

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122222\
 Data File : VL040064.D
 Acq On : 22 Dec 2022 12:29
 Operator : SY/MD
 Sample : N6181-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 23 06:27:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 20 04:50:21 2022
 Response via : Initial Calibration

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

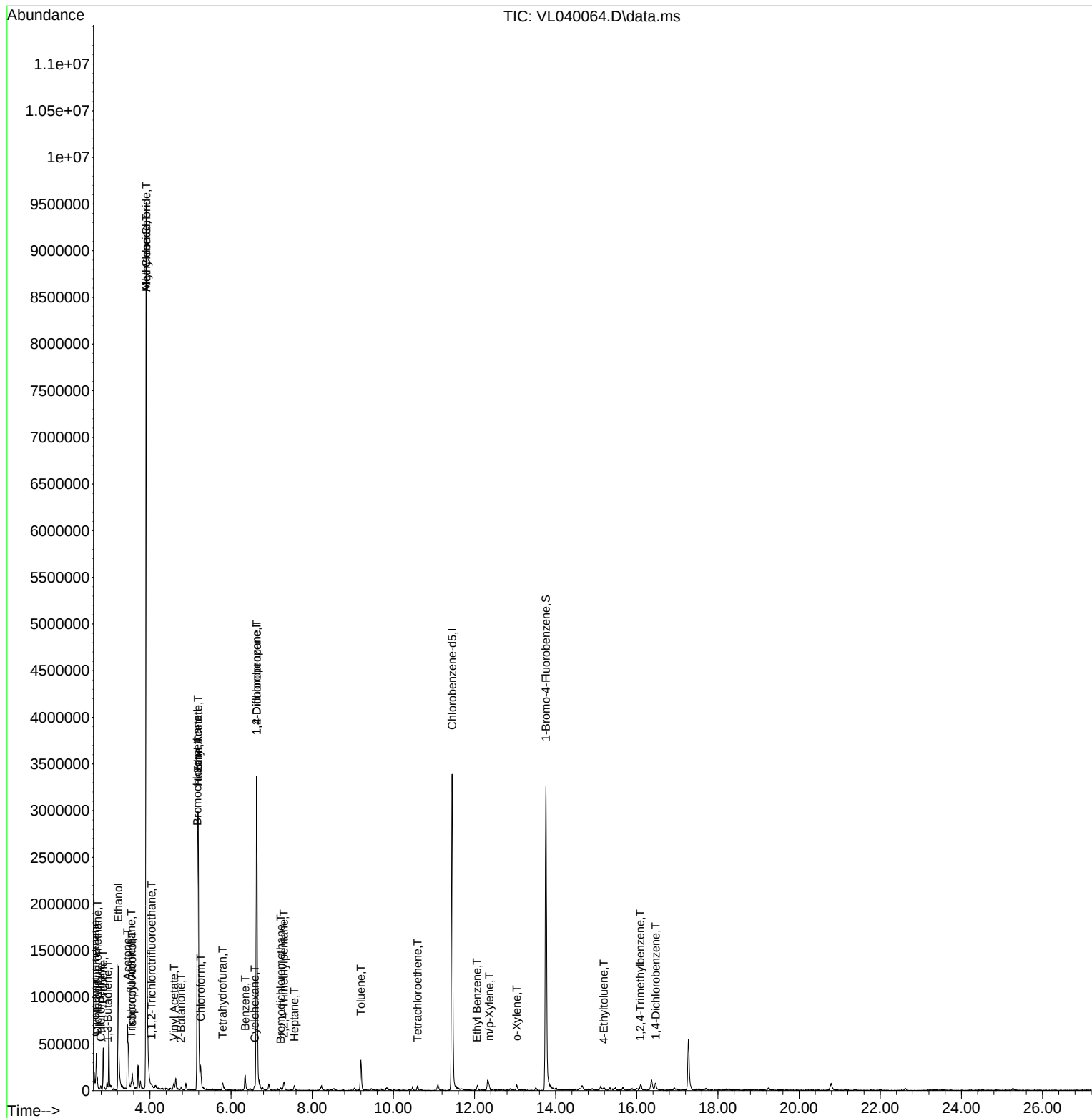
Internal Standards						
1) Bromochloromethane	5.169	49	932941	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2534316	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2183708	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1659533	9.949	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	45149	0.259	ppbv	91
3) Chlorodifluoromethane	2.652	51	56804	0.413	ppbv #	90
4) Chloromethane	2.790	50	28297	0.328	ppbv	97
9) Propene	2.848	41	102923	1.762	ppbv	92
10) Heptane	7.558	43	17944	0.126	ppbv	94
11) Trichlorofluoromethane	3.539	101	36967	0.195	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.041	101	7842	0.055	ppbv	83
13) Ethanol	3.218	45	1362131	247.753	ppbv	97
15) Acetone	3.446	43	779571	5.402	ppbv	94
16) 1,3-Butadiene	2.960	39	4272	0.068	ppbv #	1
19) Isopropyl Alcohol	3.562	45	152792	2.148	ppbv #	92
20) Methylene Chloride	3.909	84	3436801	56.024	ppbv	94
21) Allyl Chloride	3.912	41	126590	1.460	ppbv #	24
23) Vinyl Acetate	4.597	43	14050	0.307	ppbv #	34
25) Ethyl Acetate	5.189	43	724826	2.900	ppbv #	76
26) Hexane	5.192	57	1042729	9.926	ppbv #	37
29) Chloroform	5.250	83	124519	0.777	ppbv	99
30) Cyclohexane	6.584	84	6202	0.067	ppbv #	1
34) 2-Butanone	4.767	43	28831	0.210	ppbv	96
36) Benzene	6.349	78	133619	0.590	ppbv	97
39) 1,2-Dichloropropane	6.632	63	642698	7.576	ppbv #	24
41) Tetrahydrofuran	5.790	42	6912	0.081	ppbv #	35
42) Bromodichloromethane	7.224	83	5726	0.031	ppbv #	51
44) 2,2,4-Trimethylpentane	7.304	57	70515	0.189	ppbv #	75
52) Tetrachloroethene	10.597	164	3608	0.047	ppbv #	27
53) Toluene	9.201	91	227176	0.907	ppbv	99
58) Ethyl Benzene	12.060	91	12647	0.041	ppbv	97
59) m/p-Xylene	12.365	91	12116	0.045	ppbv #	32
60) o-Xylene	13.040	91	25294	0.098	ppbv #	50
72) 4-Ethyltoluene	15.182	105	11672	0.041	ppbv #	72
74) 1,2,4-Trimethylbenzene	16.085	105	15390	0.054	ppbv #	69
76) 1,4-Dichlorobenzene	16.468	146	16289	0.107	ppbv	88

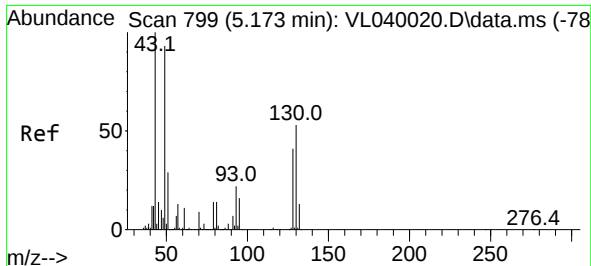
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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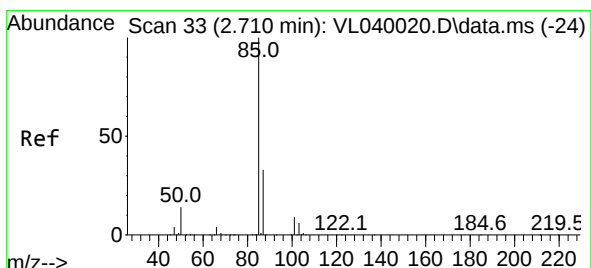
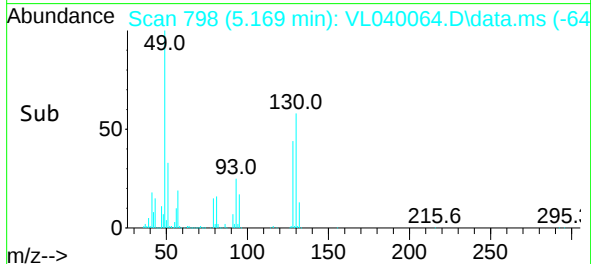
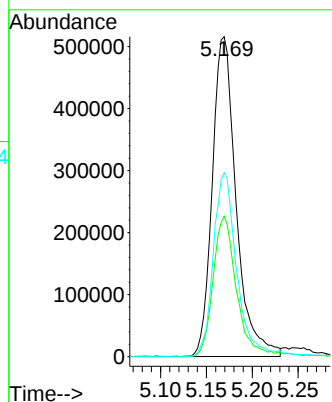
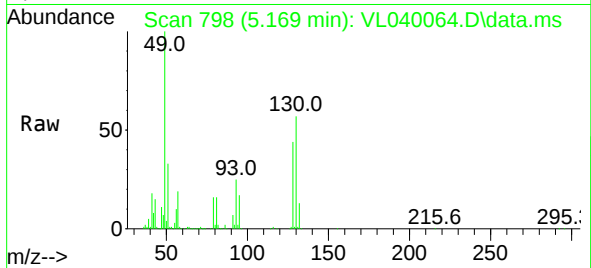




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.169 min Scan# 799
 Delta R.T. -0.004 min
 Lab File: VL040064.D
 Acq: 22 Dec 2022 12:29

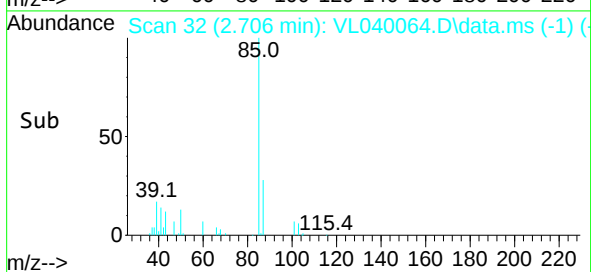
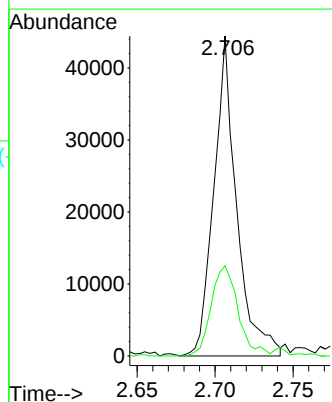
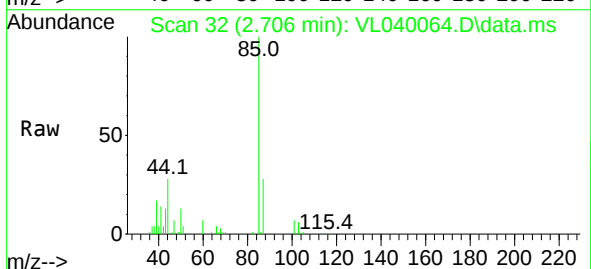
Instrument :
 MSVOA_L
 ClientSampleId :

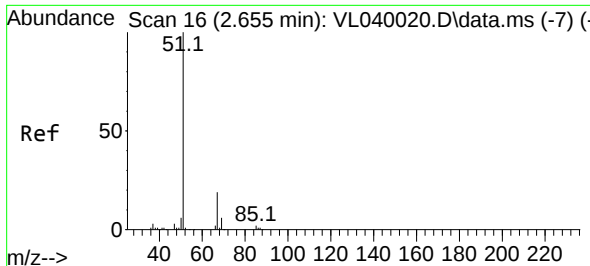
Tgt Ion: 49 Resp: 932941
 Ion Ratio Lower Upper
 49 100
 128 43.9 22.4 67.3
 130 57.7 28.9 86.8



#2
 Dichlorodifluoromethane
 Concen: 0.259 ppbv
 RT: 2.706 min Scan# 32
 Delta R.T. -0.003 min
 Lab File: VL040064.D
 Acq: 22 Dec 2022 12:29

Tgt Ion: 85 Resp: 45149
 Ion Ratio Lower Upper
 85 100
 87 28.2 26.6 40.0

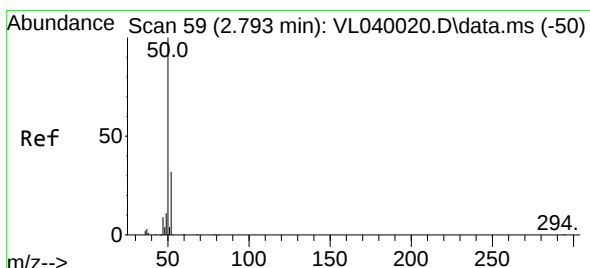
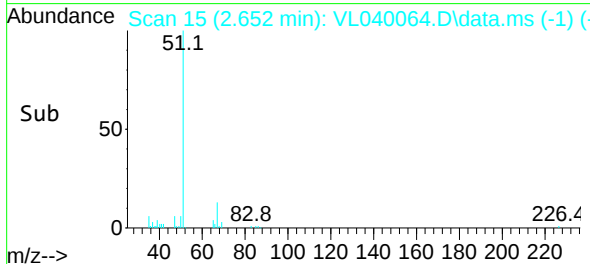
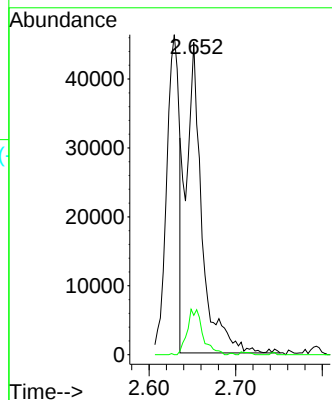
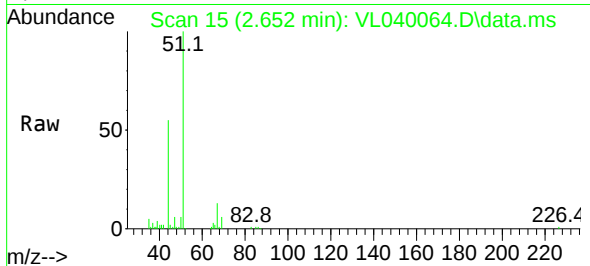




#3
Chlorodifluoromethane
Concen: 0.413 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

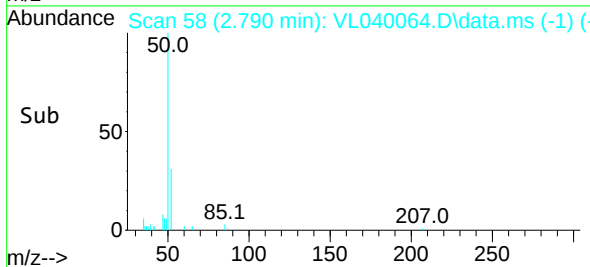
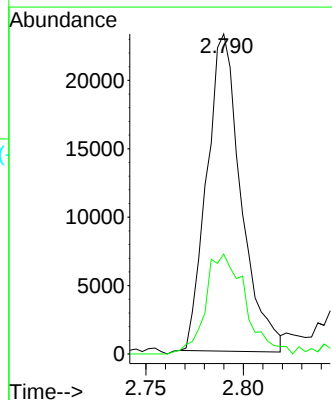
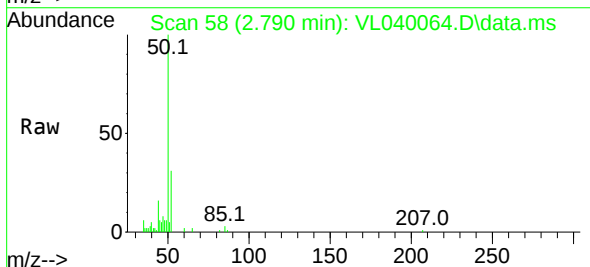
Instrument :
MSVOA_L
ClientSampleId :

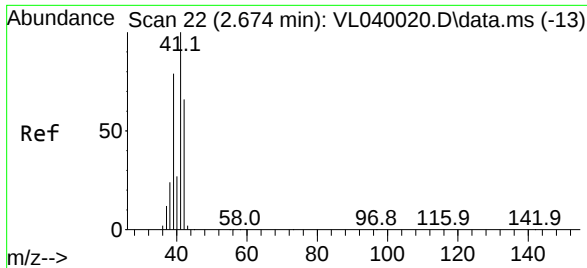
Tgt Ion: 51 Resp: 56804
Ion Ratio Lower Upper
51 100
67 14.7 15.3 22.9#



#4
Chloromethane
Concen: 0.328 ppbv
RT: 2.790 min Scan# 58
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion: 50 Resp: 28297
Ion Ratio Lower Upper
50 100
52 30.4 25.5 38.3

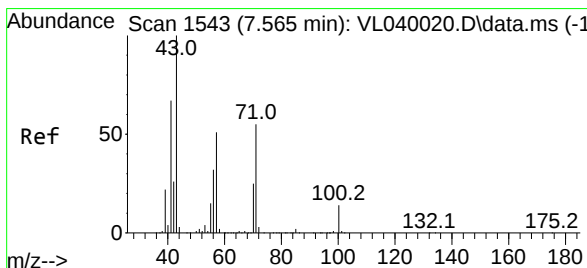
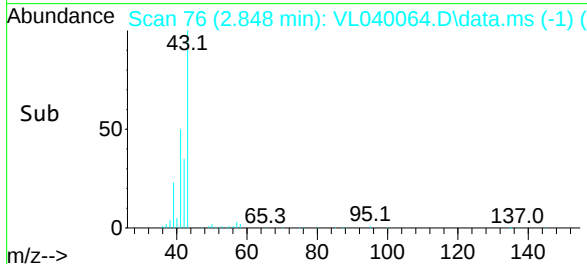
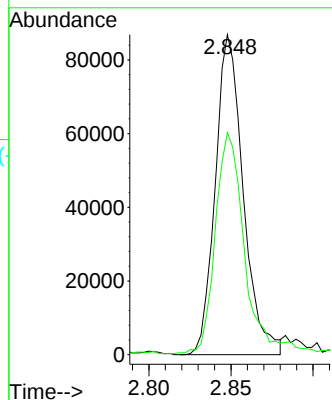
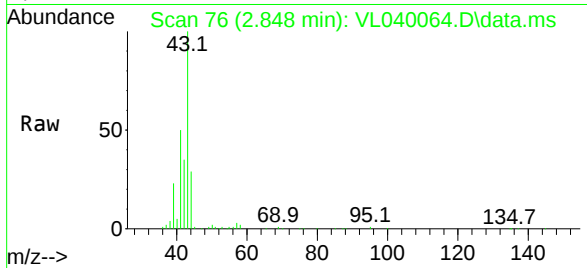




#9
 Propene
 Concen: 1.762 ppbv
 RT: 2.848 min Scan# 70
 Delta R.T. 0.174 min
 Lab File: VL040064.D
 Acq: 22 Dec 2022 12:29

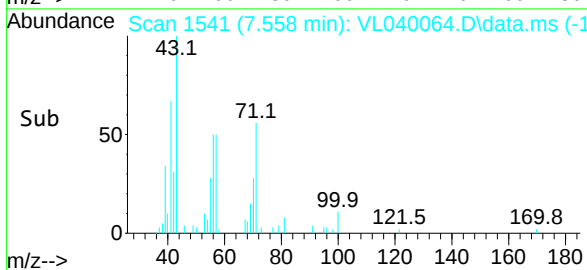
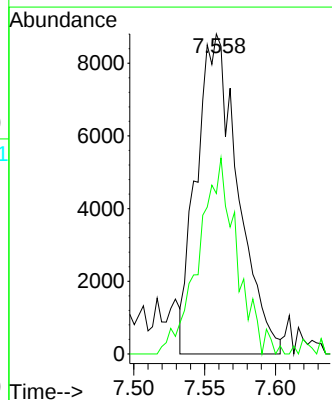
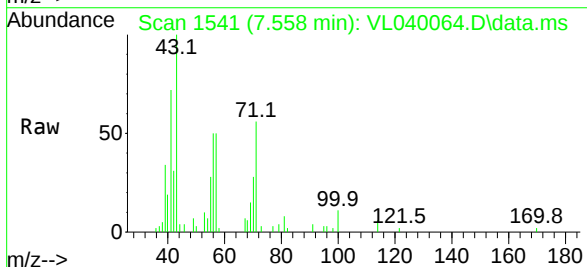
Instrument :
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 ClientSampleId :

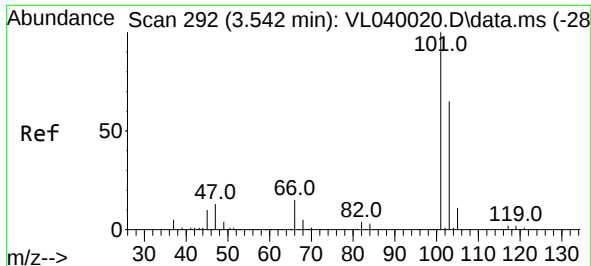
Tgt Ion: 41 Resp: 102923
 Ion Ratio Lower Upper
 41 100
 42 75.0 54.8 82.2



#10
 Heptane
 Concen: 0.126 ppbv
 RT: 7.558 min Scan# 1541
 Delta R.T. -0.006 min
 Lab File: VL040064.D
 Acq: 22 Dec 2022 12:29

Tgt Ion: 43 Resp: 17944
 Ion Ratio Lower Upper
 43 100
 57 56.0 41.2 61.8

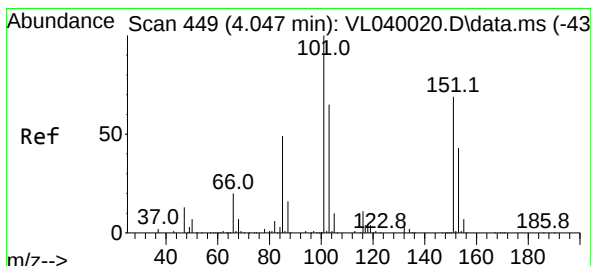
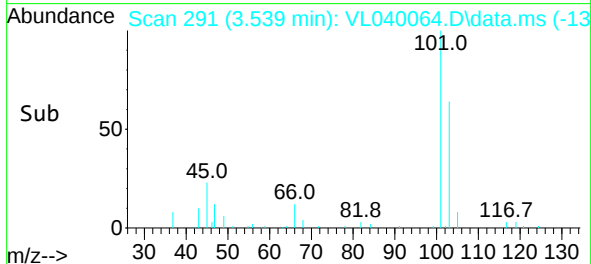
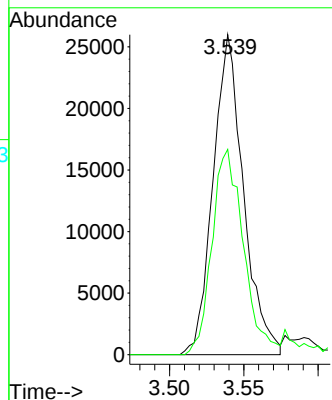
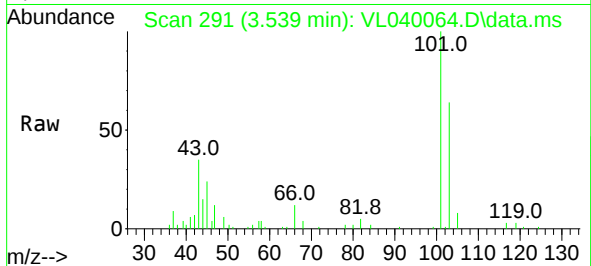




#11
 Trichlorofluoromethane
 Concen: 0.195 ppbv
 RT: 3.539 min Scan# 291
 Delta R.T. -0.003 min
 Lab File: VL040064.D
 Acq: 22 Dec 2022 12:29

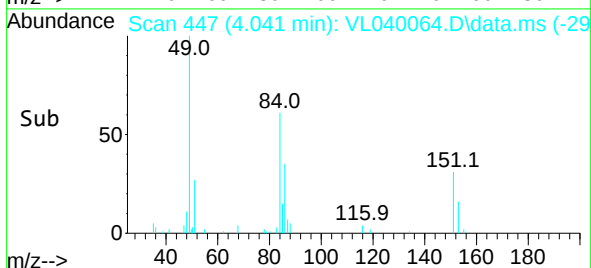
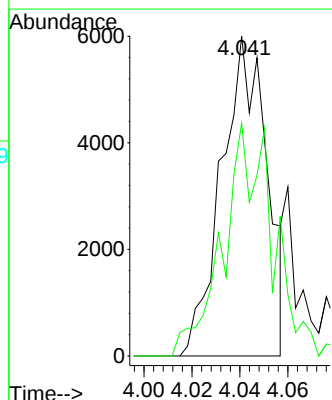
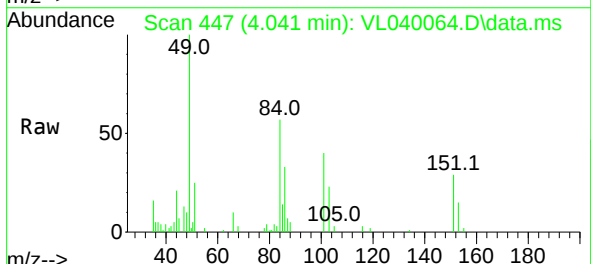
Instrument :
 MSVOA_L
 ClientSampleId :

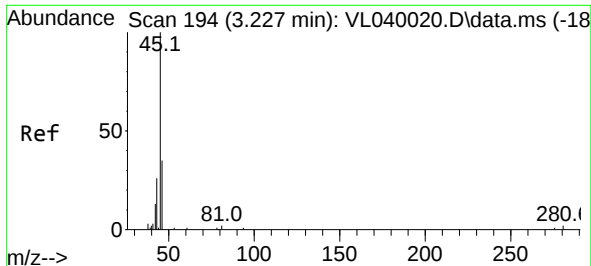
Tgt Ion:101 Resp: 36967
 Ion Ratio Lower Upper
 101 100
 103 64.2 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.055 ppbv
 RT: 4.041 min Scan# 447
 Delta R.T. -0.006 min
 Lab File: VL040064.D
 Acq: 22 Dec 2022 12:29

Tgt Ion:101 Resp: 7842
 Ion Ratio Lower Upper
 101 100
 151 82.1 55.0 82.4

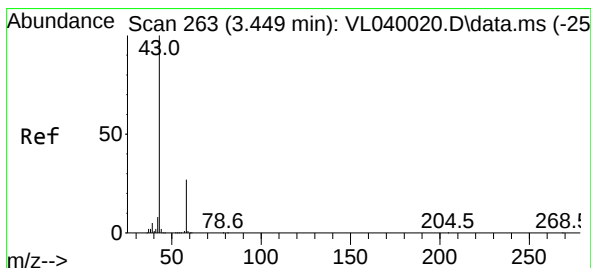
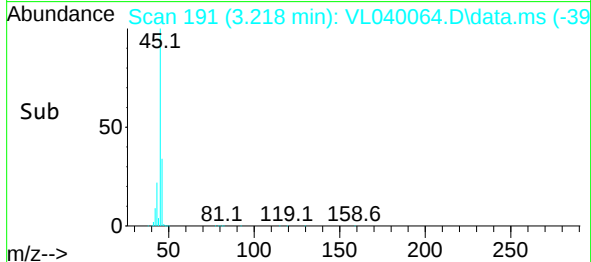
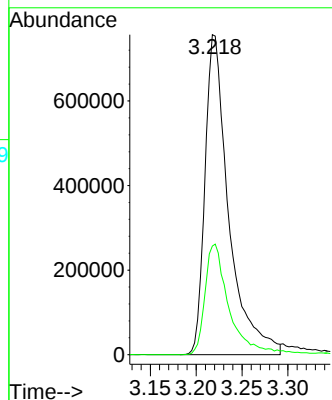
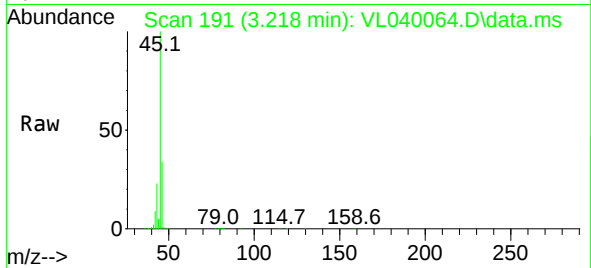




#13
Ethanol
Concen: 247.753 ppbv
RT: 3.218 min Scan# 194
Delta R.T. -0.010 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

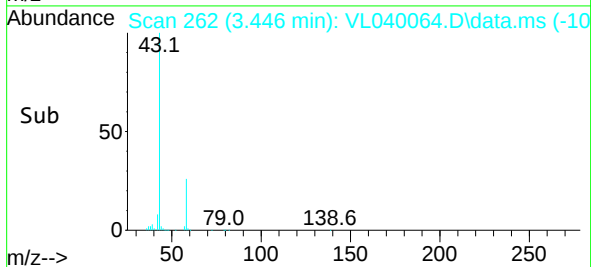
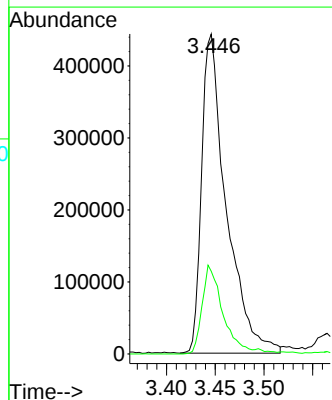
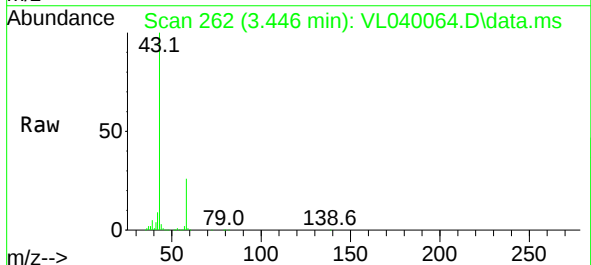
Instrument :
MSVOA_L
ClientSampleId :

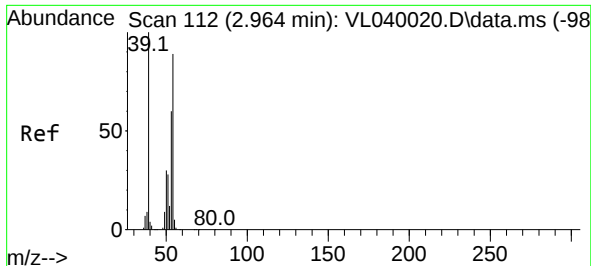
Tgt Ion: 45 Resp: 1362131
Ion Ratio Lower Upper
45 100
46 35.9 13.7 54.7



#15
Acetone
Concen: 5.402 ppbv
RT: 3.446 min Scan# 262
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion: 43 Resp: 779571
Ion Ratio Lower Upper
43 100
58 24.3 21.8 32.8

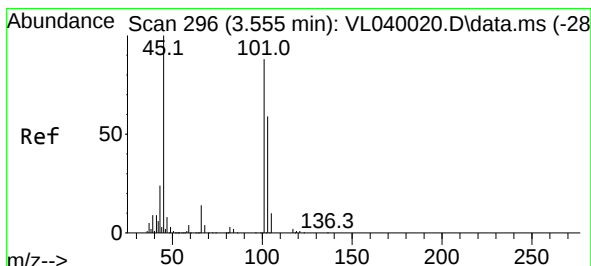
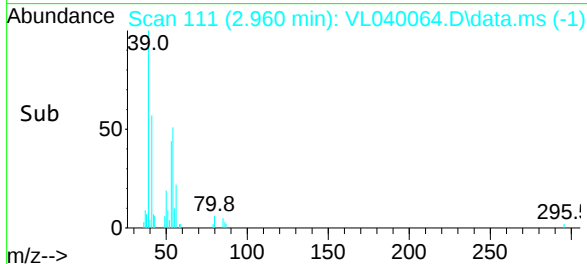
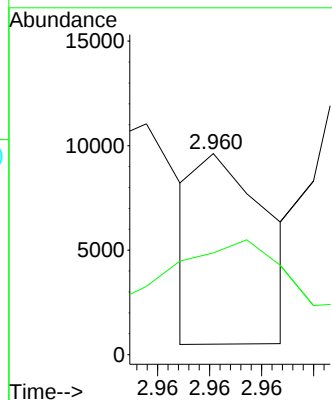
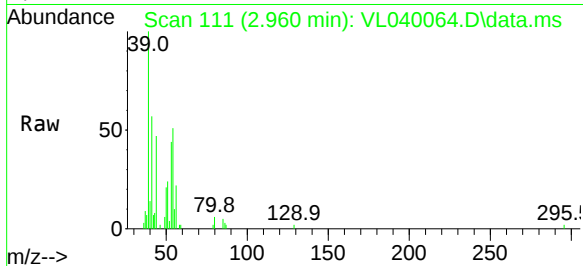




#16
1,3-Butadiene
Concen: 0.068 ppbv
RT: 2.960 min Scan# 112
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

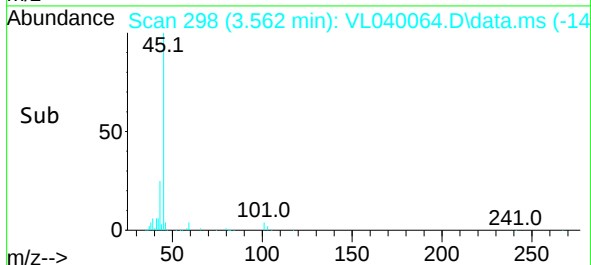
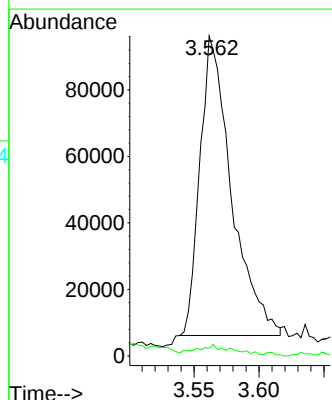
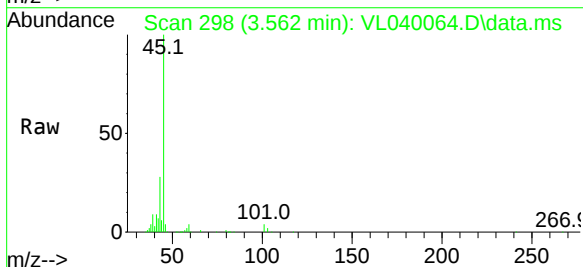
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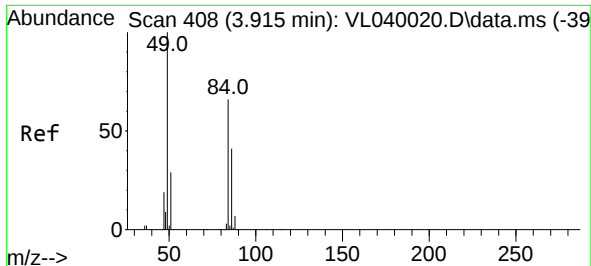
Tgt Ion: 39 Resp: 4272
Ion Ratio Lower Upper
39 100
54 216.9 68.3 102.5#



#19
Isopropyl Alcohol
Concen: 2.148 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.006 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion: 45 Resp: 152792
Ion Ratio Lower Upper
45 100
58 4.8 1.7 2.5#





#20

Methylene Chloride

Concen: 56.024 ppbv

RT: 3.909 min Scan# 408

Delta R.T. -0.006 min

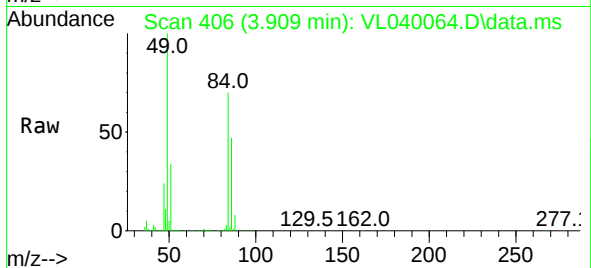
Lab File: VL040064.D

Acq: 22 Dec 2022 12:29

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 3436801

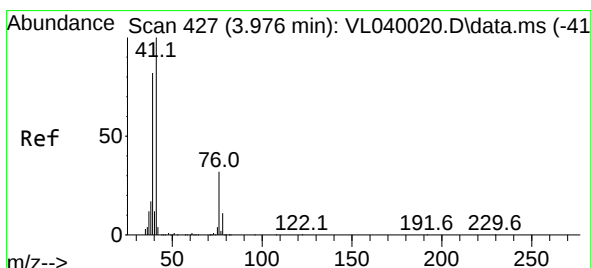
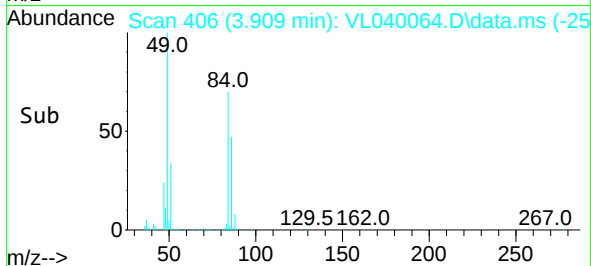
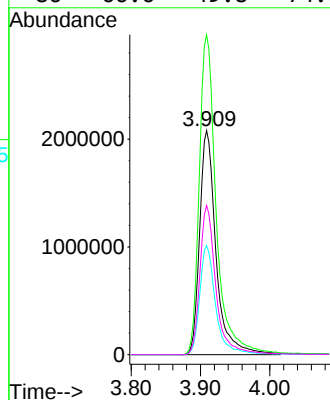
Ion Ratio Lower Upper

84 100

49 142.7 120.5 180.7

51 48.7 35.2 52.8

86 66.6 49.8 74.6



#21

Allyl Chloride

Concen: 1.460 ppbv

RT: 3.912 min Scan# 407

Delta R.T. -0.064 min

Lab File: VL040064.D

Acq: 22 Dec 2022 12:29

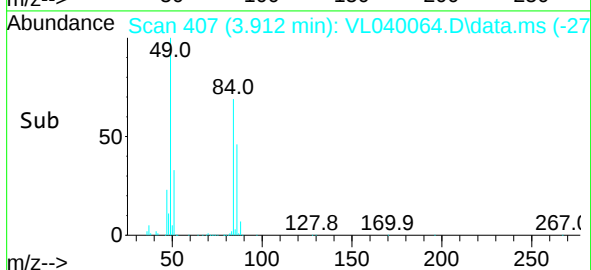
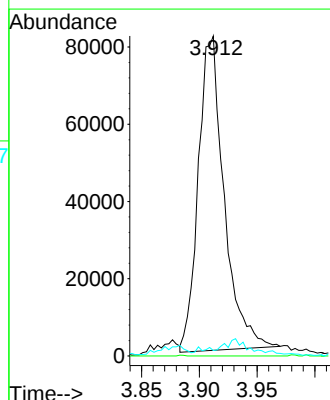
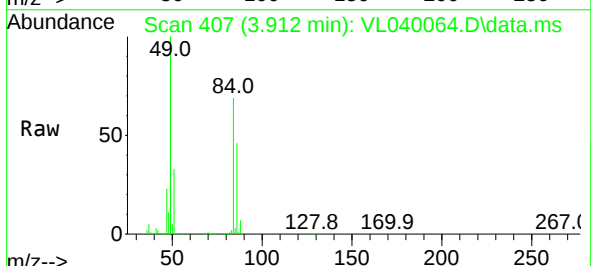
Tgt Ion: 41 Resp: 126590

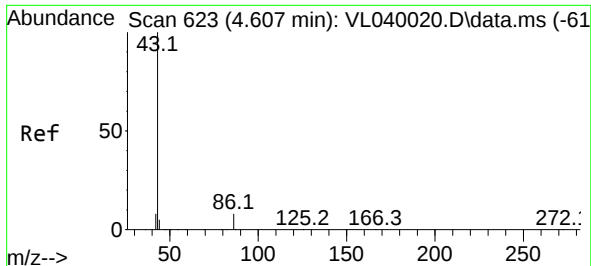
Ion Ratio Lower Upper

41 100

76 0.0 25.9 38.9#

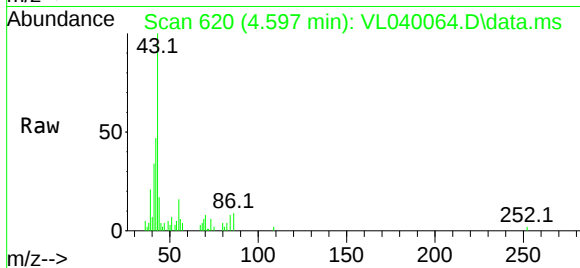
39 8.1 66.0 99.0#





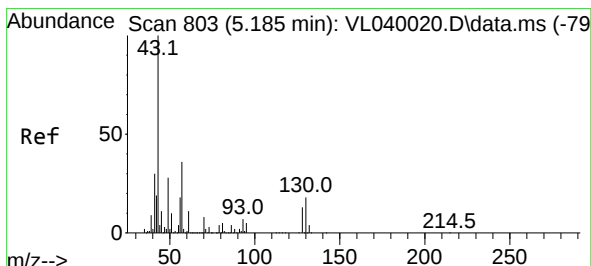
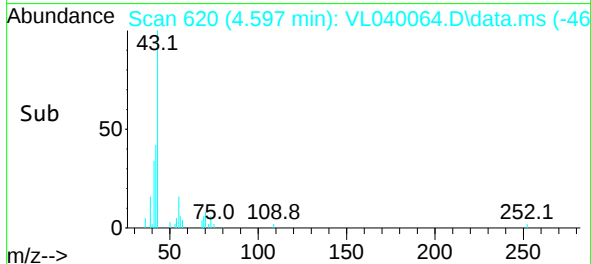
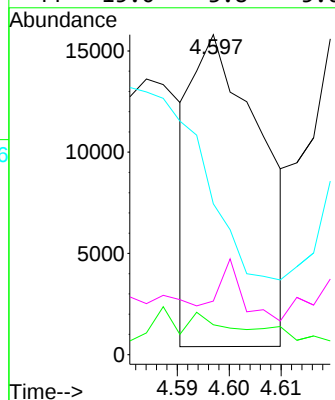
#23
 Vinyl Acetate
 Concen: 0.307 ppbv
 RT: 4.597 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL040064.D
 Acq: 22 Dec 2022 12:29

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 43 Resp: 14050

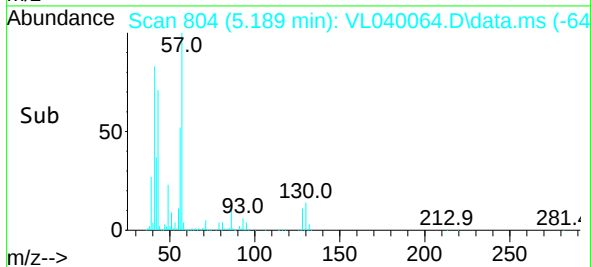
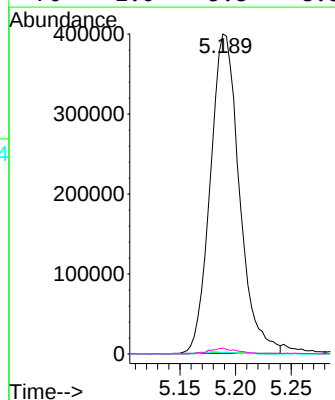
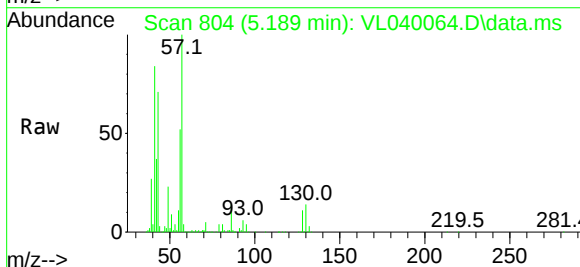
Ion	Ratio	Lower	Upper
43	100		
86	7.1	5.3	7.9
42	56.9	7.4	11.0#
44	15.0	3.8	5.6#

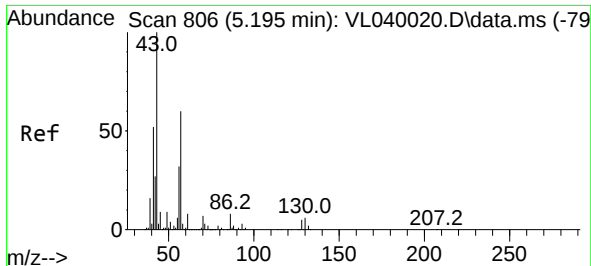


#25
 Ethyl Acetate
 Concen: 2.900 ppbv
 RT: 5.189 min Scan# 804
 Delta R.T. 0.003 min
 Lab File: VL040064.D
 Acq: 22 Dec 2022 12:29

Tgt Ion: 43 Resp: 724826

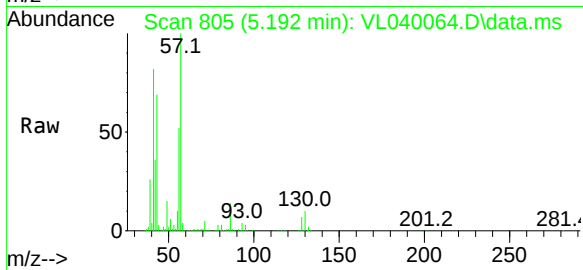
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.6	12.8#
61	0.6	8.5	12.7#
70	2.0	5.8	8.8#





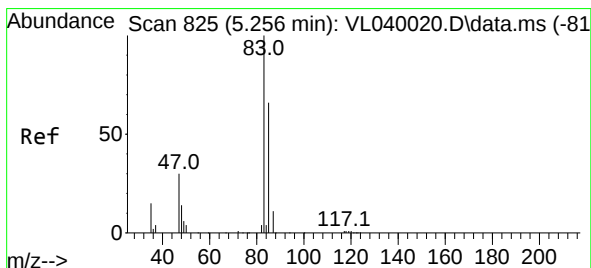
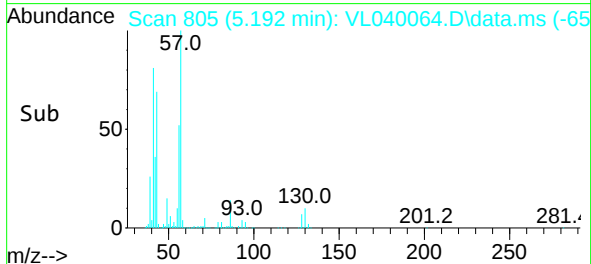
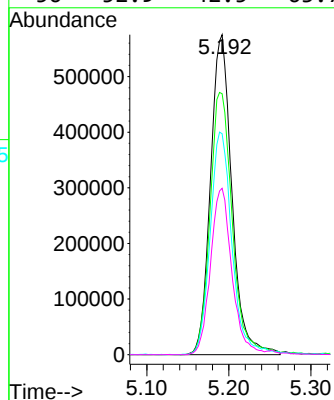
#26
Hexane
Concen: 9.926 ppbv
RT: 5.192 min Scan# 806
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 57 Resp: 1042729

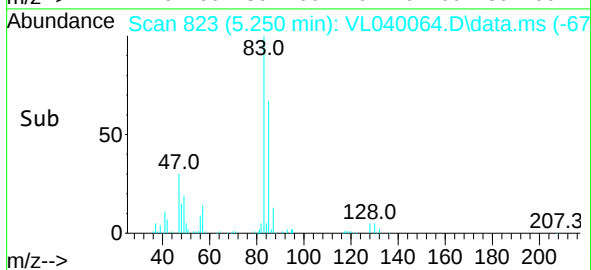
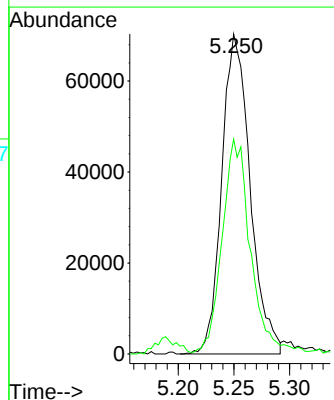
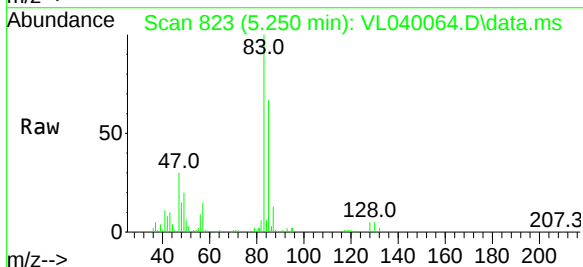
Ion	Ratio	Lower	Upper
57	100		
41	86.1	72.1	108.1
43	71.8	192.1	288.1#
56	52.9	42.5	63.7

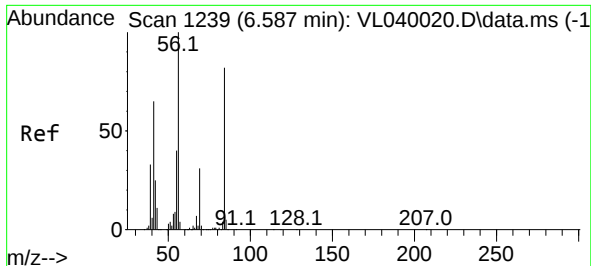


#29
Chloroform
Concen: 0.777 ppbv
RT: 5.250 min Scan# 823
Delta R.T. -0.006 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion: 83 Resp: 124519

Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.4	78.6

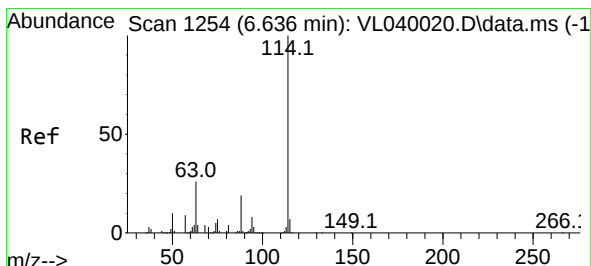
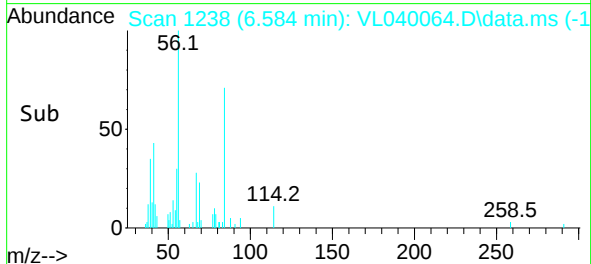
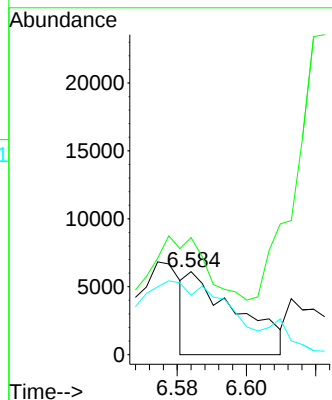
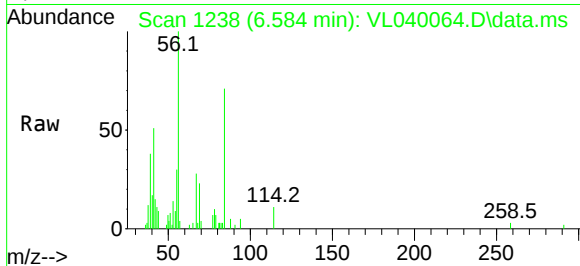




#30
Cyclohexane
Concen: 0.067 ppbv
RT: 6.584 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

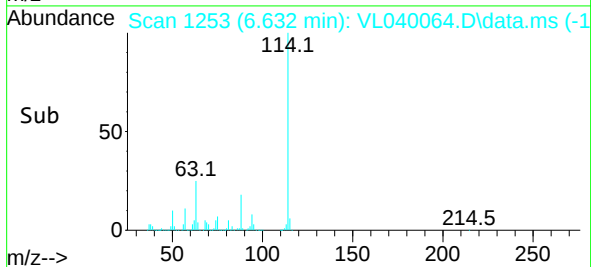
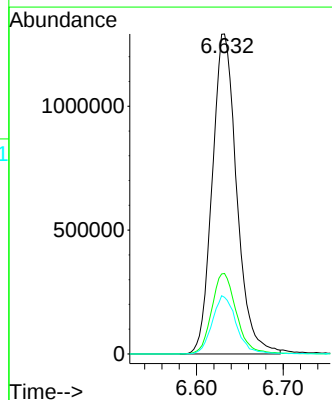
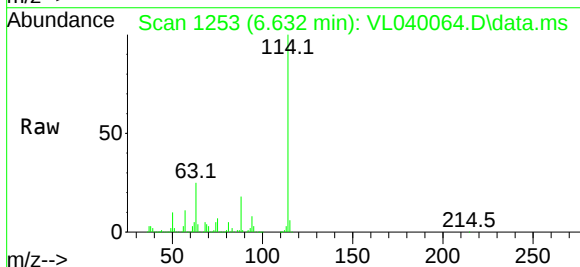
Instrument :
MSVOA_L
ClientSampleId :

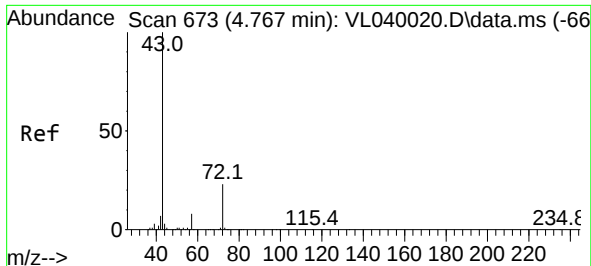
Tgt Ion: 84 Resp: 6202
Ion Ratio Lower Upper
84 100
56 0.0 110.2 165.4#
41 0.0 67.8 101.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion:114 Resp: 2534316
Ion Ratio Lower Upper
114 100
63 25.6 20.2 30.2
88 18.1 14.6 21.8

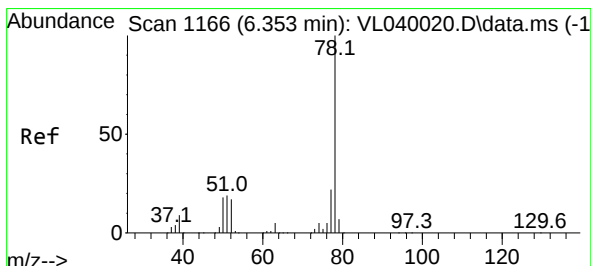
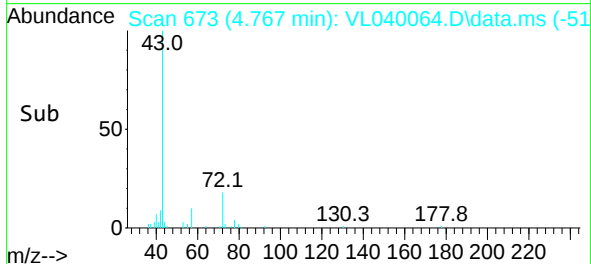
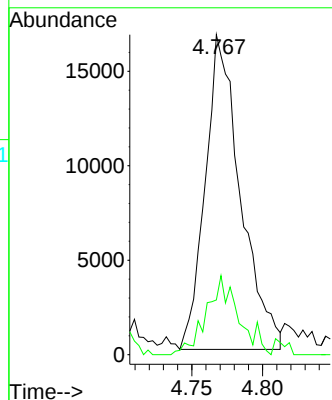
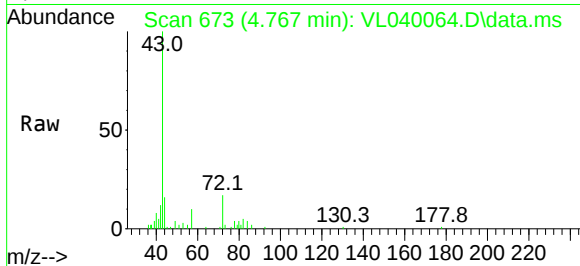




#34
2-Butanone
Concen: 0.210 ppbv
RT: 4.767 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

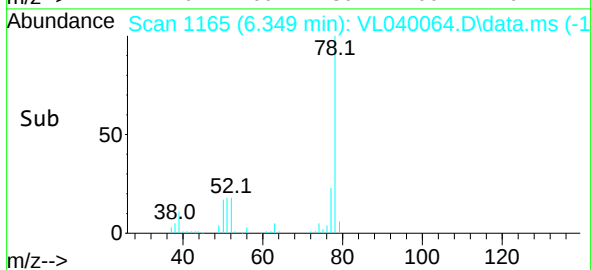
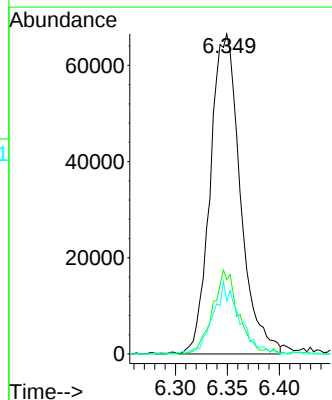
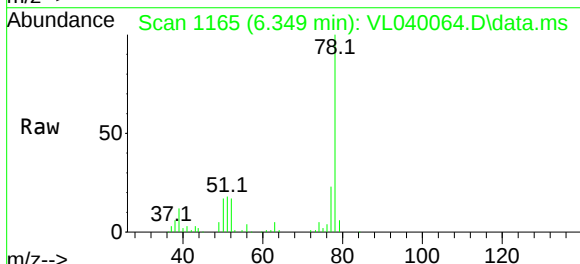
Instrument :
MSVOA_L
ClientSampleId :

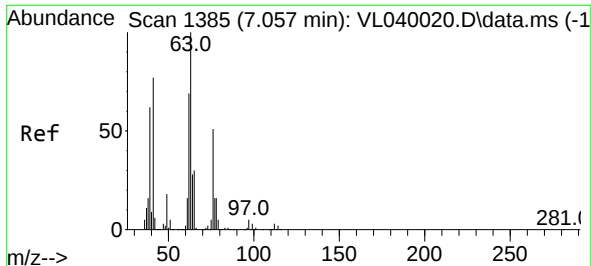
Tgt Ion: 43 Resp: 28831
Ion Ratio Lower Upper
43 100
72 24.5 18.0 27.0



#36
Benzene
Concen: 0.590 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion: 78 Resp: 133619
Ion Ratio Lower Upper
78 100
77 23.3 17.5 26.3
50 16.5 14.2 21.2





#39

1,2-Dichloropropane

Concen: 7.576 ppbv

RT: 6.632 min Scan# 11

Delta R.T. -0.424 min

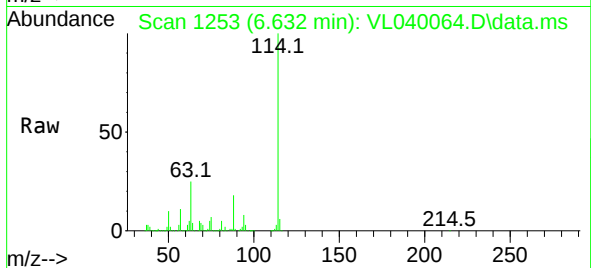
Lab File: VL040064.D

Acq: 22 Dec 2022 12:29

Instrument :

MSVOA_L

ClientSampleId :



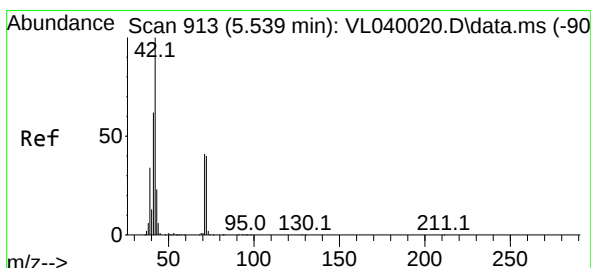
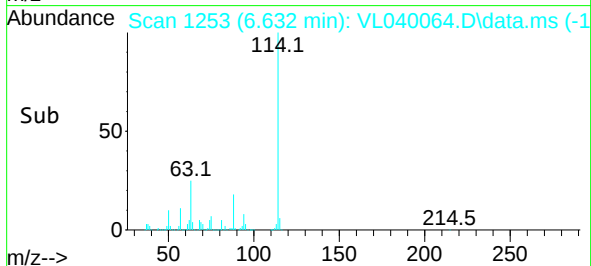
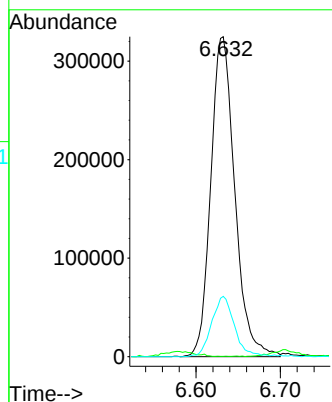
Tgt Ion: 63 Resp: 642698

Ion Ratio Lower Upper

63 100

41 0.0 61.4 92.0#

62 18.8 55.4 83.2#



#41

Tetrahydrofuran

Concen: 0.081 ppbv

RT: 5.790 min Scan# 991

Delta R.T. 0.251 min

Lab File: VL040064.D

Acq: 22 Dec 2022 12:29

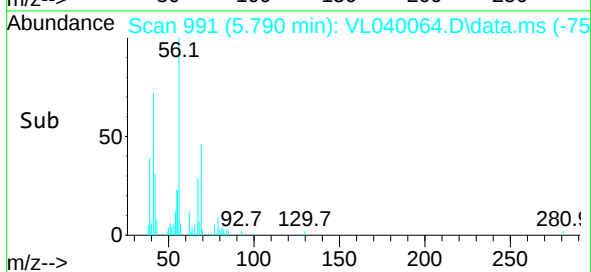
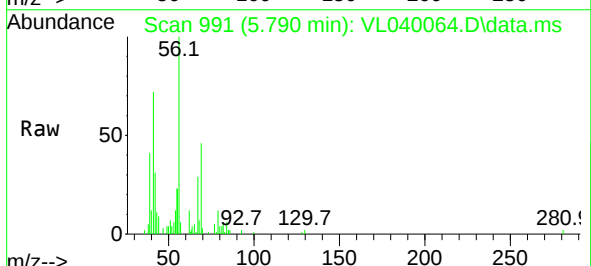
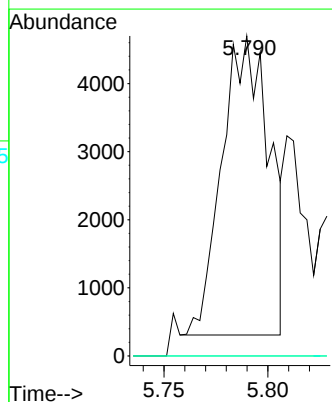
Tgt Ion: 42 Resp: 6912

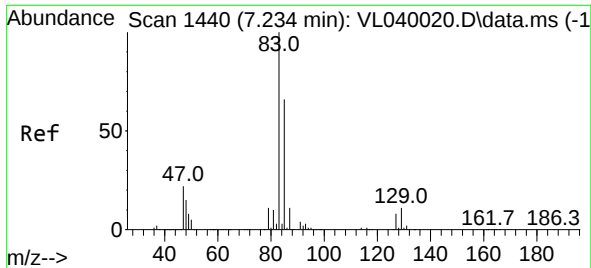
Ion Ratio Lower Upper

42 100

72 0.0 32.9 49.3#

71 0.0 32.2 48.2#

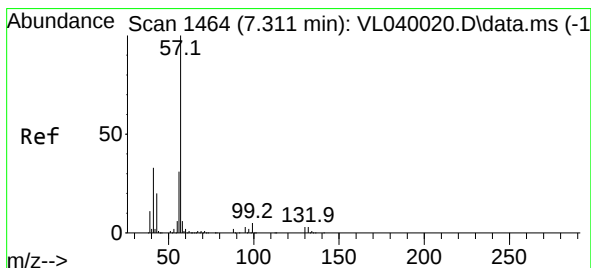
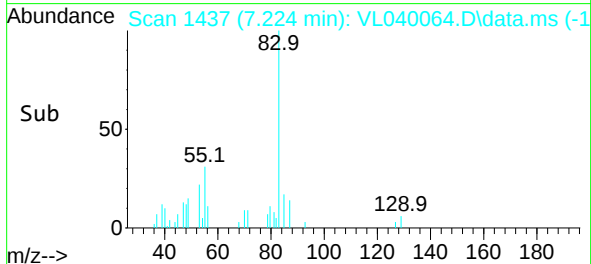
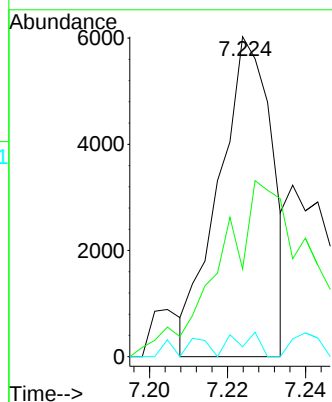
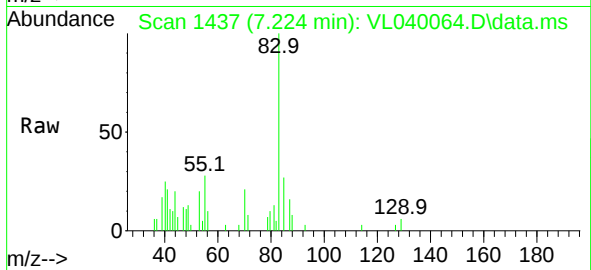




#42
Bromodichloromethane
Concen: 0.031 ppbv
RT: 7.224 min Scan# 1440
Delta R.T. -0.010 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

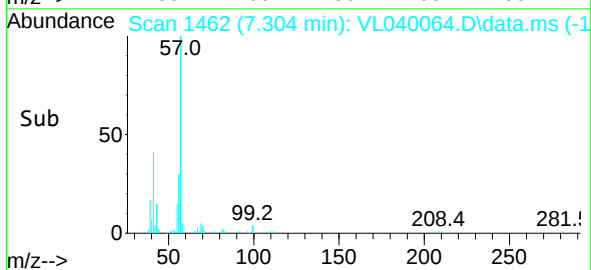
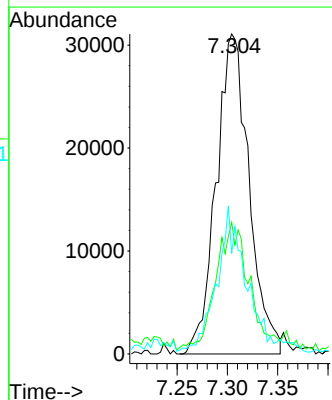
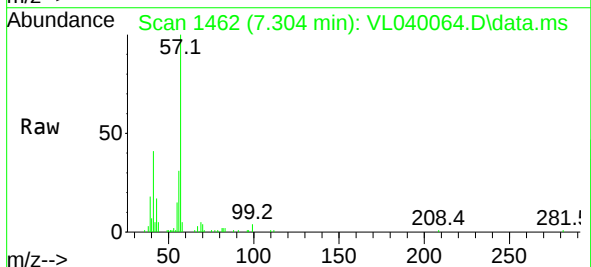
Instrument :
MSVOA_L
ClientSampleId :

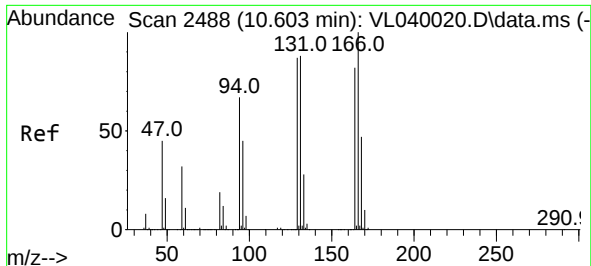
Tgt Ion: 83 Resp: 5726
Ion Ratio Lower Upper
83 100
85 24.0 53.0 79.6#
127 3.5 6.2 9.2#



#44
2,2,4-Trimethylpentane
Concen: 0.189 ppbv
RT: 7.304 min Scan# 1462
Delta R.T. -0.006 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

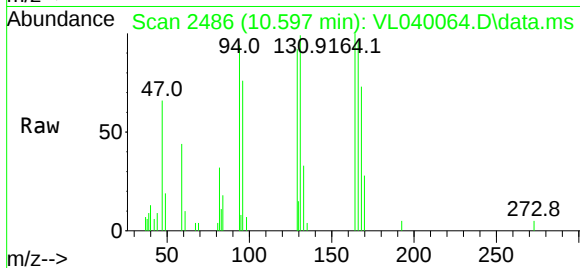
Tgt Ion: 57 Resp: 70515
Ion Ratio Lower Upper
57 100
41 47.5 26.2 39.4#
56 44.2 25.1 37.7#



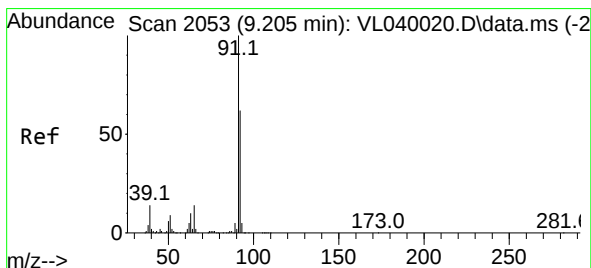
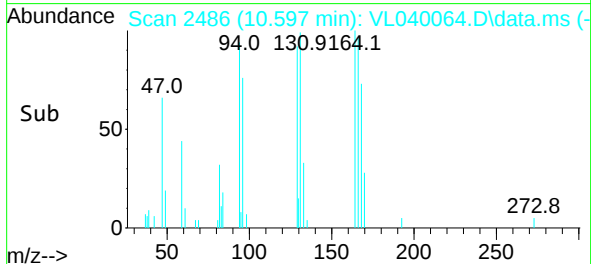
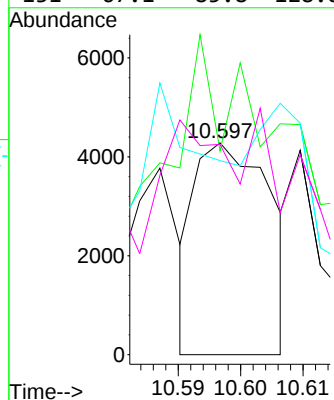


#52
Tetrachloroethene
Concen: 0.047 ppbv
RT: 10.597 min Scan# 2488
Delta R.T. -0.006 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Instrument : MSVOA_L
ClientSampleId :

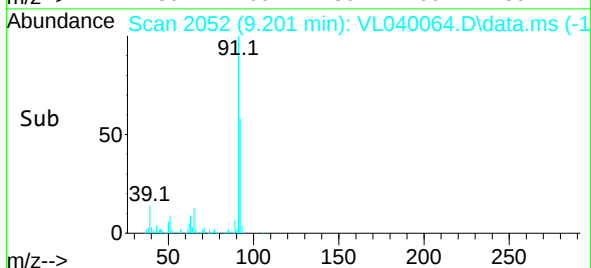
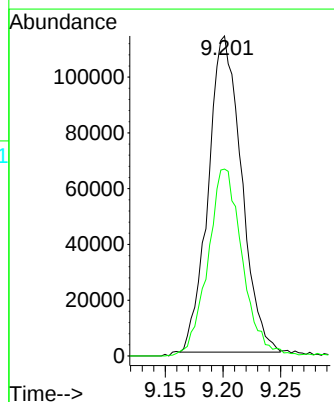
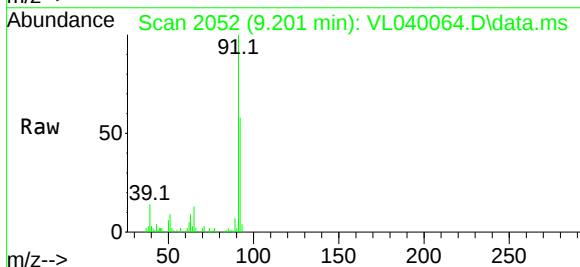


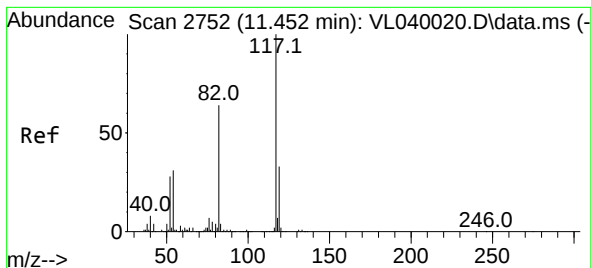
Tgt Ion:164 Resp: 3608
Ion Ratio Lower Upper
164 100
166 16.9 97.4 146.0#
129 19.1 84.3 126.5#
131 67.1 85.8 128.8#



#53
Toluene
Concen: 0.907 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion: 91 Resp: 227176
Ion Ratio Lower Upper
91 100
92 61.9 48.7 73.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.449 min Scan# 21

Delta R.T. -0.003 min

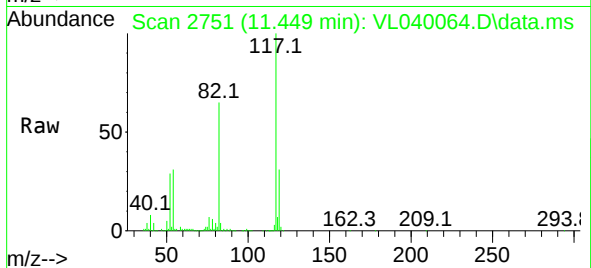
Lab File: VL040064.D

Acq: 22 Dec 2022 12:29

Instrument :

MSVOA_L

ClientSampleId :



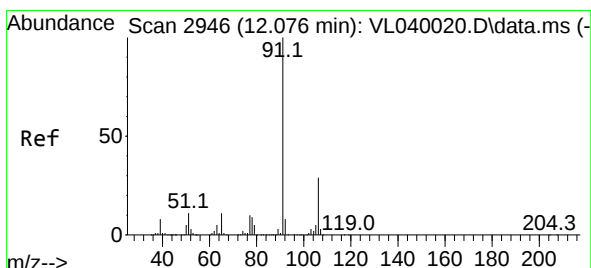
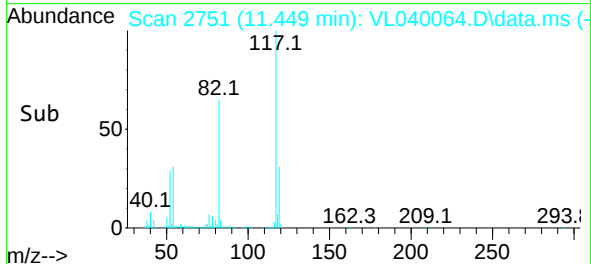
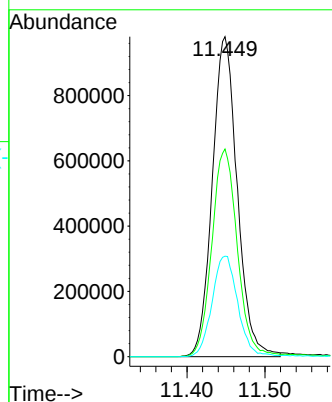
Tgt Ion:117 Resp: 2183708

Ion Ratio Lower Upper

117 100

82 67.2 51.2 76.8

119 32.9 23.2 34.8



#58

Ethyl Benzene

Concen: 0.041 ppbv

RT: 12.060 min Scan# 2941

Delta R.T. -0.016 min

Lab File: VL040064.D

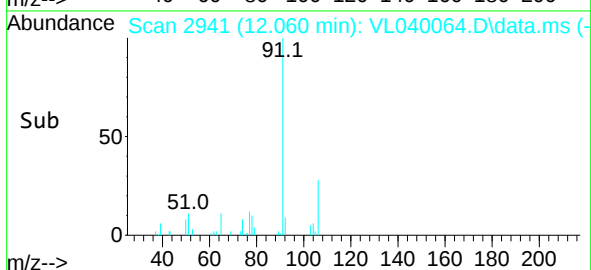
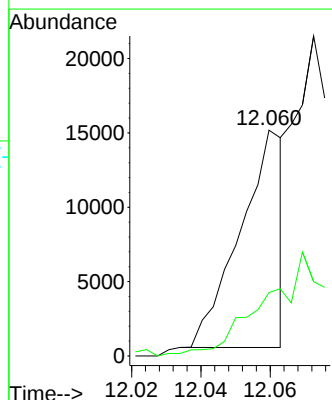
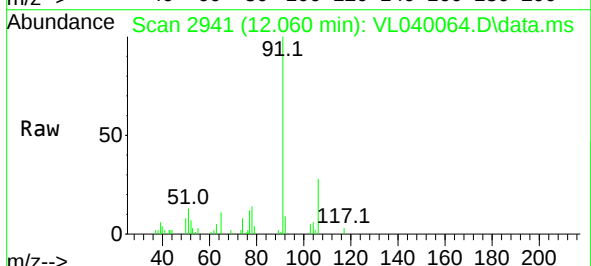
Acq: 22 Dec 2022 12:29

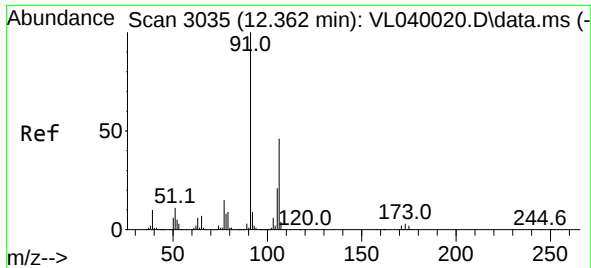
Tgt Ion: 91 Resp: 12647

Ion Ratio Lower Upper

91 100

106 28.0 23.5 35.3





#59

m/p-Xylene

Concen: 0.045 ppbv

RT: 12.365 min Scan# 3035

Delta R.T. 0.003 min

Lab File: VL040064.D

Acq: 22 Dec 2022 12:29

Instrument :

MSVOA_L

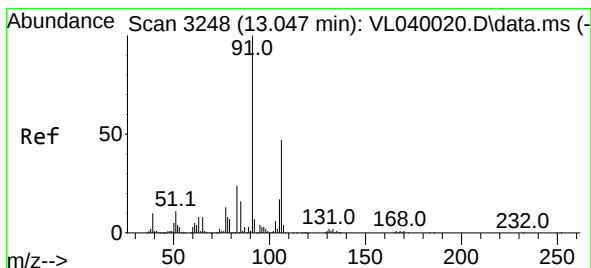
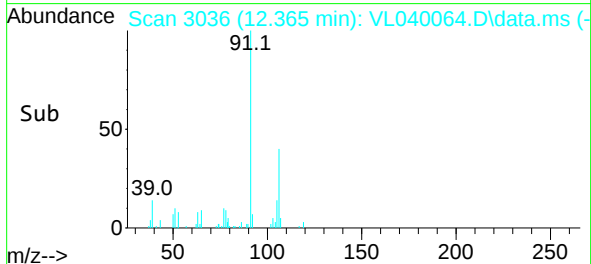
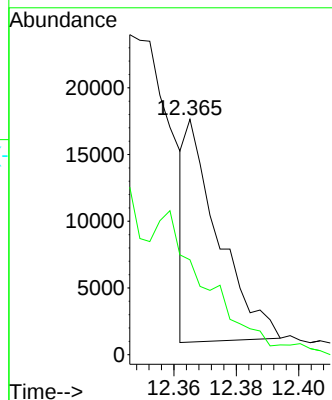
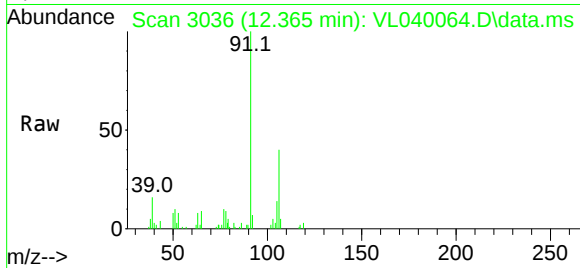
ClientSampleId :

Tgt Ion: 91 Resp: 12116

Ion Ratio Lower Upper

91 100

106 0.0 35.5 53.3#



#60

o-Xylene

Concen: 0.098 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.006 min

Lab File: VL040064.D

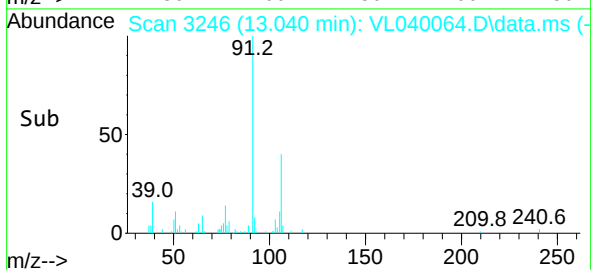
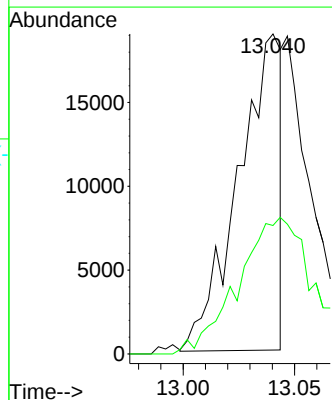
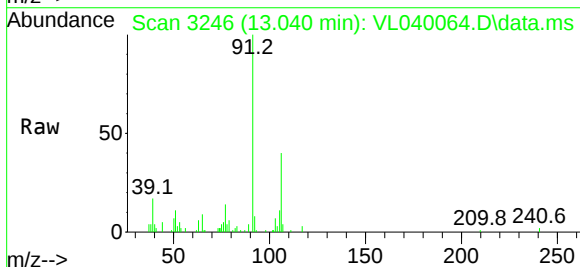
Acq: 22 Dec 2022 12:29

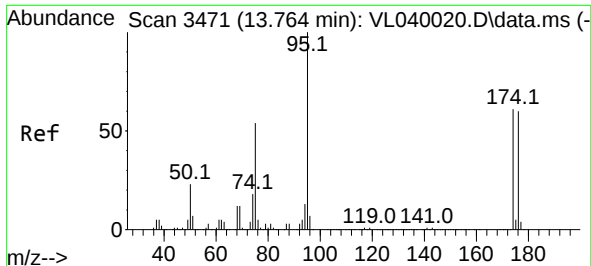
Tgt Ion: 91 Resp: 25294

Ion Ratio Lower Upper

91 100

106 77.4 22.4 67.0#

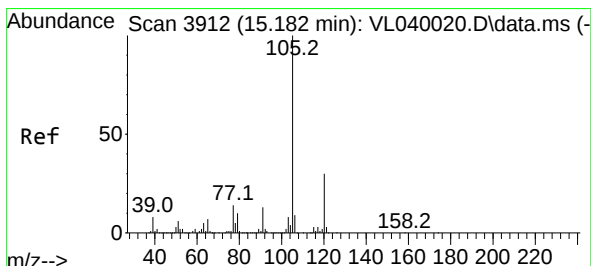
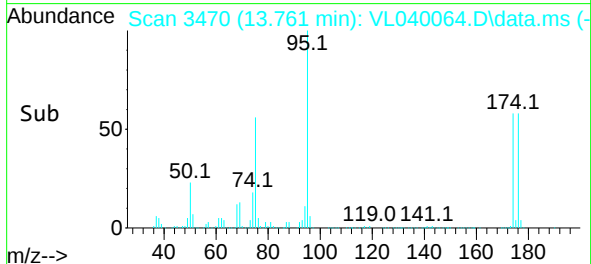
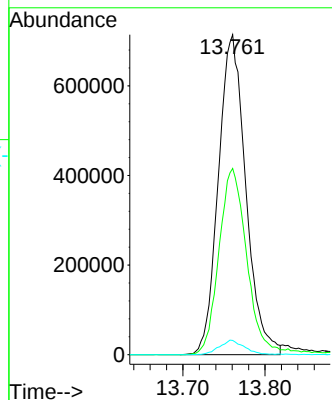
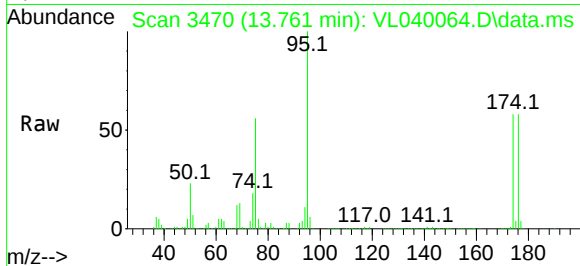




#68
1-Bromo-4-Fluorobenzene
Concen: 9.949 ppbv
RT: 13.761 min Scan# 3471
Delta R.T. -0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

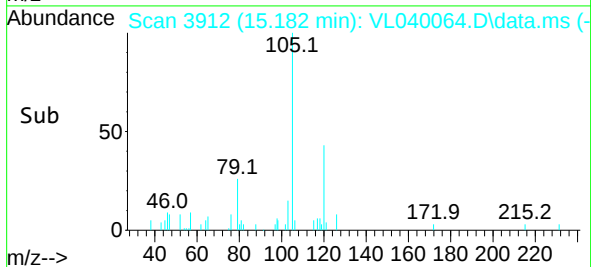
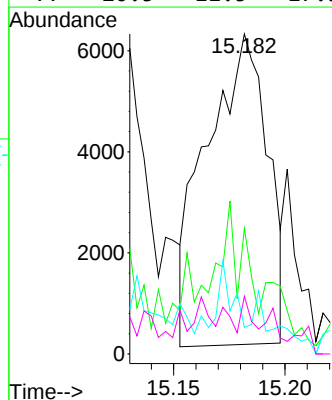
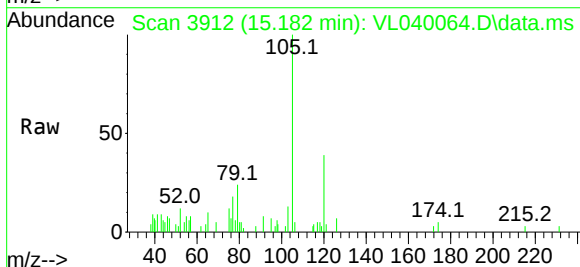
Instrument :
MSVOA_L
ClientSampleId :

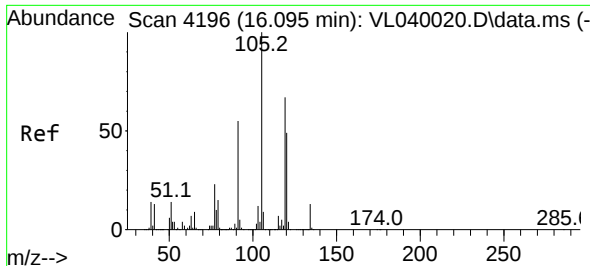
Tgt Ion: 95 Resp: 1659533
Ion Ratio Lower Upper
95 100
174 61.1 48.6 73.0
175 4.3 3.4 5.2



#72
4-Ethyltoluene
Concen: 0.041 ppbv
RT: 15.182 min Scan# 3912
Delta R.T. -0.000 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

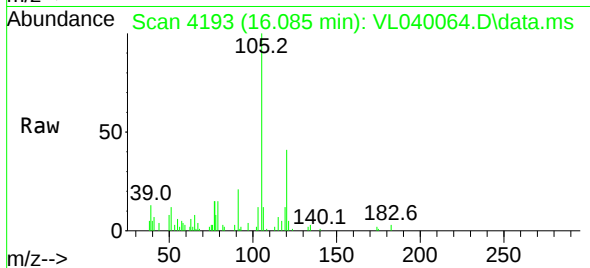
Tgt Ion: 105 Resp: 11672
Ion Ratio Lower Upper
105 100
120 49.2 23.5 35.3#
91 21.3 10.5 15.7#
77 20.5 11.5 17.3#



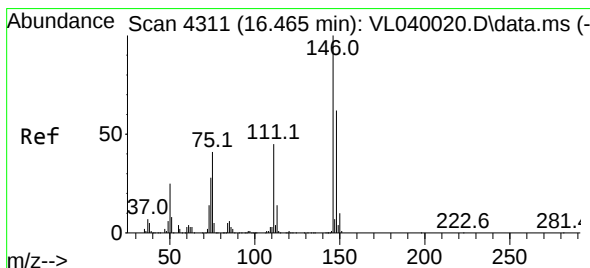
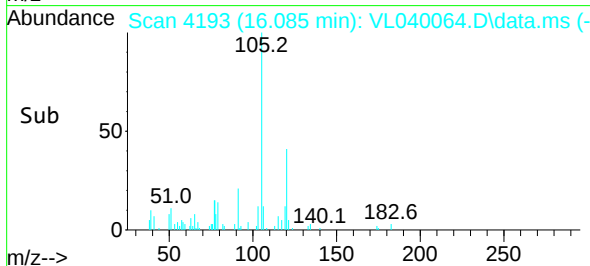
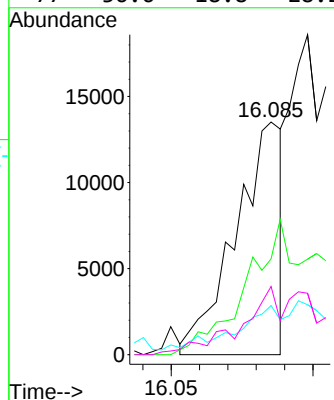


#74
1,2,4-Trimethylbenzene
Concen: 0.054 ppbv
RT: 16.085 min Scan# 4196
Delta R.T. -0.010 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:	105	Resp:	15390
Ion	Ratio	Lower	Upper
105	100		
120	41.0	39.3	58.9
91	19.0	44.2	66.4#
77	36.6	18.8	28.2#



#76
1,4-Dichlorobenzene
Concen: 0.107 ppbv
RT: 16.468 min Scan# 4312
Delta R.T. 0.003 min
Lab File: VL040064.D
Acq: 22 Dec 2022 12:29

Tgt Ion:	146	Resp:	16289
Ion	Ratio	Lower	Upper
146	100		
111	55.1	23.4	70.2
148	73.3	32.0	96.2

