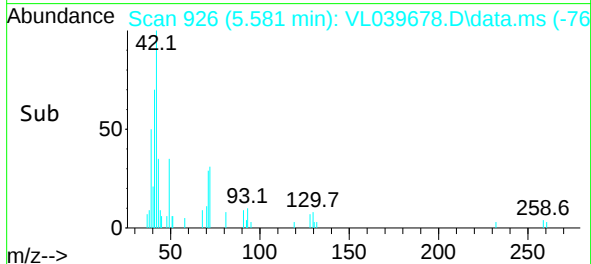
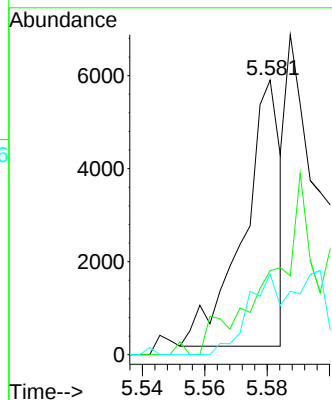
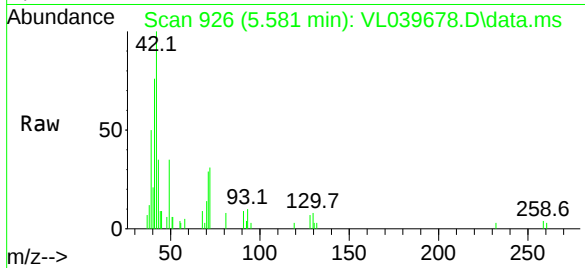
Tgt Ion: 42 Resp: 4710

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

71 0.0 31.8 47.8#



#44

2,2,4-Trimethylpentane

Concen: 0.036 ppbv

RT: 7.340 min Scan# 1473

Delta R.T. 0.004 min

Lab File: VL039678.D

Acq: 23 Sep 2022 9:07

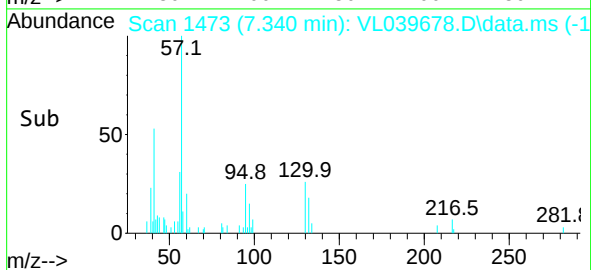
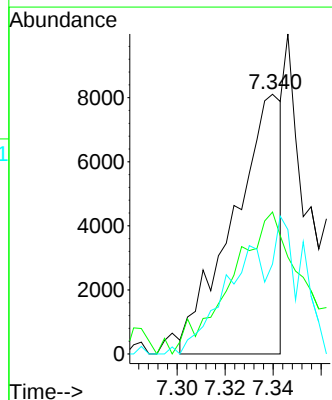
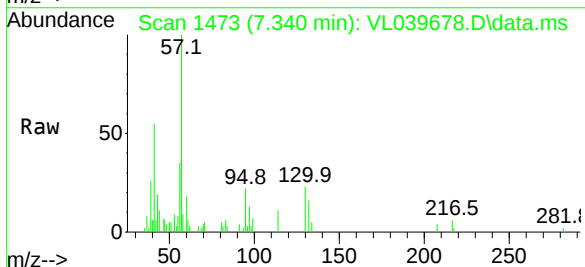
Tgt Ion: 57 Resp: 11376

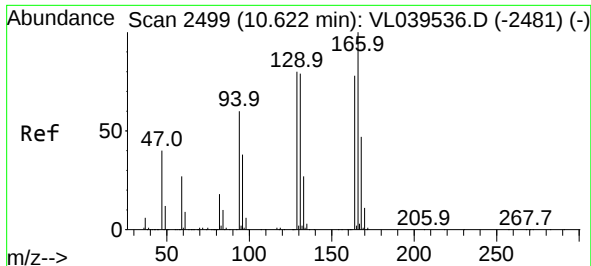
Ion Ratio Lower Upper

57 100

41 99.4 27.4 41.2#

56 0.0 24.5 36.7#

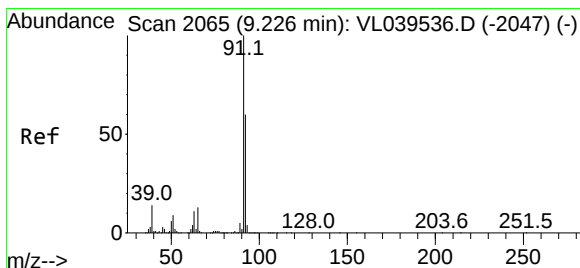
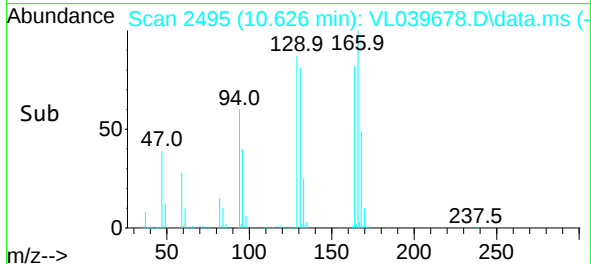
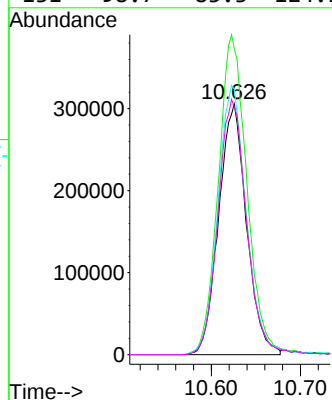
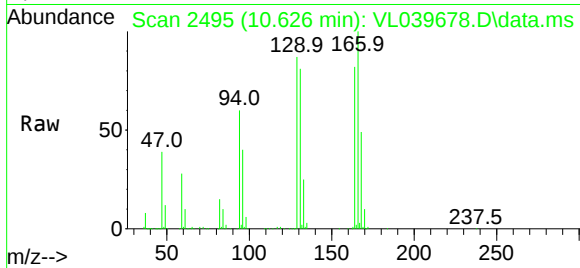




#52
Tetrachloroethene
Concen: 9.477 ppbv
RT: 10.626 min Scan# 2499
Delta R.T. 0.004 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

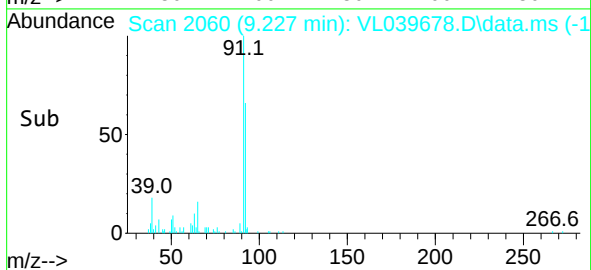
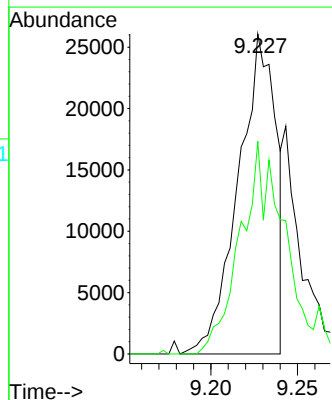
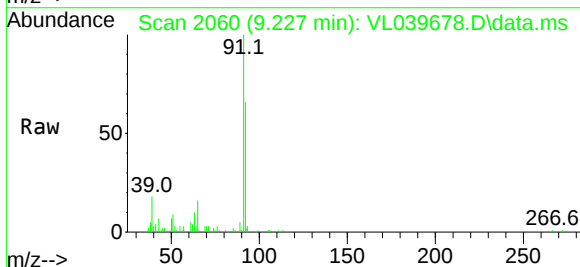
Instrument :
MSVOA_L
ClientSampleId :
C0PG4DL

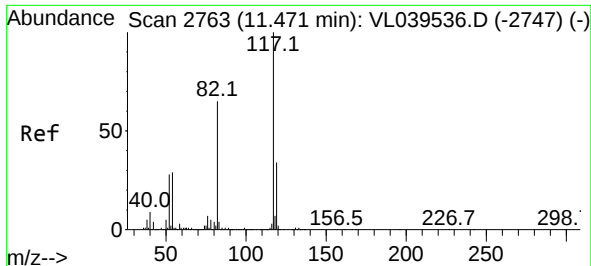
Tgt Ion:164 Resp: 663118
Ion Ratio Lower Upper
164 100
166 122.1 102.2 153.2
129 105.9 85.8 128.8
131 98.7 83.3 124.9



#53
Toluene
Concen: 0.193 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. 0.001 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

Tgt Ion: 91 Resp: 39365
Ion Ratio Lower Upper
91 100
92 82.3 48.2 72.2#

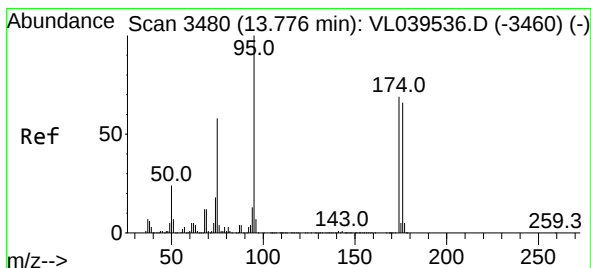
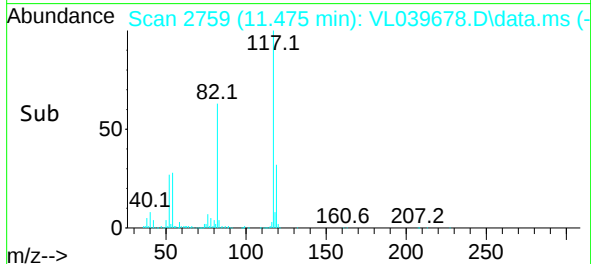
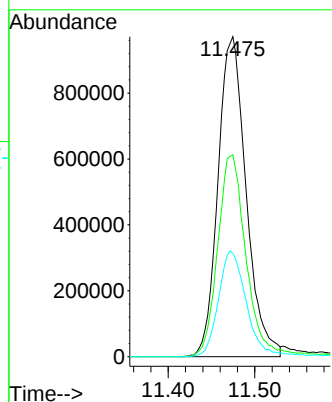
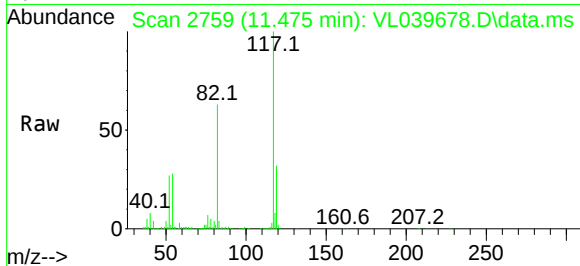




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 21
Delta R.T. 0.004 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

Instrument :
MSVOA_L
ClientSampleId :
C0PG4DL

Tgt Ion: 117 Resp: 2187730
Ion Ratio Lower Upper
117 100
82 64.9 50.8 76.2
119 33.8 24.1 36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.034 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. 0.004 min
Lab File: VL039678.D
Acq: 23 Sep 2022 9:07

Tgt Ion: 95 Resp: 1638622
Ion Ratio Lower Upper
95 100
174 72.4 55.9 83.9
175 5.4 4.2 6.4

