

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
 Data File : VL039642.D
 Acq On : 21 Sep 2022 19:39
 Operator : SY/AP
 Sample : N4669-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 22 08:18:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Sep 19 14:26:28 2022
 Response via : Initial Calibration

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

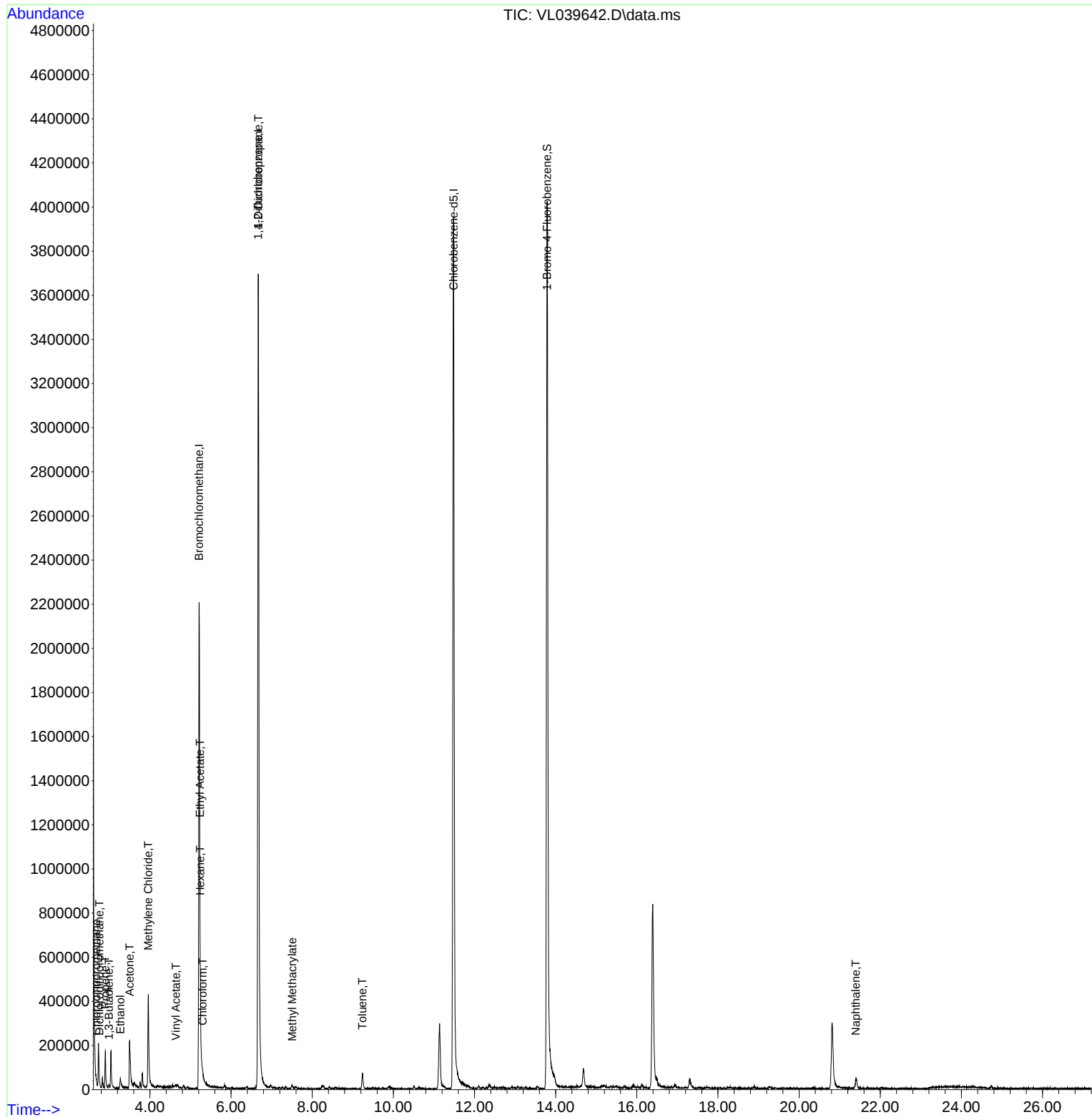
Internal Standards						
1) Bromochloromethane	5.211	49	1171172	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	3024337	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2718592	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	2007881	9.894	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.755	85	4603	0.034	ppbv	95
3) Chlorodifluoromethane	2.677	51	13865	0.100	ppbv #	68
9) Propene	2.896	41	45304	0.714	ppbv	89
13) Ethanol	3.269	45	20305	4.198	ppbv #	23
15) Acetone	3.500	43	254819	1.955	ppbv	95
16) 1,3-Butadiene	2.989	39	2046	0.031	ppbv #	10
20) Methylene Chloride	3.957	84	155426	2.580	ppbv	93
23) Vinyl Acetate	4.639	43	3326	0.056	ppbv #	45
25) Ethyl Acetate	5.230	43	17720	0.062	ppbv #	86
26) Hexane	5.237	57	46565	0.386	ppbv #	43
29) Chloroform	5.298	83	5725	0.033	ppbv #	72
39) 1,2-Dichloropropane	6.671	63	747220	8.369	ppbv #	25
43) Methyl Methacrylate	7.507	69	4064	0.048	ppbv #	55
53) Toluene	9.237	91	47449	0.185	ppbv	90
79) Naphthalene	21.397	128	18669	0.091	ppbv	95

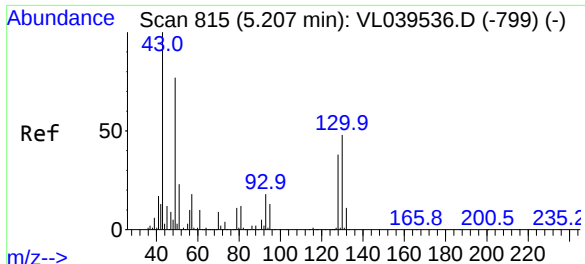
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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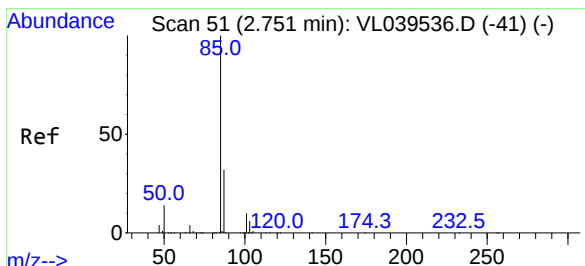
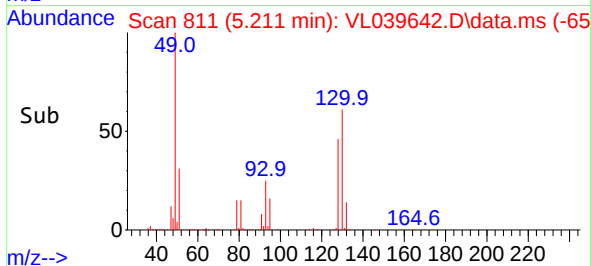
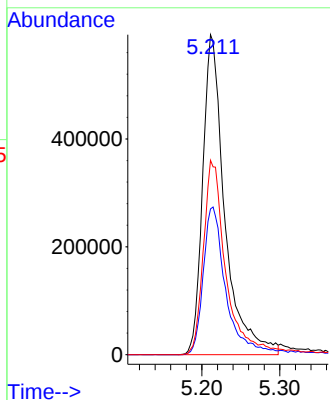
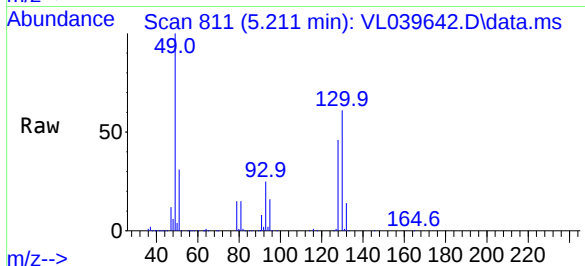




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

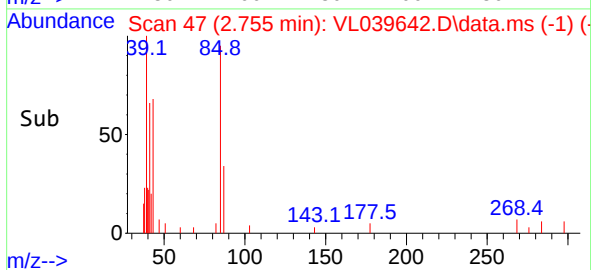
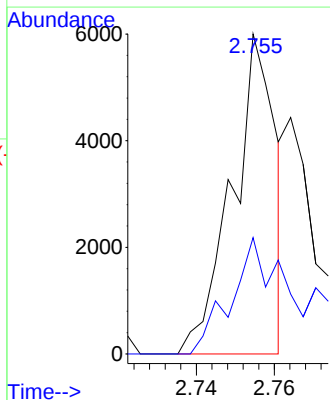
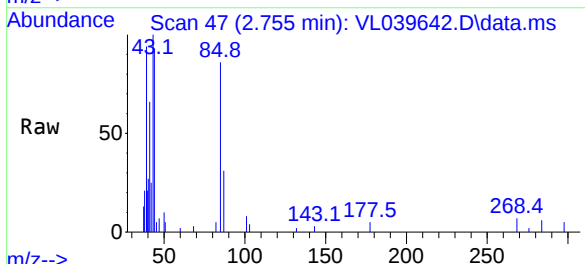
Instrument :
MSVOA_L
ClientSampleId :

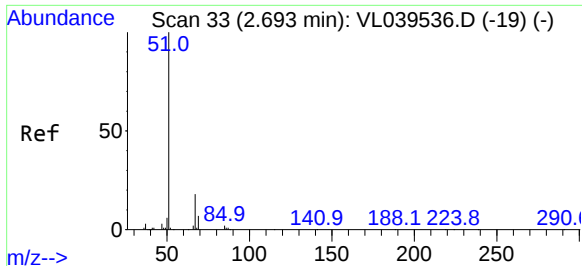
Tgt Ion: 49 Resp: 1171172
Ion Ratio Lower Upper
49 100
128 48.6 26.7 80.0
130 64.4 34.3 102.8



#2
Dichlorodifluoromethane
Concen: 0.034 ppbv
RT: 2.755 min Scan# 47
Delta R.T. 0.004 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

Tgt Ion: 85 Resp: 4603
Ion Ratio Lower Upper
85 100
87 36.4 26.7 40.1

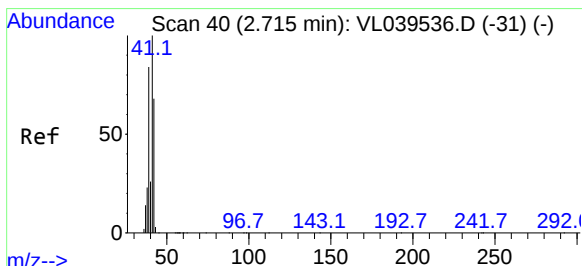
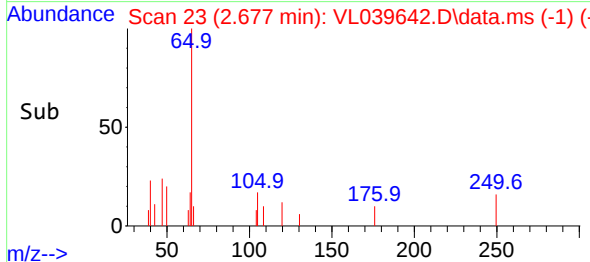
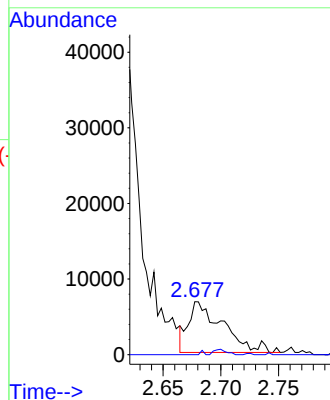
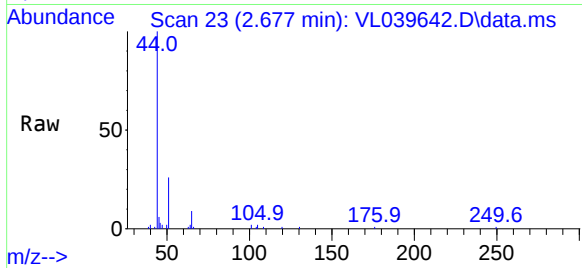




#3
Chlorodifluoromethane
Concen: 0.100 ppbv
RT: 2.677 min Scan# 21
Delta R.T. -0.015 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

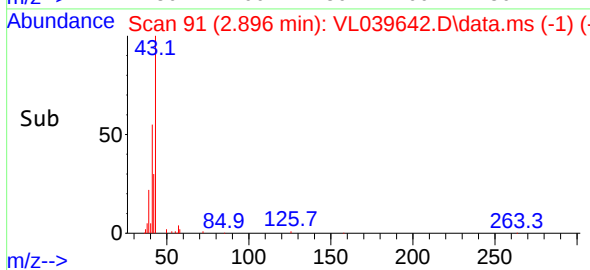
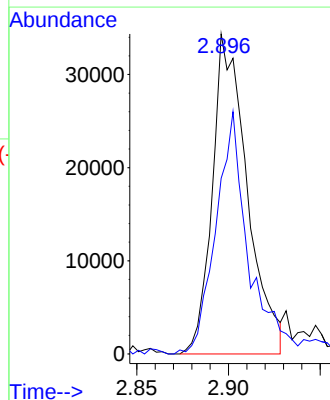
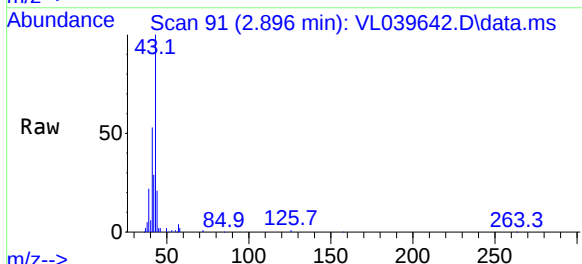
Instrument :
MSVOA_L
ClientSampleId :

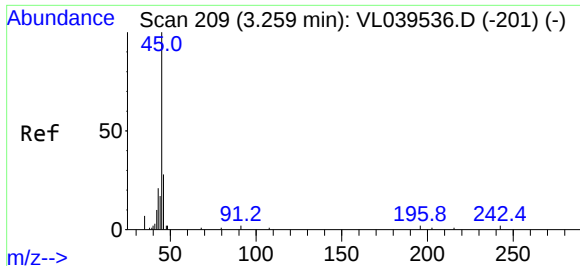
Tgt Ion: 51 Resp: 13865
Ion Ratio Lower Upper
51 100
67 5.1 15.7 23.5#



#9
Propene
Concen: 0.714 ppbv
RT: 2.896 min Scan# 91
Delta R.T. 0.181 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

Tgt Ion: 41 Resp: 45304
Ion Ratio Lower Upper
41 100
42 78.2 55.2 82.8





#13

Ethanol

Concen: 4.198 ppbv

RT: 3.269 min Scan# 209

Delta R.T. 0.010 min

Lab File: VL039642.D

Acq: 21 Sep 2022 19:39

Instrument :

MSVOA_L

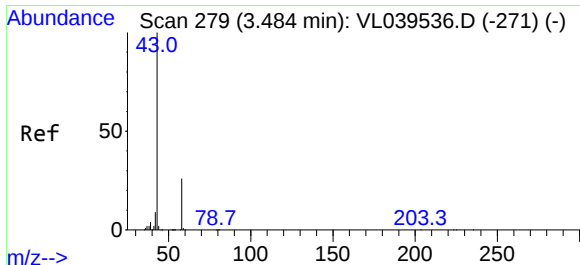
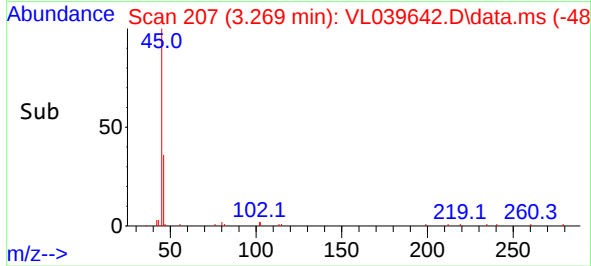
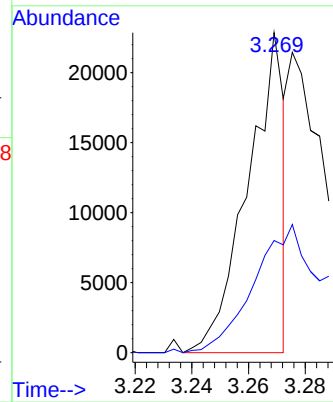
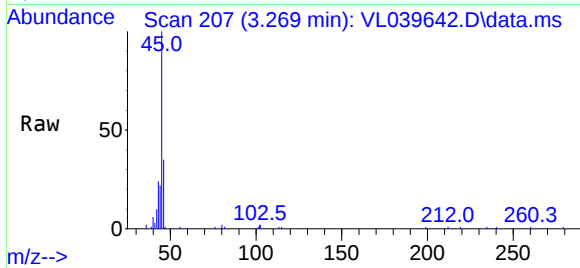
ClientSampleId :

Tgt Ion: 45 Resp: 20305

Ion Ratio Lower Upper

45 100

46 0.0 22.8 91.2#



#15

Acetone

Concen: 1.955 ppbv

RT: 3.500 min Scan# 279

Delta R.T. 0.017 min

Lab File: VL039642.D

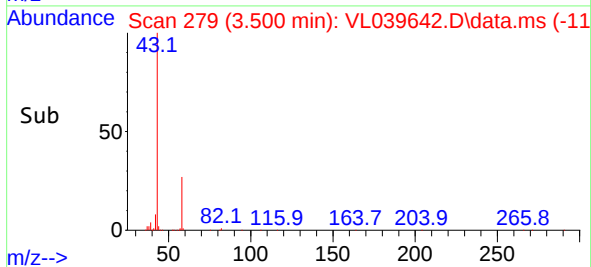
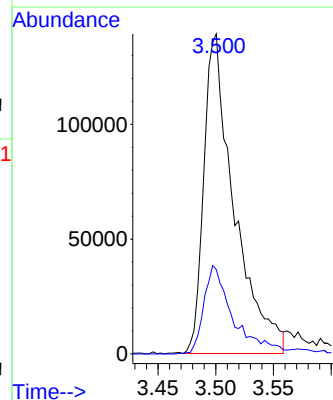
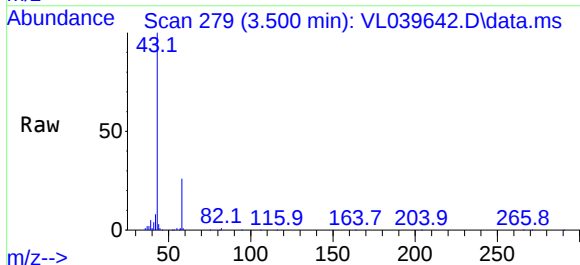
Acq: 21 Sep 2022 19:39

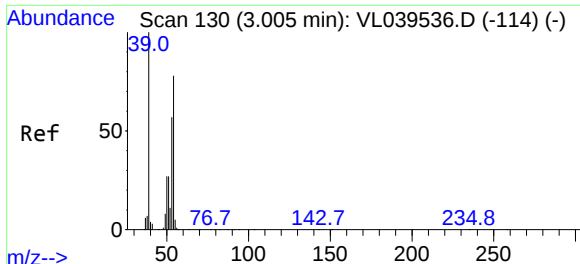
Tgt Ion: 43 Resp: 254819

Ion Ratio Lower Upper

43 100

58 28.9 21.0 31.6

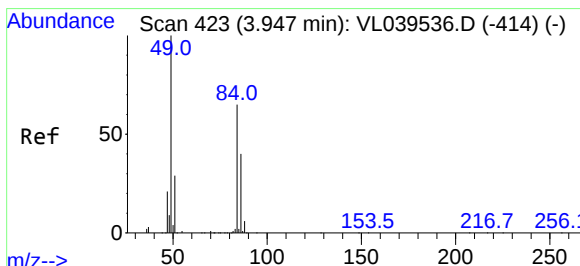
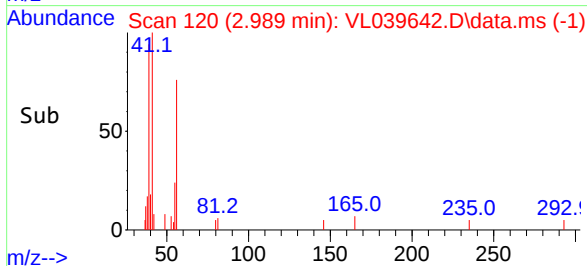
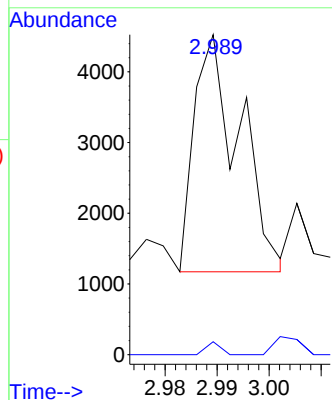
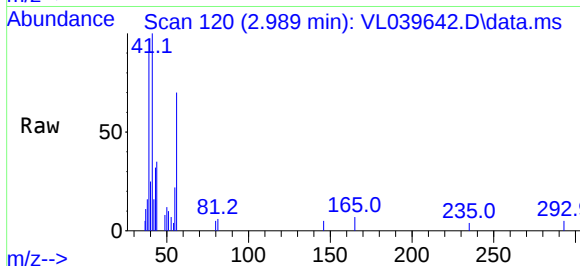




#16
1,3-Butadiene
Concen: 0.031 ppbv
RT: 2.989 min Scan# 11
Delta R.T. -0.015 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

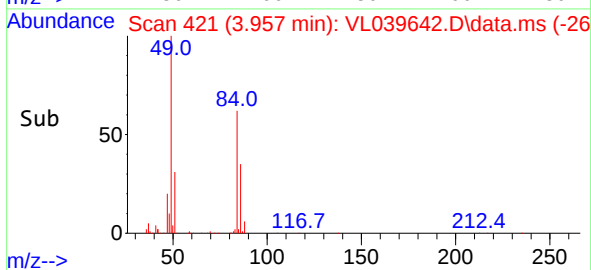
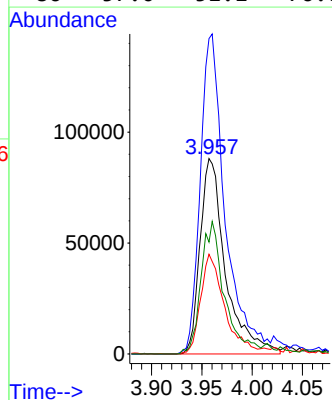
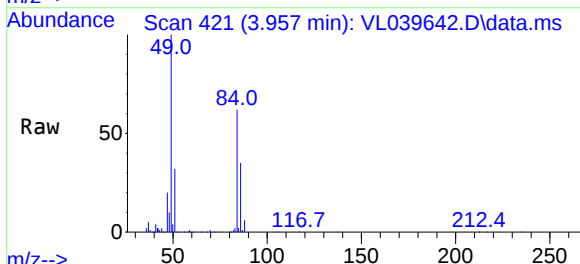
Instrument :
MSVOA_L
ClientSampleId :

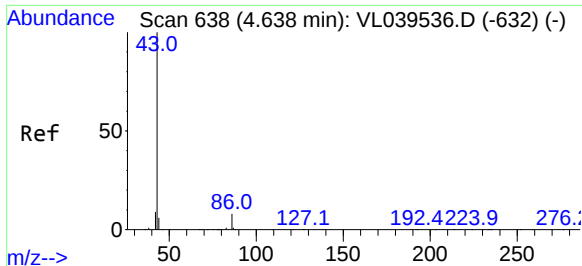
Tgt Ion: 39 Resp: 2046
Ion Ratio Lower Upper
39 100
54 0.0 63.7 95.5#



#20
Methylene Chloride
Concen: 2.580 ppbv
RT: 3.957 min Scan# 421
Delta R.T. 0.010 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

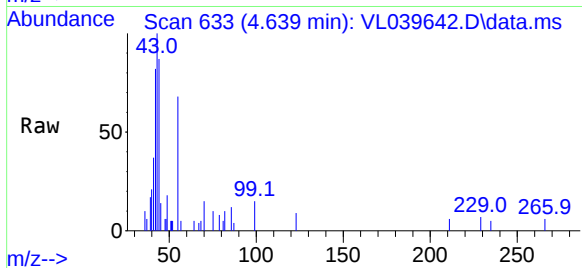
Tgt Ion: 84 Resp: 155426
Ion Ratio Lower Upper
84 100
49 160.7 123.1 184.7
51 50.8 34.4 51.6
86 57.0 51.1 76.7





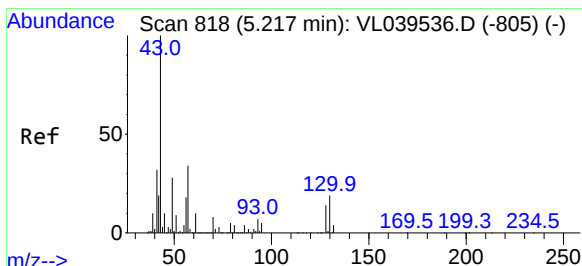
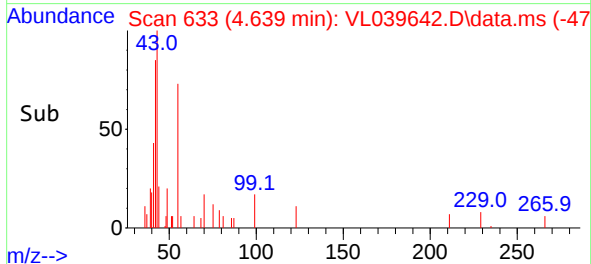
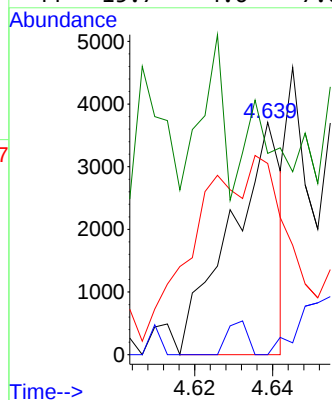
#23
 Vinyl Acetate
 Concen: 0.056 ppbv
 RT: 4.639 min Scan# 61
 Delta R.T. 0.001 min
 Lab File: VL039642.D
 Acq: 21 Sep 2022 19:39

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 43 Resp: 3326

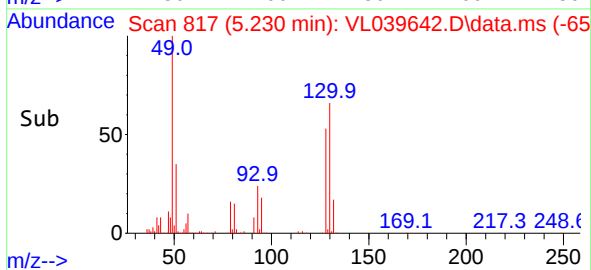
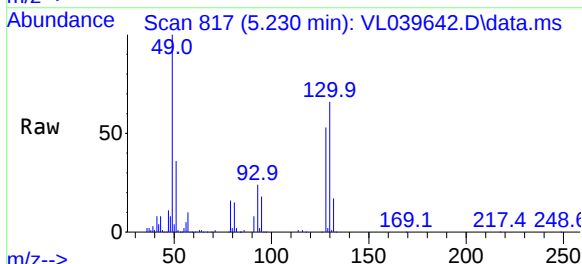
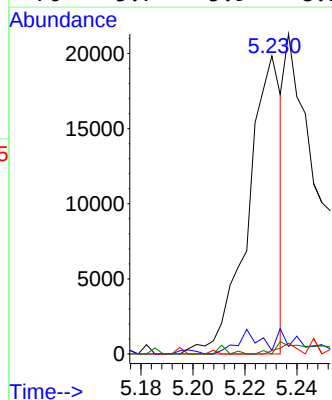
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.6#
42	44.3	7.7	11.5#
44	15.7	4.6	7.0#

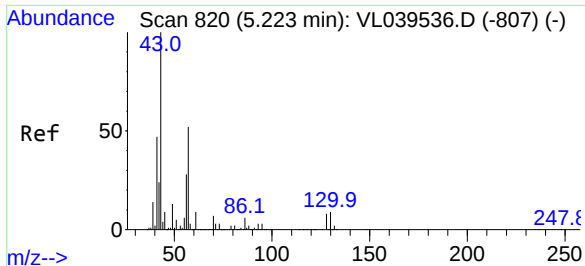


#25
 Ethyl Acetate
 Concen: 0.062 ppbv
 RT: 5.230 min Scan# 817
 Delta R.T. 0.013 min
 Lab File: VL039642.D
 Acq: 21 Sep 2022 19:39

Tgt Ion: 43 Resp: 17720

Ion	Ratio	Lower	Upper
43	100		
45	13.3	8.2	12.4#
61	0.0	8.3	12.5#
70	5.7	5.9	8.9#

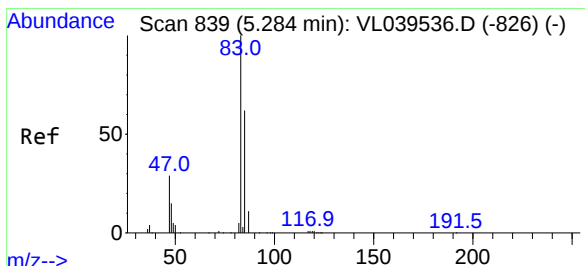
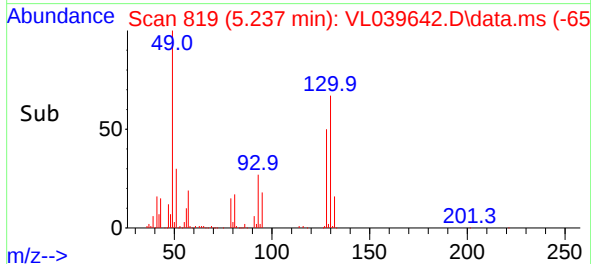
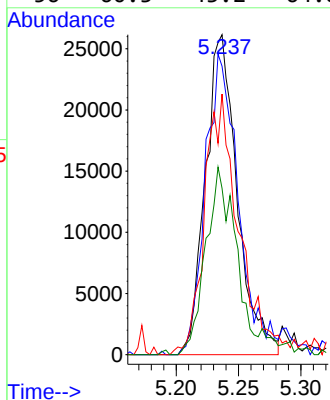
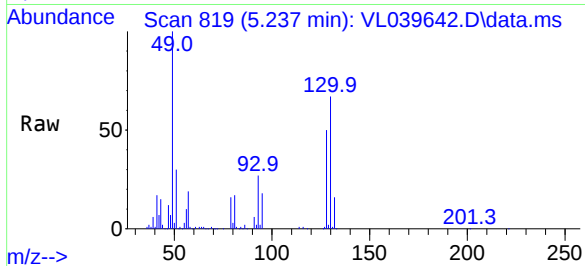




#26
Hexane
Concen: 0.386 ppbv
RT: 5.237 min Scan# 819
Delta R.T. 0.013 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

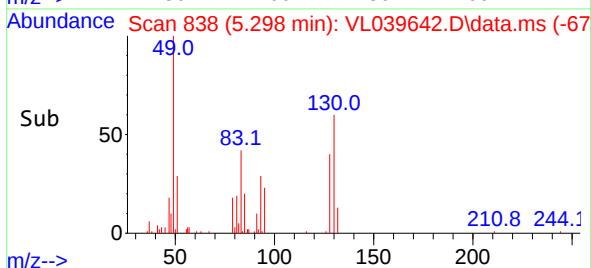
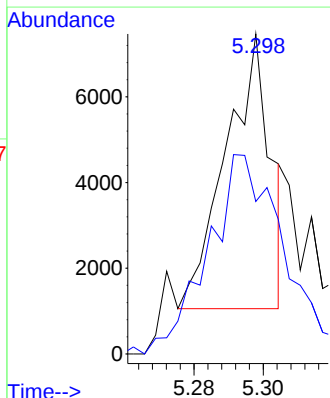
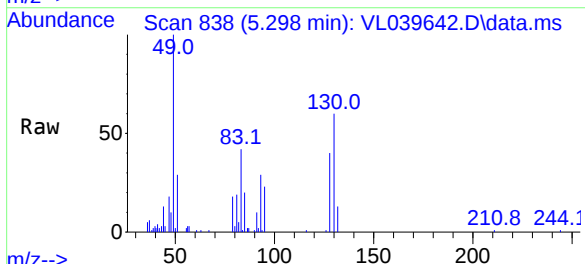
Instrument :
MSVOA_L
ClientSampleId :

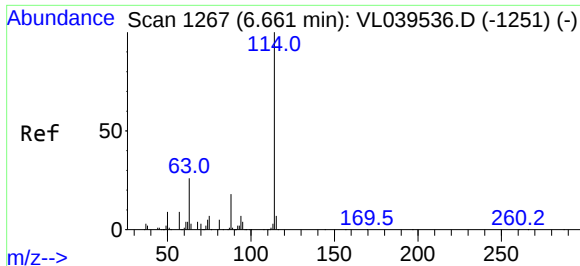
Tgt Ion:	57	Resp:	46565
Ion	Ratio	Lower	Upper
57	100		
41	101.8	76.9	115.3
43	90.3	191.0	286.6#
56	60.3	43.2	64.8



#29
Chloroform
Concen: 0.033 ppbv
RT: 5.298 min Scan# 838
Delta R.T. 0.013 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

Tgt Ion:	83	Resp:	5725
Ion	Ratio	Lower	Upper
83	100		
85	43.5	52.8	79.2#

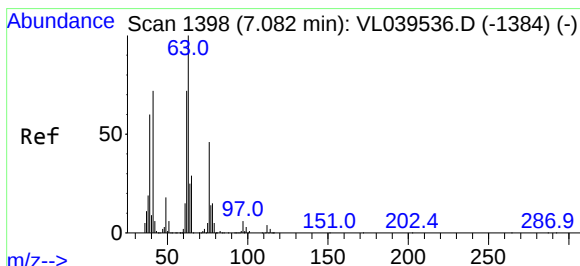
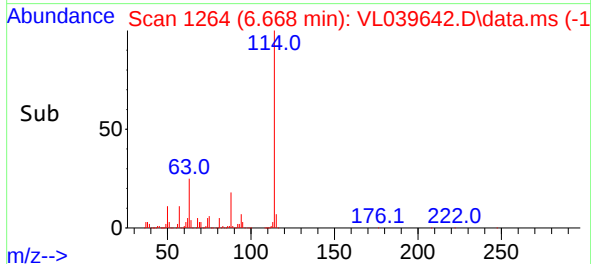
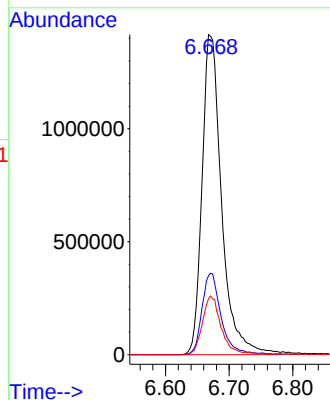
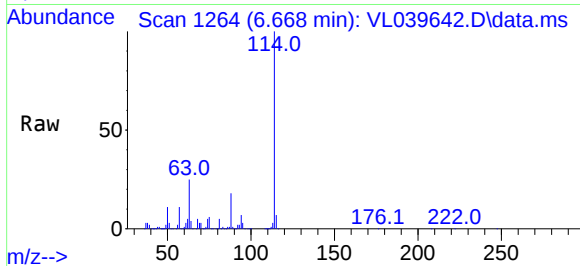




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.668 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

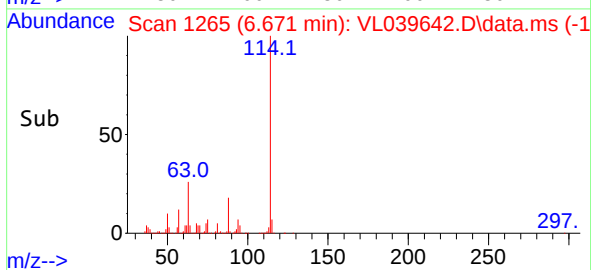
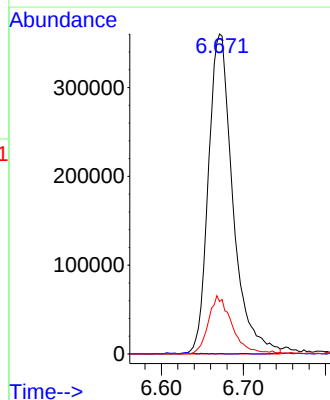
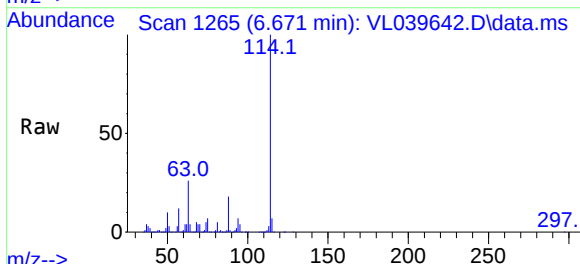
Instrument :
MSVOA_L
ClientSampleId :

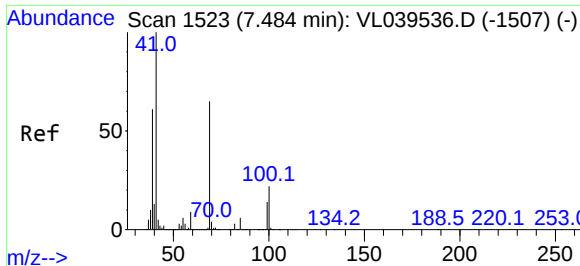
Tgt Ion:114 Resp: 3024337
Ion Ratio Lower Upper
114 100
63 25.3 20.2 30.4
88 17.7 14.5 21.7



#39
1,2-Dichloropropane
Concen: 8.369 ppbv
RT: 6.671 min Scan# 1265
Delta R.T. -0.411 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

Tgt Ion: 63 Resp: 747220
Ion Ratio Lower Upper
63 100
41 0.0 59.6 89.4#
62 16.4 51.4 77.0#





#43

Methyl Methacrylate

Concen: 0.048 ppbv

RT: 7.507 min Scan# 11

Delta R.T. 0.023 min

Lab File: VL039642.D

Acq: 21 Sep 2022 19:39

Instrument :

MSVOA_L

ClientSampleId :

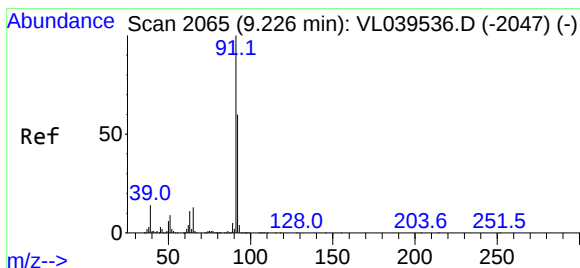
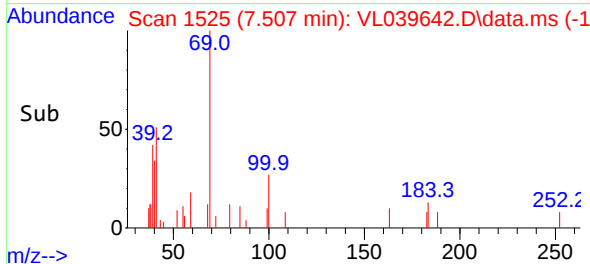
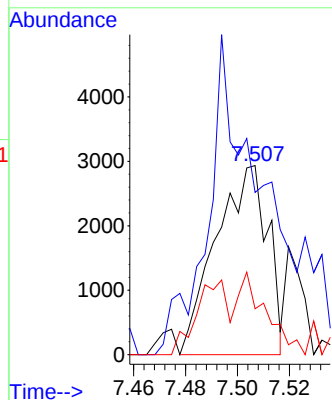
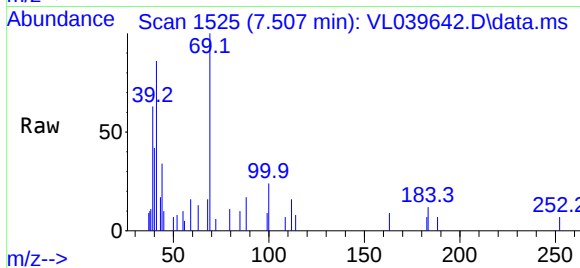
Tgt Ion: 69 Resp: 4064

Ion Ratio Lower Upper

69 100

41 213.5 120.8 181.2#

100 51.4 27.8 41.6#



#53

Toluene

Concen: 0.185 ppbv

RT: 9.237 min Scan# 2063

Delta R.T. 0.010 min

Lab File: VL039642.D

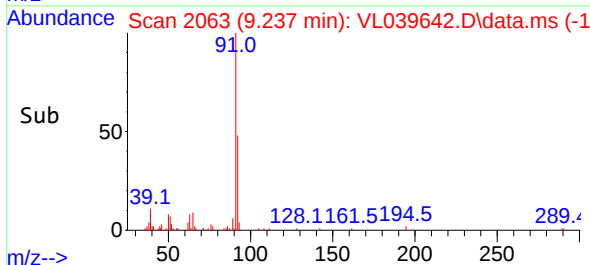
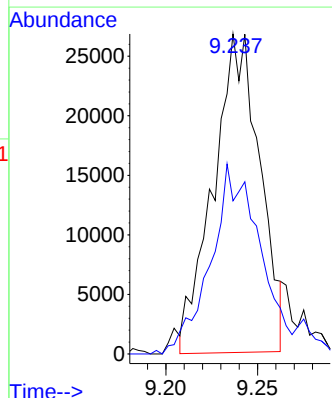
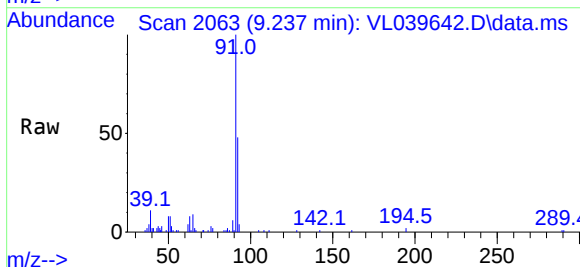
Acq: 21 Sep 2022 19:39

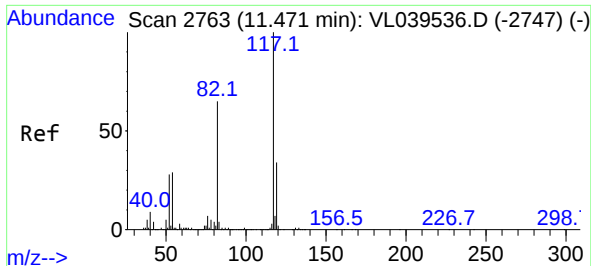
Tgt Ion: 91 Resp: 47449

Ion Ratio Lower Upper

91 100

92 67.4 48.2 72.2

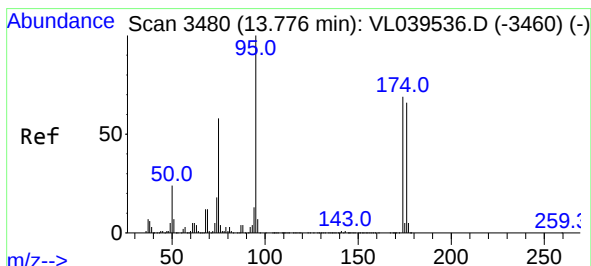
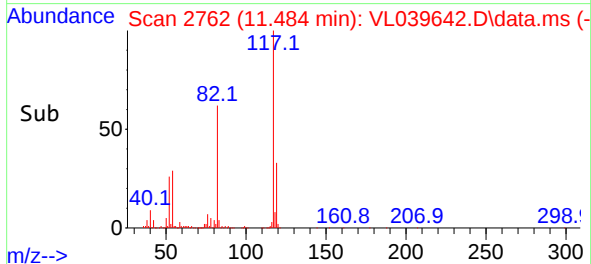
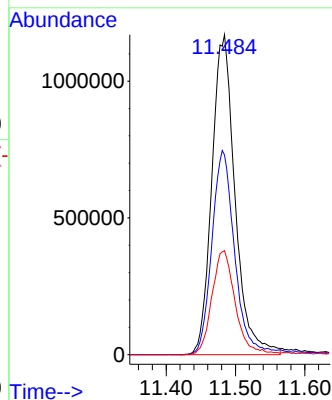
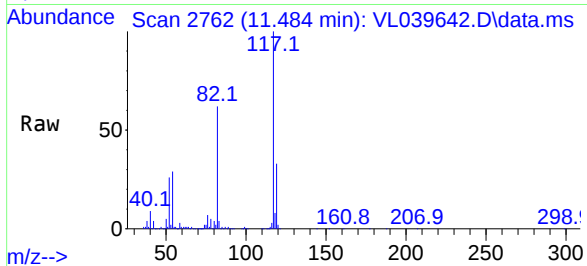




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

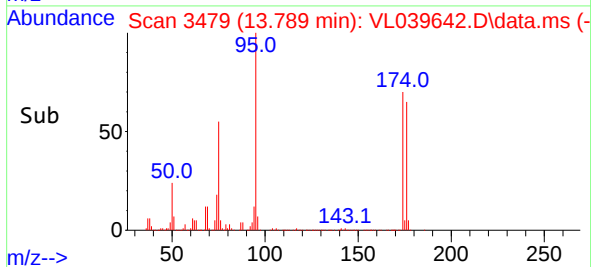
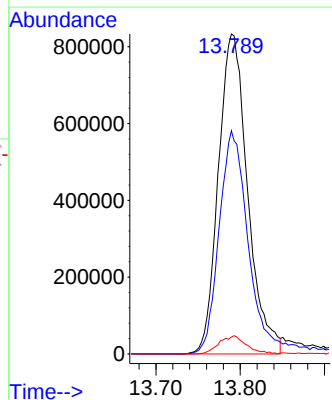
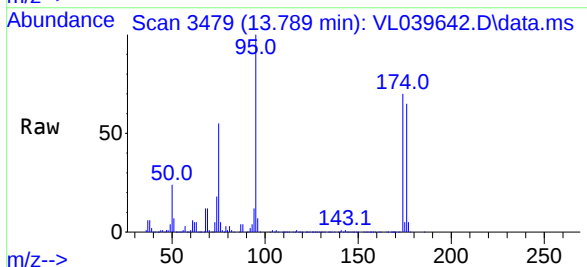
Instrument :
MSVOA_L
ClientSampleId :

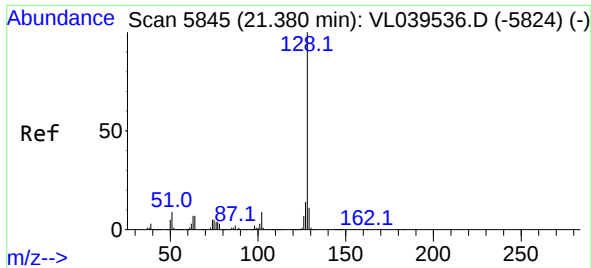
Tgt Ion:117 Resp: 2718592
Ion Ratio Lower Upper
117 100
82 64.4 50.8 76.2
119 33.5 24.1 36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.894 ppbv
RT: 13.789 min Scan# 3479
Delta R.T. 0.013 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

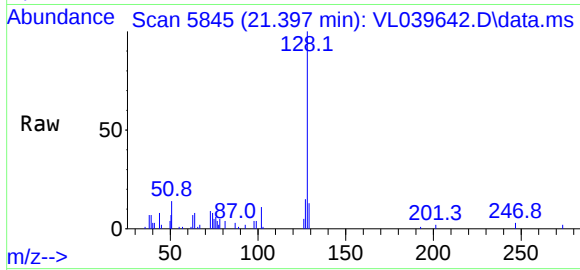
Tgt Ion: 95 Resp: 2007881
Ion Ratio Lower Upper
95 100
174 73.8 55.9 83.9
175 5.7 4.2 6.4





#79
Naphthalene
Concen: 0.091 ppbv
RT: 21.397 min Scan# 51
Delta R.T. 0.017 min
Lab File: VL039642.D
Acq: 21 Sep 2022 19:39

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:128 Resp: 18669

Ion	Ratio	Lower	Upper
128	100		
127	15.2	10.6	15.8
129	12.5	8.8	13.2

