

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
 Data File : VL039797.D
 Acq On : 25 Oct 2022 21:14
 Operator : SY/AP
 Sample : N5227-14DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ODL

Quant Time: Oct 28 08:11:07 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)

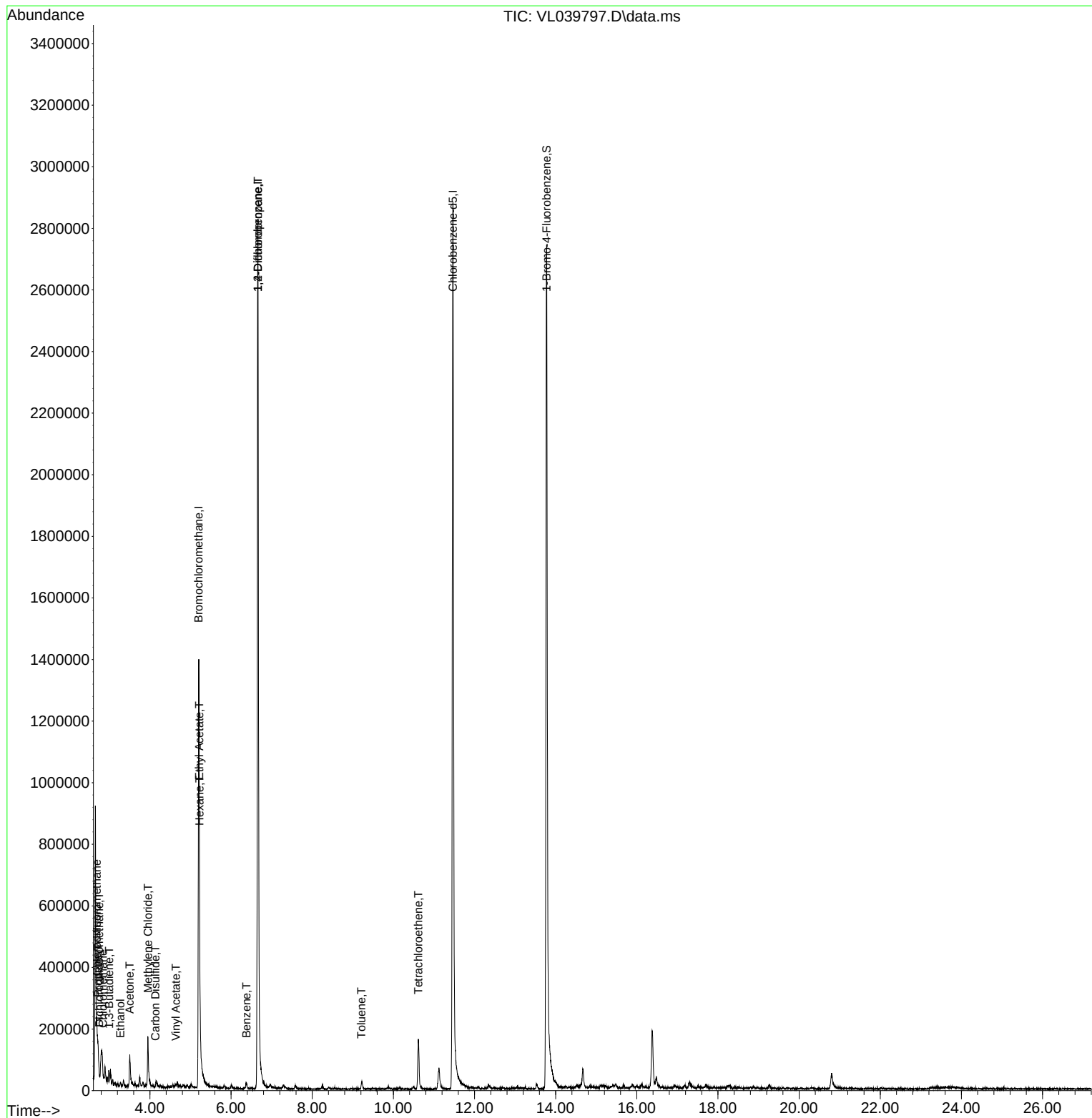
Internal Standards						
1) Bromochloromethane	5.201	49	795532	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2273634	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	1914830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1379898	10.130	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.748	85	4548	0.055	ppbv #	80
3) Chlorodifluoromethane	2.690	51	71870	0.752	ppbv #	62
4) Chloromethane	2.841	50	1969	0.033	ppbv #	42
9) Propene	2.719	41	28254	0.688	ppbv	90
13) Ethanol	3.269	45	3518	1.193	ppbv #	58
15) Acetone	3.501	43	88973	0.936	ppbv #	86
16) 1,3-Butadiene	2.999	39	3920	0.083	ppbv	93
20) Methylene Chloride	3.951	84	56013	1.549	ppbv	86
23) Vinyl Acetate	4.642	43	1987	0.054	ppbv #	47
25) Ethyl Acetate	5.218	43	11777	0.063	ppbv #	78
26) Hexane	5.221	57	38541	0.499	ppbv #	37
27) Carbon Disulfide	4.137	76	4136	0.045	ppbv #	1
36) Benzene	6.382	78	13254	0.076	ppbv #	77
39) 1,2-Dichloropropane	6.658	63	539785	8.002	ppbv #	26
52) Tetrachloroethene	10.616	164	26999	0.412	ppbv	98
53) Toluene	9.214	91	6824	0.037	ppbv #	21

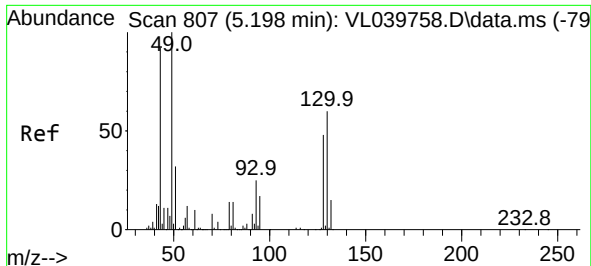
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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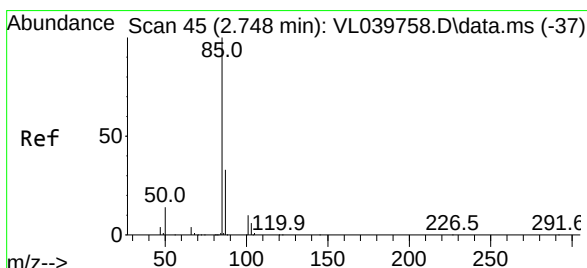
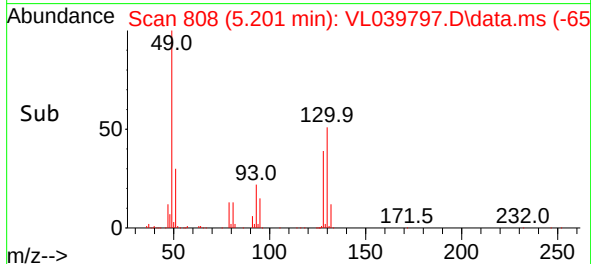
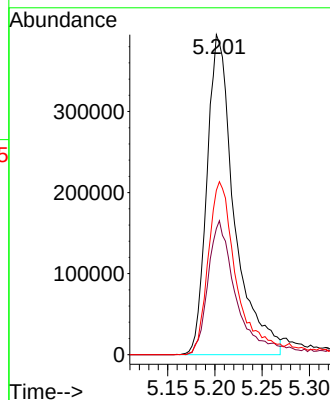
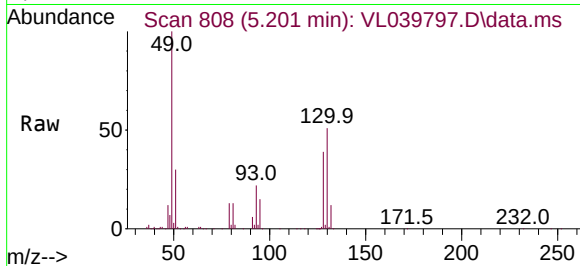




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

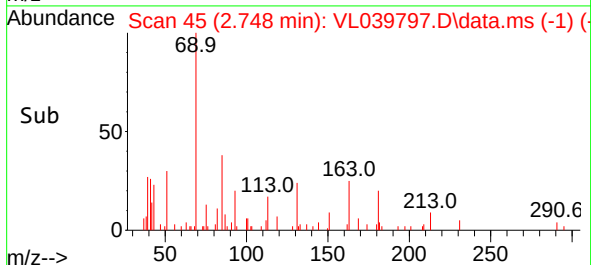
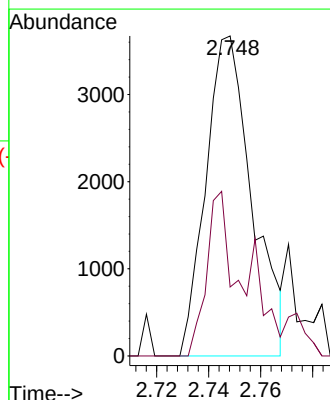
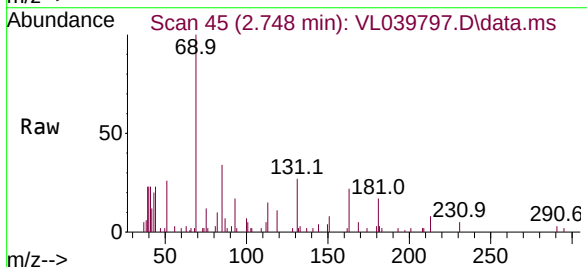
Instrument :
MSVOA_L
ClientSampleId :
ODL

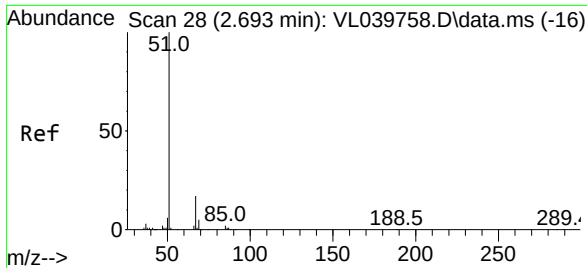
Tgt Ion: 49 Resp: 795532
Ion Ratio Lower Upper
49 100
128 45.3 24.6 74.0
130 60.6 31.8 95.3



#2
Dichlorodifluoromethane
Concen: 0.055 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.000 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

Tgt Ion: 85 Resp: 4548
Ion Ratio Lower Upper
85 100
87 21.5 26.1 39.1#

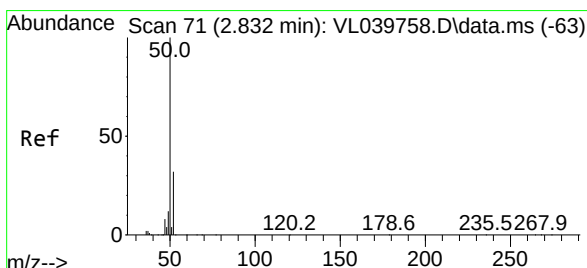
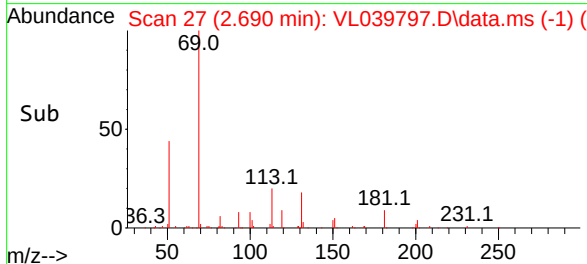
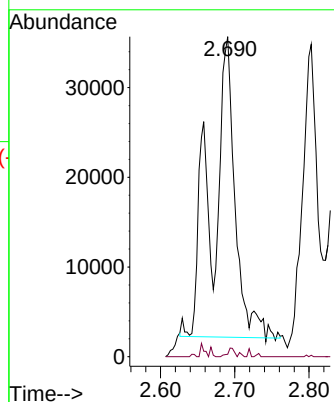
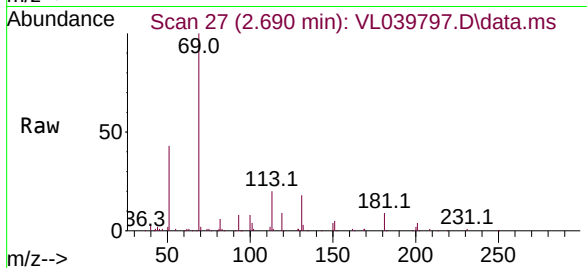




#3
Chlorodifluoromethane
Concen: 0.752 ppbv
RT: 2.690 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

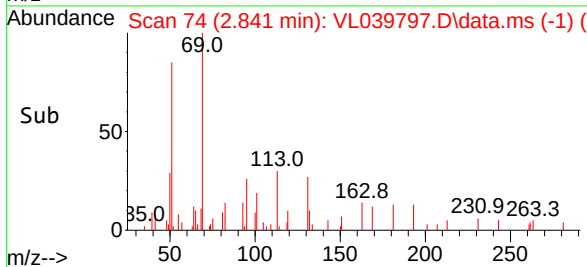
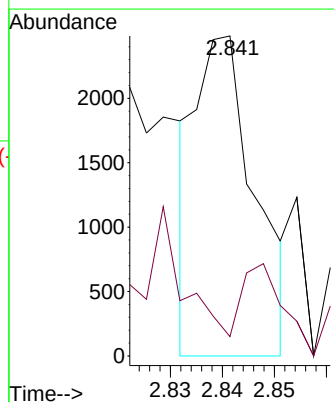
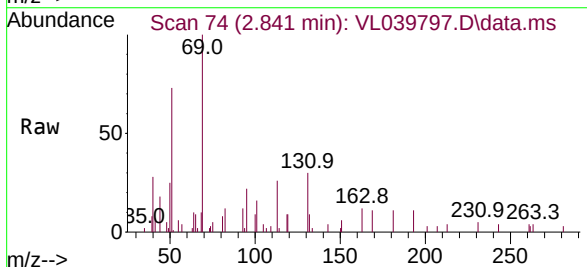
Instrument :
MSVOA_L
ClientSampleId :
ODL

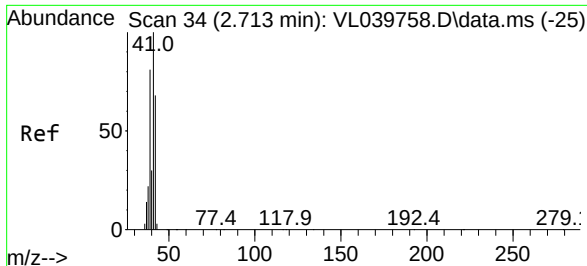
Tgt Ion: 51 Resp: 71870
Ion Ratio Lower Upper
51 100
67 1.0 14.2 21.2#



#4
Chloromethane
Concen: 0.033 ppbv
RT: 2.841 min Scan# 74
Delta R.T. 0.010 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

Tgt Ion: 50 Resp: 1969
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

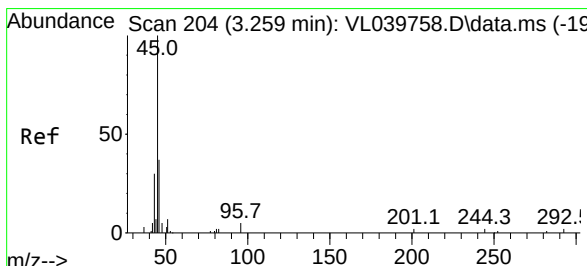
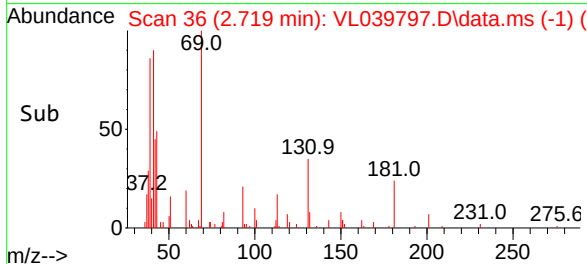
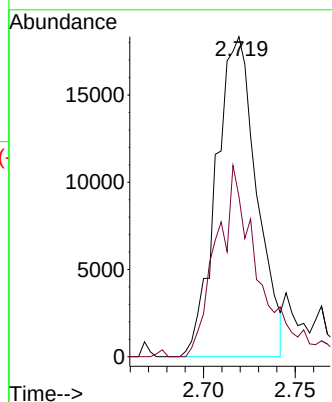
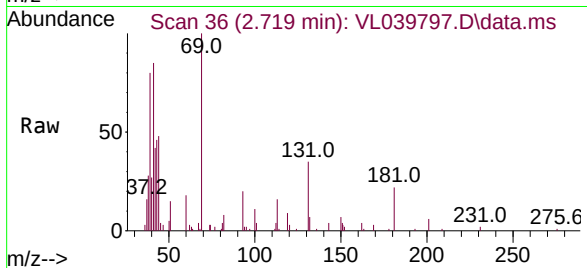




#9
Propene
Concen: 0.688 ppbv
RT: 2.719 min Scan# 30
Delta R.T. 0.007 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

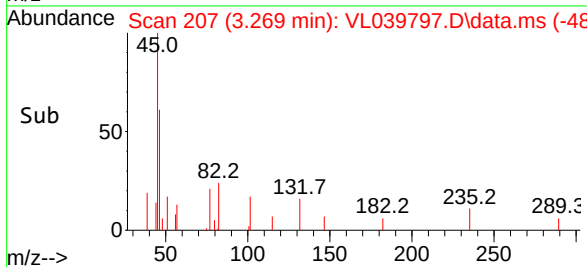
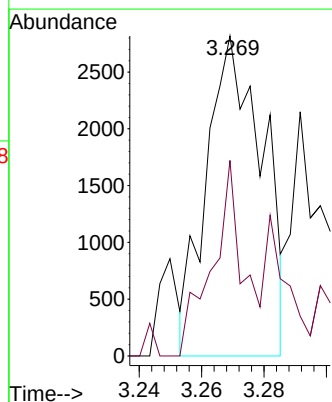
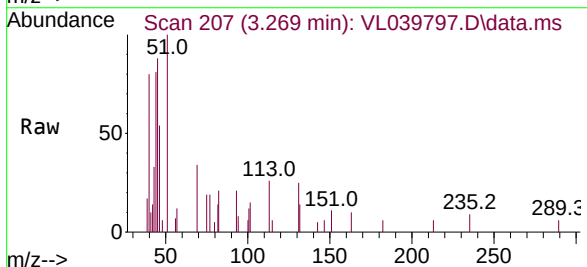
Instrument :
MSVOA_L
ClientSampleId :
ODL

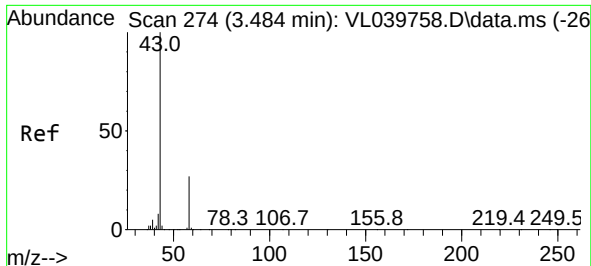
Tgt Ion: 41 Resp: 28254
Ion Ratio Lower Upper
41 100
42 64.4 58.0 87.0



#13
Ethanol
Concen: 1.193 ppbv
RT: 3.269 min Scan# 207
Delta R.T. 0.010 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

Tgt Ion: 45 Resp: 3518
Ion Ratio Lower Upper
45 100
46 63.5 15.3 61.3#

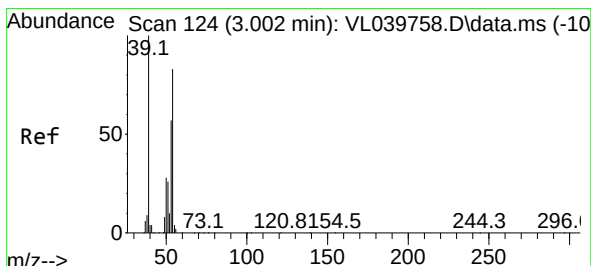
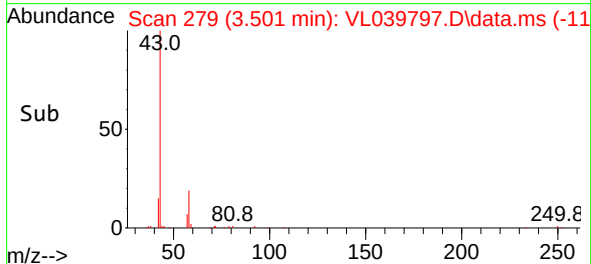
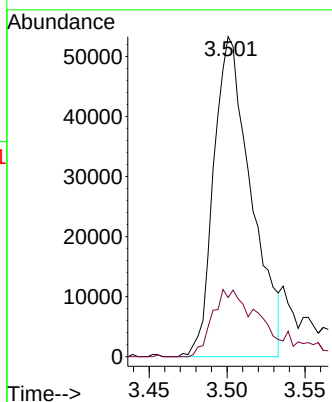
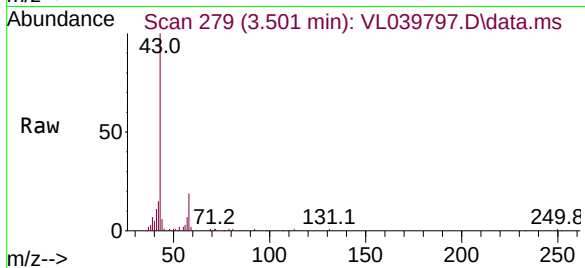




#15
Acetone
Concen: 0.936 ppbv
RT: 3.501 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

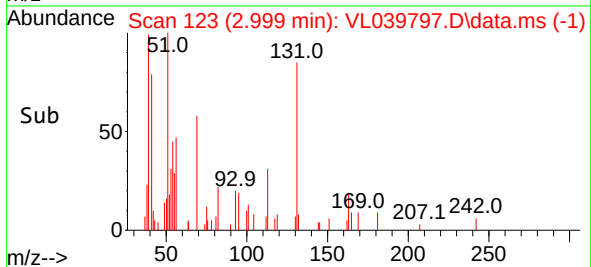
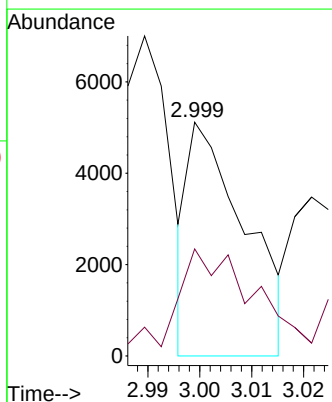
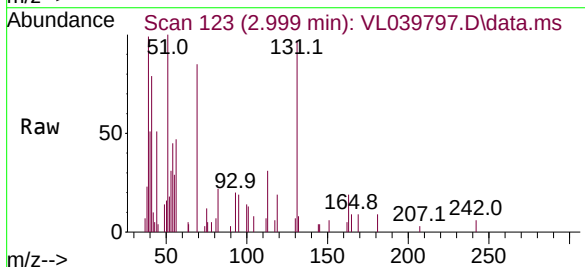
Instrument :
MSVOA_L
ClientSampleId :
ODL

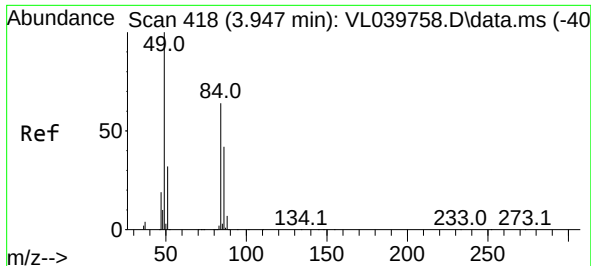
Tgt Ion: 43 Resp: 88973
Ion Ratio Lower Upper
43 100
58 33.2 20.7 31.1#



#16
1,3-Butadiene
Concen: 0.083 ppbv
RT: 2.999 min Scan# 123
Delta R.T. -0.003 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

Tgt Ion: 39 Resp: 3920
Ion Ratio Lower Upper
39 100
54 86.9 64.6 97.0





#20

Methylene Chloride

Concen: 1.549 ppbv

RT: 3.951 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL039797.D

Acq: 25 Oct 2022 21:14

Instrument :

MSVOA_L

ClientSampleId :

ODL

Tgt Ion: 84 Resp: 56013

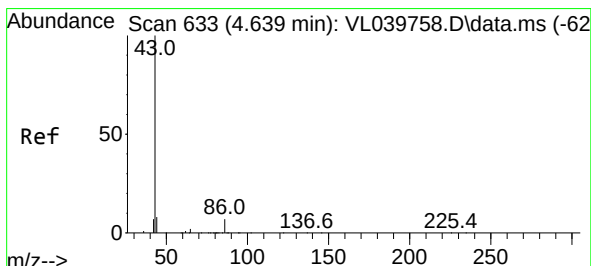
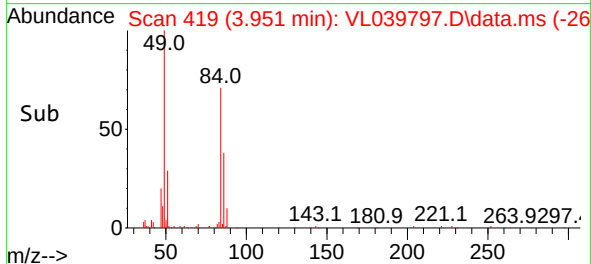
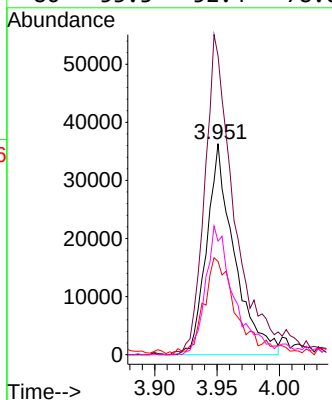
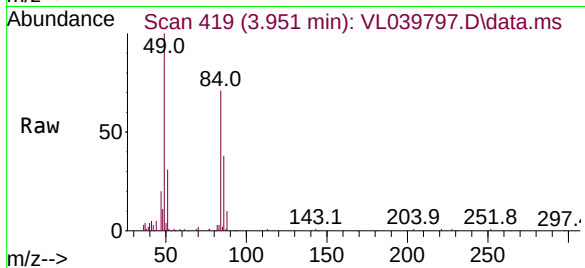
Ion Ratio Lower Upper

84 100

49 140.0 126.0 189.0

51 42.1 40.9 61.3

86 53.3 52.4 78.6



#23

Vinyl Acetate

Concen: 0.054 ppbv

RT: 4.642 min Scan# 634

Delta R.T. 0.003 min

Lab File: VL039797.D

Acq: 25 Oct 2022 21:14

Tgt Ion: 43 Resp: 1987

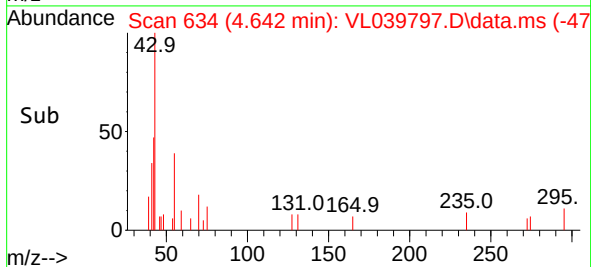
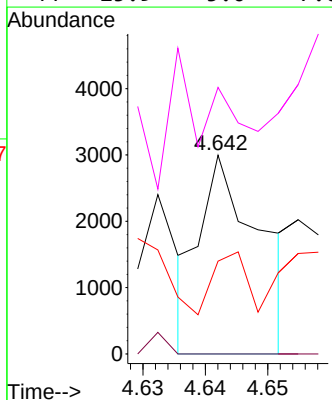
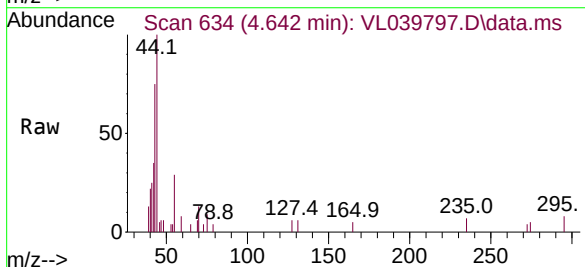
Ion Ratio Lower Upper

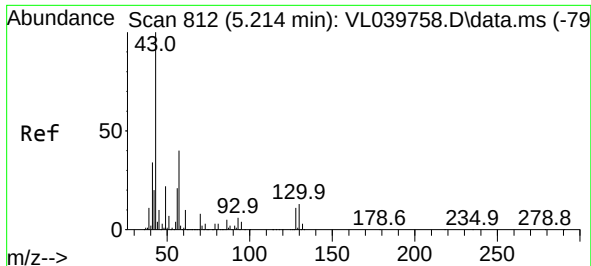
43 100

86 0.0 4.9 7.3#

42 35.8 7.2 10.8#

44 25.9 5.0 7.6#

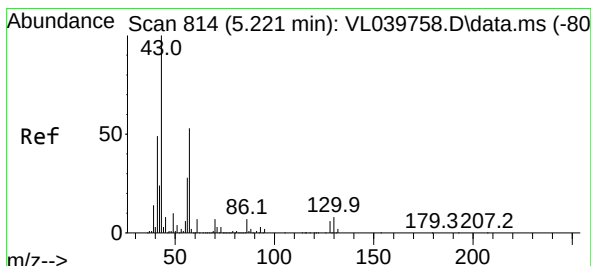
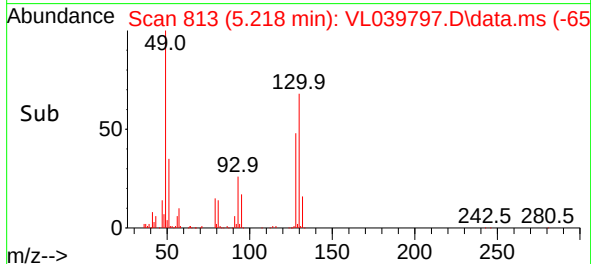
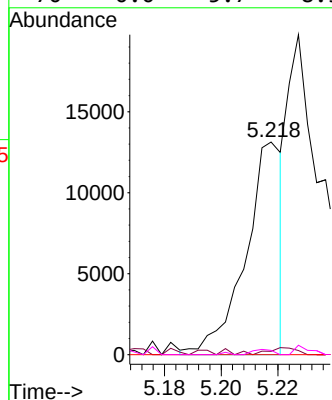
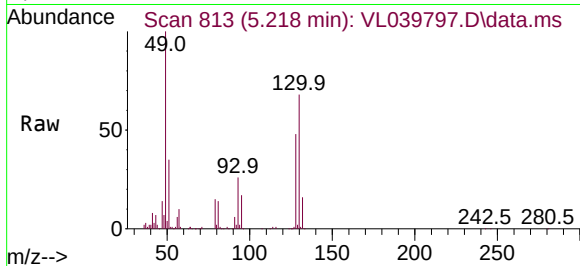




#25
Ethyl Acetate
Concen: 0.063 ppbv
RT: 5.218 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

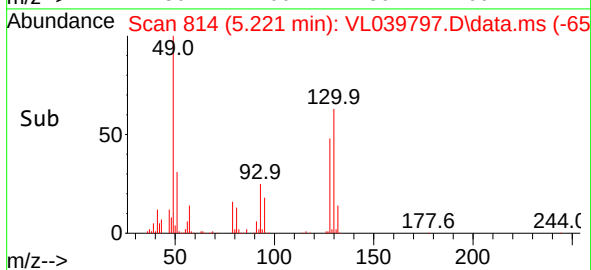
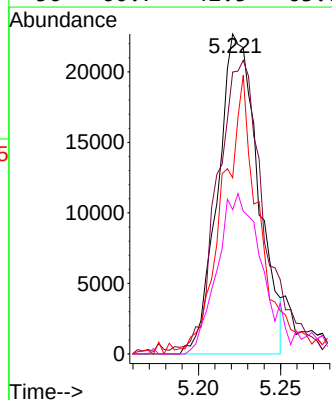
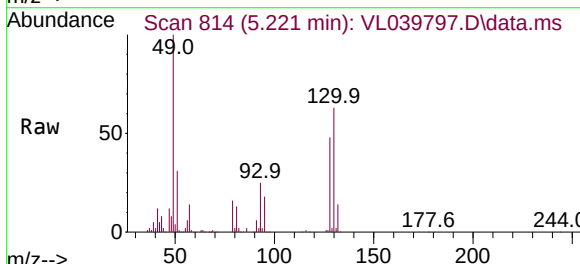
Instrument :
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ODL

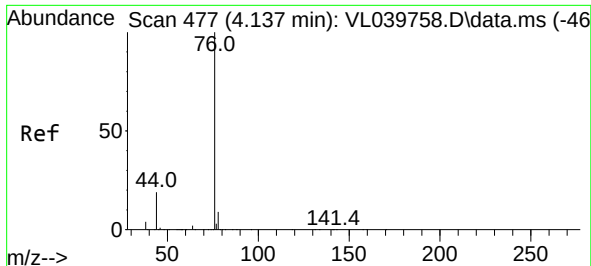
Tgt Ion: 43 Resp: 11777
Ion Ratio Lower Upper
43 100
45 3.5 8.2 12.2#
61 0.0 8.2 12.4#
70 0.0 5.7 8.5#



#26
Hexane
Concen: 0.499 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.000 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

Tgt Ion: 57 Resp: 38541
Ion Ratio Lower Upper
57 100
41 108.6 76.1 114.1
43 85.9 197.1 295.7#
56 60.7 42.5 63.7





#27

Carbon Disulfide

Concen: 0.045 ppbv

RT: 4.137 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL039797.D

Acq: 25 Oct 2022 21:14

Instrument :

MSVOA_L

ClientSampleId :

ODL

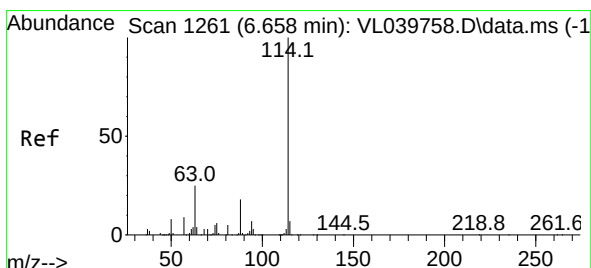
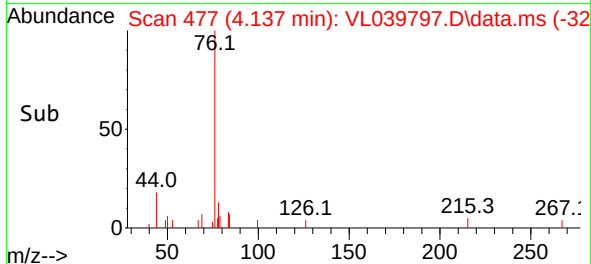
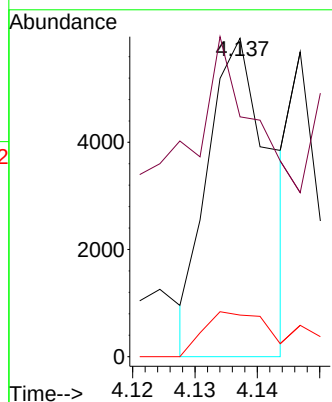
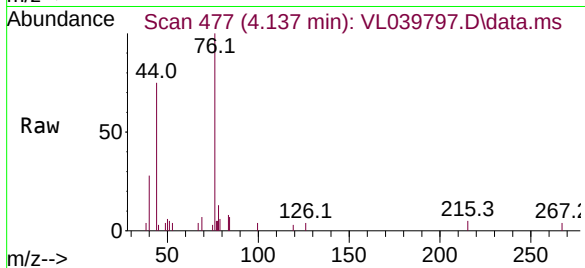
Tgt Ion: 76 Resp: 4136

Ion Ratio Lower Upper

76 100

44 89.8 16.6 25.0#

78 26.5 7.6 11.4#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. 0.000 min

Lab File: VL039797.D

Acq: 25 Oct 2022 21:14

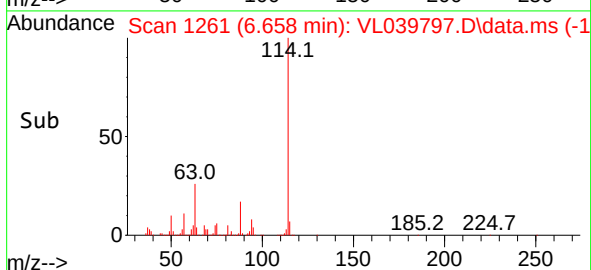
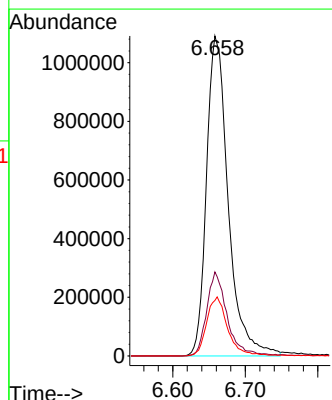
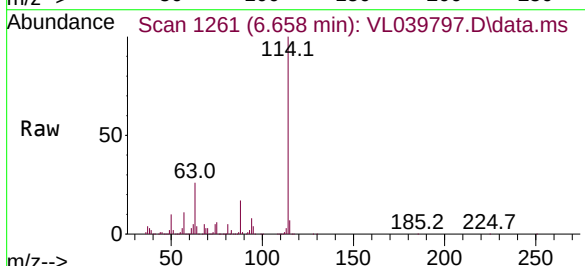
Tgt Ion: 114 Resp: 2273634

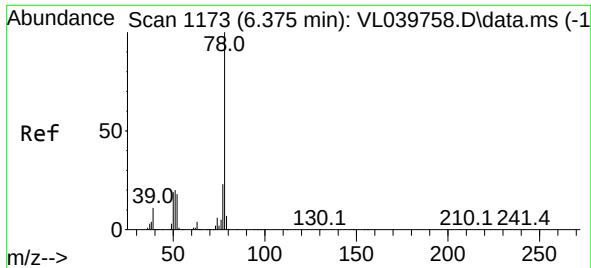
Ion Ratio Lower Upper

114 100

63 25.1 20.1 30.1

88 18.2 14.5 21.7





#36

Benzene

Concen: 0.076 ppbv

RT: 6.382 min Scan# 1175

Delta R.T. 0.007 min

Lab File: VL039797.D

Acq: 25 Oct 2022 21:14

Instrument :

MSVOA_L

ClientSampleId :

ODL

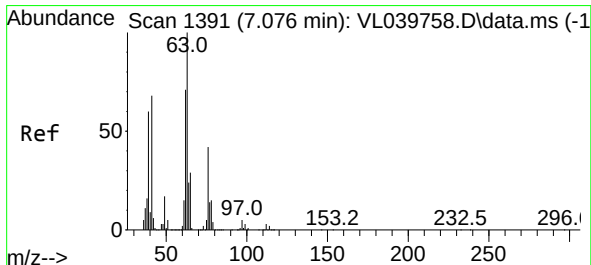
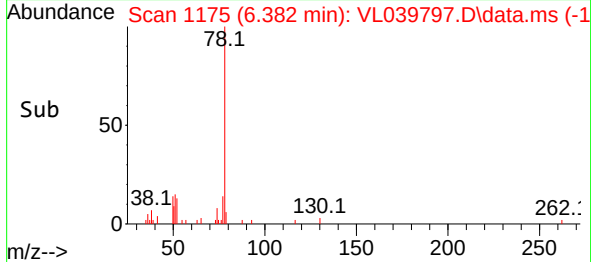
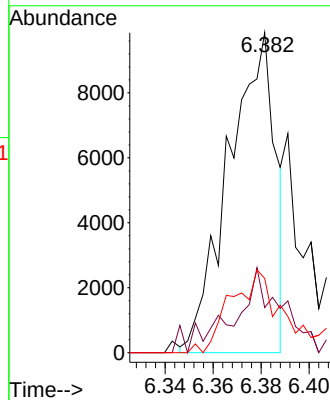
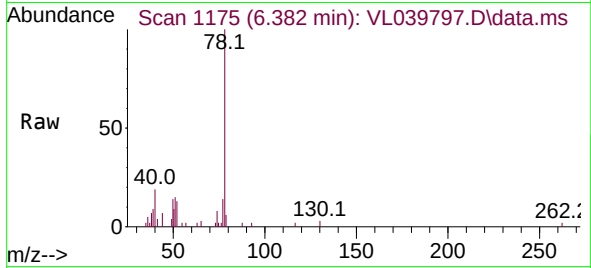
Tgt Ion: 78 Resp: 13254

Ion Ratio Lower Upper

78 100

77 5.4 18.3 27.5#

50 22.3 15.2 22.8



#39

1,2-Dichloropropane

Concen: 8.002 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.418 min

Lab File: VL039797.D

Acq: 25 Oct 2022 21:14

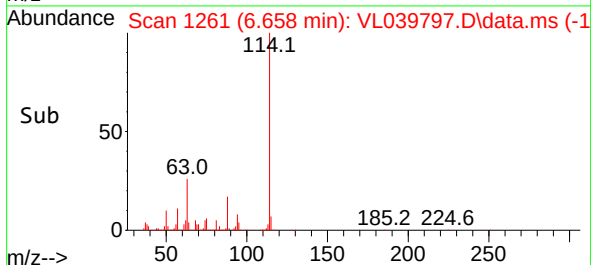
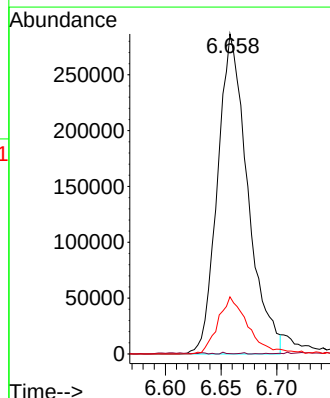
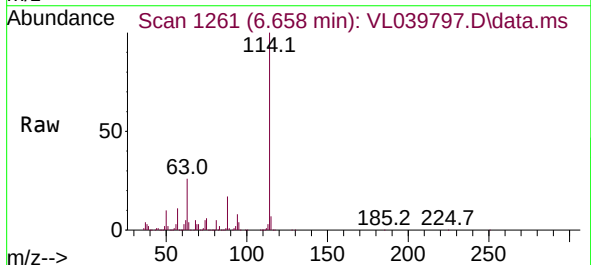
Tgt Ion: 63 Resp: 539785

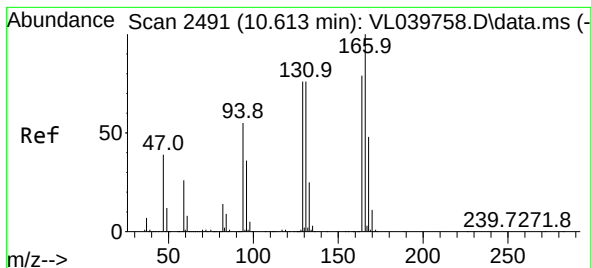
Ion Ratio Lower Upper

63 100

41 0.0 54.5 81.7#

62 17.9 56.6 85.0#

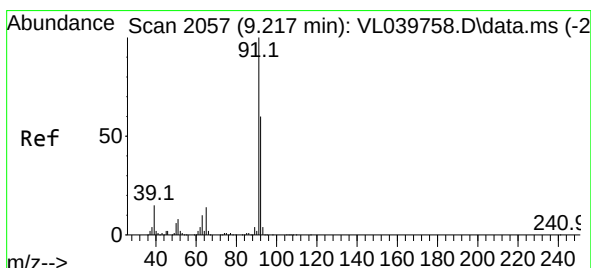
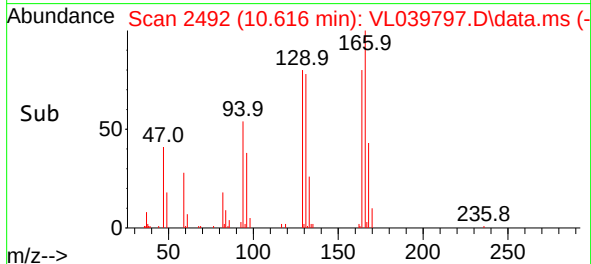
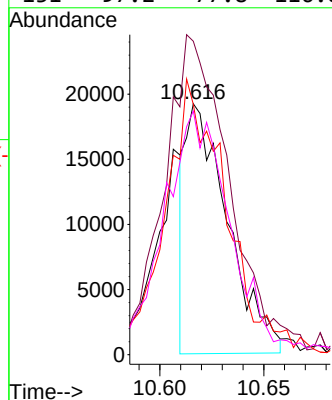
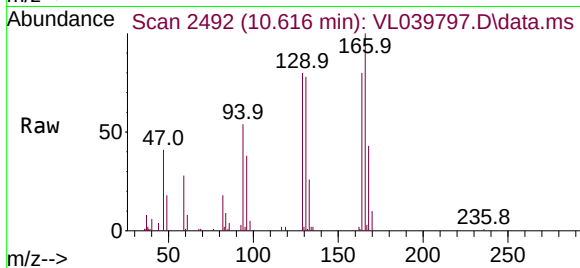




#52
Tetrachloroethene
Concen: 0.412 ppbv
RT: 10.616 min Scan# 2491
Delta R.T. 0.003 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

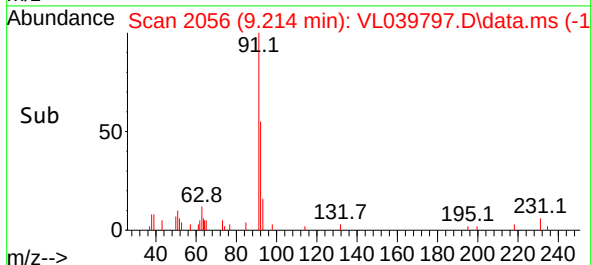
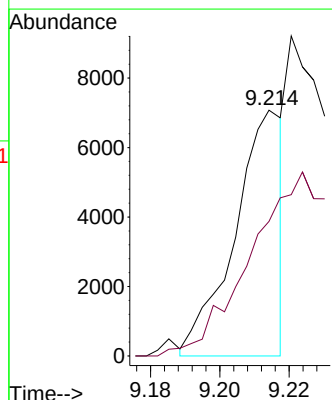
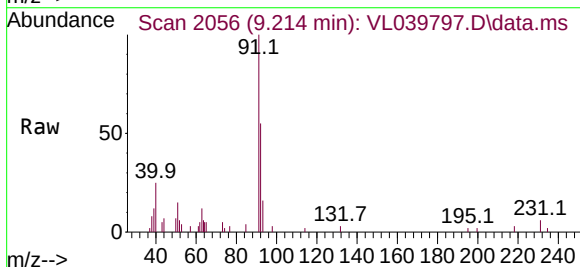
Instrument :
MSVOA_L
ClientSampleId :
ODL

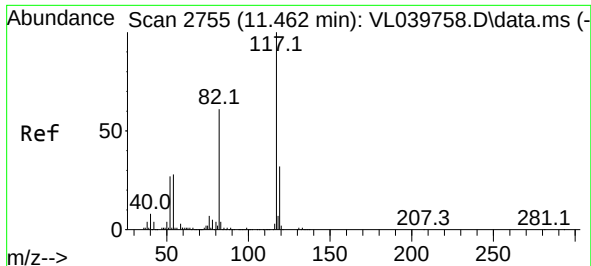
Tgt Ion:164 Resp: 26999
Ion Ratio Lower Upper
164 100
166 120.7 101.8 152.6
129 96.8 77.5 116.3
131 97.2 77.8 116.8



#53
Toluene
Concen: 0.037 ppbv
RT: 9.214 min Scan# 2056
Delta R.T. -0.003 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

Tgt Ion: 91 Resp: 6824
Ion Ratio Lower Upper
91 100
92 0.0 48.0 72.0#

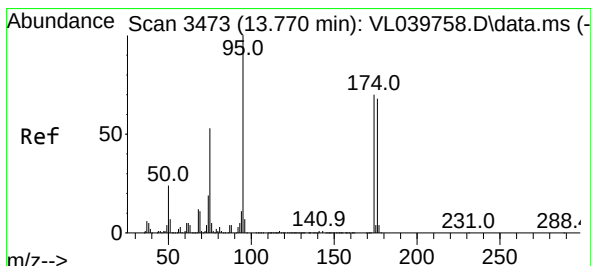
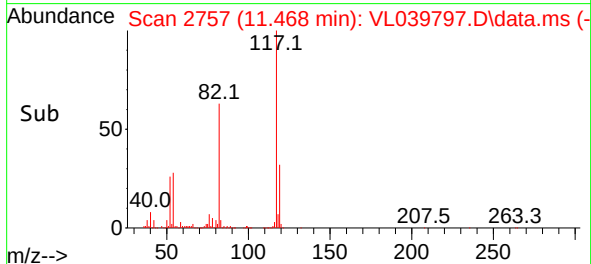
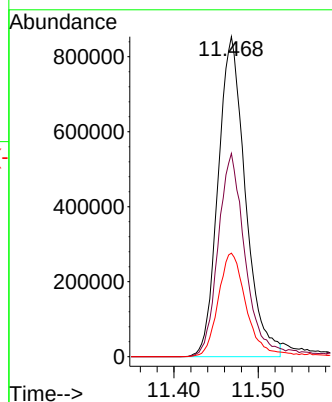
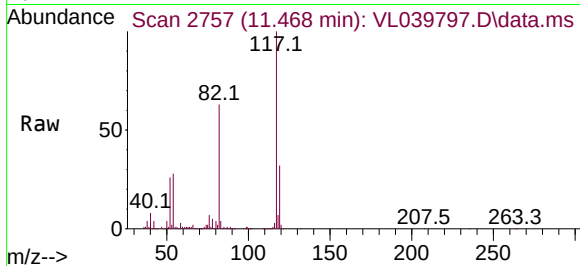




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

Instrument :
MSVOA_L
ClientSampleId :
ODL

Tgt Ion:117 Resp: 1914830
Ion Ratio Lower Upper
117 100
82 66.3 49.9 74.9
119 34.6 25.2 37.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.130 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.007 min
Lab File: VL039797.D
Acq: 25 Oct 2022 21:14

Tgt Ion: 95 Resp: 1379898
Ion Ratio Lower Upper
95 100
174 74.5 57.3 85.9
175 5.5 4.2 6.2

