

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102522\
 Data File : VL039799.D
 Acq On : 25 Oct 2022 22:37
 Operator : SY/AP
 Sample : N5227-08DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 HDL

Quant Time: Oct 28 08:11:56 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)

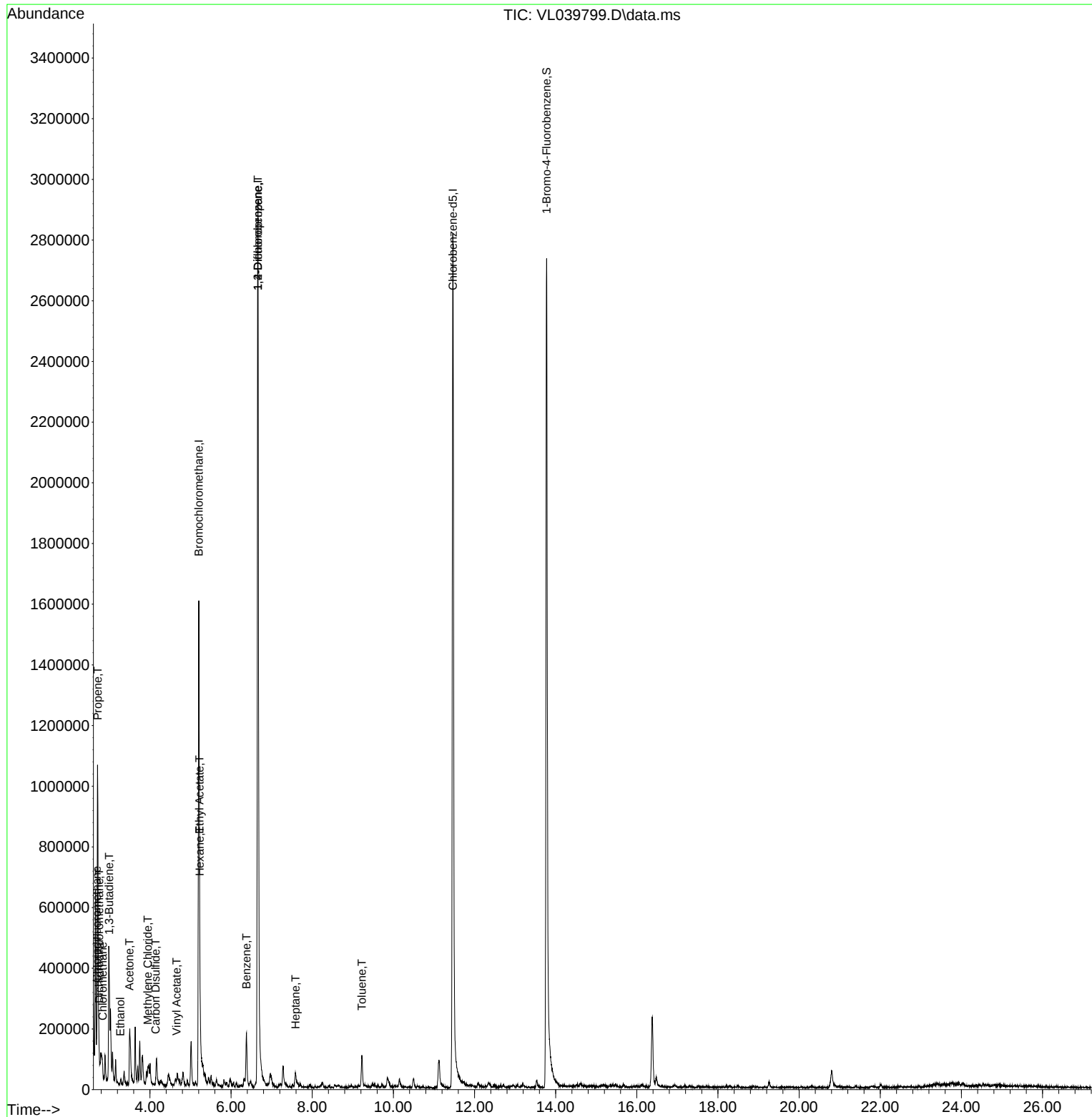
Internal Standards						
1) Bromochloromethane	5.205	49	838306	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2361917	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	1986112	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1397434	9.891	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	5357	0.061	ppbv	91
3) Chlorodifluoromethane	2.690	51	32083	0.319	ppbv #	64
4) Chloromethane	2.835	50	2388	0.038	ppbv	96
9) Propene	2.709	41	476391	11.010	ppbv	91
10) Heptane	7.590	43	17502	0.169	ppbv	90
13) Ethanol	3.272	45	7106	2.287	ppbv	100
15) Acetone	3.497	43	173898	1.737	ppbv #	83
16) 1,3-Butadiene	2.999	39	91273	1.844	ppbv	96
20) Methylene Chloride	3.947	84	11297	0.297	ppbv #	87
23) Vinyl Acetate	4.655	43	3252	0.084	ppbv #	41
25) Ethyl Acetate	5.224	43	17428	0.089	ppbv #	83
26) Hexane	5.227	57	46824	0.575	ppbv #	34
27) Carbon Disulfide	4.144	76	4658	0.048	ppbv #	1
36) Benzene	6.378	78	145270	0.799	ppbv #	94
39) 1,2-Dichloropropane	6.658	63	561381	8.011	ppbv #	27
53) Toluene	9.224	91	83007	0.436	ppbv	98

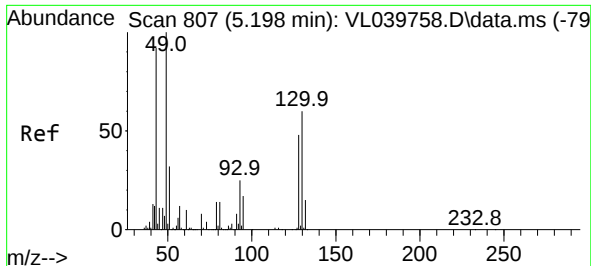
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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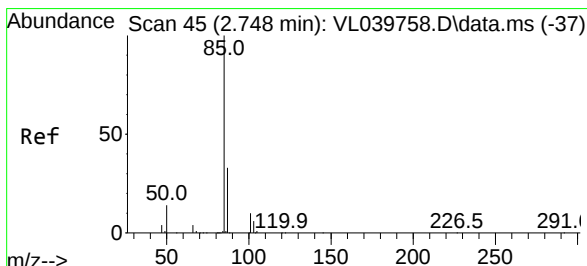
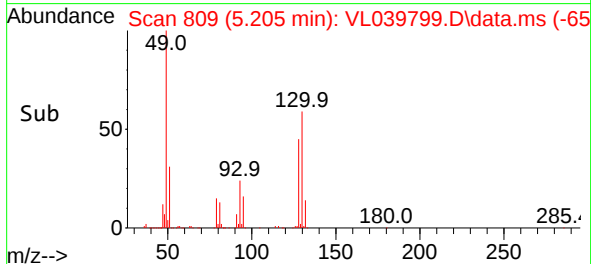
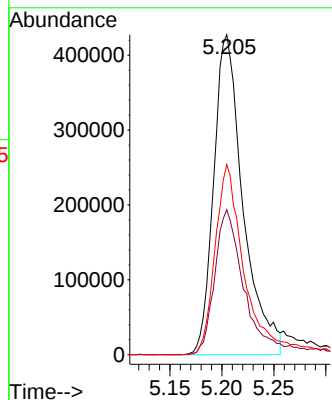
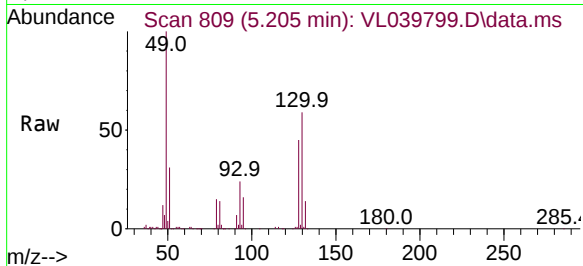




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.205 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

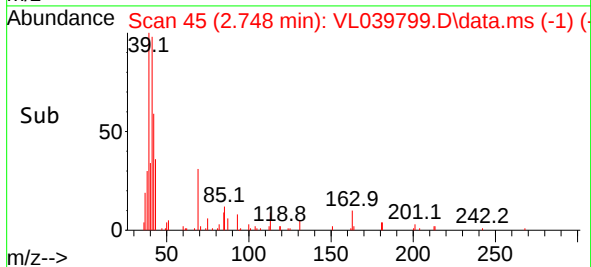
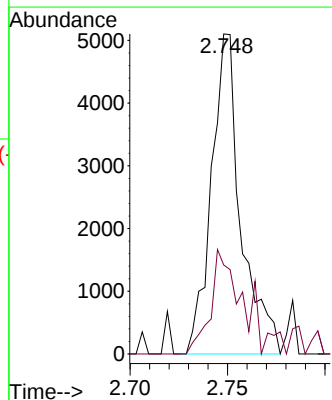
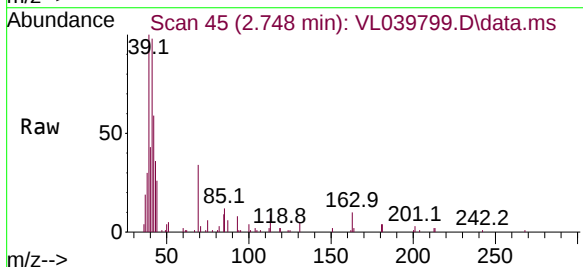
Instrument :
MSVOA_L
ClientSampleId :
HDL

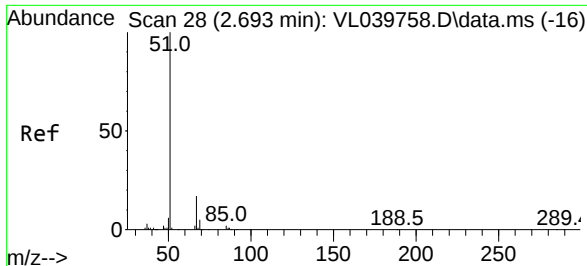
Tgt Ion: 49 Resp: 838306
Ion Ratio Lower Upper
49 100
128 48.8 24.6 74.0
130 62.7 31.8 95.3



#2
Dichlorodifluoromethane
Concen: 0.061 ppbv
RT: 2.748 min Scan# 45
Delta R.T. -0.000 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

Tgt Ion: 85 Resp: 5357
Ion Ratio Lower Upper
85 100
87 27.8 26.1 39.1

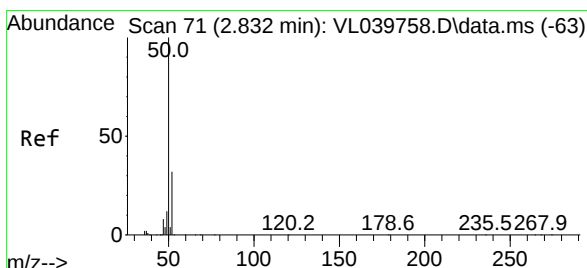
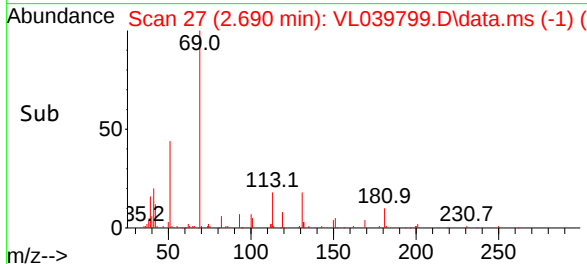
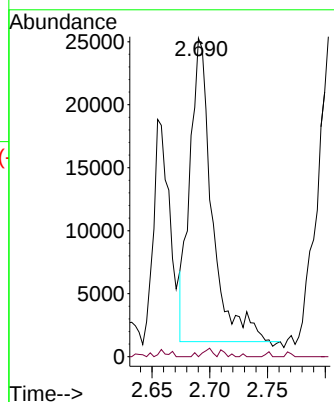
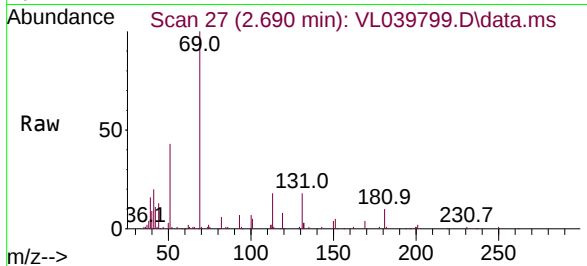




#3
Chlorodifluoromethane
Concen: 0.319 ppbv
RT: 2.690 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

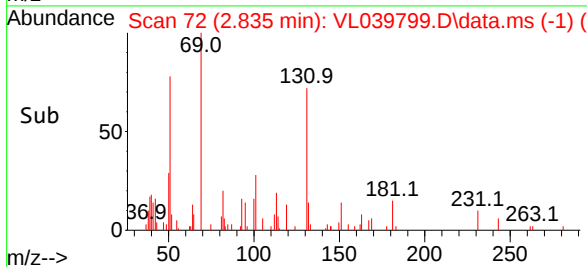
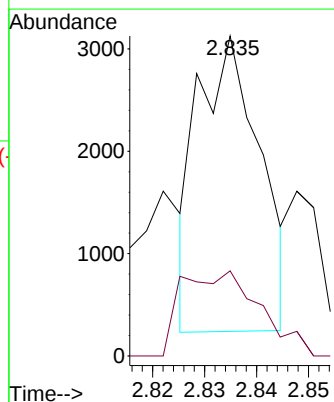
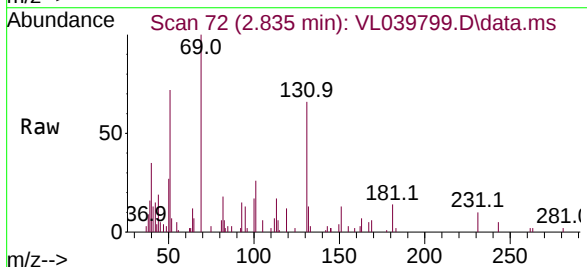
Instrument :
MSVOA_L
ClientSampleId :
HDL

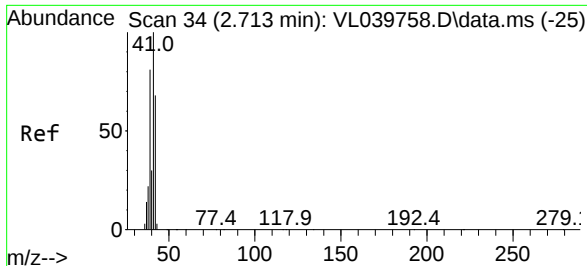
Tgt Ion: 51 Resp: 32083
Ion Ratio Lower Upper
51 100
67 2.0 14.2 21.2#



#4
Chloromethane
Concen: 0.038 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.003 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

Tgt Ion: 50 Resp: 2388
Ion Ratio Lower Upper
50 100
52 34.7 25.9 38.9

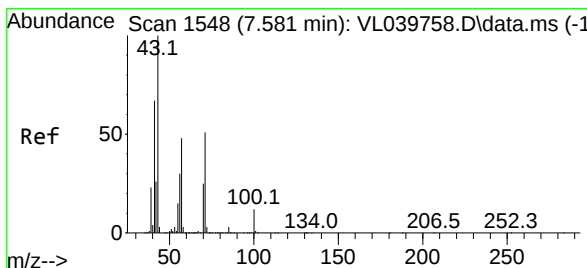
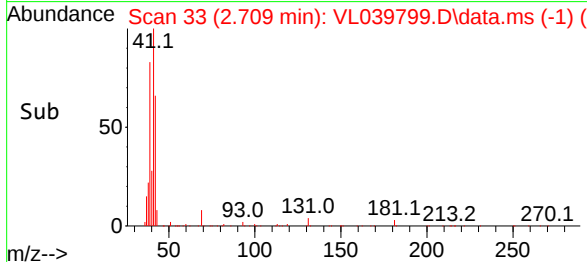
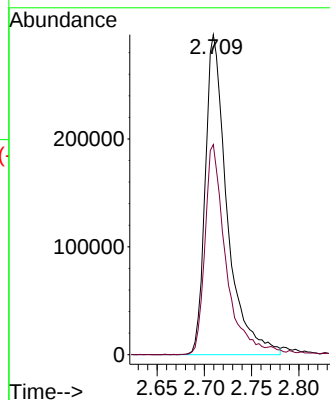
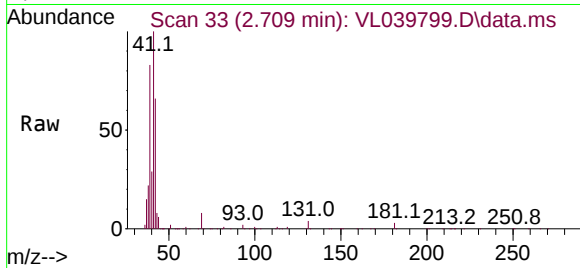




#9
 Propene
 Concen: 11.010 ppbv
 RT: 2.709 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL039799.D
 Acq: 25 Oct 2022 22:37

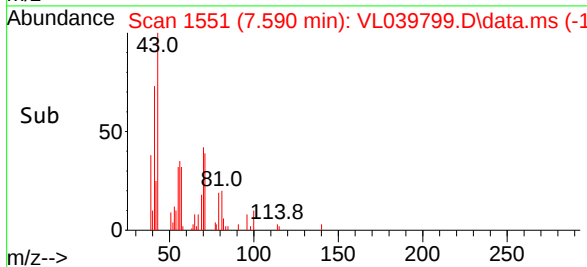
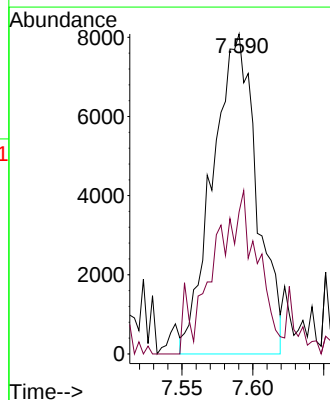
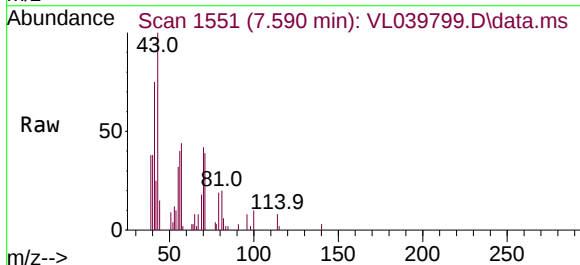
Instrument :
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 ClientSampleId :
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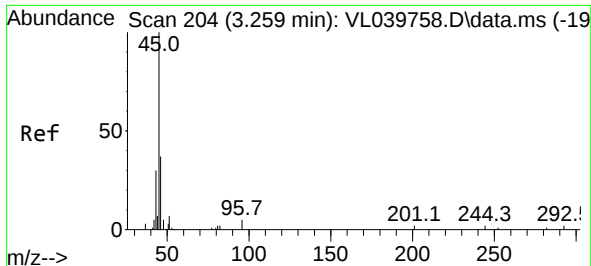
Tgt Ion: 41 Resp: 476391
 Ion Ratio Lower Upper
 41 100
 42 65.1 58.0 87.0



#10
 Heptane
 Concen: 0.169 ppbv
 RT: 7.590 min Scan# 1551
 Delta R.T. 0.010 min
 Lab File: VL039799.D
 Acq: 25 Oct 2022 22:37

Tgt Ion: 43 Resp: 17502
 Ion Ratio Lower Upper
 43 100
 57 56.9 40.0 60.0

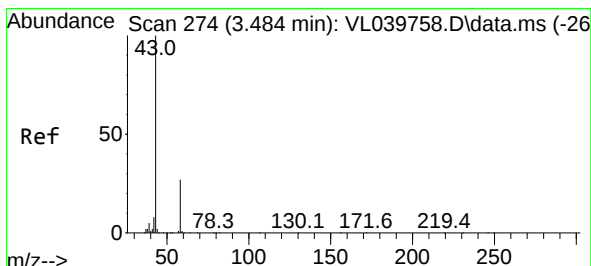
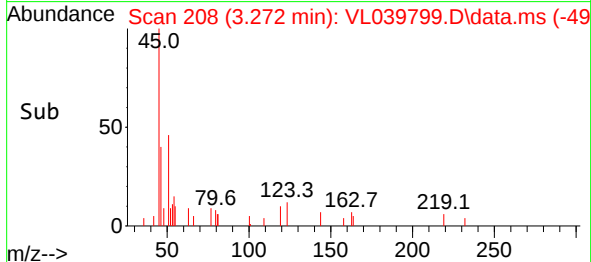
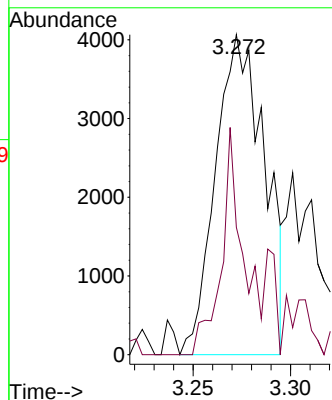
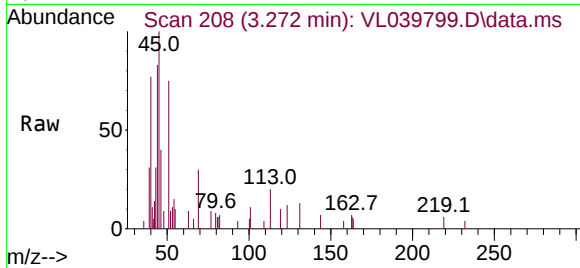




#13
Ethanol
Concen: 2.287 ppbv
RT: 3.272 min Scan# 204
Delta R.T. 0.013 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

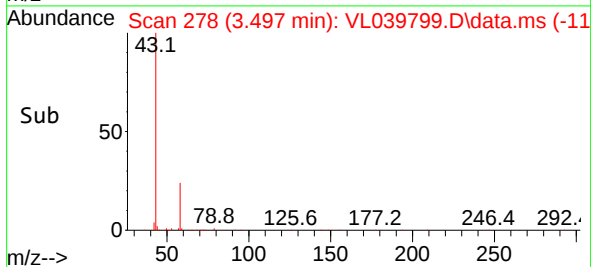
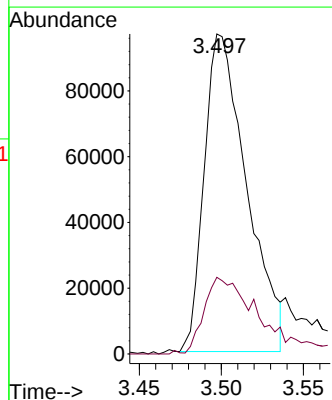
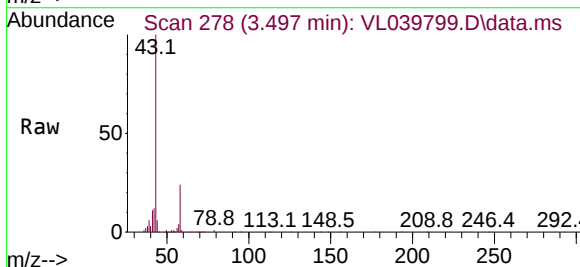
Instrument :
MSVOA_L
ClientSampleId :
HDL

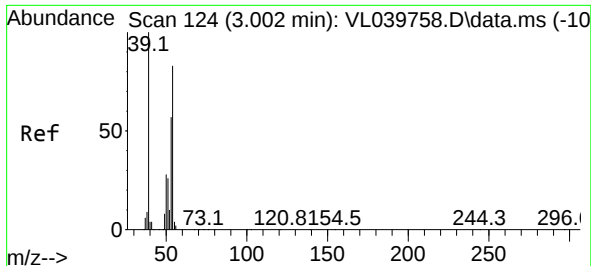
Tgt Ion: 45 Resp: 7106
Ion Ratio Lower Upper
45 100
46 38.1 15.3 61.3



#15
Acetone
Concen: 1.737 ppbv
RT: 3.497 min Scan# 278
Delta R.T. 0.013 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

Tgt Ion: 43 Resp: 173898
Ion Ratio Lower Upper
43 100
58 34.6 20.7 31.1#





#16

1,3-Butadiene

Concen: 1.844 ppbv

RT: 2.999 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL039799.D

Acq: 25 Oct 2022 22:37

Instrument :

MSVOA_L

ClientSampleId :

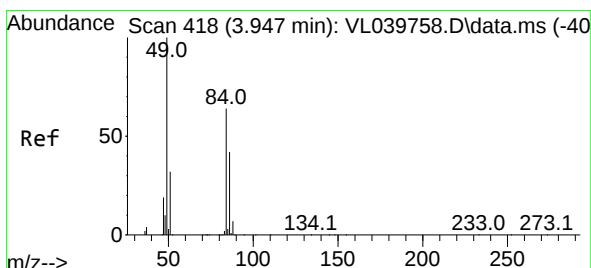
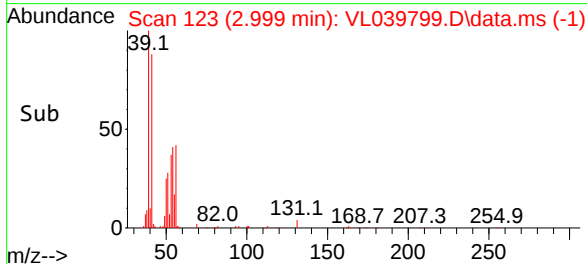
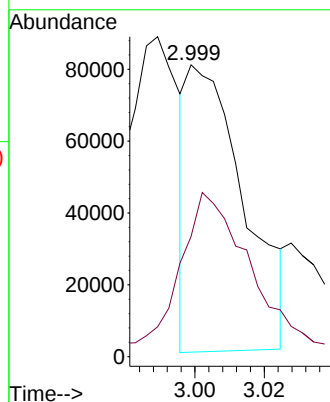
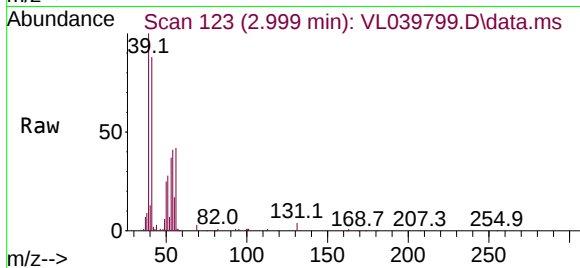
HDL

Tgt Ion: 39 Resp: 91273

Ion Ratio Lower Upper

39 100

54 77.6 64.6 97.0



#20

Methylene Chloride

Concen: 0.297 ppbv

RT: 3.947 min Scan# 418

Delta R.T. -0.000 min

Lab File: VL039799.D

Acq: 25 Oct 2022 22:37

Tgt Ion: 84 Resp: 11297

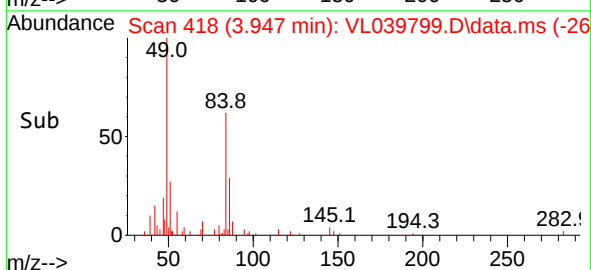
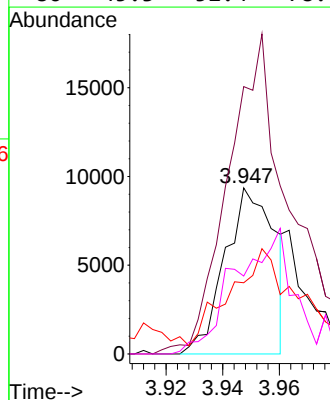
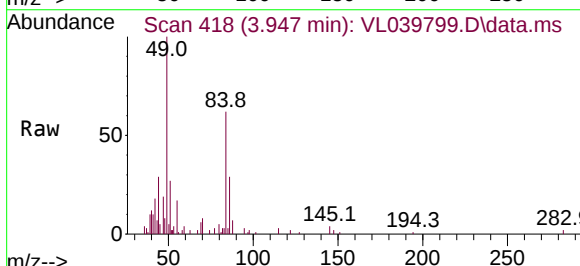
Ion Ratio Lower Upper

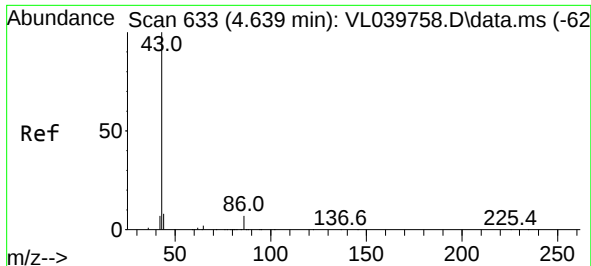
84 100

49 155.5 126.0 189.0

51 28.4 40.9 61.3#

86 45.3 52.4 78.6#

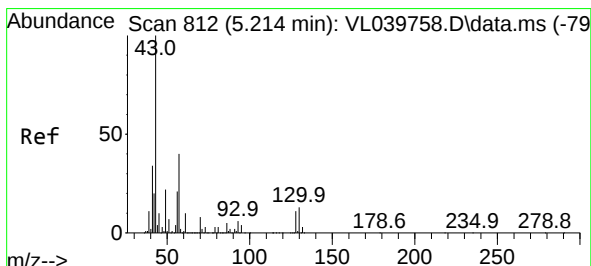
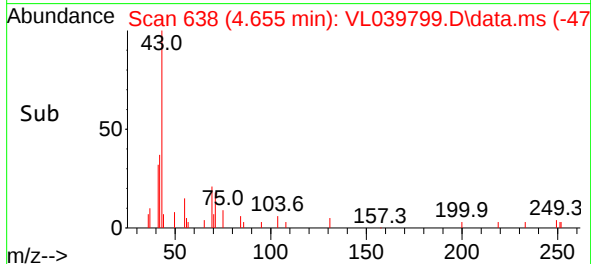
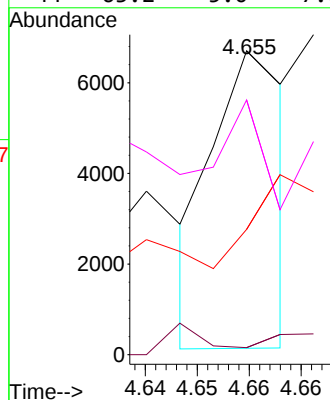
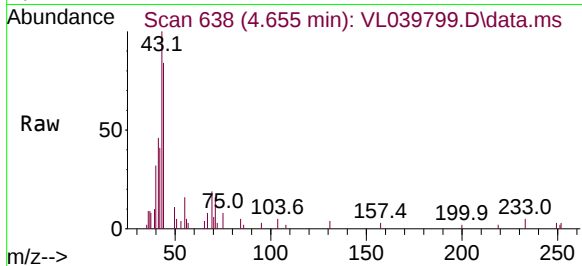




#23
 Vinyl Acetate
 Concen: 0.084 ppbv
 RT: 4.655 min Scan# 61
 Delta R.T. 0.016 min
 Lab File: VL039799.D
 Acq: 25 Oct 2022 22:37

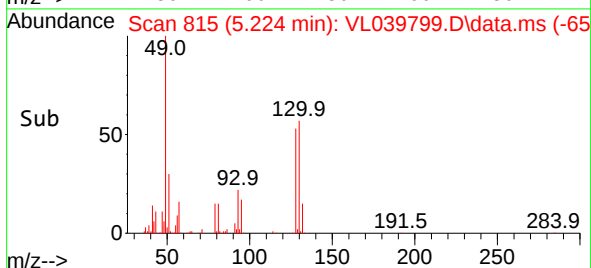
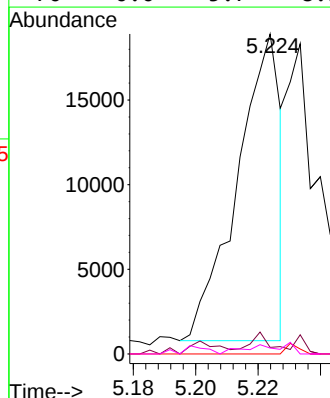
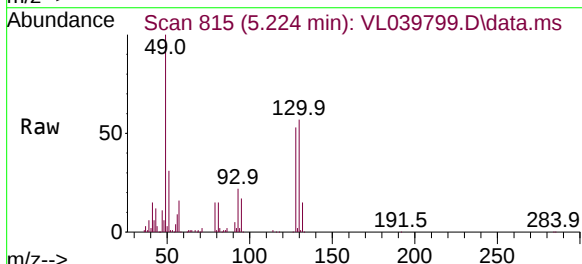
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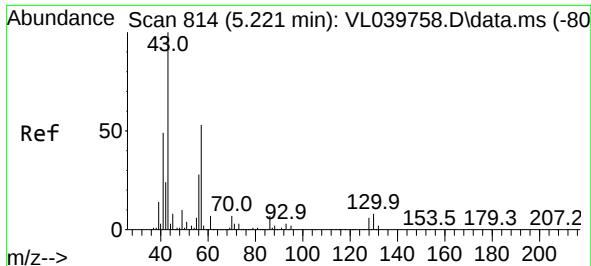
Tgt Ion:	43	Resp:	3252
Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.9	7.3#
42	12.7	7.2	10.8#
44	63.2	5.0	7.6#



#25
 Ethyl Acetate
 Concen: 0.089 ppbv
 RT: 5.224 min Scan# 815
 Delta R.T. 0.010 min
 Lab File: VL039799.D
 Acq: 25 Oct 2022 22:37

Tgt Ion:	43	Resp:	17428
Ion	Ratio	Lower	Upper
43	100		
45	8.3	8.2	12.2
61	0.0	8.2	12.4#
70	0.0	5.7	8.5#



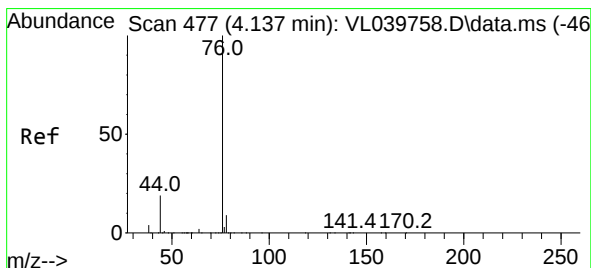
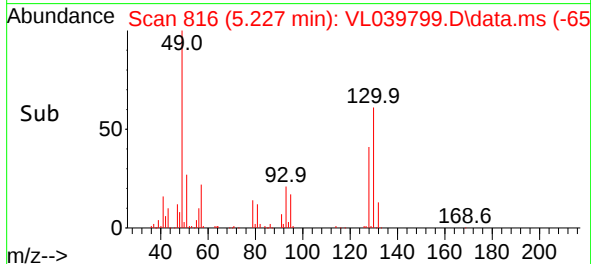
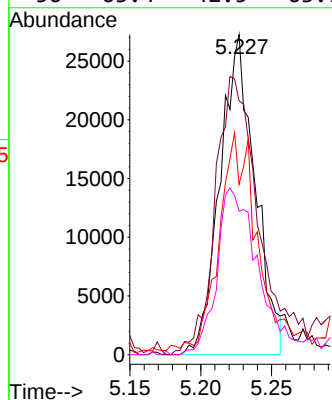
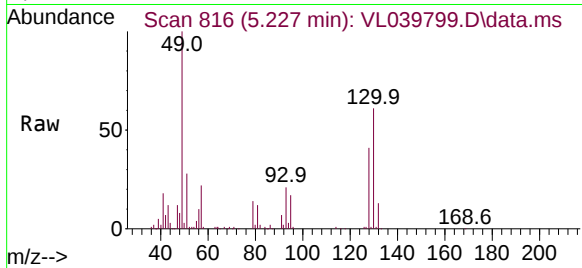


#26
Hexane
Concen: 0.575 ppbv
RT: 5.227 min Scan# 814
Delta R.T. 0.006 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

Instrument :
MSVOA_L
ClientSampleId :
HDL

Tgt Ion: 57 Resp: 46824

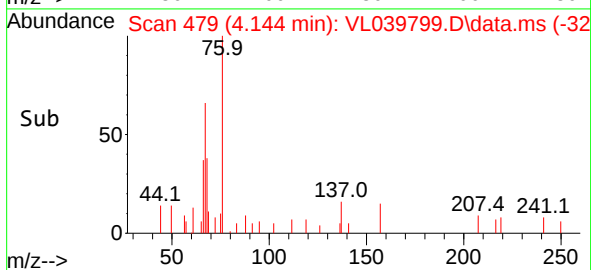
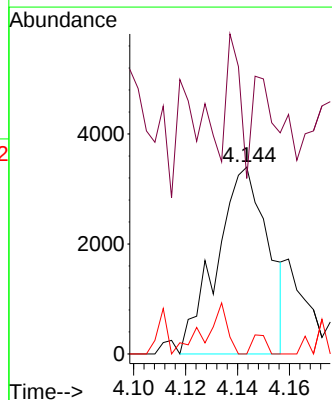
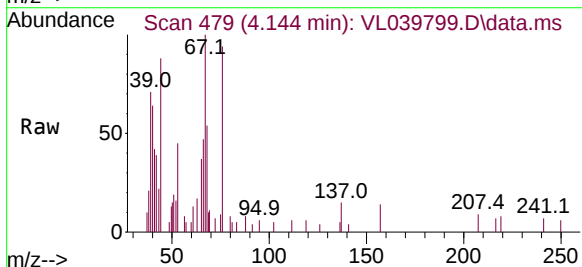
Ion	Ratio	Lower	Upper
57	100		
41	108.5	76.1	114.1
43	79.7	197.1	295.7#
56	63.4	42.5	63.7

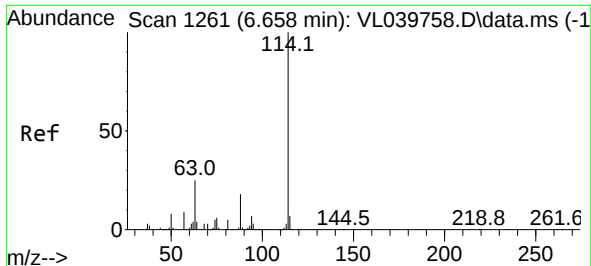


#27
Carbon Disulfide
Concen: 0.048 ppbv
RT: 4.144 min Scan# 479
Delta R.T. 0.006 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

Tgt Ion: 76 Resp: 4658

Ion	Ratio	Lower	Upper
76	100		
44	168.8	16.6	25.0#
78	18.8	7.6	11.4#

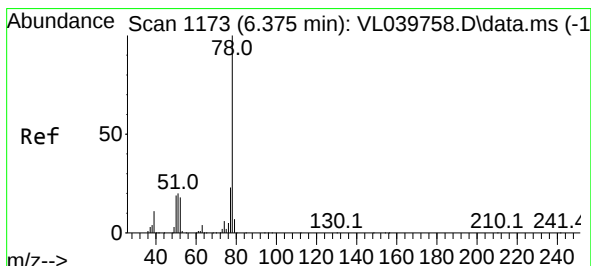
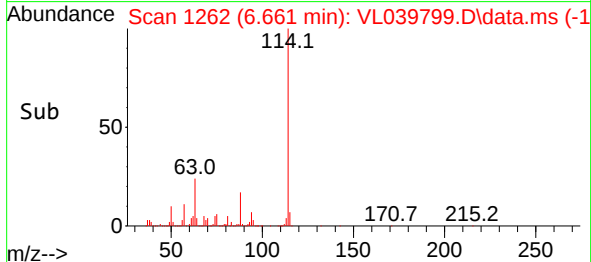
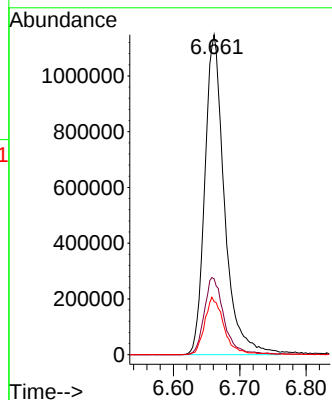
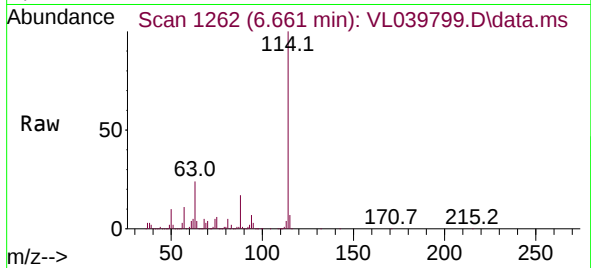




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1174
Delta R.T. 0.003 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

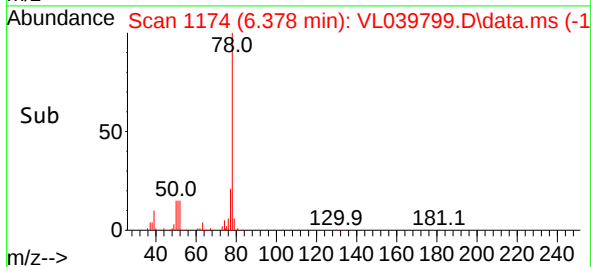
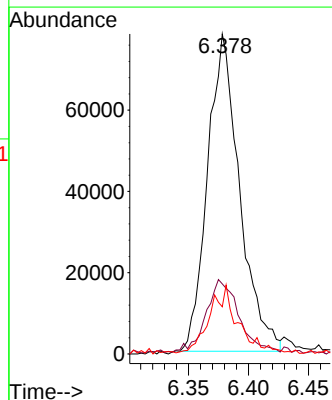
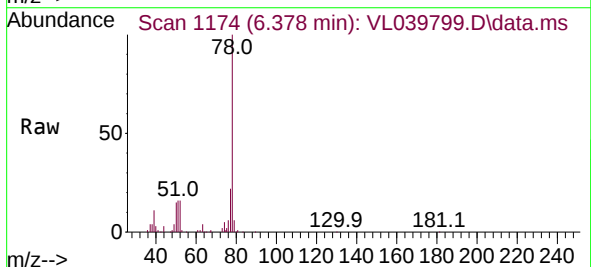
Instrument :
MSVOA_L
ClientSampleId :
HDL

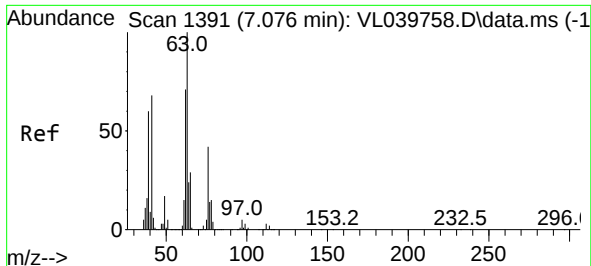
Tgt Ion:114 Resp: 2361917
Ion Ratio Lower Upper
114 100
63 24.8 20.1 30.1
88 17.9 14.5 21.7



#36
Benzene
Concen: 0.799 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. 0.003 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

Tgt Ion: 78 Resp: 145270
Ion Ratio Lower Upper
78 100
77 21.7 18.3 27.5
50 14.3 15.2 22.8#





#39

1,2-Dichloropropane

Concen: 8.011 ppbv

RT: 6.658 min Scan# 1

Delta R.T. -0.418 min

Lab File: VL039799.D

Acq: 25 Oct 2022 22:37

Instrument :

MSVOA_L

ClientSampleId :

HDL

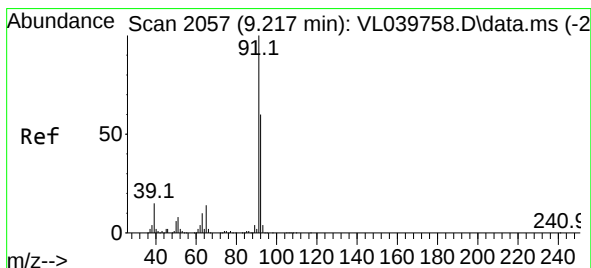
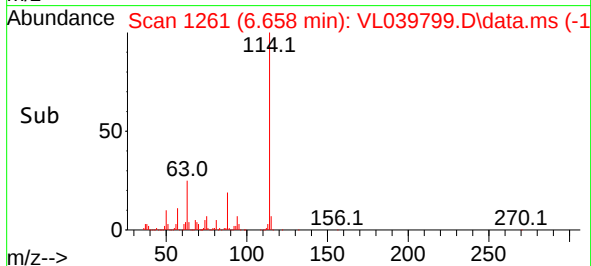
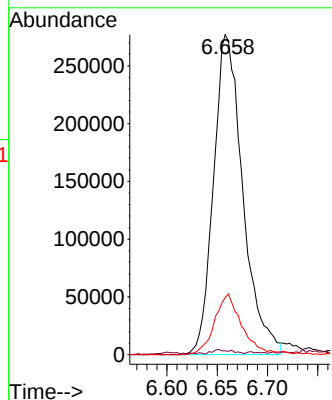
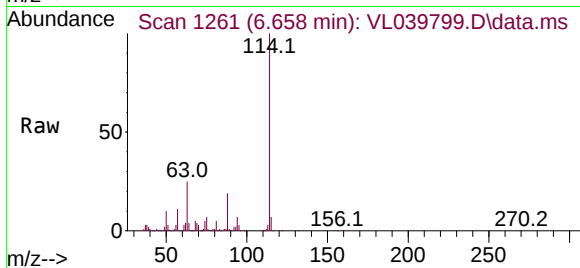
Tgt Ion: 63 Resp: 561381

Ion Ratio Lower Upper

63 100

41 0.9 54.5 81.7#

62 17.8 56.6 85.0#



#53

Toluene

Concen: 0.436 ppbv

RT: 9.224 min Scan# 2059

Delta R.T. 0.007 min

Lab File: VL039799.D

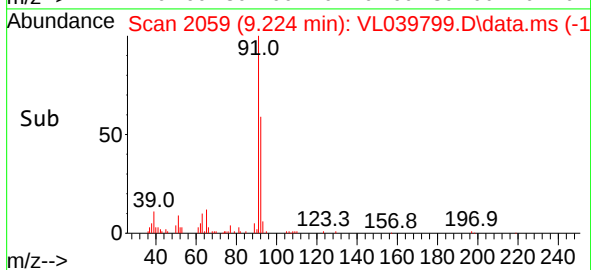
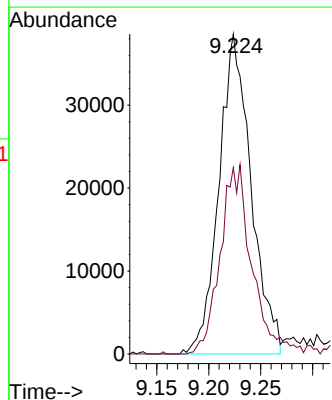
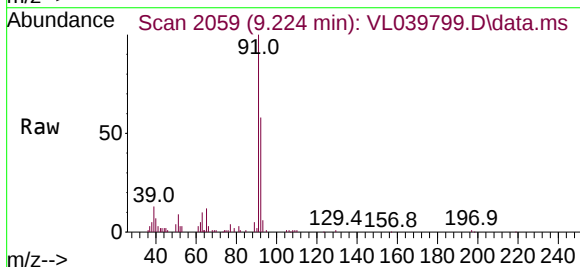
Acq: 25 Oct 2022 22:37

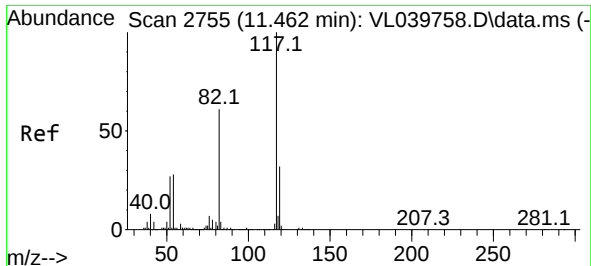
Tgt Ion: 91 Resp: 83007

Ion Ratio Lower Upper

91 100

92 58.4 48.0 72.0

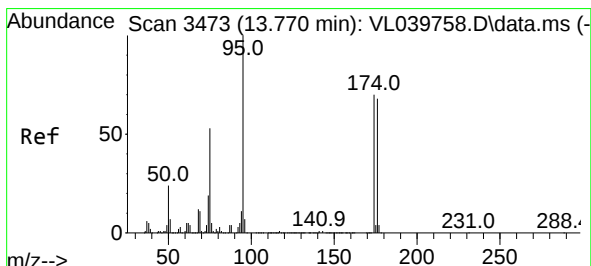
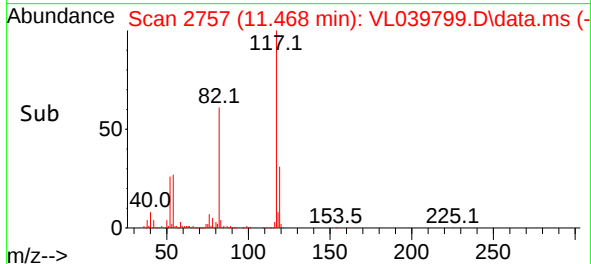
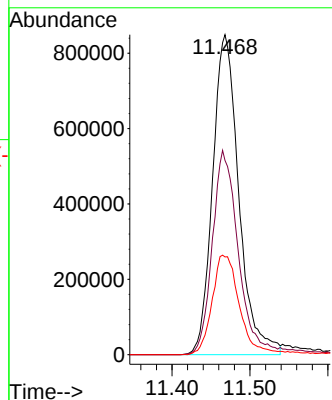
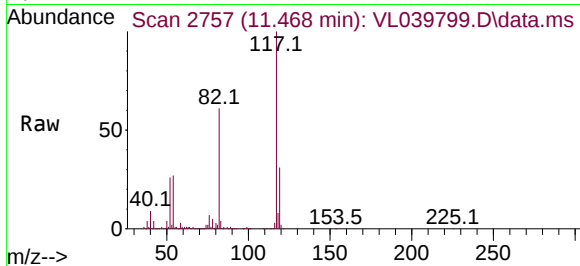




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

Instrument :
MSVOA_L
ClientSampleId :
HDL

Tgt Ion:117 Resp: 1986112
Ion Ratio Lower Upper
117 100
82 65.2 49.9 74.9
119 33.5 25.2 37.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.891 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.006 min
Lab File: VL039799.D
Acq: 25 Oct 2022 22:37

Tgt Ion: 95 Resp: 1397434
Ion Ratio Lower Upper
95 100
174 75.7 57.3 85.9
175 5.3 4.2 6.2

