

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081822\
 Data File : VL039562.D
 Acq On : 18 Aug 2022 17:01
 Operator : SY/AP
 Sample : N4526-01 TEST
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 19 03:03:23 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 17 12:06:24 2022
 QLast Update : Wed Aug 17 12:06:24 2022
 Response via : Initial Calibration

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

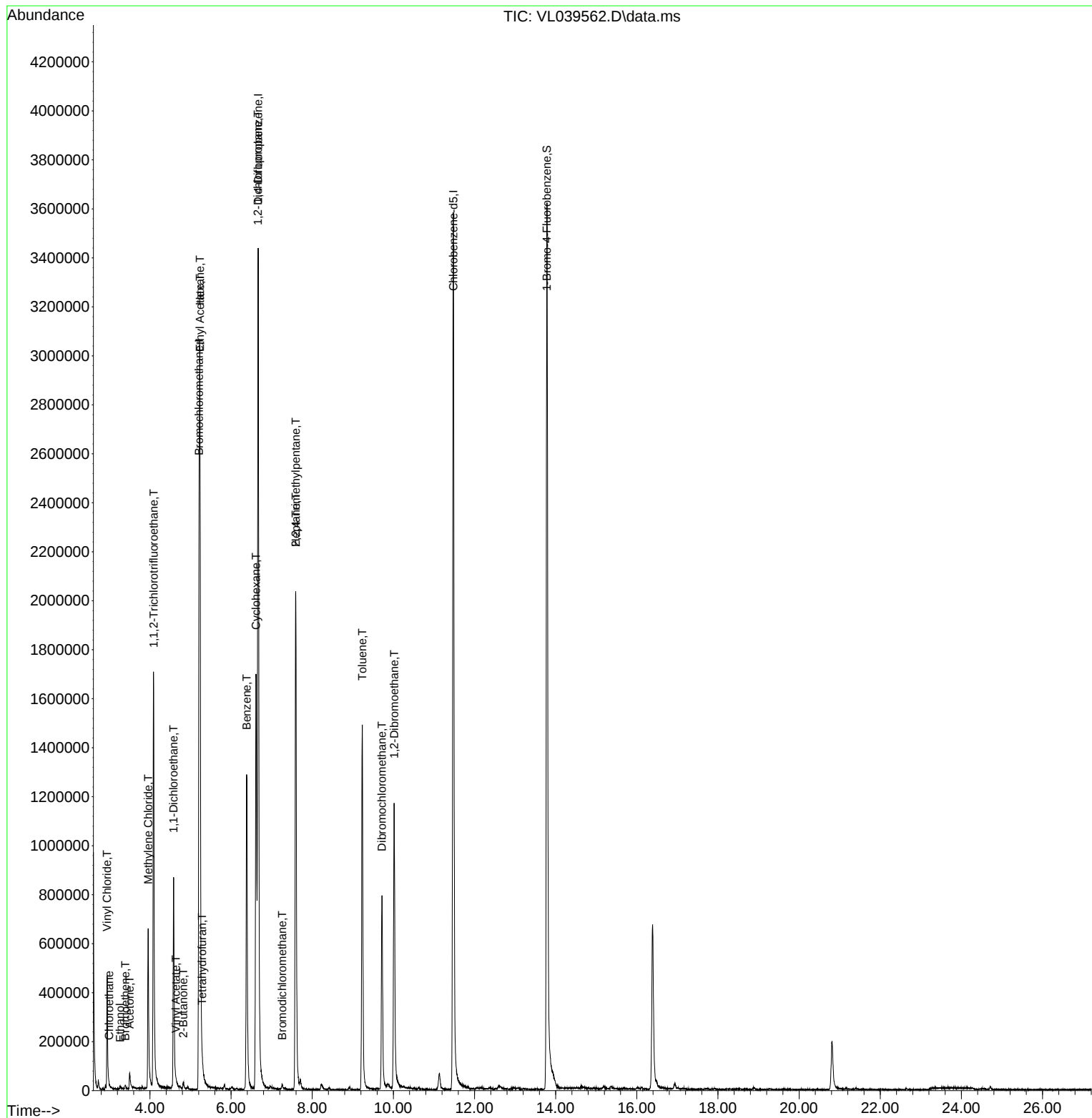
Internal Standards						
1) Bromochloromethane	5.211	49	1037368	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2682195	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2404817	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1782081	9.844	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	2.944	62	405155	6.320	ppbv	93
7) Chloroethane	2.999	64	3478	0.152	ppbv #	43
10) Heptane	7.594	43	974434	7.407	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.092	101	639899	5.656	ppbv	99
13) Ethanol	3.266	45	5310	1.303	ppbv	98
14) Bromoethene	3.391	108	7762	0.168	ppbv #	91
15) Acetone	3.501	43	67726	0.578	ppbv #	83
20) Methylene Chloride	3.957	84	244564	5.125	ppbv	97
23) Vinyl Acetate	4.639	43	4353	0.074	ppbv #	69
24) 1,1-Dichloroethane	4.584	63	781830	7.539	ppbv	99
25) Ethyl Acetate	5.234	43	726098	2.906	ppbv #	75
26) Hexane	5.230	57	1021895	9.972	ppbv #	36
30) Cyclohexane	6.616	84	609196	7.159	ppbv #	100
34) 2-Butanone	4.822	43	15614	0.116	ppbv #	21
36) Benzene	6.385	78	1105819	5.409	ppbv	99
39) 1,2-Dichloropropane	6.664	63	644098	8.407	ppbv #	26
41) Tetrahydrofuran	5.285	42	6542	0.082	ppbv #	39
42) Bromodichloromethane	7.259	83	9266	0.060	ppbv #	77
44) 2,2,4-Trimethylpentane	7.594	57	477227	1.386	ppbv #	1
48) Dibromochloromethane	9.719	129	507330	3.887	ppbv	99
53) Toluene	9.233	91	1194041	5.213	ppbv	98
54) 1,2-Dibromoethane	10.018	107	1009882	10.084	ppbv	98

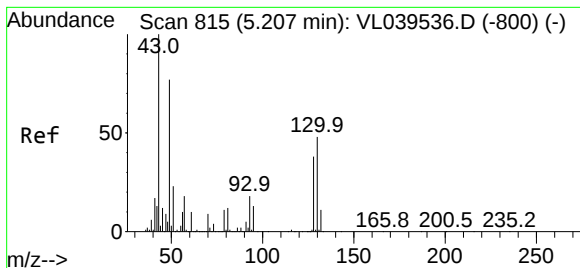
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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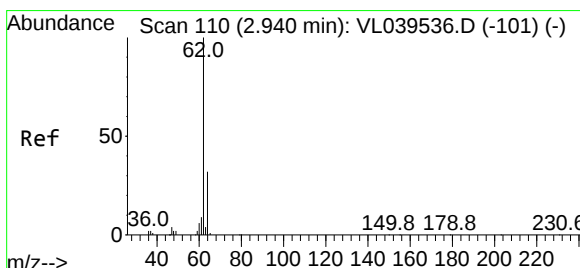
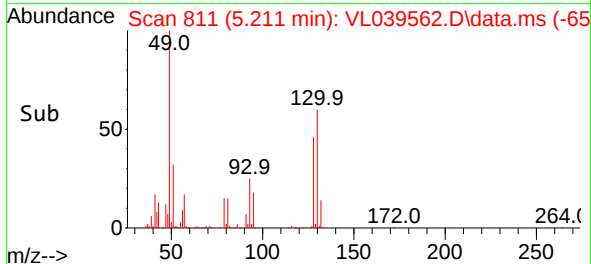
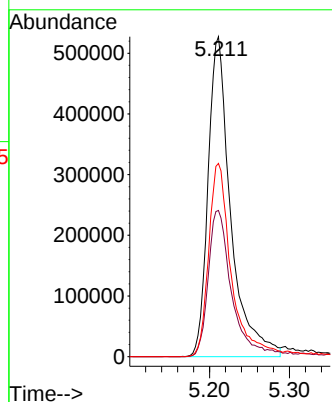
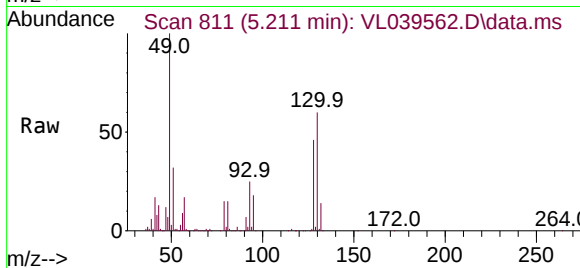




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

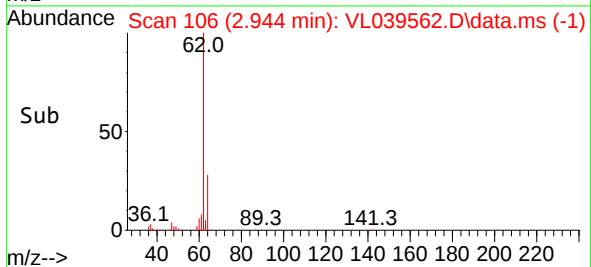
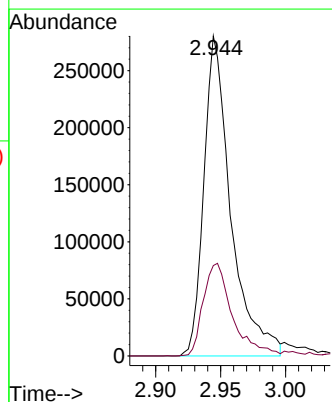
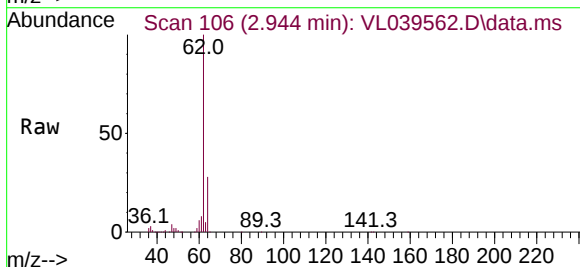
Instrument :
MSVOA_L
ClientSampleId :

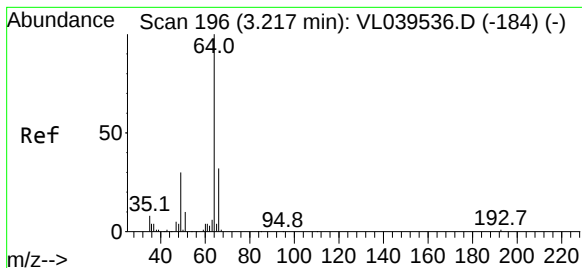
Tgt Ion: 49 Resp: 1037368
Ion Ratio Lower Upper
49 100
128 49.0 25.7 77.0
130 62.9 31.6 95.0



#5
Vinyl Chloride
Concen: 6.320 ppbv
RT: 2.944 min Scan# 106
Delta R.T. 0.004 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

Tgt Ion: 62 Resp: 405155
Ion Ratio Lower Upper
62 100
64 28.2 25.5 38.3

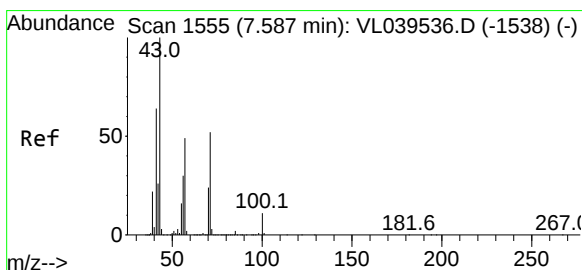
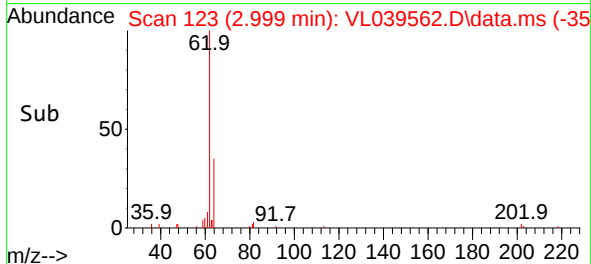
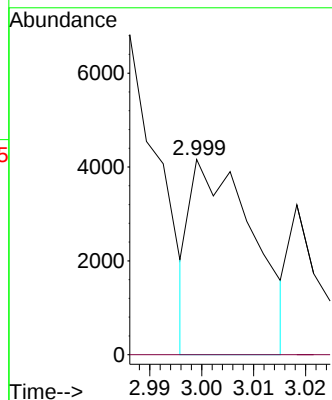
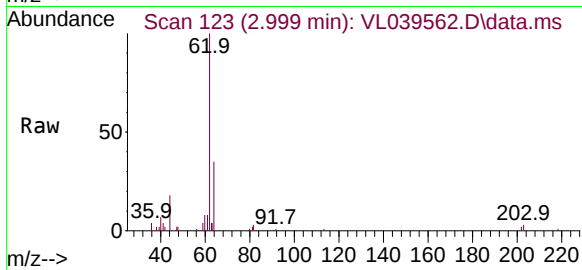




#7
Chloroethane
Concen: 0.152 ppbv
RT: 2.999 min Scan# 11
Delta R.T. -0.218 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

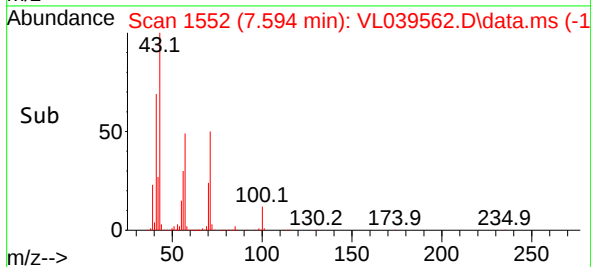
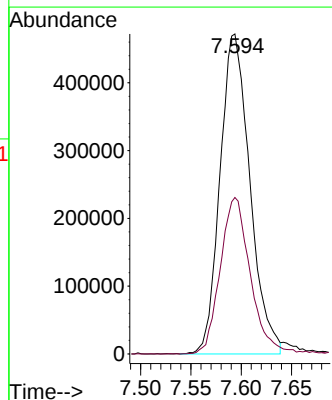
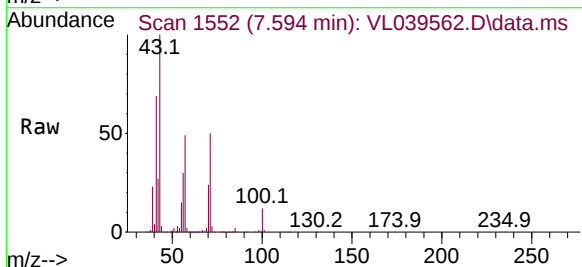
Instrument :
MSVOA_L
ClientSampleId :

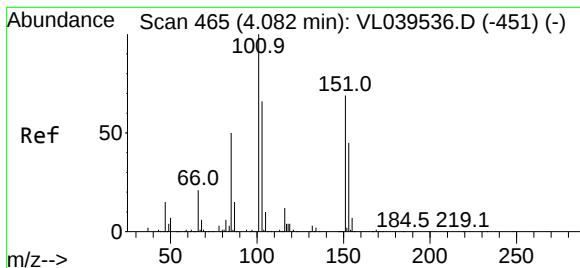
Tgt Ion: 64 Resp: 3478
Ion Ratio Lower Upper
64 100
66 0.0 25.6 38.4#



#10
Heptane
Concen: 7.407 ppbv
RT: 7.594 min Scan# 1552
Delta R.T. 0.007 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

Tgt Ion: 43 Resp: 974434
Ion Ratio Lower Upper
43 100
57 49.9 39.8 59.6

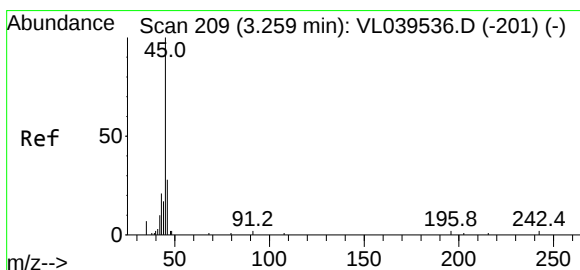
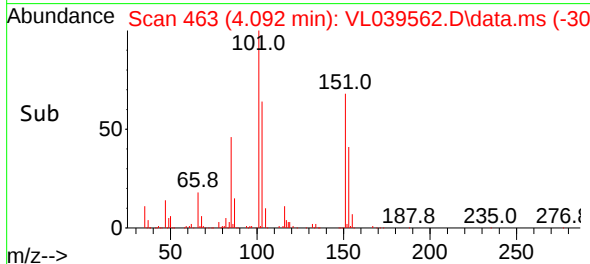
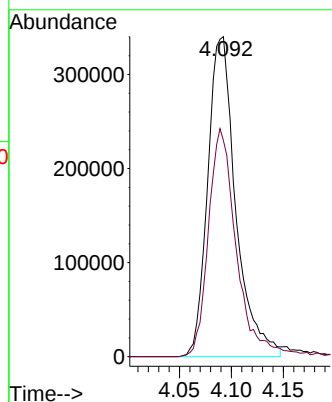
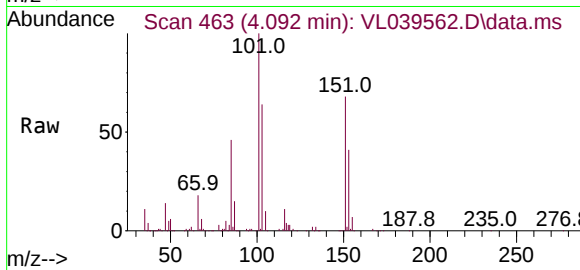




#12
1,1,2-Trichlorotrifluoroethane
Concen: 5.656 ppbv
RT: 4.092 min Scan# 40
Delta R.T. 0.010 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

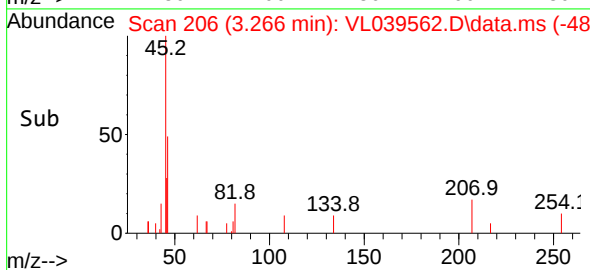
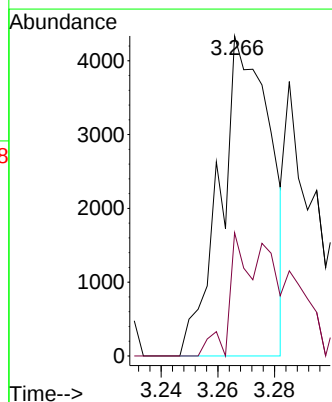
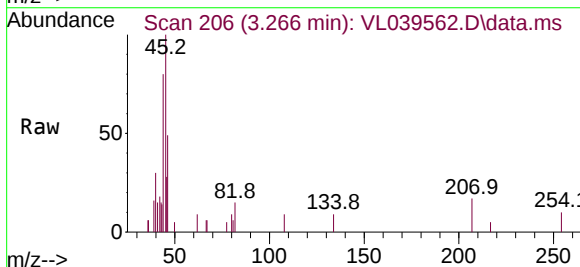
Instrument :
MSVOA_L
ClientSampleId :

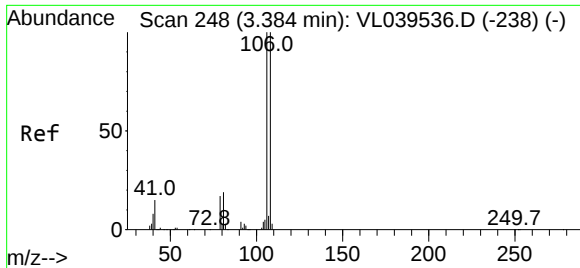
Tgt Ion:101 Resp: 639899
Ion Ratio Lower Upper
101 100
151 72.1 58.6 87.8



#13
Ethanol
Concen: 1.303 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.007 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

Tgt Ion: 45 Resp: 5310
Ion Ratio Lower Upper
45 100
46 49.9 19.3 77.1

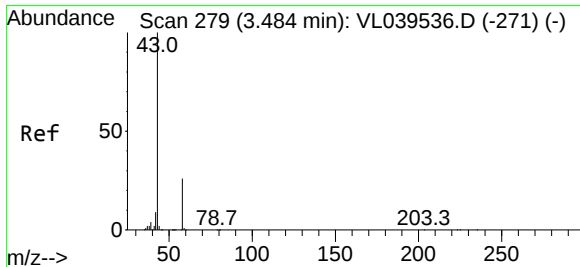
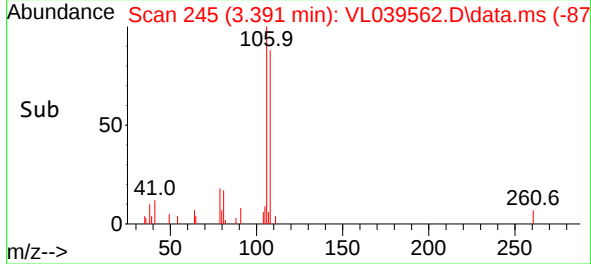
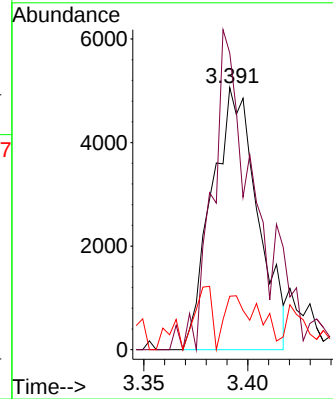
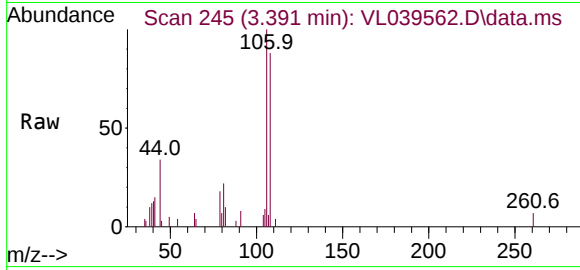




#14
Bromoethene
Concen: 0.168 ppbv
RT: 3.391 min Scan# 248
Delta R.T. 0.007 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

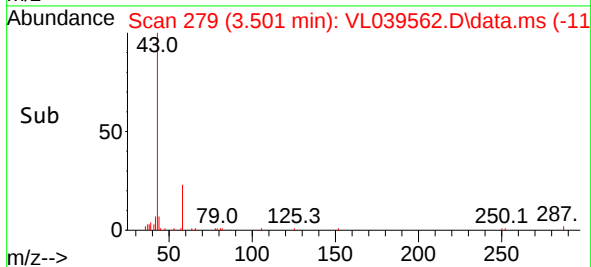
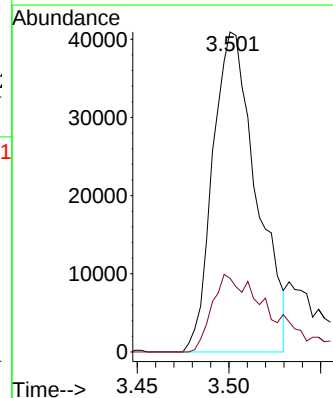
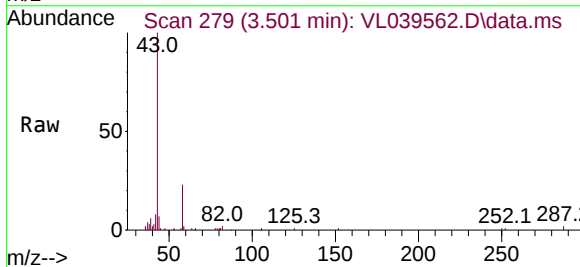
Instrument :
MSVOA_L
ClientSampleId :

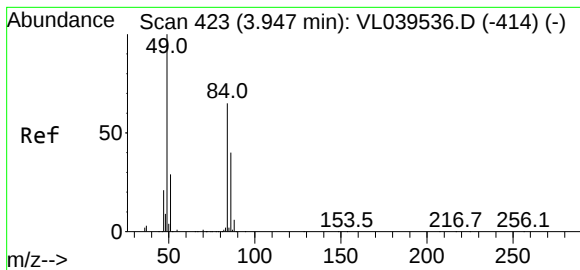
Tgt Ion:108 Resp: 7762
Ion Ratio Lower Upper
108 100
106 117.1 86.6 130.0
79 25.0 15.1 22.7#



#15
Acetone
Concen: 0.578 ppbv
RT: 3.501 min Scan# 279
Delta R.T. 0.017 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

Tgt Ion: 43 Resp: 67726
Ion Ratio Lower Upper
43 100
58 34.7 20.7 31.1#



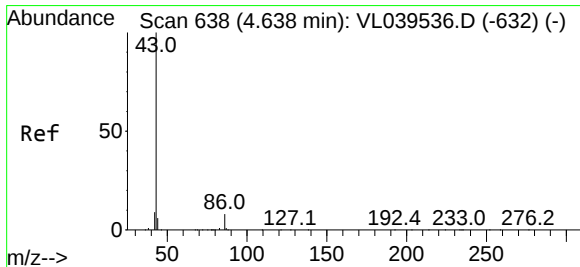
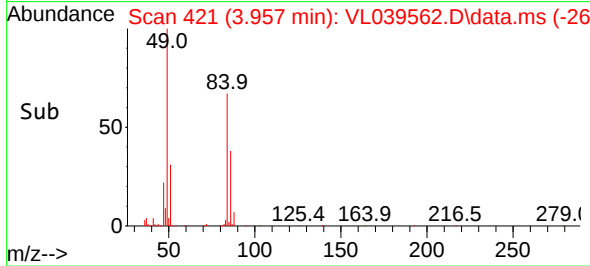
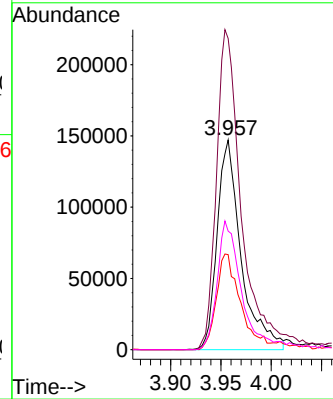
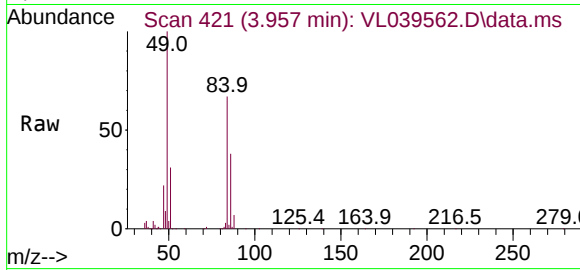


#20
Methylene Chloride
Concen: 5.125 ppbv
RT: 3.957 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 244564

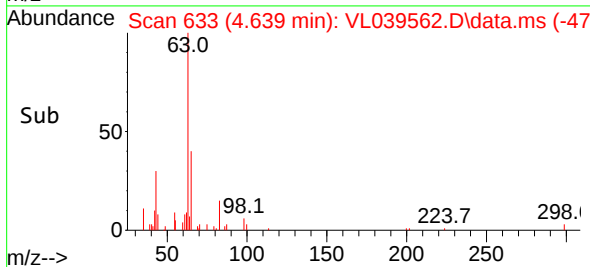
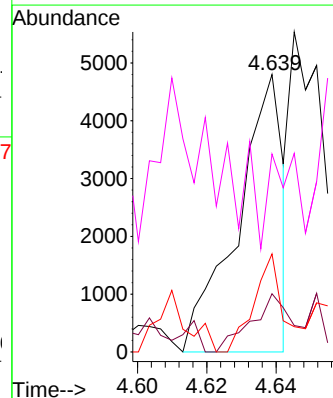
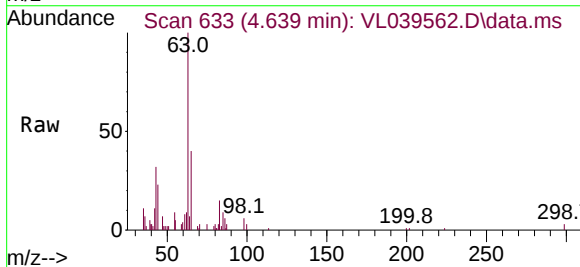
Ion	Ratio	Lower	Upper
84	100		
49	148.4	122.2	183.4
51	45.3	35.8	53.6
86	56.4	48.4	72.6

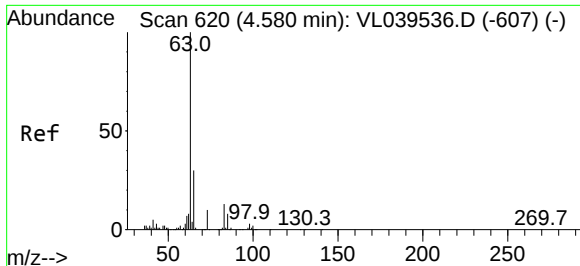


#23
Vinyl Acetate
Concen: 0.074 ppbv
RT: 4.639 min Scan# 633
Delta R.T. 0.001 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

Tgt Ion: 43 Resp: 4353

Ion	Ratio	Lower	Upper
43	100		
86	14.8	5.3	7.9#
42	27.1	8.7	13.1#
44	12.2	5.1	7.7#

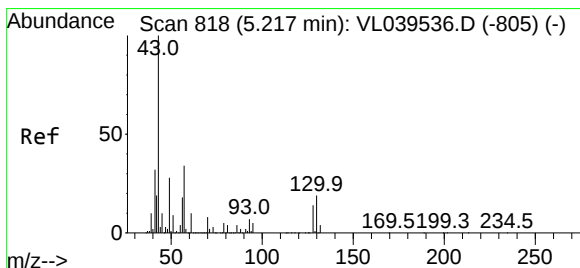
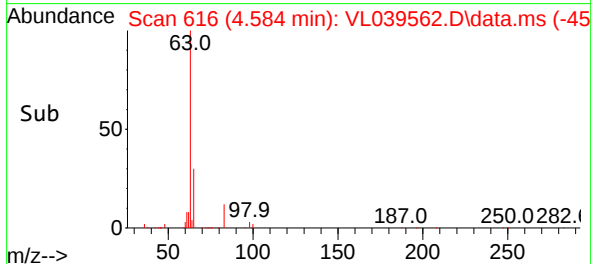
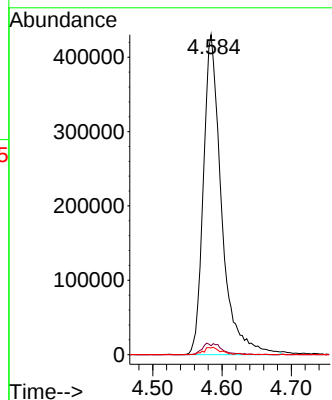
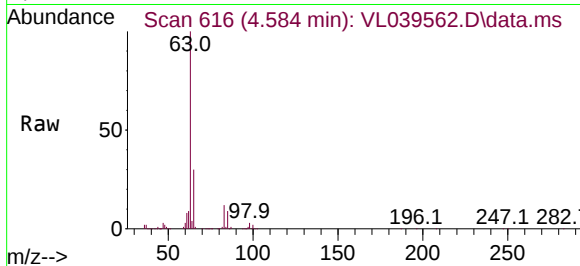




#24
1,1-Dichloroethane
Concen: 7.539 ppbv
RT: 4.584 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

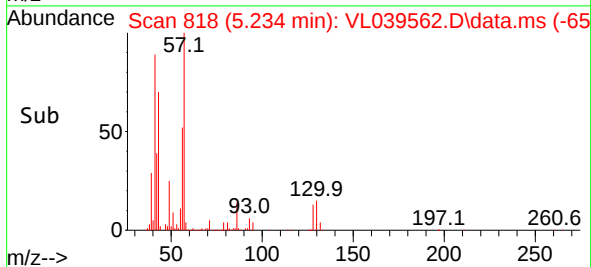
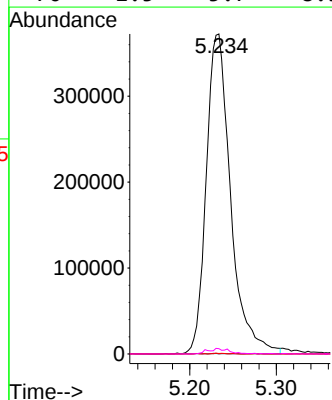
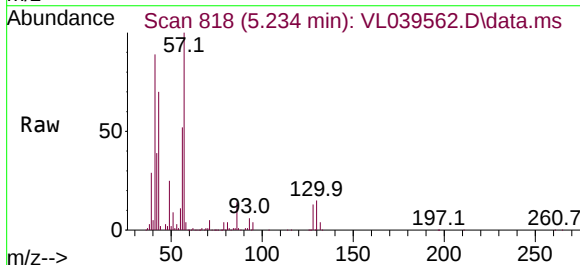
Instrument :
MSVOA_L
ClientSampleId :

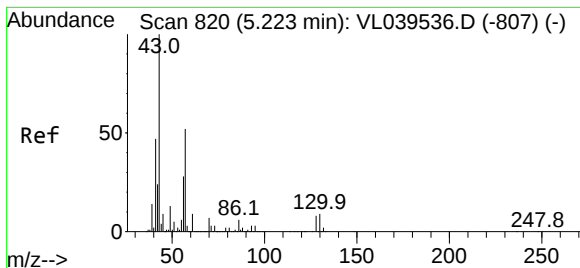
Tgt Ion: 63 Resp: 781830
Ion Ratio Lower Upper
63 100
98 2.8 1.7 5.0
100 2.1 1.1 3.3



#25
Ethyl Acetate
Concen: 2.906 ppbv
RT: 5.234 min Scan# 818
Delta R.T. 0.017 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

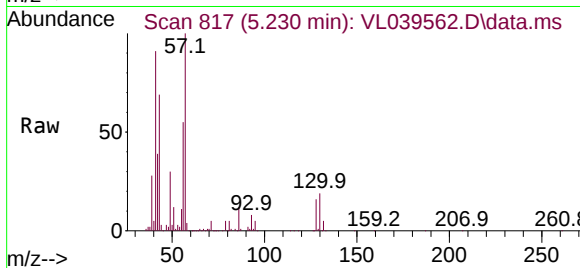
Tgt Ion: 43 Resp: 726098
Ion Ratio Lower Upper
43 100
45 0.1 8.2 12.4#
61 0.1 8.6 12.8#
70 1.5 5.7 8.5#





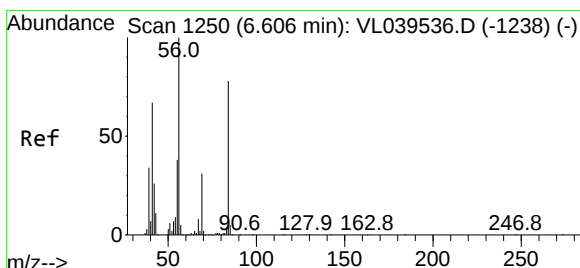
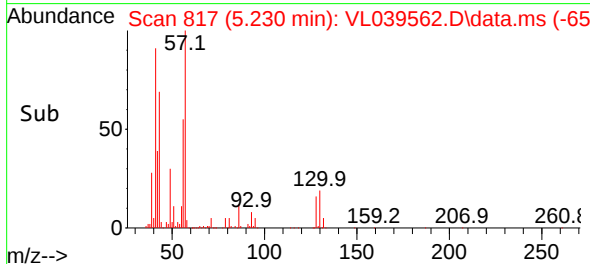
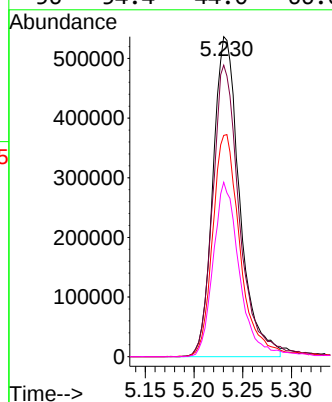
#26
Hexane
Concen: 9.972 ppbv
RT: 5.230 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 57 Resp: 1021895

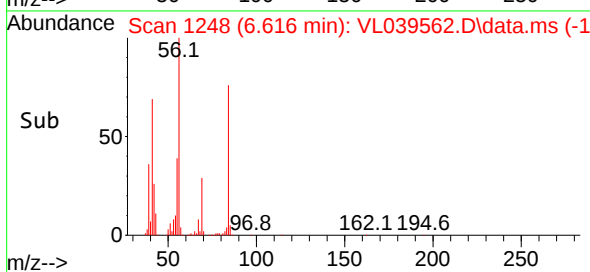
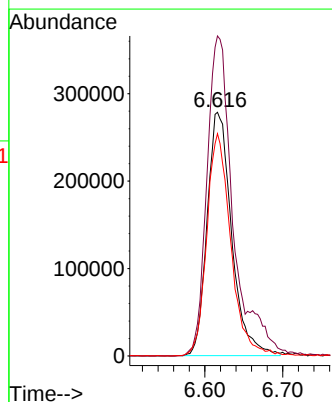
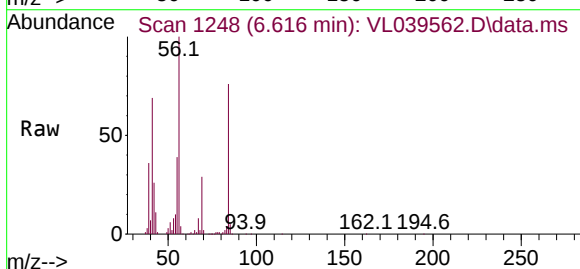
Ion	Ratio	Lower	Upper
57	100		
41	93.1	79.4	119.2
43	72.4	199.7	299.5#
56	54.4	44.0	66.0

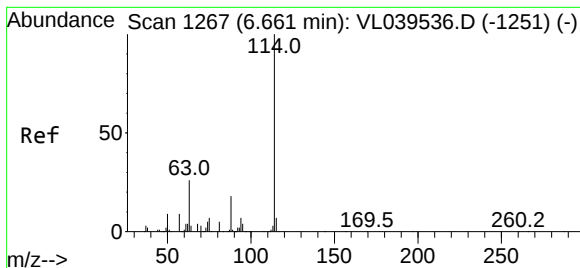


#30
Cyclohexane
Concen: 7.159 ppbv
RT: 6.616 min Scan# 1248
Delta R.T. 0.010 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

Tgt Ion: 84 Resp: 609196

Ion	Ratio	Lower	Upper
84	100		
56	142.5	0.0	0.0#
41	90.0	0.0	0.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.668 min Scan# 114

Delta R.T. 0.007 min

Lab File: VL039562.D

Acq: 18 Aug 2022 17:01

Instrument :

MSVOA_L

ClientSampleId :

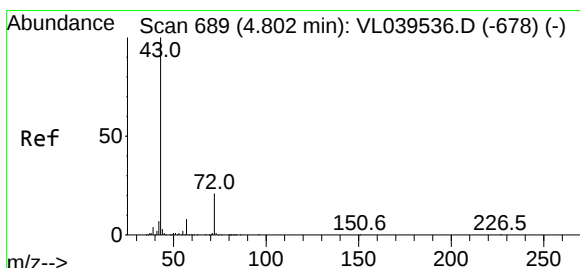
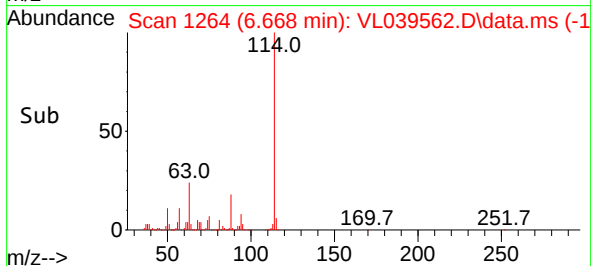
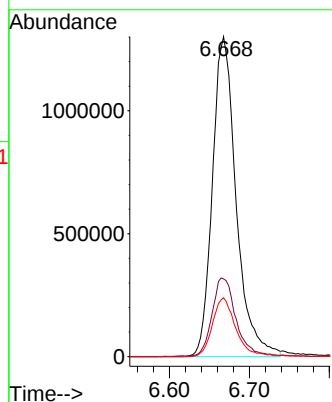
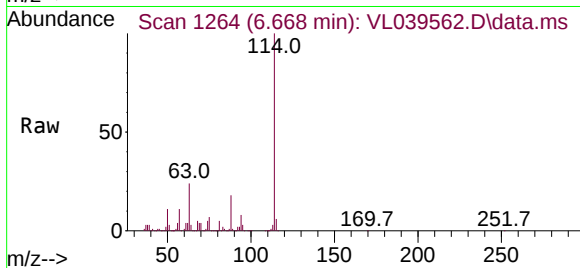
Tgt Ion:114 Resp: 2682195

Ion Ratio Lower Upper

114 100

63 25.6 20.6 31.0

88 18.4 14.6 22.0



#34

2-Butanone

Concen: 0.116 ppbv

RT: 4.822 min Scan# 690

Delta R.T. 0.020 min

Lab File: VL039562.D

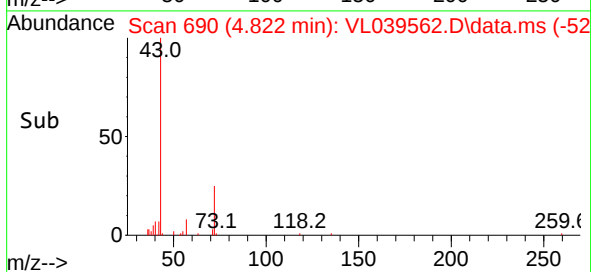
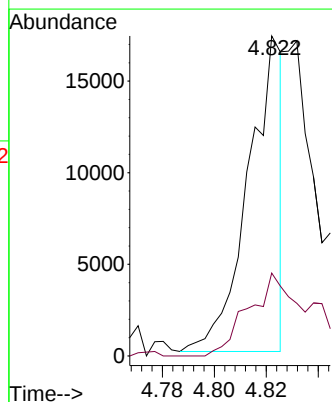
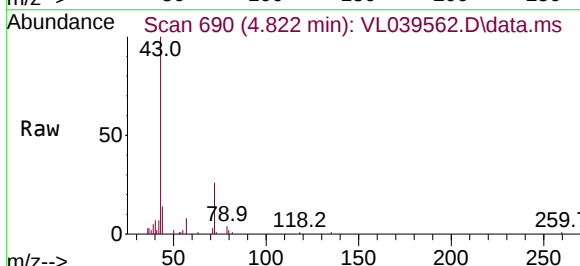
Acq: 18 Aug 2022 17:01

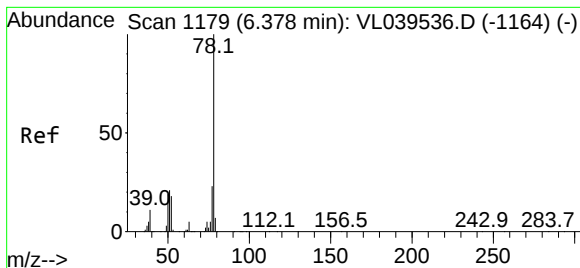
Tgt Ion: 43 Resp: 15614

Ion Ratio Lower Upper

43 100

72 59.4 17.4 26.0#





#36

Benzene

Concen: 5.409 ppbv

RT: 6.385 min Scan# 1179

Delta R.T. 0.007 min

Lab File: VL039562.D

Acq: 18 Aug 2022 17:01

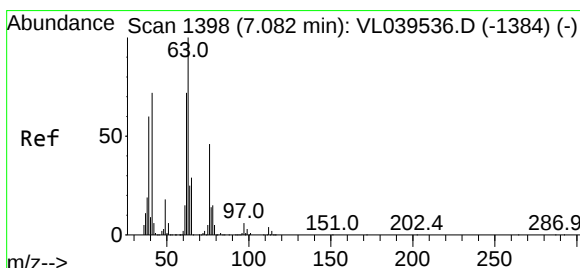
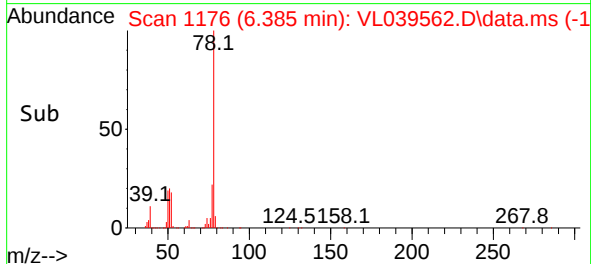
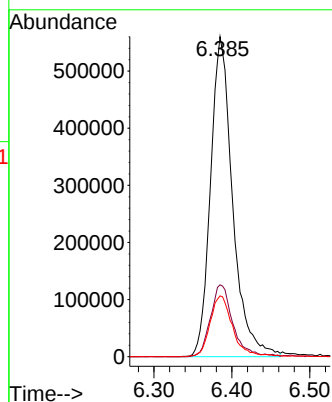
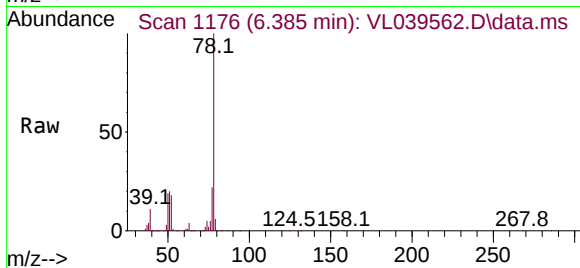
Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 78 Resp: 1105819

Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.6	27.8
50	19.0	15.0	22.4



#39

1,2-Dichloropropane

Concen: 8.407 ppbv

RT: 6.664 min Scan# 1263

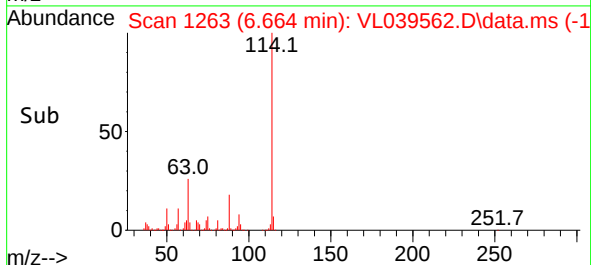
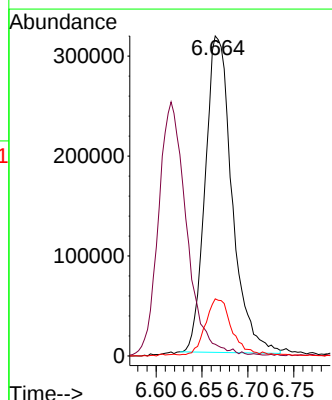
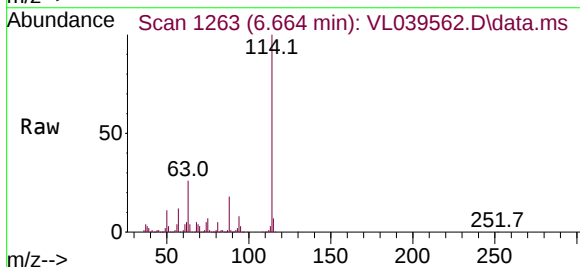
Delta R.T. -0.417 min

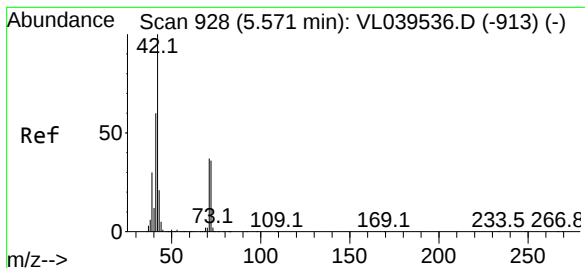
Lab File: VL039562.D

Acq: 18 Aug 2022 17:01

Tgt Ion: 63 Resp: 644098

Ion	Ratio	Lower	Upper
63	100		
41	3.5	58.0	87.0#
62	17.6	57.8	86.8#





#41

Tetrahydrofuran

Concen: 0.082 ppbv

RT: 5.285 min Scan# 81

Delta R.T. -0.285 min

Lab File: VL039562.D

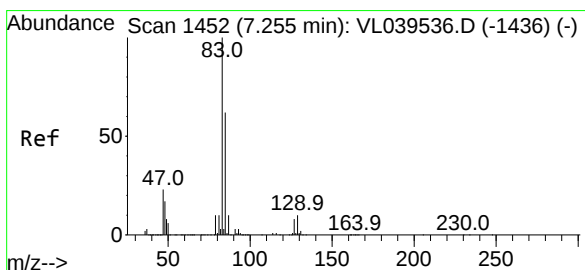
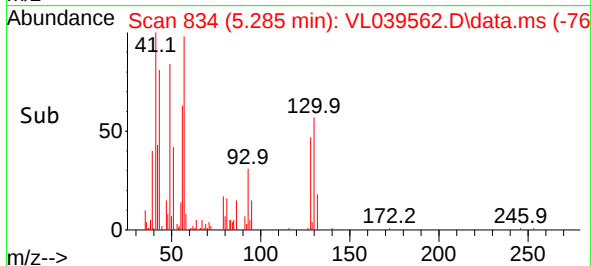
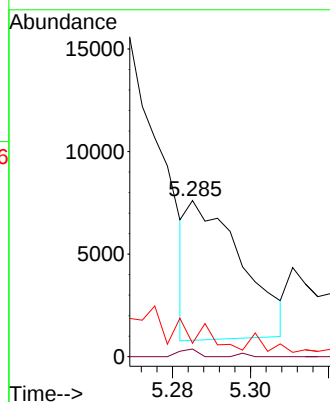
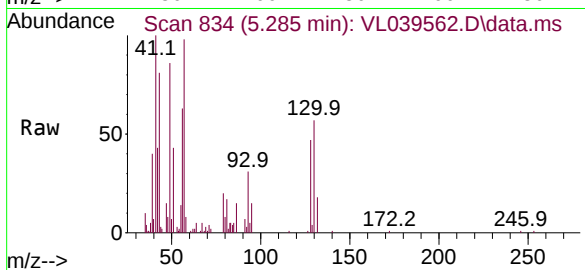
Acq: 18 Aug 2022 17:01

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	42	Resp:	6542
Ion Ratio	Lower	Upper	
42	100		
72	2.4	30.6	45.8#
71	0.0	30.7	46.1#



#42

Bromodichloromethane

Concen: 0.060 ppbv

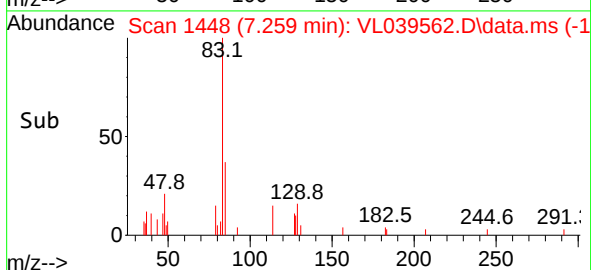
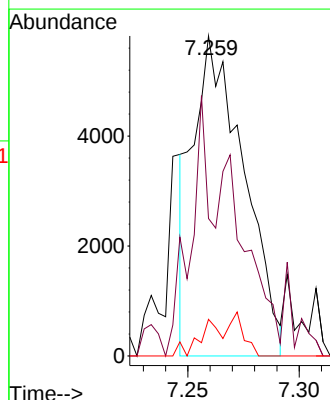
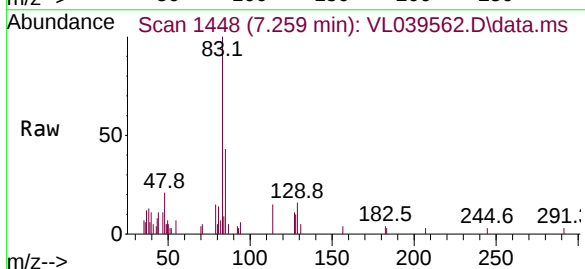
RT: 7.259 min Scan# 1448

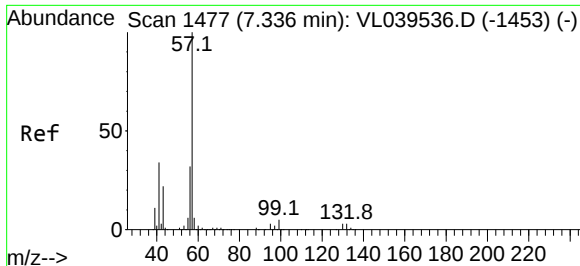
Delta R.T. 0.004 min

Lab File: VL039562.D

Acq: 18 Aug 2022 17:01

Tgt Ion:	83	Resp:	9266
Ion Ratio	Lower	Upper	
83	100		
85	43.1	49.9	74.9#
127	12.6	6.7	10.1#





#44

2,2,4-Trimethylpentane

Concen: 1.386 ppbv

RT: 7.594 min Scan# 11

Delta R.T. 0.258 min

Lab File: VL039562.D

Acq: 18 Aug 2022 17:01

Instrument :

MSVOA_L

ClientSampleId :

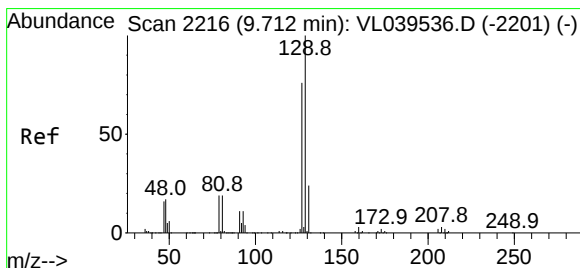
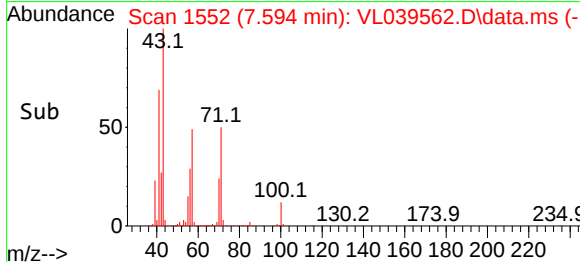
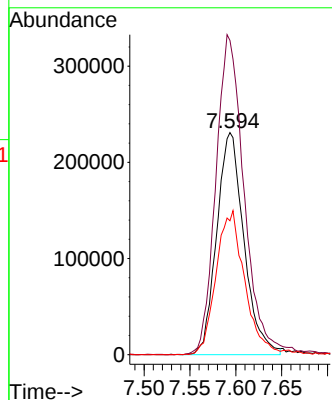
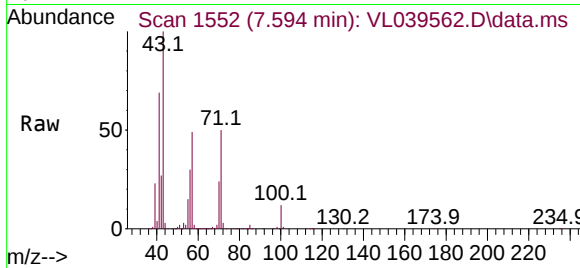
Tgt Ion: 57 Resp: 477227

Ion Ratio Lower Upper

57 100

41 151.4 27.8 41.6#

56 68.9 25.5 38.3#



#48

Dibromochloromethane

Concen: 3.887 ppbv

RT: 9.719 min Scan# 2213

Delta R.T. 0.007 min

Lab File: VL039562.D

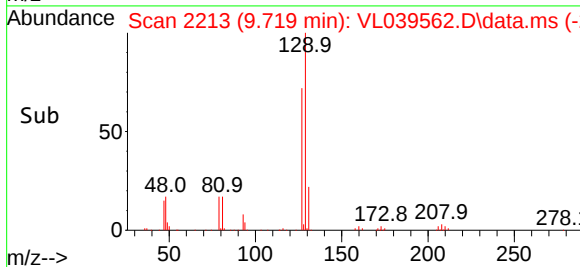
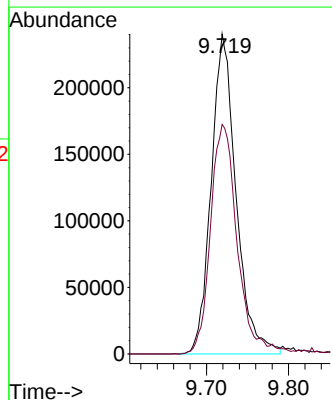
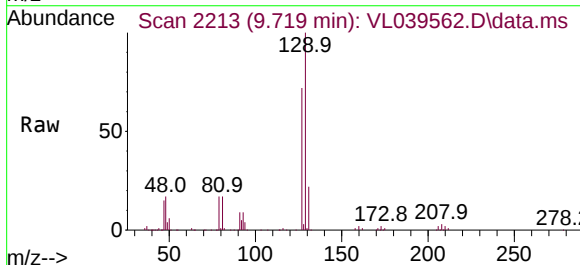
Acq: 18 Aug 2022 17:01

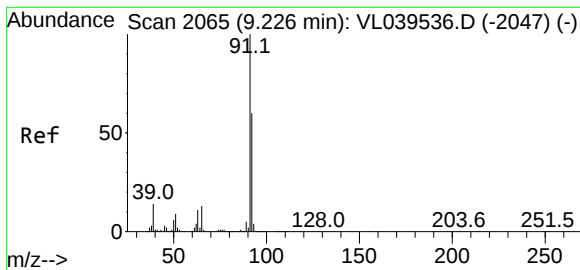
Tgt Ion: 129 Resp: 507330

Ion Ratio Lower Upper

129 100

127 76.9 38.8 116.3





#53

Toluene

Concen: 5.213 ppbv

RT: 9.233 min Scan# 2065

Delta R.T. 0.007 min

Lab File: VL039562.D

Acq: 18 Aug 2022 17:01

Instrument :

MSVOA_L

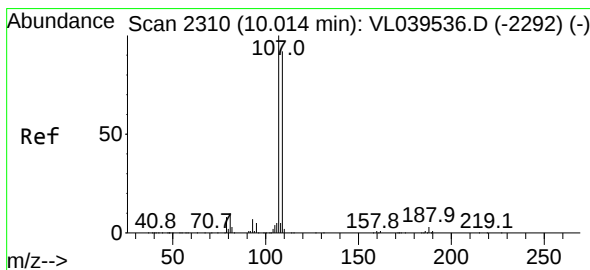
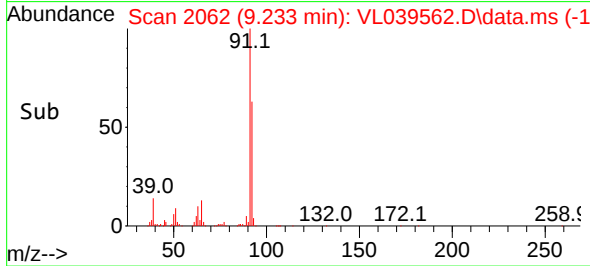
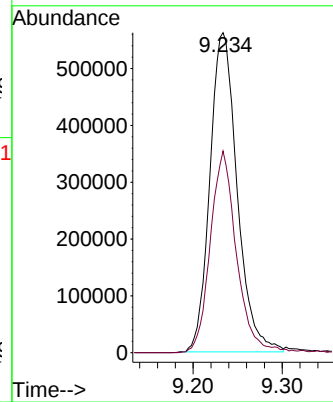
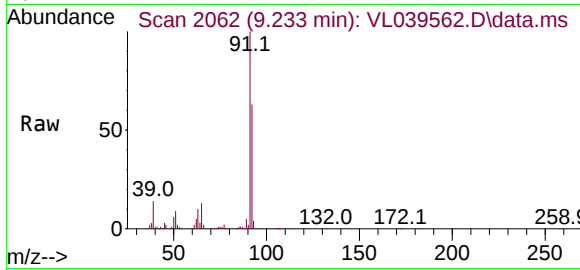
ClientSampleId :

Tgt Ion: 91 Resp: 1194041

Ion Ratio Lower Upper

91 100

92 61.4 47.9 71.9



#54

1,2-Dibromoethane

Concen: 10.084 ppbv

RT: 10.018 min Scan# 2306

Delta R.T. 0.004 min

Lab File: VL039562.D

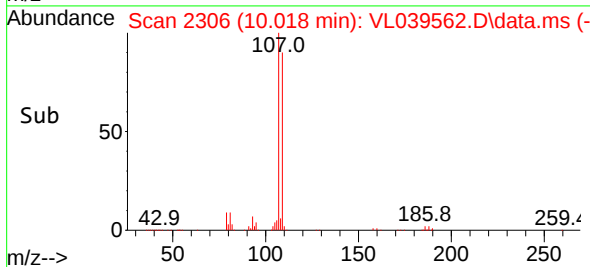
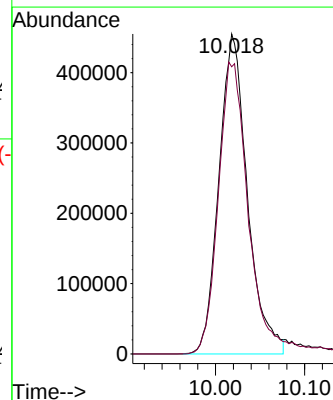
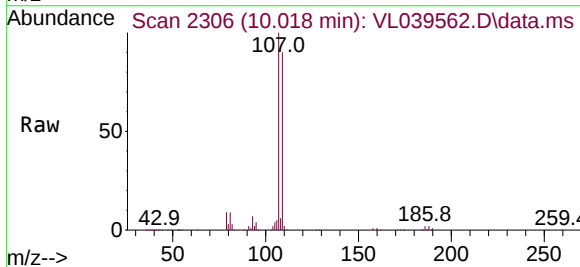
Acq: 18 Aug 2022 17:01

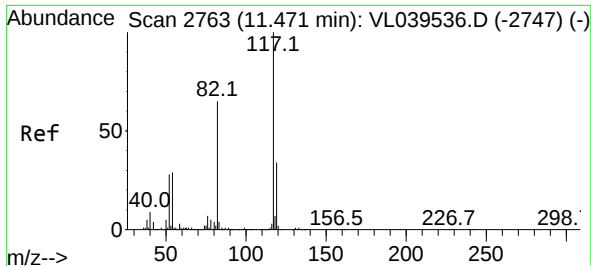
Tgt Ion: 107 Resp: 1009882

Ion Ratio Lower Upper

107 100

109 89.7 73.4 110.2

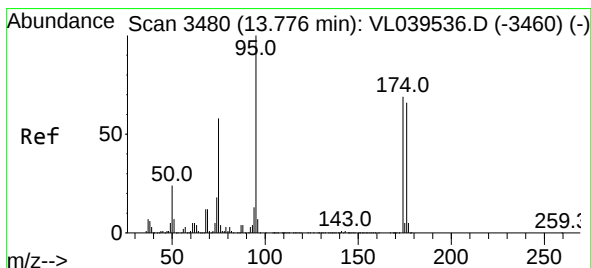
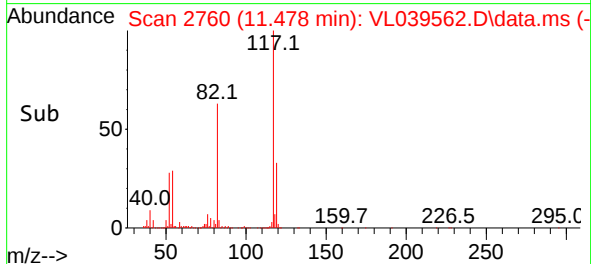
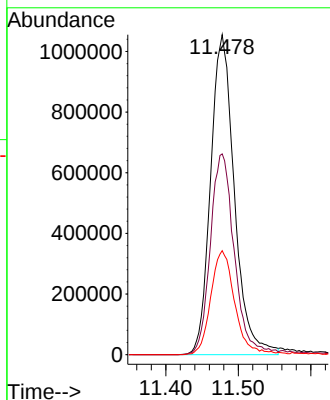
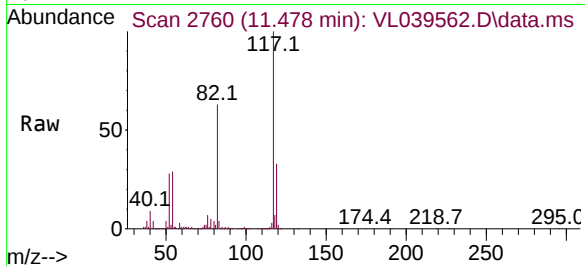




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 117 Resp: 2404817
Ion Ratio Lower Upper
117 100
82 65.1 49.1 73.7
119 33.7 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.844 ppbv
RT: 13.786 min Scan# 3478
Delta R.T. 0.010 min
Lab File: VL039562.D
Acq: 18 Aug 2022 17:01

Tgt Ion: 95 Resp: 1782081
Ion Ratio Lower Upper
95 100
174 75.0 56.3 84.5
175 5.4 4.3 6.5

