

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
 Data File : VL039795.D
 Acq On : 25 Oct 2022 19:52
 Operator : SY/AP
 Sample : N5227-13DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL

Quant Time: Oct 28 08:10:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Oct 24 20:00:55 2022
 Response via : Initial Calibration

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

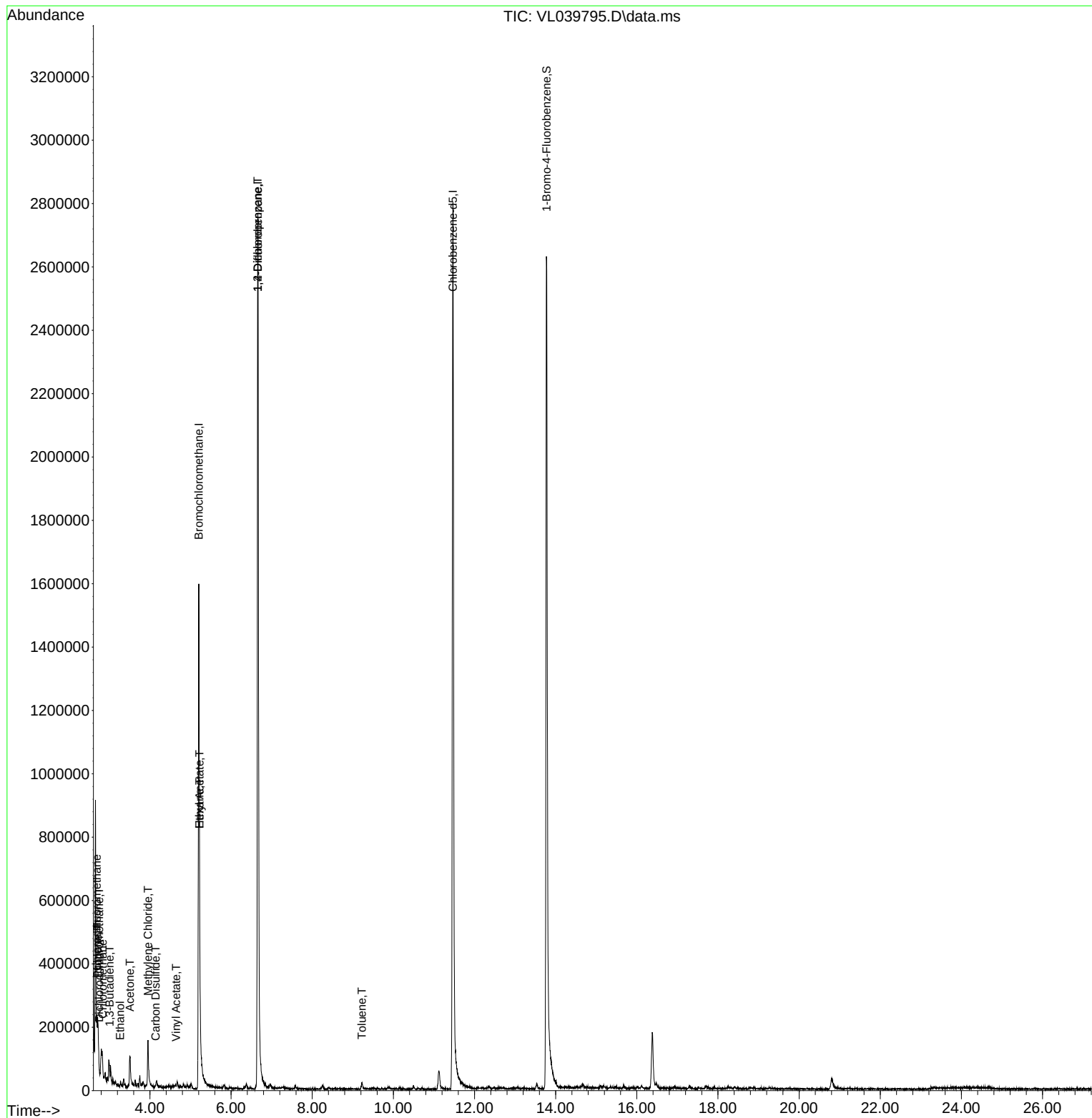
Internal Standards						
1) Bromochloromethane	5.205	49	868892	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2238991	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	1910329	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	653866	4.812	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	48.100%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	2793	0.031	ppbv	95
3) Chlorodifluoromethane	2.690	51	71795	0.688	ppbv #	65
4) Chloromethane	2.835	50	2641	0.040	ppbv #	42
9) Propene	2.716	41	55721	1.243	ppbv	98
13) Ethanol	3.263	45	850	0.264	ppbv #	37
15) Acetone	3.504	43	97158	0.936	ppbv	97
16) 1,3-Butadiene	3.009	39	3306	0.064	ppbv #	9
20) Methylene Chloride	3.951	84	53820	1.363	ppbv #	88
23) Vinyl Acetate	4.648	43	2643	0.066	ppbv #	25
25) Ethyl Acetate	5.224	43	24548	0.121	ppbv #	78
26) Hexane	5.224	57	30794	0.365	ppbv #	34
27) Carbon Disulfide	4.140	76	4130	0.041	ppbv #	1
39) 1,2-Dichloropropane	6.658	63	541324	8.149	ppbv #	26
53) Toluene	9.224	91	10267	0.057	ppbv #	67

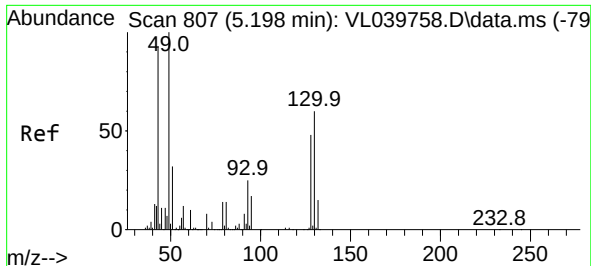
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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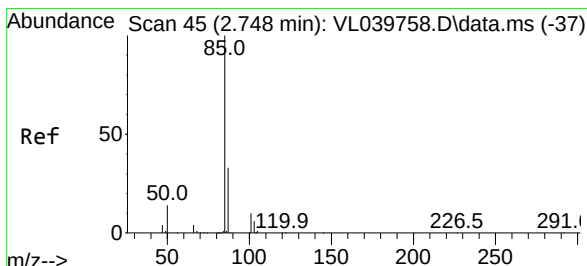
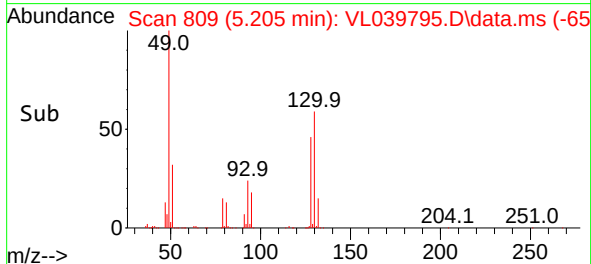
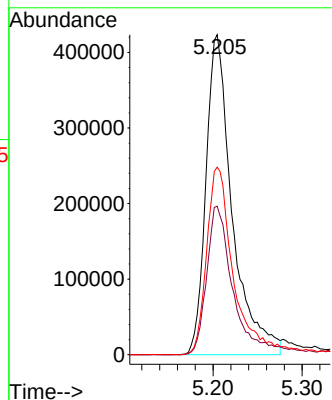
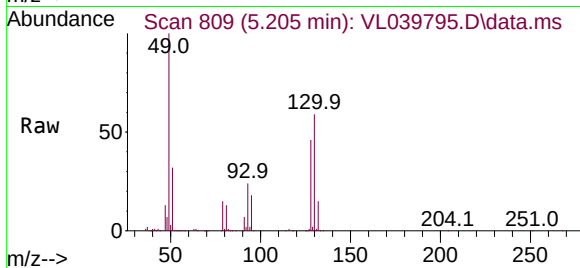




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.205 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL039795.D
Acq: 25 Oct 2022 19:52

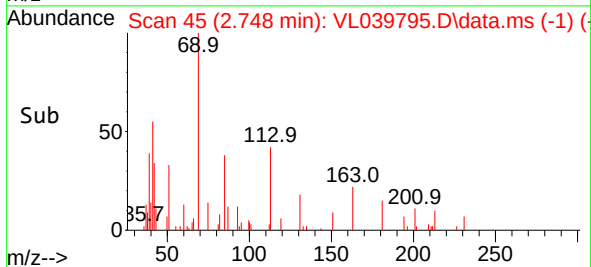
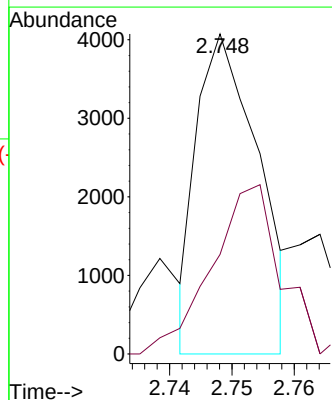
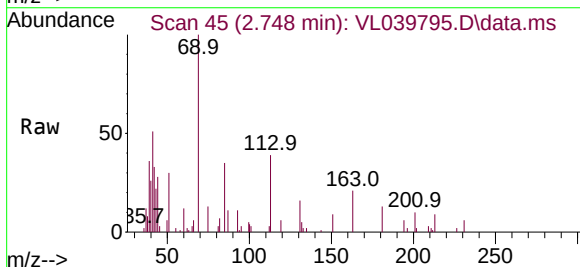
Instrument :
MSVOA_L
ClientSampleId :
MDL

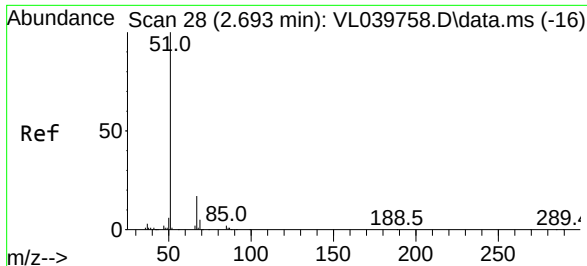
Tgt Ion: 49 Resp: 868892
Ion Ratio Lower Upper
49 100
128 47.6 24.6 74.0
130 63.4 31.8 95.3



#2
Dichlorodifluoromethane
Concen: 0.031 ppbv
RT: 2.748 min Scan# 45
Delta R.T. -0.000 min
Lab File: VL039795.D
Acq: 25 Oct 2022 19:52

Tgt Ion: 85 Resp: 2793
Ion Ratio Lower Upper
85 100
87 29.6 26.1 39.1

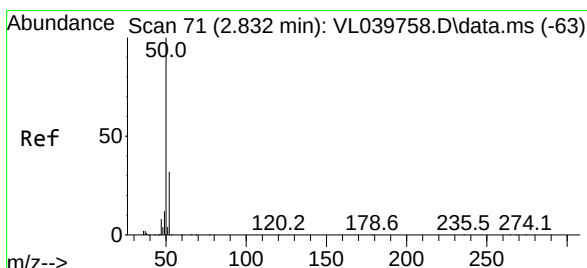
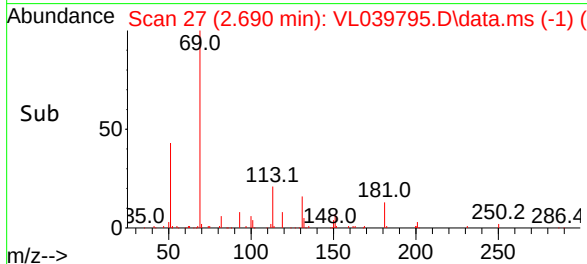
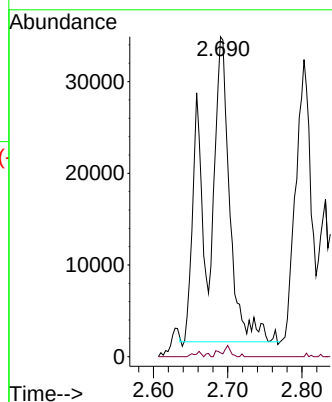
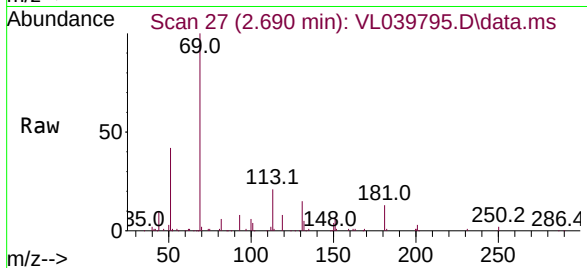




#3
Chlorodifluoromethane
Concen: 0.688 ppbv
RT: 2.690 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL039795.D
Acq: 25 Oct 2022 19:52

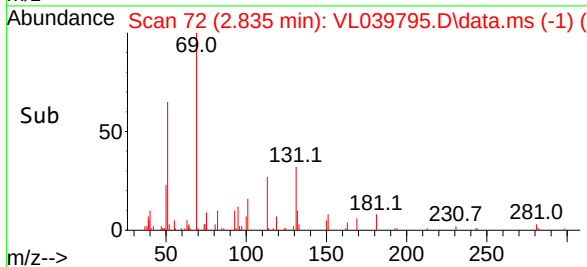
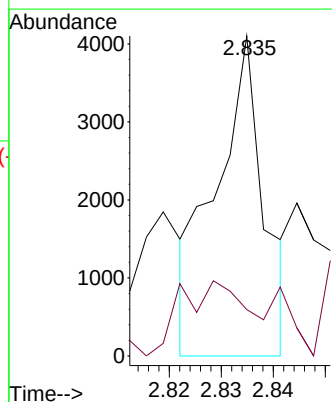
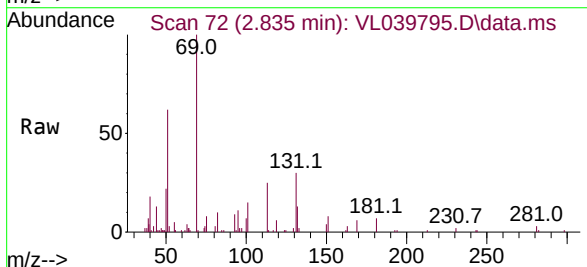
Instrument :
MSVOA_L
ClientSampleId :
MDL

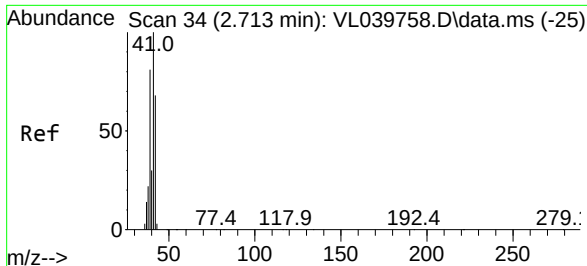
Tgt Ion: 51 Resp: 71795
Ion Ratio Lower Upper
51 100
67 2.1 14.2 21.2#



#4
Chloromethane
Concen: 0.040 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.003 min
Lab File: VL039795.D
Acq: 25 Oct 2022 19:52

Tgt Ion: 50 Resp: 2641
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

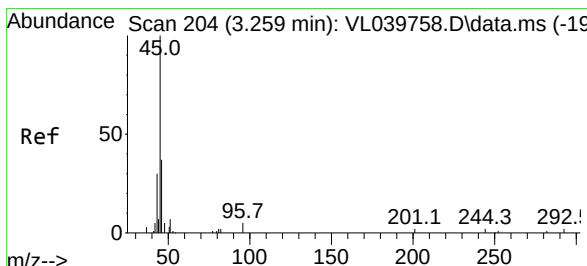
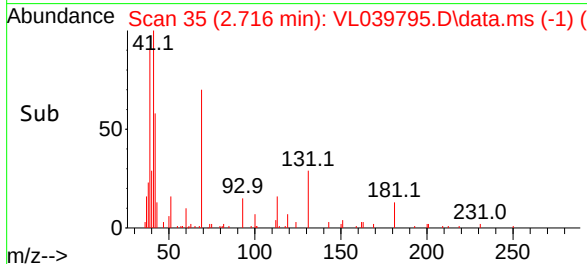
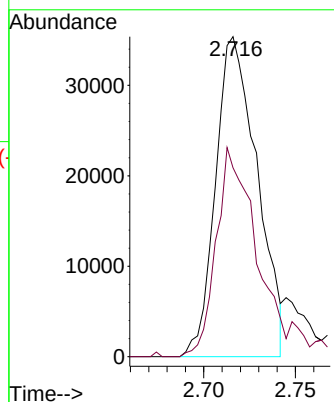
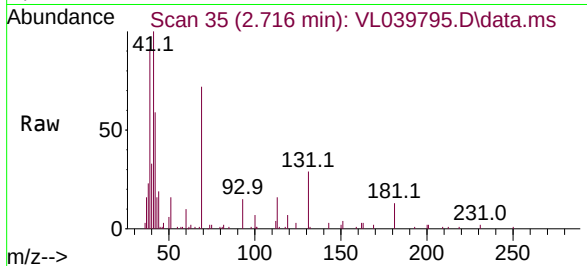




#9
 Propene
 Concen: 1.243 ppbv
 RT: 2.716 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VL039795.D
 Acq: 25 Oct 2022 19:52

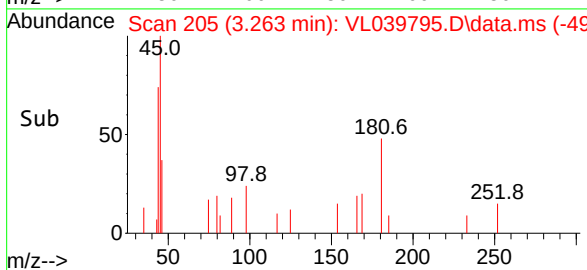
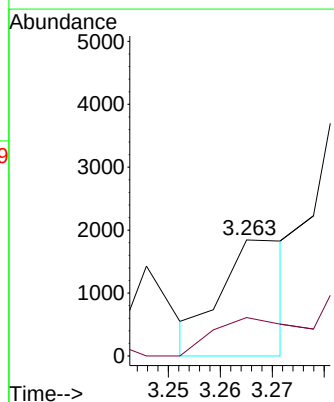
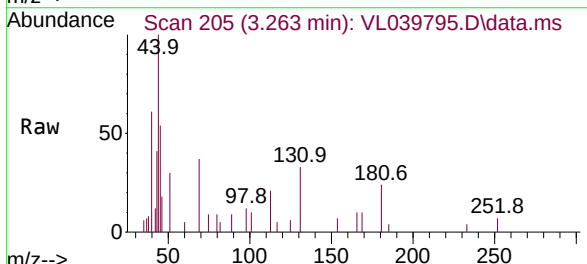
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL

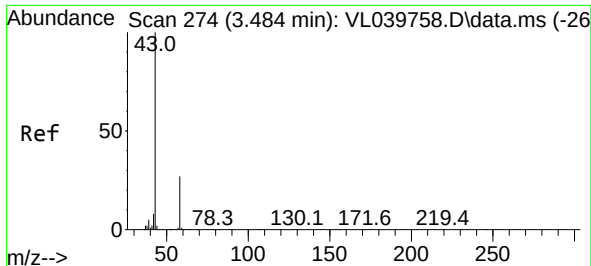
Tgt Ion: 41 Resp: 55721
 Ion Ratio Lower Upper
 41 100
 42 70.7 58.0 87.0



#13
 Ethanol
 Concen: 0.264 ppbv
 RT: 3.263 min Scan# 205
 Delta R.T. 0.003 min
 Lab File: VL039795.D
 Acq: 25 Oct 2022 19:52

Tgt Ion: 45 Resp: 850
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.3 61.3#





#15

Acetone

Concen: 0.936 ppbv

RT: 3.504 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL039795.D

Acq: 25 Oct 2022 19:52

Instrument :

MSVOA_L

ClientSampleId :

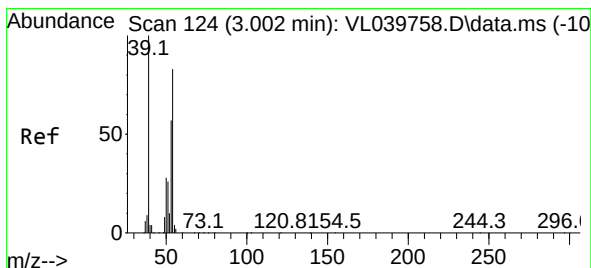
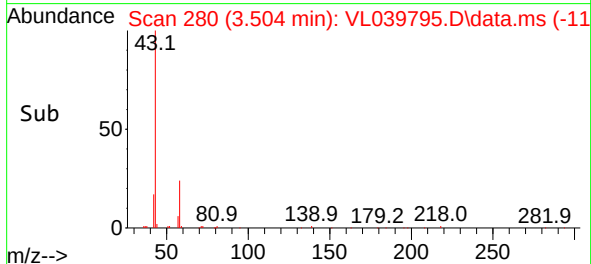
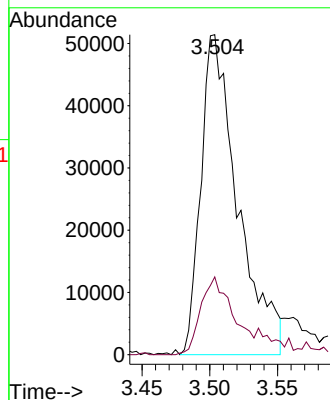
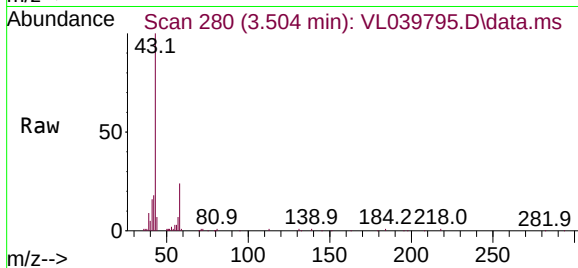
MDL

Tgt Ion: 43 Resp: 97158

Ion Ratio Lower Upper

43 100

58 27.6 20.7 31.1



#16

1,3-Butadiene

Concen: 0.064 ppbv

RT: 3.009 min Scan# 126

Delta R.T. 0.006 min

Lab File: VL039795.D

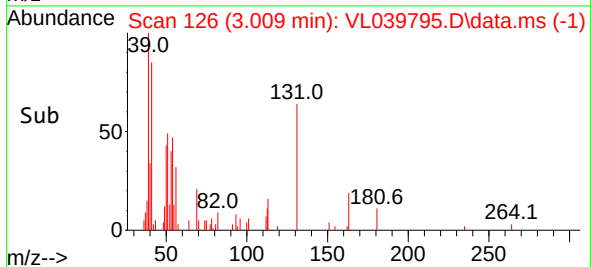
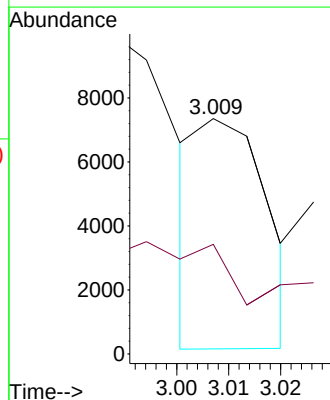
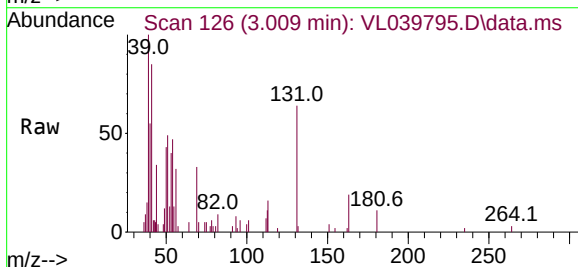
Acq: 25 Oct 2022 19:52

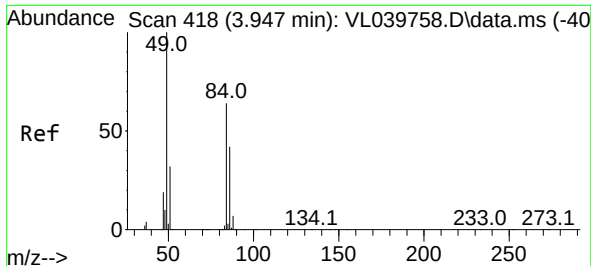
Tgt Ion: 39 Resp: 3306

Ion Ratio Lower Upper

39 100

54 0.0 64.6 97.0#





#20

Methylene Chloride

Concen: 1.363 ppbv

RT: 3.951 min Scan# 418

Delta R.T. 0.003 min

Lab File: VL039795.D

Acq: 25 Oct 2022 19:52

Instrument :

MSVOA_L

ClientSampleId :

MDL

Tgt Ion: 84 Resp: 53820

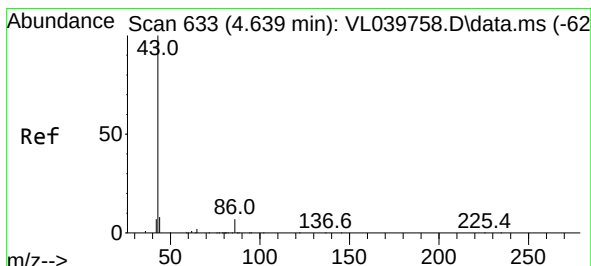
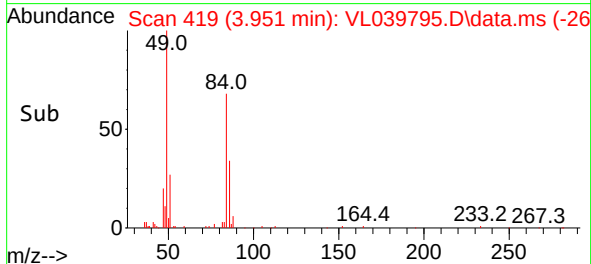
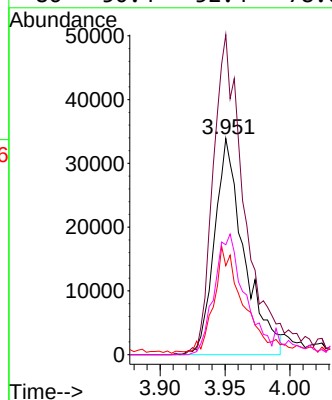
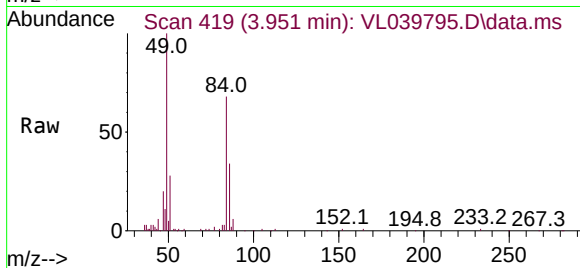
Ion Ratio Lower Upper

84 100

49 148.0 126.0 189.0

51 39.7 40.9 61.3#

86 50.4 52.4 78.6#



#23

Vinyl Acetate

Concen: 0.066 ppbv

RT: 4.648 min Scan# 636

Delta R.T. 0.010 min

Lab File: VL039795.D

Acq: 25 Oct 2022 19:52

Tgt Ion: 43 Resp: 2643

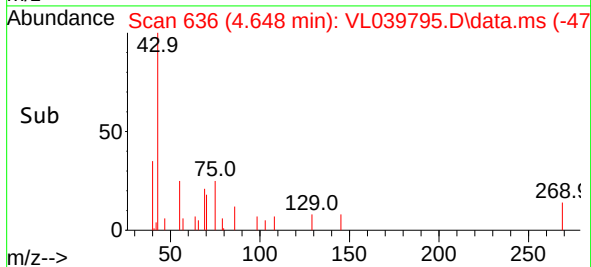
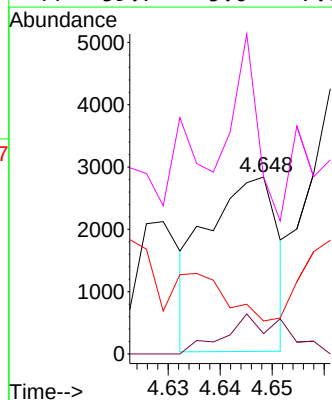
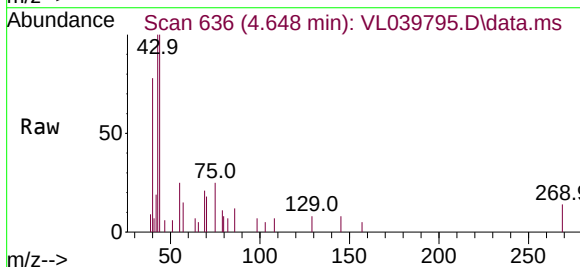
Ion Ratio Lower Upper

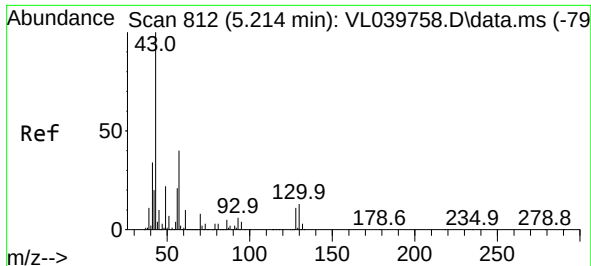
43 100

86 27.5 4.9 7.3#

42 0.0 7.2 10.8#

44 59.7 5.0 7.6#

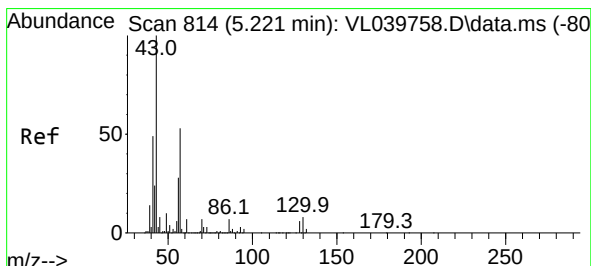
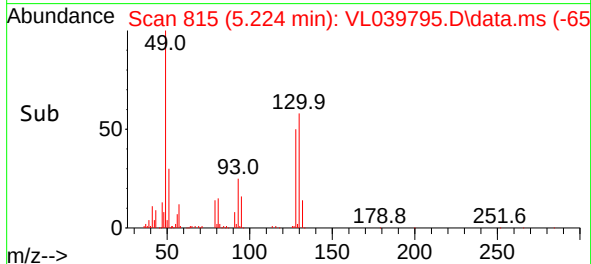
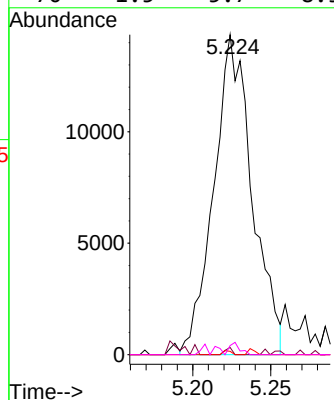
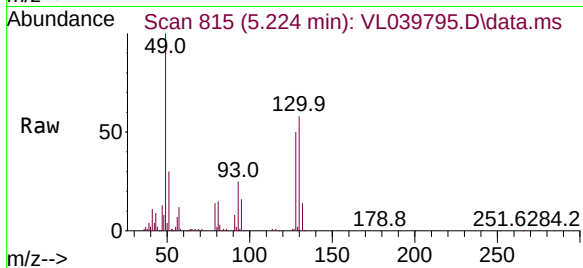




#25
Ethyl Acetate
Concen: 0.121 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.010 min
Lab File: VL039795.D
Acq: 25 Oct 2022 19:52

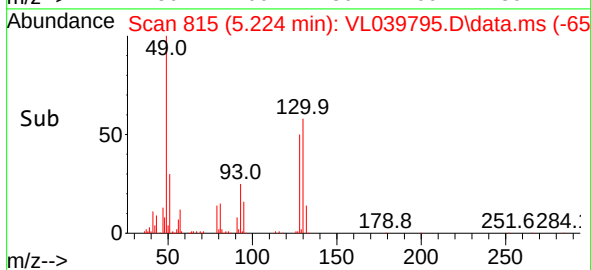
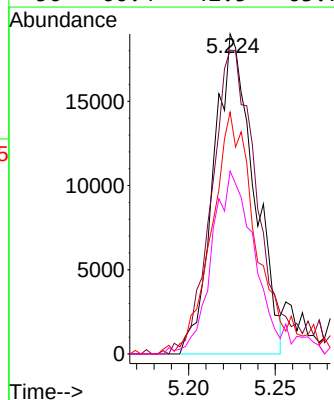
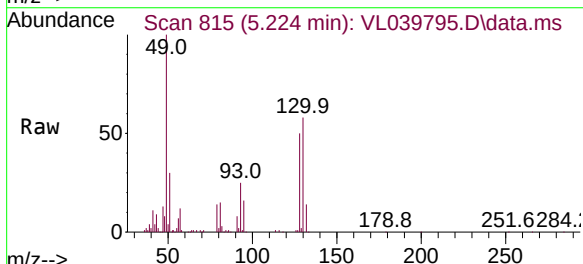
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MDL

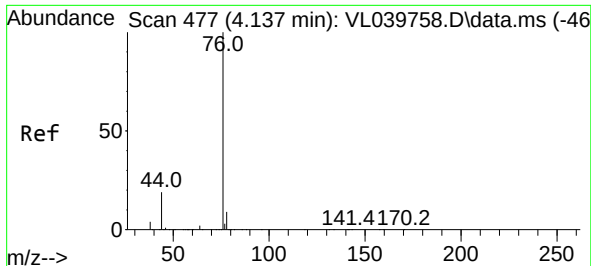
Tgt Ion: 43	Resp: 24548
Ion Ratio	Lower Upper
43 100	
45 2.0	8.2 12.2#
61 0.6	8.2 12.4#
70 1.5	5.7 8.5#



#26
Hexane
Concen: 0.365 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.003 min
Lab File: VL039795.D
Acq: 25 Oct 2022 19:52

Tgt Ion: 57	Resp: 30794
Ion Ratio	Lower Upper
57 100	
41 114.7	76.1 114.1#
43 85.4	197.1 295.7#
56 66.4	42.5 63.7#

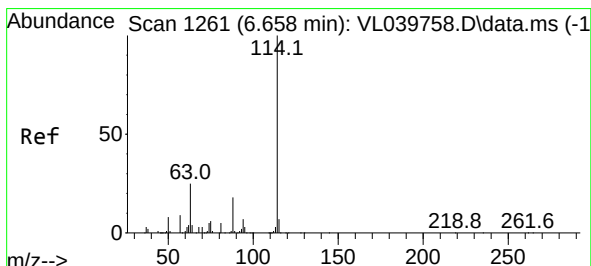
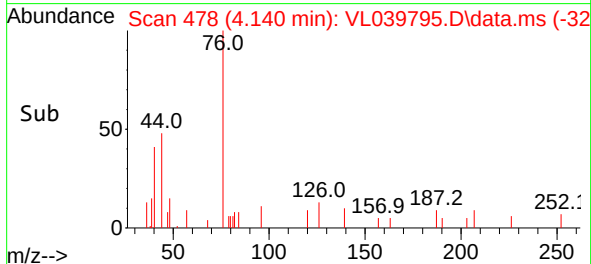
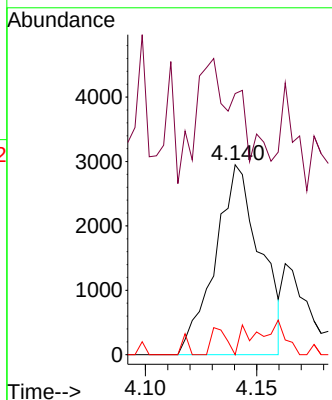
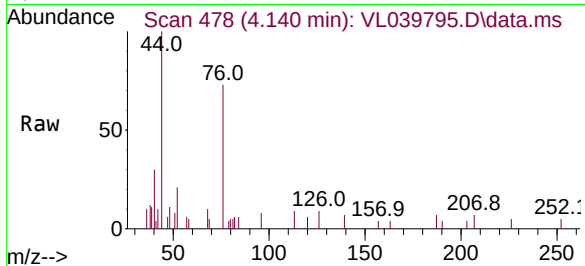




#27
Carbon Disulfide
Concen: 0.041 ppbv
RT: 4.140 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL039795.D
Acq: 25 Oct 2022 19:52

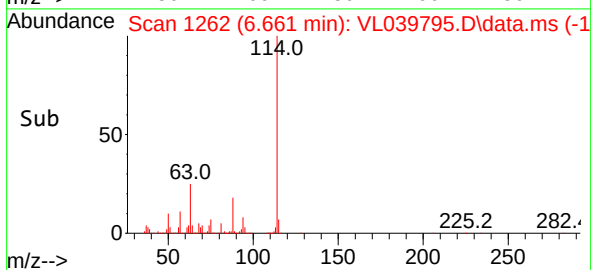
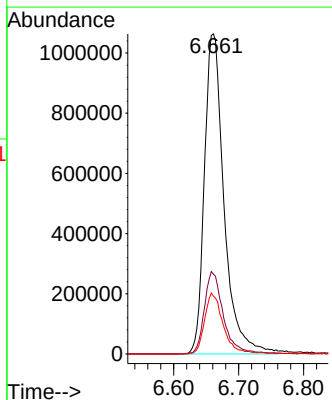
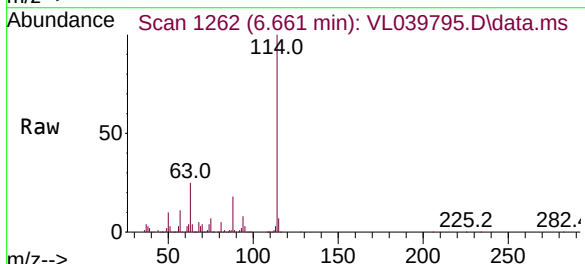
Instrument :
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MDL

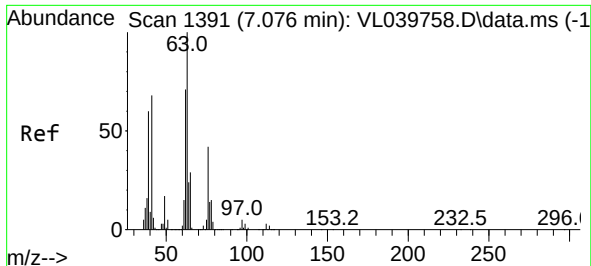
Tgt Ion: 76 Resp: 4130
Ion Ratio Lower Upper
76 100
44 129.2 16.6 25.0#
78 0.0 7.6 11.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. 0.003 min
Lab File: VL039795.D
Acq: 25 Oct 2022 19:52

Tgt Ion: 114 Resp: 2238991
Ion Ratio Lower Upper
114 100
63 25.2 20.1 30.1
88 18.1 14.5 21.7





#39

1,2-Dichloropropane

Concen: 8.149 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.418 min

Lab File: VL039795.D

Acq: 25 Oct 2022 19:52

Instrument :

MSVOA_L

ClientSampleId :

MDL

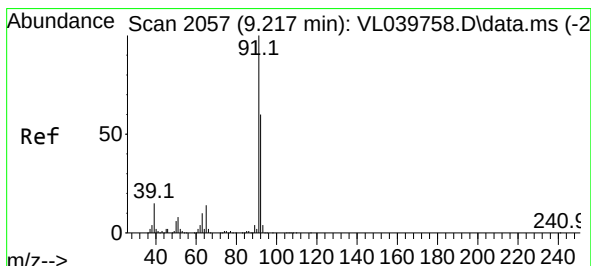
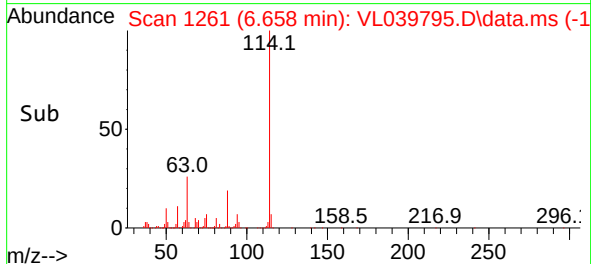
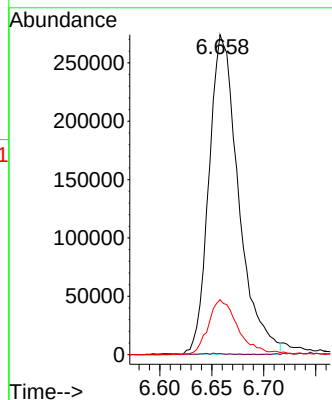
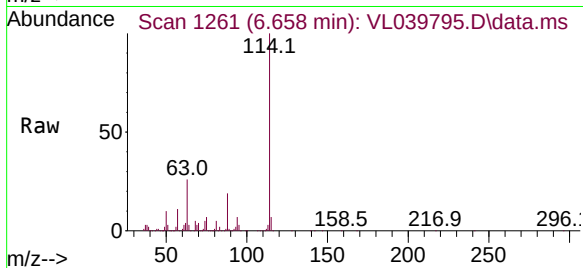
Tgt Ion: 63 Resp: 541324

Ion Ratio Lower Upper

63 100

41 0.3 54.5 81.7#

62 17.2 56.6 85.0#



#53

Toluene

Concen: 0.057 ppbv

RT: 9.224 min Scan# 2059

Delta R.T. 0.007 min

Lab File: VL039795.D

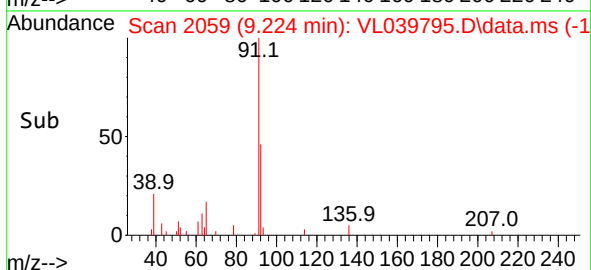
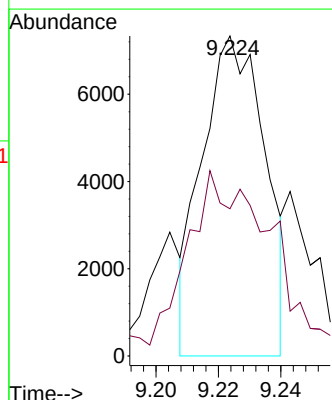
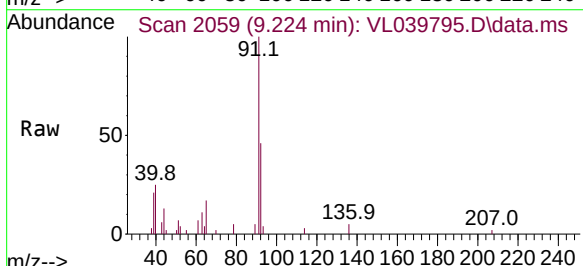
Acq: 25 Oct 2022 19:52

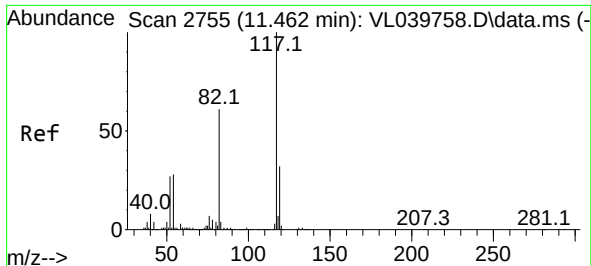
Tgt Ion: 91 Resp: 10267

Ion Ratio Lower Upper

91 100

92 85.3 48.0 72.0#

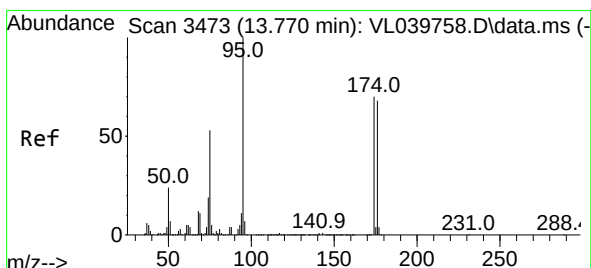
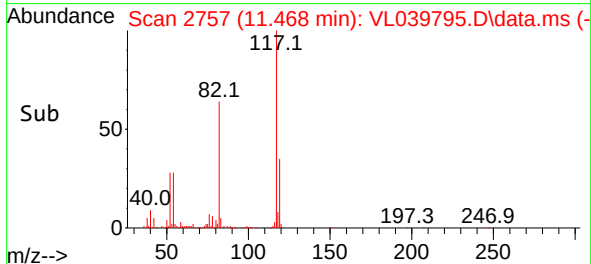
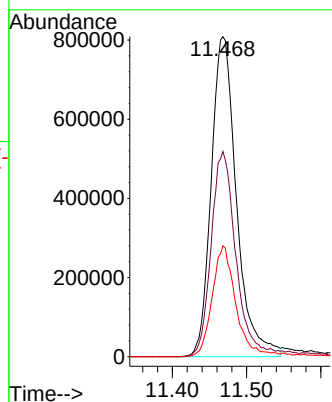
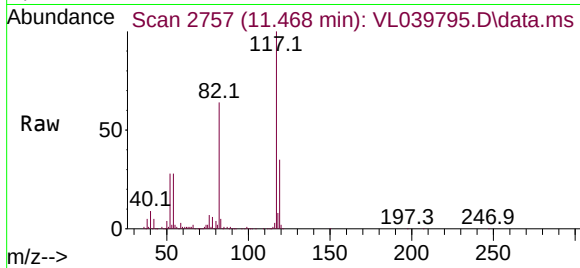




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL039795.D
Acq: 25 Oct 2022 19:52

Instrument :
MSVOA_L
ClientSampleId :
MDL

Tgt Ion:117 Resp: 1910329
Ion Ratio Lower Upper
117 100
82 65.6 49.9 74.9
119 33.9 25.2 37.8



#68
1-Bromo-4-Fluorobenzene
Concen: 4.812 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. 0.003 min
Lab File: VL039795.D
Acq: 25 Oct 2022 19:52

Tgt Ion: 95 Resp: 653866
Ion Ratio Lower Upper
95 100
174 0.0 57.3 85.9#
175 11.4 4.2 6.2#

