

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101022\
 Data File : VL039705.D
 Acq On : 10 Oct 2022 20:58
 Operator : SY/AP
 Sample : N5065-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Oct 11 07:21:37 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)

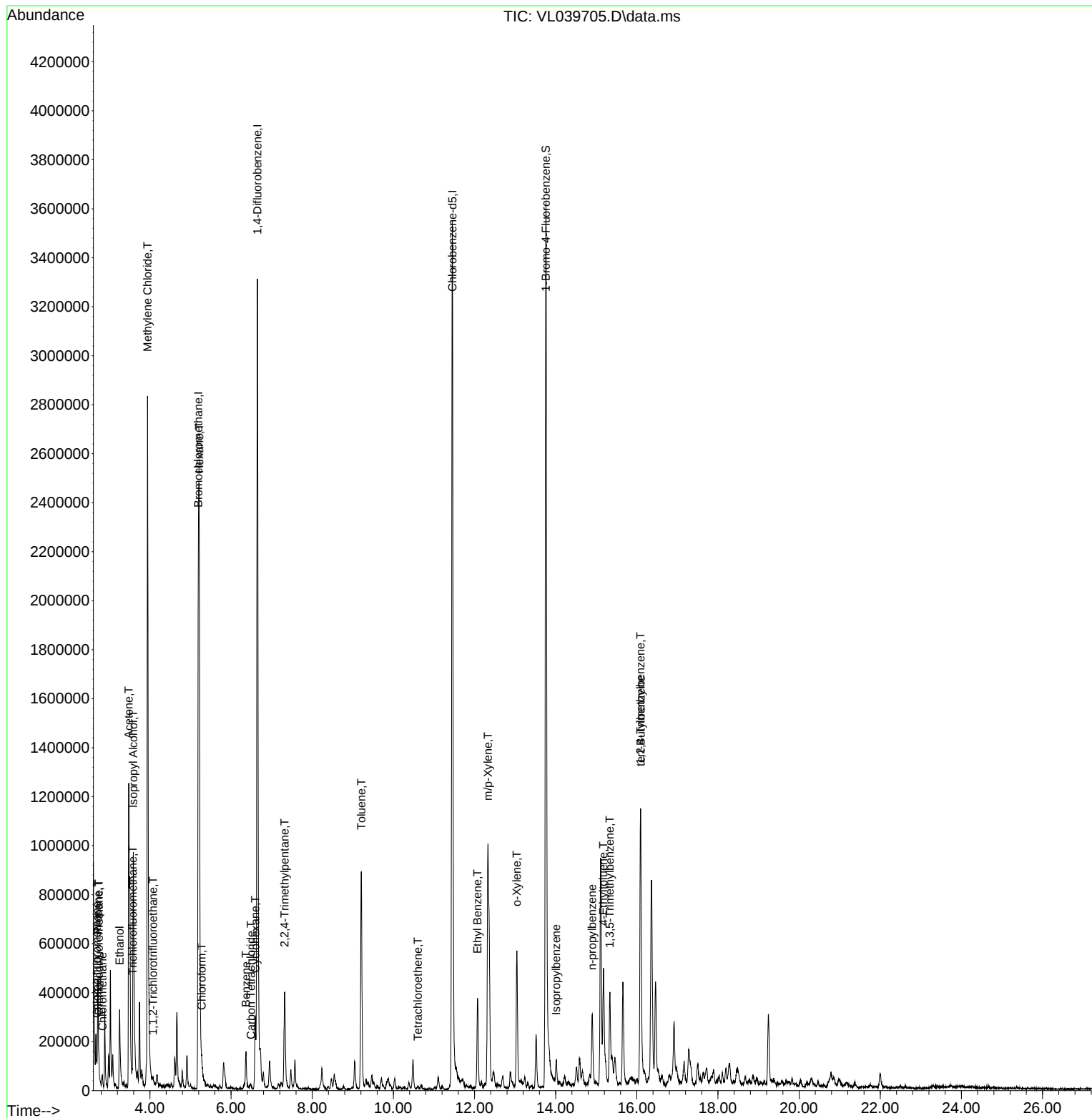
Internal Standards						
1) Bromochloromethane	5.192	49	1035812	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.648	114	2679762	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.455	117	2418879	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1815320	10.053	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.745	85	28036	0.233	ppbv	100
3) Chlorodifluoromethane	2.690	51	66202m	0.539	ppbv	
4) Chloromethane	2.829	50	32005	0.431	ppbv	92
9) Propene	2.719	41	143597	2.558	ppbv	84
11) Trichlorofluoromethane	3.575	101	31105	0.209	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.079	101	8381m	0.075	ppbv	
13) Ethanol	3.253	45	370410	86.594	ppbv	71
15) Acetone	3.478	43	1551773	13.463	ppbv	95
19) Isopropyl Alcohol	3.591	45	1072625	18.257	ppbv #	97
20) Methylene Chloride	3.941	84	1010890	18.970	ppbv	92
26) Hexane	5.214	57	800627	7.507	ppbv #	39
29) Chloroform	5.275	83	24181m	0.157	ppbv	
30) Cyclohexane	6.600	84	90902	1.101	ppbv #	88
35) Carbon Tetrachloride	6.488	117	10473m	0.074	ppbv	
36) Benzene	6.369	78	115845	0.565	ppbv	95
44) 2,2,4-Trimethylpentane	7.320	57	377548	1.069	ppbv	91
52) Tetrachloroethene	10.603	164	2526m	0.032	ppbv	
53) Toluene	9.211	91	636738	2.794	ppbv	100
58) Ethyl Benzene	12.073	91	330223	1.184	ppbv	98
59) m/p-Xylene	12.333	91	1162253	4.683	ppbv	94
60) o-Xylene	13.044	91	445894	1.881	ppbv	100
62) Isopropylbenzene	14.011	105	85449	0.240	ppbv	99
64) n-propylbenzene	14.899	120	60761	0.665	ppbv	77
65) tert-Butylbenzene	16.095	119	99389	0.315	ppbv #	67
72) 4-Ethyltoluene	15.175	105	415453	1.535	ppbv	99
73) 1,3,5-Trimethylbenzene	15.336	105	282548	1.141	ppbv	91
74) 1,2,4-Trimethylbenzene	16.092	105	919301	3.312	ppbv #	69

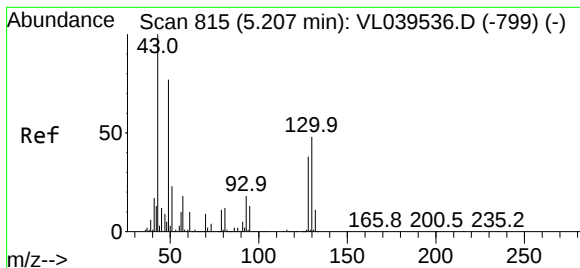
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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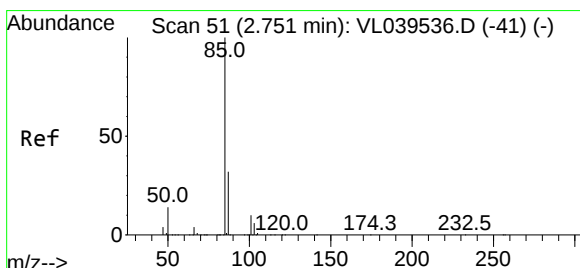
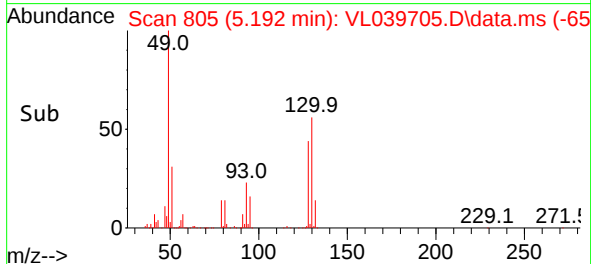
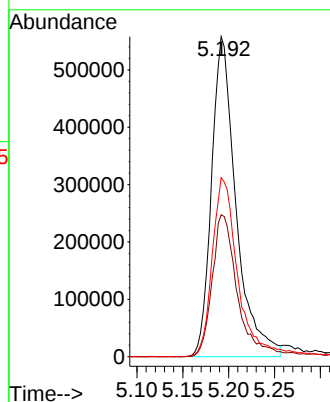
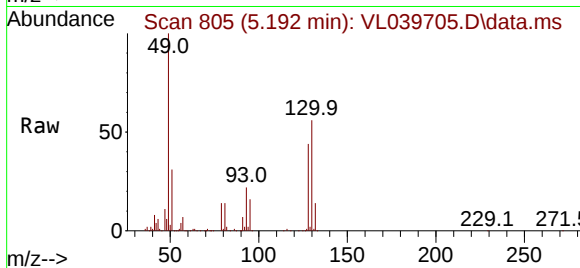




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. -0.015 min
 Lab File: VL039705.D
 Acq: 10 Oct 2022 20:58

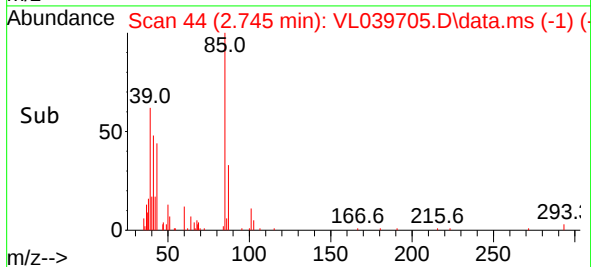
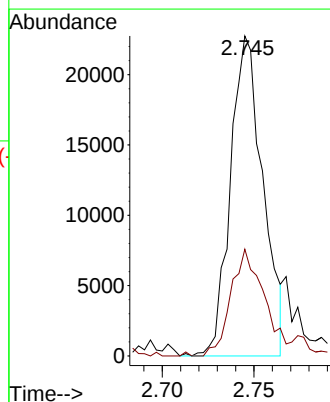
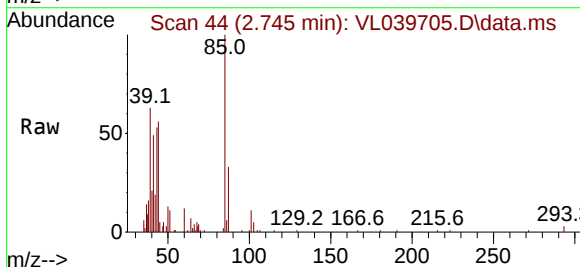
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

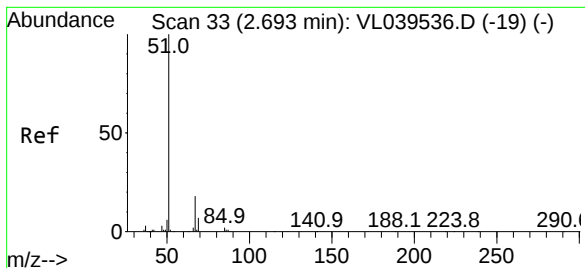
Tgt Ion: 49 Resp: 1035812
 Ion Ratio Lower Upper
 49 100
 128 47.2 26.7 80.0
 130 59.5 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.233 ppbv
 RT: 2.745 min Scan# 44
 Delta R.T. -0.006 min
 Lab File: VL039705.D
 Acq: 10 Oct 2022 20:58

Tgt Ion: 85 Resp: 28036
 Ion Ratio Lower Upper
 85 100
 87 33.3 26.7 40.1

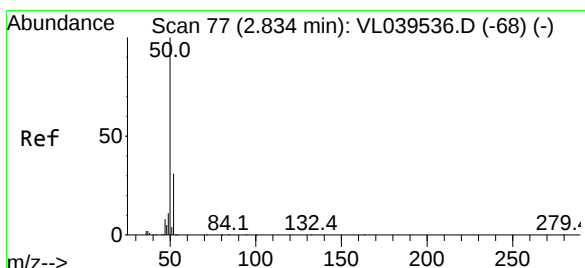
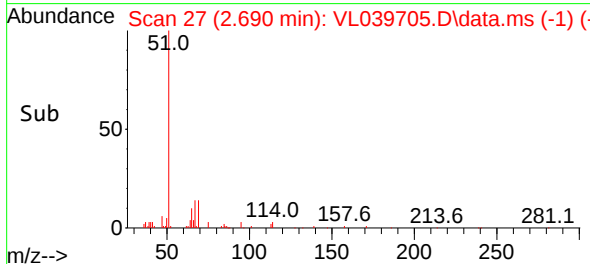
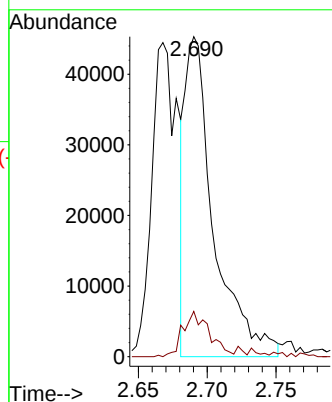
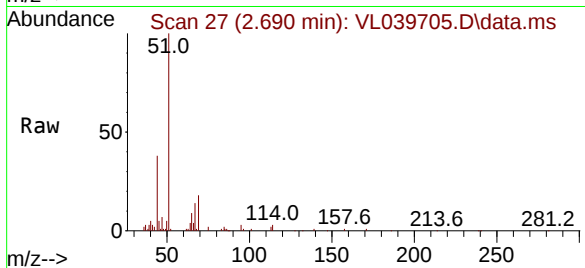




#3
Chlorodifluoromethane
Concen: 0.539 ppbv m
RT: 2.690 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

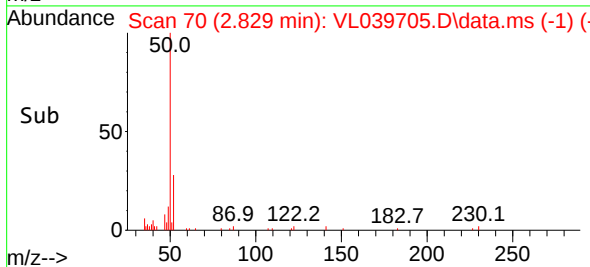
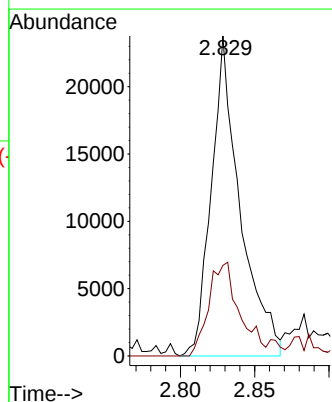
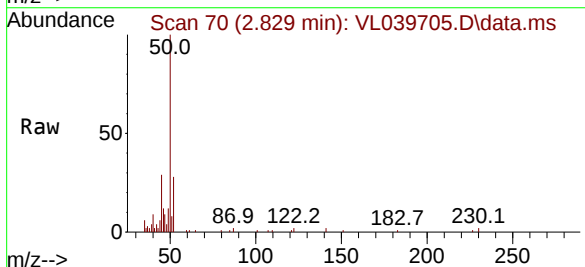
Instrument :
MSVOA_L
ClientSampleId :
OA1

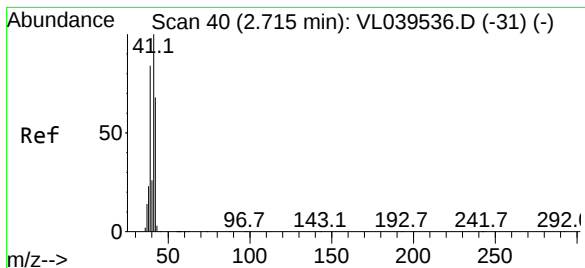
Tgt Ion: 51 Resp: 66202
Ion Ratio Lower Upper
51 100
67 15.5 15.7 23.5#



#4
Chloromethane
Concen: 0.431 ppbv
RT: 2.829 min Scan# 70
Delta R.T. -0.006 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

Tgt Ion: 50 Resp: 32005
Ion Ratio Lower Upper
50 100
52 28.3 26.5 39.7

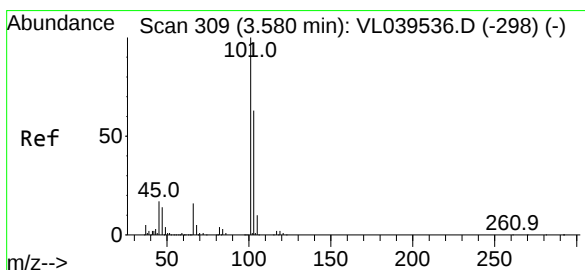
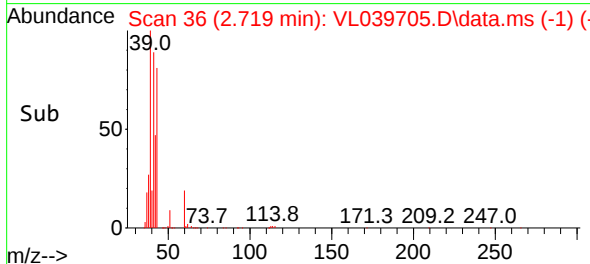
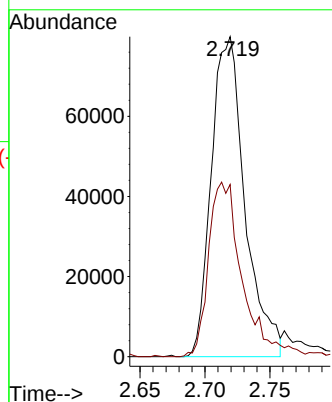
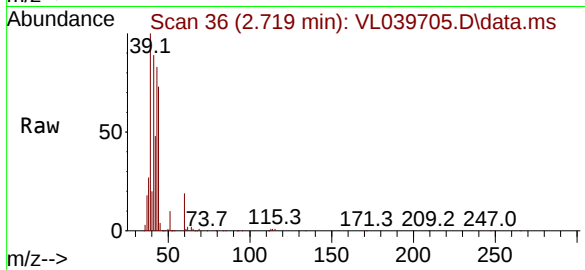




#9
 Propene
 Concen: 2.558 ppbv
 RT: 2.719 min Scan# 30
 Delta R.T. 0.004 min
 Lab File: VL039705.D
 Acq: 10 Oct 2022 20:58

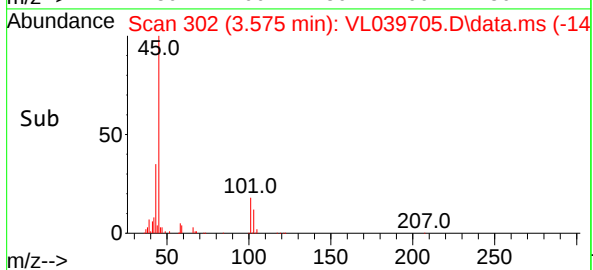
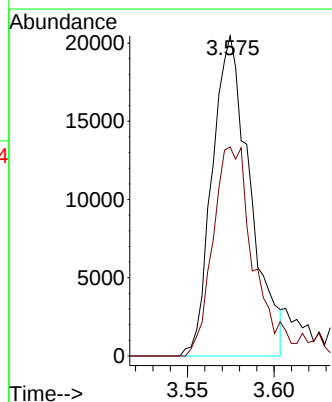
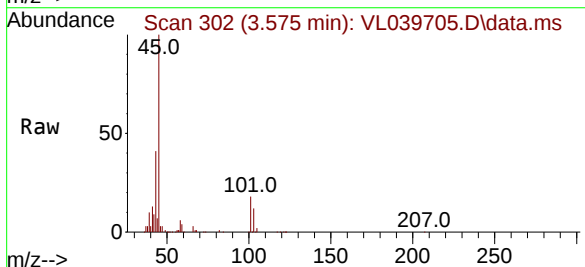
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

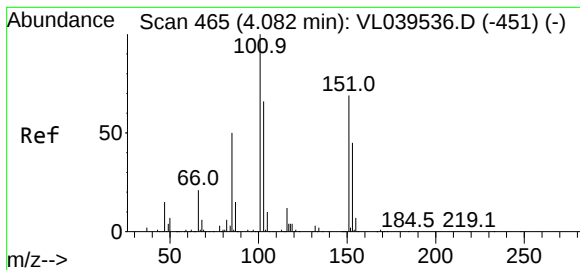
Tgt Ion: 41 Resp: 143597
 Ion Ratio Lower Upper
 41 100
 42 55.7 55.2 82.8



#11
 Trichlorofluoromethane
 Concen: 0.209 ppbv
 RT: 3.575 min Scan# 302
 Delta R.T. -0.006 min
 Lab File: VL039705.D
 Acq: 10 Oct 2022 20:58

Tgt Ion: 101 Resp: 31105
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.8 77.8

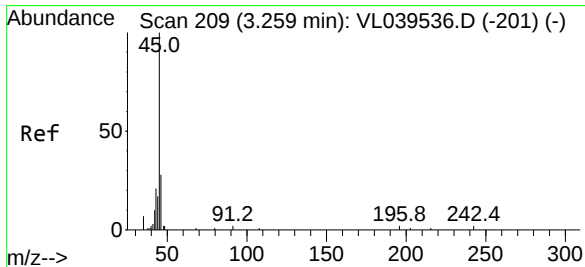
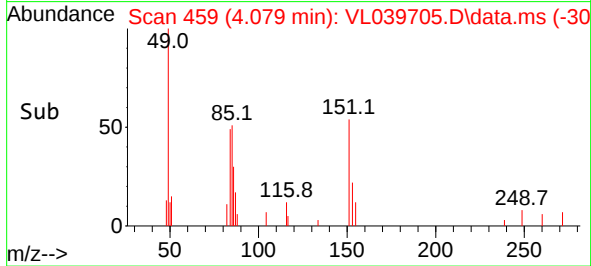
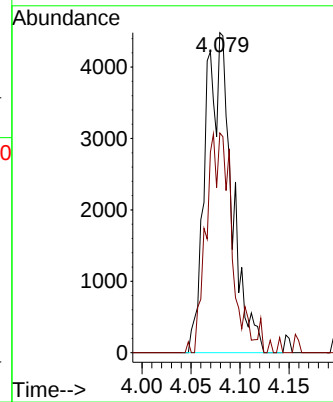
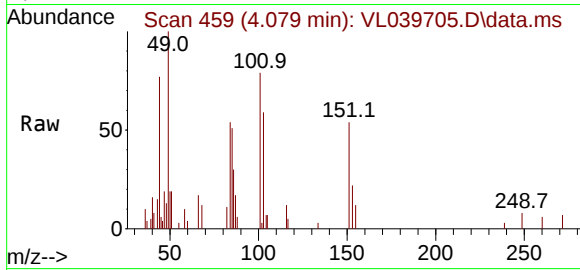




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.075 ppbv m
 RT: 4.079 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL039705.D
 Acq: 10 Oct 2022 20:58

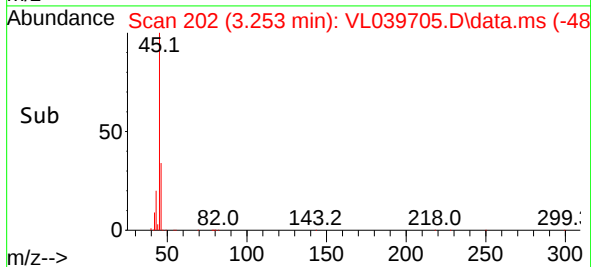
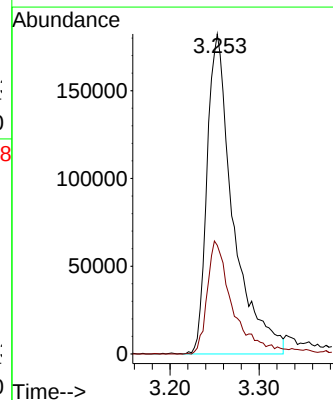
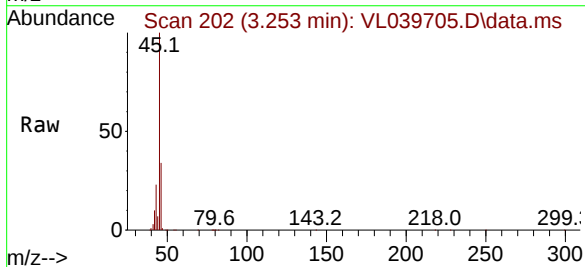
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

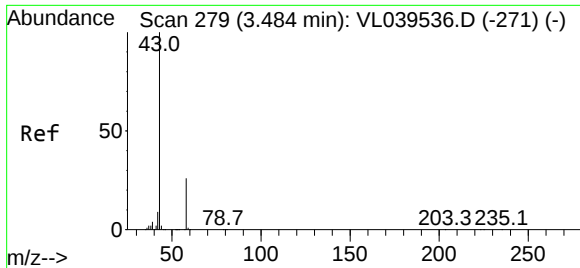
Tgt Ion:101 Resp: 8381
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.9 88.3#



#13
 Ethanol
 Concen: 86.594 ppbv
 RT: 3.253 min Scan# 202
 Delta R.T. -0.006 min
 Lab File: VL039705.D
 Acq: 10 Oct 2022 20:58

Tgt Ion: 45 Resp: 370410
 Ion Ratio Lower Upper
 45 100
 46 35.9 22.8 91.2

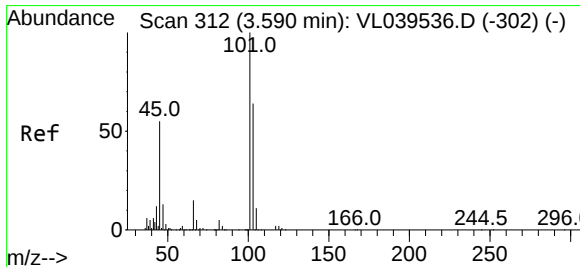
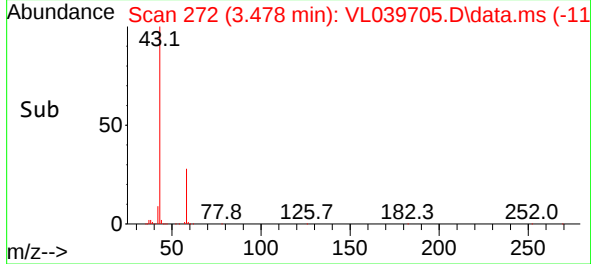
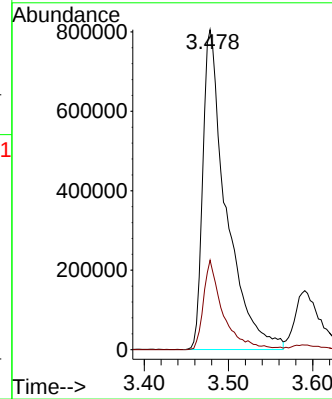
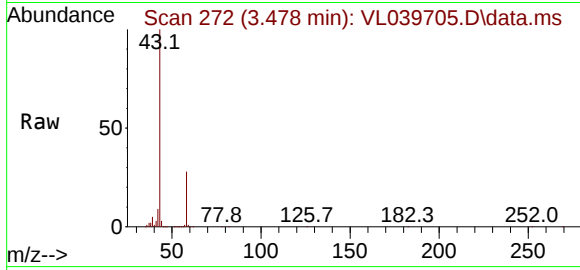




#15
Acetone
Concen: 13.463 ppbv
RT: 3.478 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

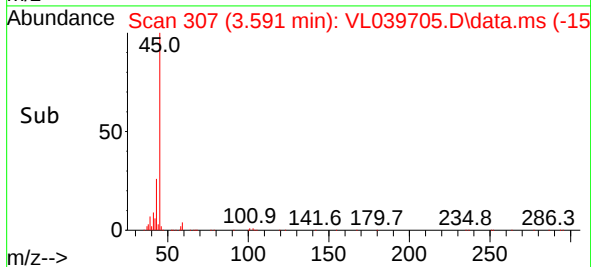
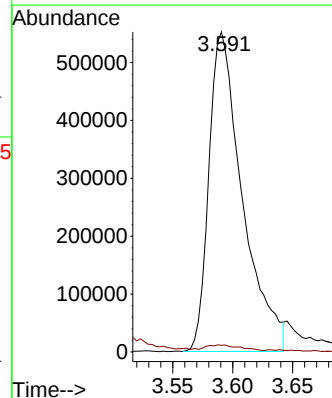
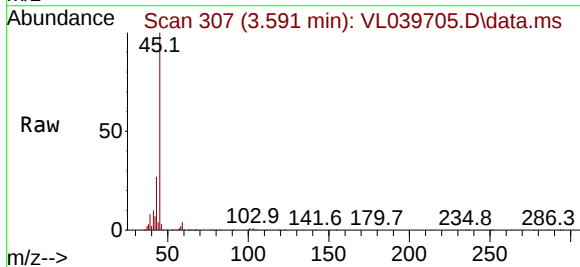
Instrument :
MSVOA_L
ClientSampleId :
OA1

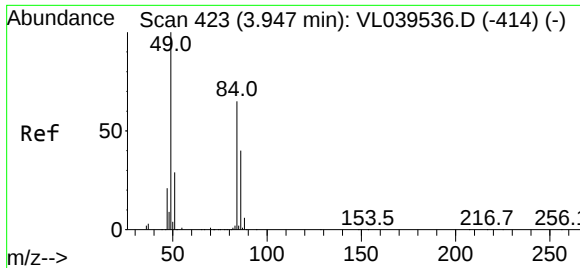
Tgt Ion: 43 Resp: 1551773
Ion Ratio Lower Upper
43 100
58 23.5 21.0 31.6



#19
Isopropyl Alcohol
Concen: 18.257 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.001 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

Tgt Ion: 45 Resp: 1072625
Ion Ratio Lower Upper
45 100
58 3.1 3.2 4.8#



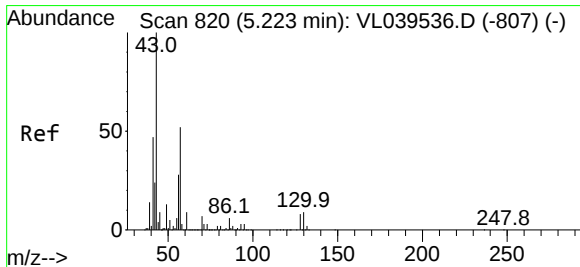
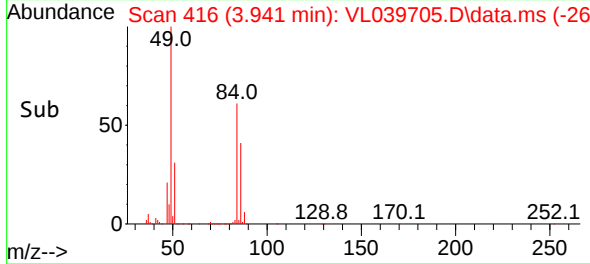
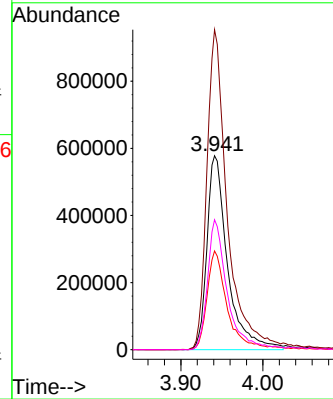
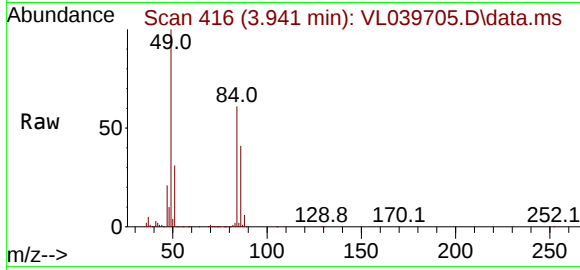


#20
Methylene Chloride
Concen: 18.970 ppbv
RT: 3.941 min Scan# 416
Delta R.T. -0.006 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 84 Resp: 1010890

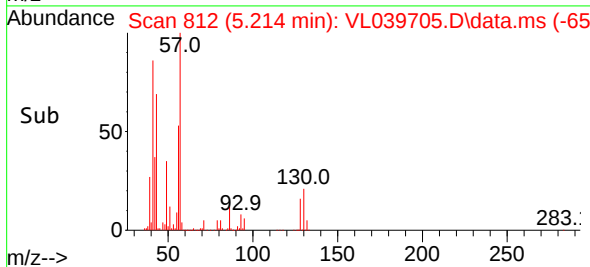
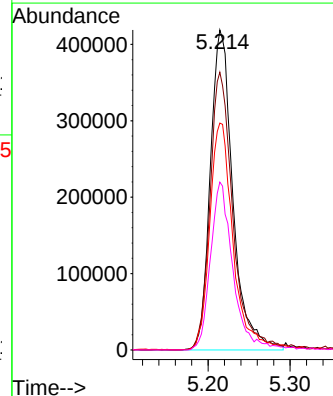
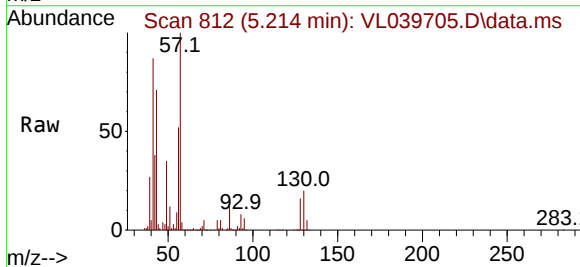
Ion	Ratio	Lower	Upper
84	100		
49	164.9	123.1	184.7
51	50.7	34.4	51.6
86	66.9	51.1	76.7

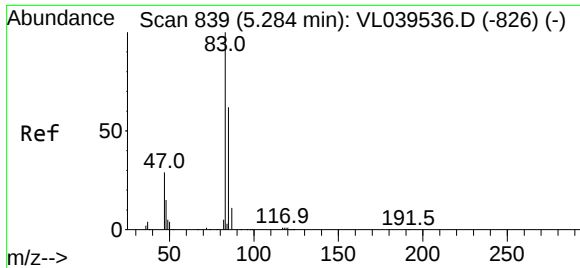


#26
Hexane
Concen: 7.507 ppbv
RT: 5.214 min Scan# 812
Delta R.T. -0.009 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

Tgt Ion: 57 Resp: 800627

Ion	Ratio	Lower	Upper
57	100		
41	90.9	76.9	115.3
43	74.0	191.0	286.6#
56	52.9	43.2	64.8

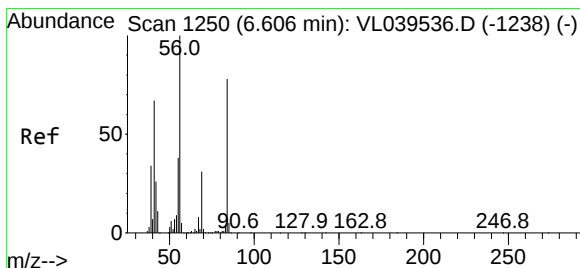
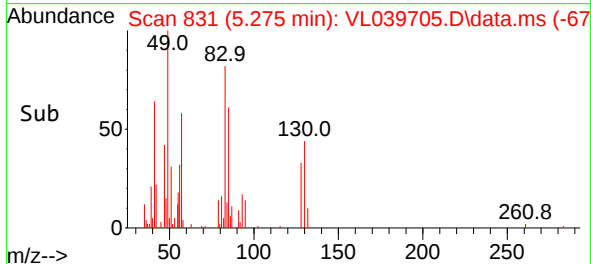
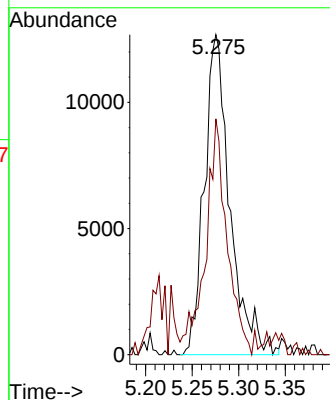
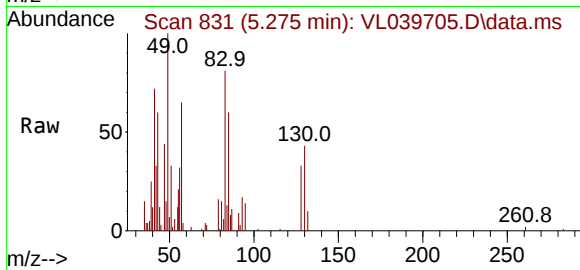




#29
Chloroform
Concen: 0.157 ppbv m
RT: 5.275 min Scan# 81
Delta R.T. -0.009 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

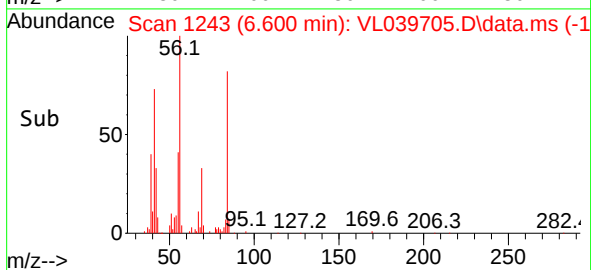
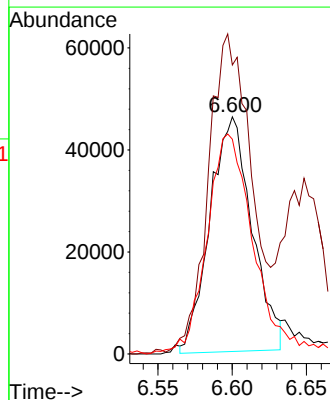
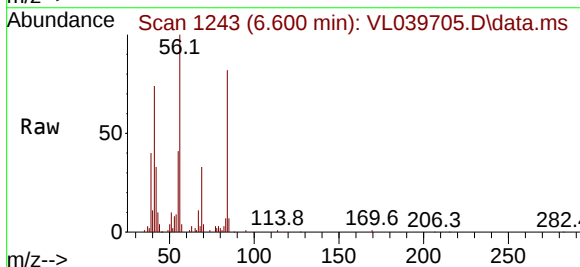
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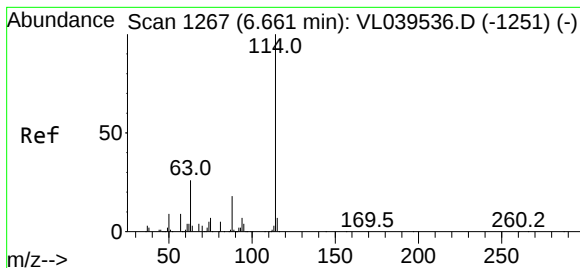
Tgt Ion: 83 Resp: 24181
Ion Ratio Lower Upper
83 100
85 73.7 52.8 79.2



#30
Cyclohexane
Concen: 1.101 ppbv
RT: 6.600 min Scan# 1243
Delta R.T. -0.006 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

Tgt Ion: 84 Resp: 90902
Ion Ratio Lower Upper
84 100
56 143.0 107.7 161.5
41 103.6 67.7 101.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.012 min

Lab File: VL039705.D

Acq: 10 Oct 2022 20:58

Instrument :

MSVOA_L

ClientSampleId :

OA1

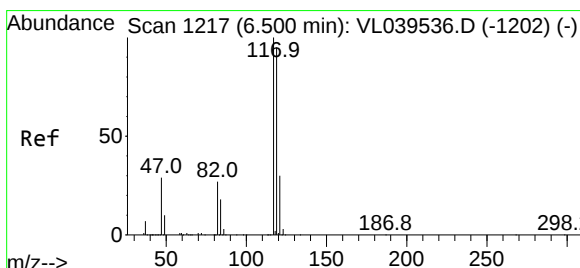
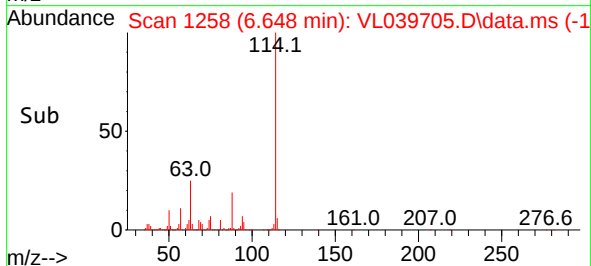
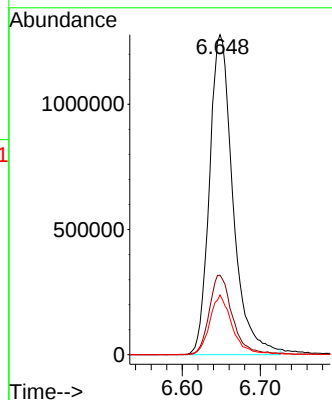
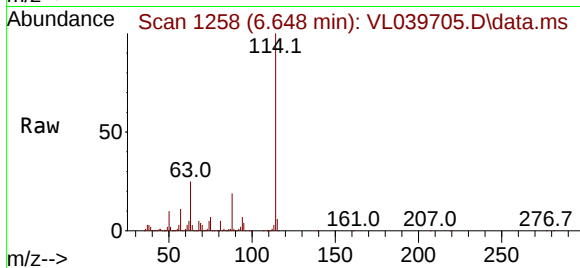
Tgt Ion:114 Resp: 2679762

Ion Ratio Lower Upper

114 100

63 25.1 20.2 30.4

88 18.2 14.5 21.7



#35

Carbon Tetrachloride

Concen: 0.074 ppbv m

RT: 6.488 min Scan# 1208

Delta R.T. -0.012 min

Lab File: VL039705.D

Acq: 10 Oct 2022 20:58

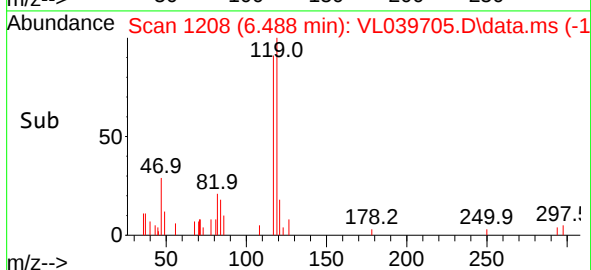
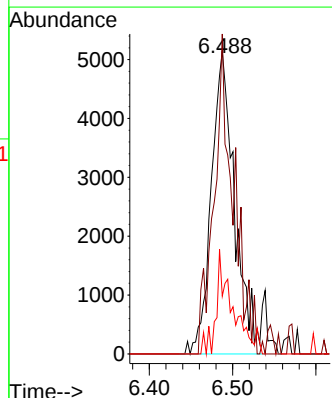
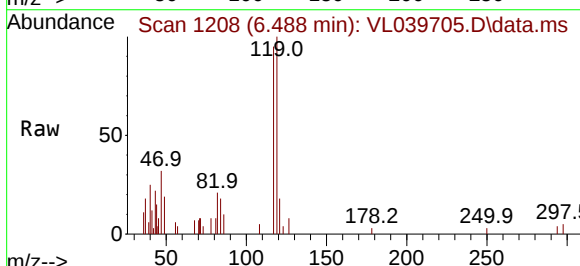
Tgt Ion:117 Resp: 10473

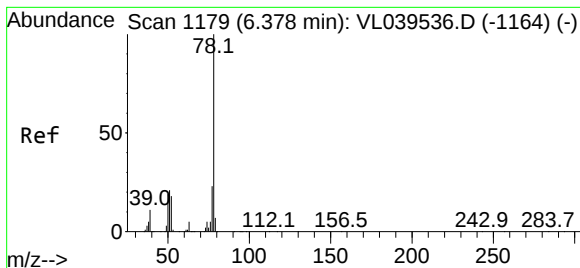
Ion Ratio Lower Upper

117 100

119 105.7 75.4 113.2

121 19.1 24.2 36.2#





#36

Benzene

Concen: 0.565 ppbv

RT: 6.369 min Scan# 1179

Delta R.T. -0.009 min

Lab File: VL039705.D

Acq: 10 Oct 2022 20:58

Instrument :

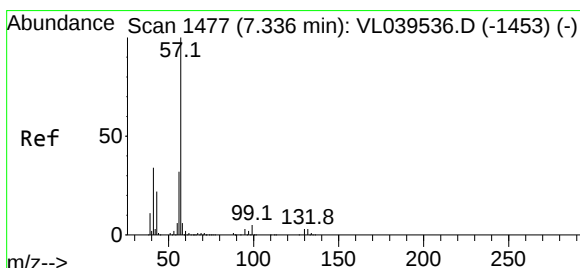
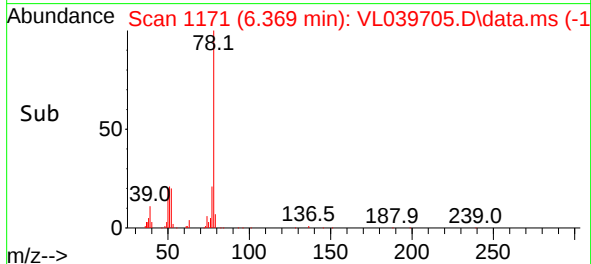
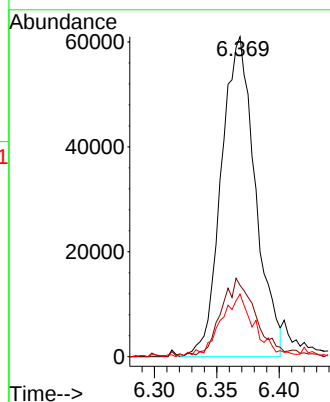
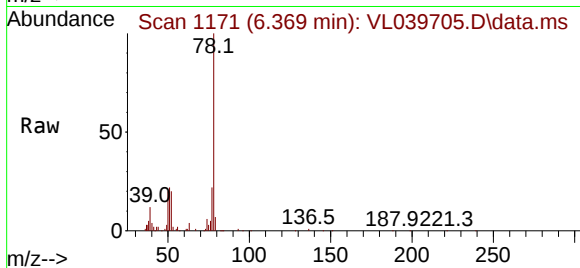
MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 78 Resp: 115845

Ion	Ratio	Lower	Upper
78	100		
77	21.6	20.3	30.5
50	19.1	15.5	23.3



#44

2,2,4-Trimethylpentane

Concen: 1.069 ppbv

RT: 7.320 min Scan# 1467

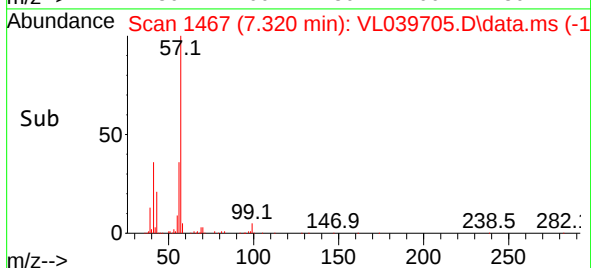
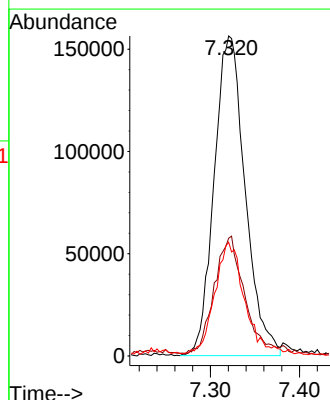
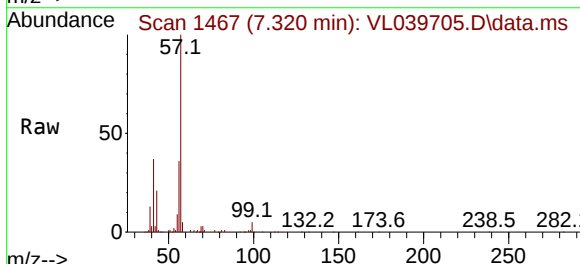
Delta R.T. -0.015 min

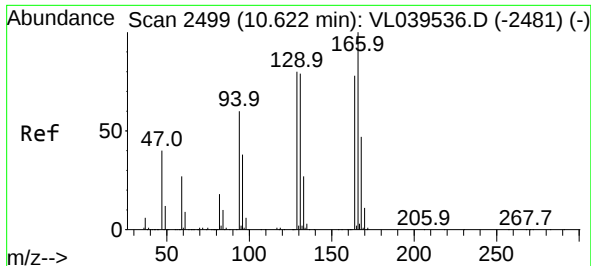
Lab File: VL039705.D

Acq: 10 Oct 2022 20:58

Tgt Ion: 57 Resp: 377548

Ion	Ratio	Lower	Upper
57	100		
41	38.7	27.4	41.2
56	36.1	24.5	36.7

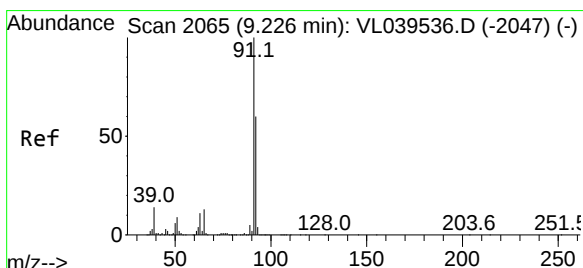
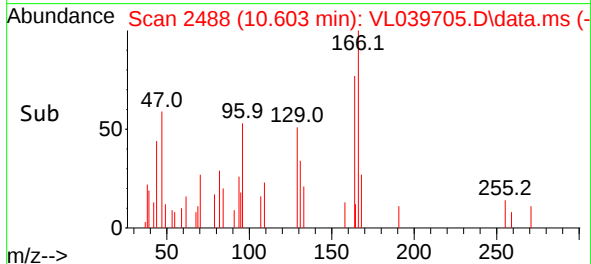
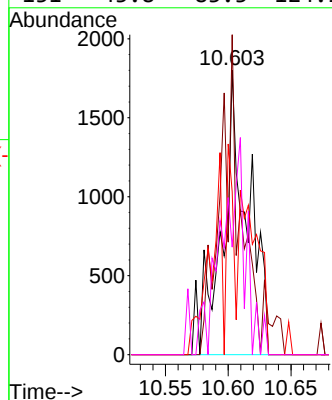
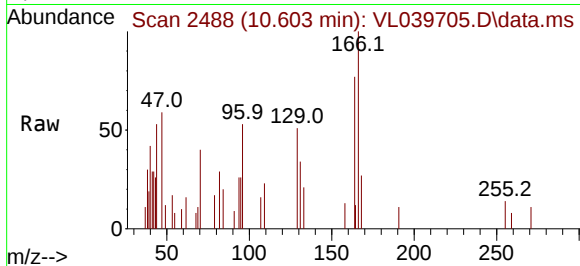




#52
Tetrachloroethene
Concen: 0.032 ppbv m
RT: 10.603 min Scan# 2499
Delta R.T. -0.019 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

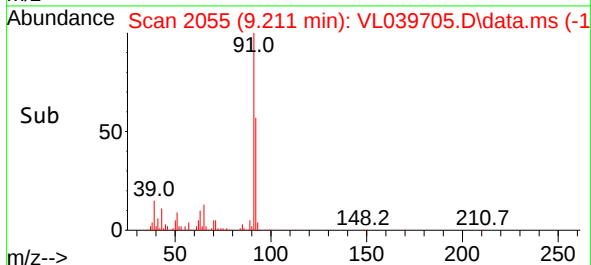
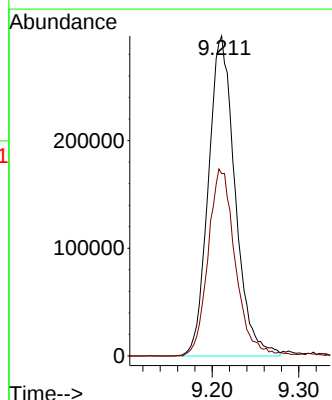
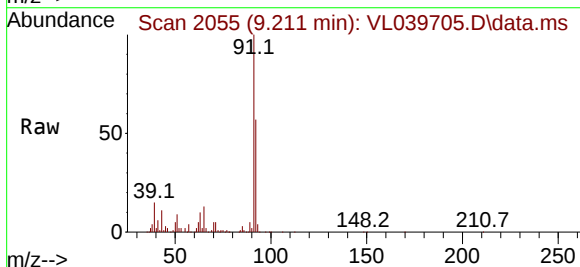
Instrument :
MSVOA_L
ClientSampleId :
OA1

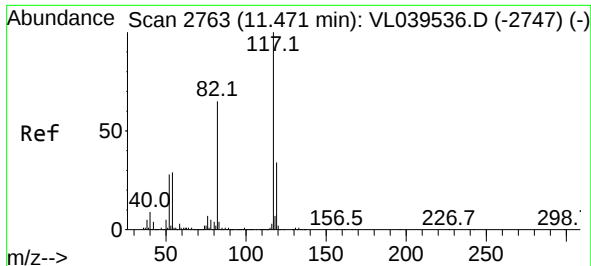
Tgt Ion:164 Resp: 2526
Ion Ratio Lower Upper
164 100
166 130.2 102.2 153.2
129 66.3 85.8 128.8#
131 43.8 83.3 124.9#



#53
Toluene
Concen: 2.794 ppbv
RT: 9.211 min Scan# 2055
Delta R.T. -0.015 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

Tgt Ion: 91 Resp: 636738
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.2

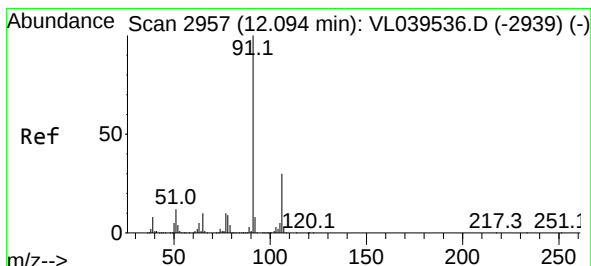
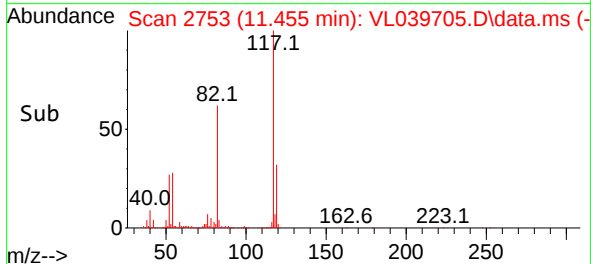
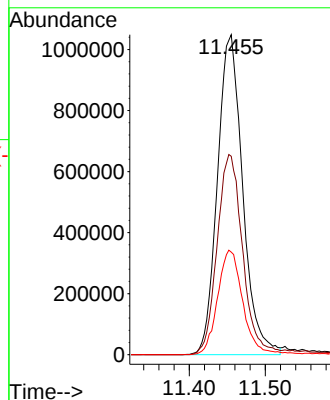
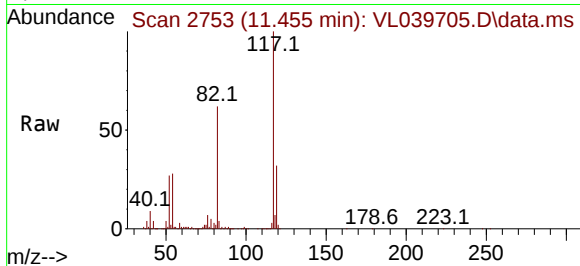




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.015 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

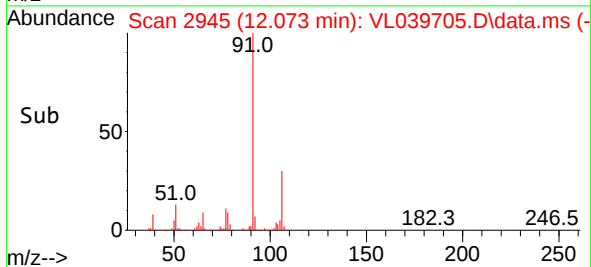
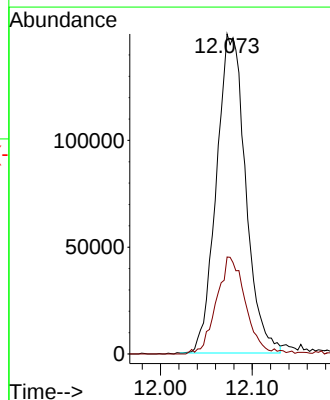
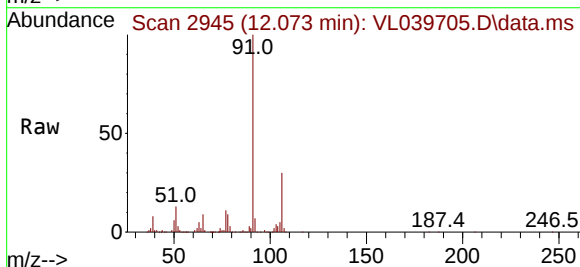
Instrument :
MSVOA_L
ClientSampleId :
OA1

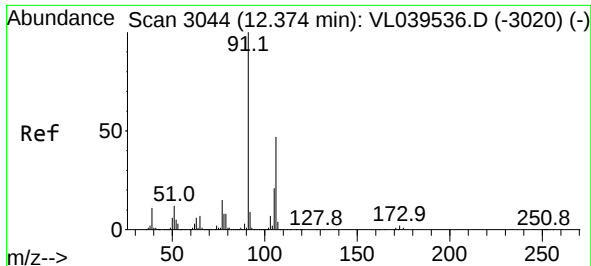
Tgt Ion:117 Resp: 2418879
Ion Ratio Lower Upper
117 100
82 65.4 50.8 76.2
119 32.7 24.1 36.1



#58
Ethyl Benzene
Concen: 1.184 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. -0.022 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

Tgt Ion: 91 Resp: 330223
Ion Ratio Lower Upper
91 100
106 30.4 25.4 38.0





#59

m/p-Xylene

Concen: 4.683 ppbv

RT: 12.333 min Scan# 3044

Delta R.T. -0.041 min

Lab File: VL039705.D

Acq: 10 Oct 2022 20:58

Instrument :

MSVOA_L

ClientSampleId :

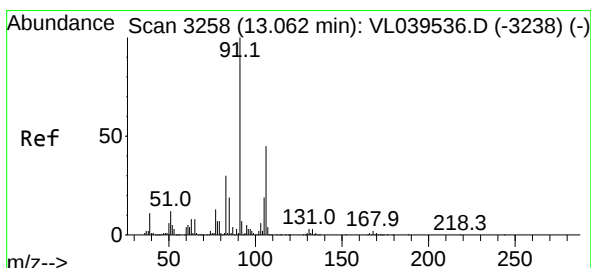
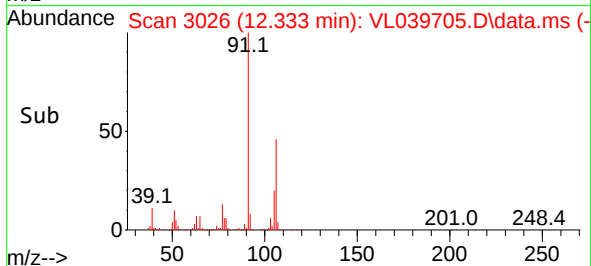
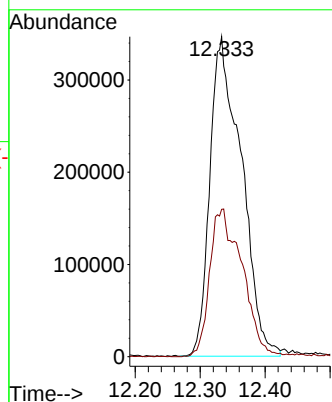
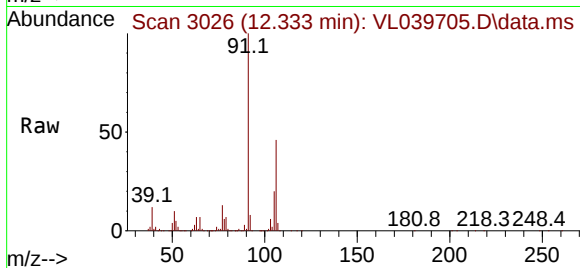
OA1

Tgt Ion: 91 Resp: 1162253

Ion Ratio Lower Upper

91 100

106 47.9 35.4 53.2



#60

o-Xylene

Concen: 1.881 ppbv

RT: 13.044 min Scan# 3247

Delta R.T. -0.019 min

Lab File: VL039705.D

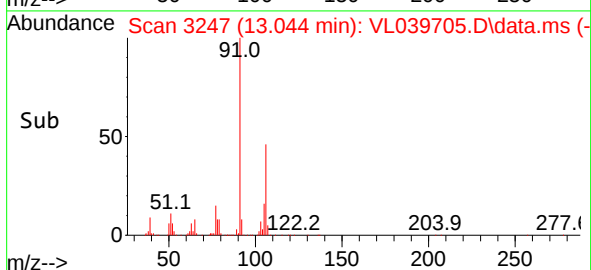
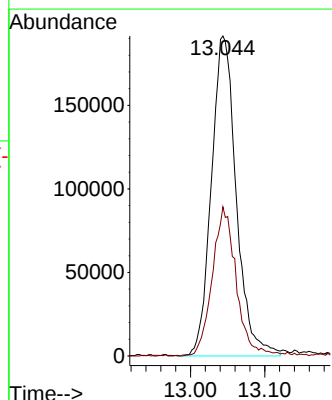
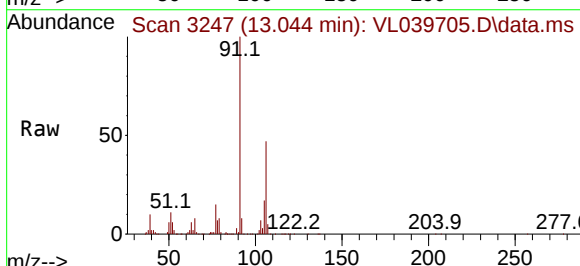
Acq: 10 Oct 2022 20:58

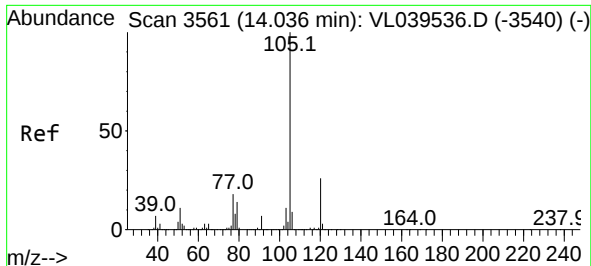
Tgt Ion: 91 Resp: 445894

Ion Ratio Lower Upper

91 100

106 45.2 22.4 67.3

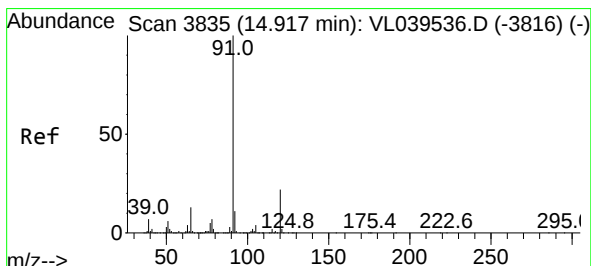
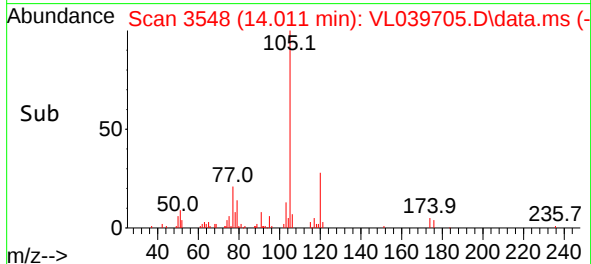
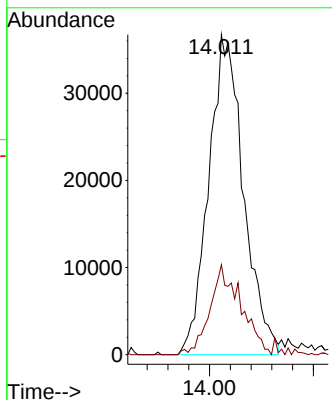
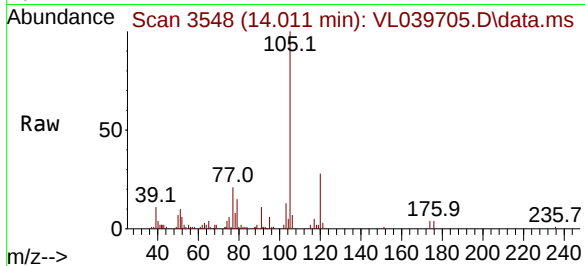




#62
Isopropylbenzene
Concen: 0.240 ppbv
RT: 14.011 min Scan# 31
Delta R.T. -0.025 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

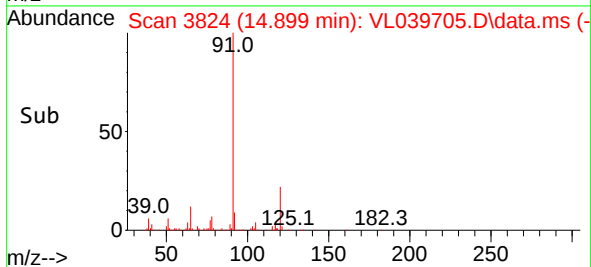
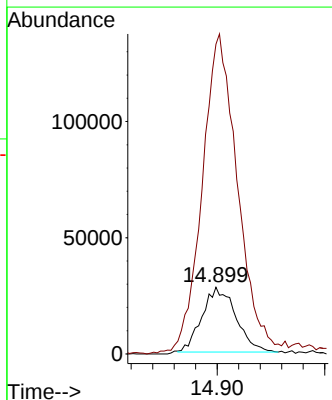
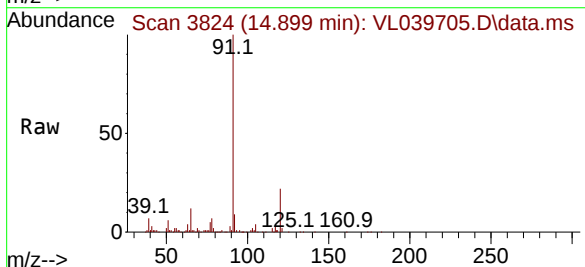
Instrument :
MSVOA_L
ClientSampleId :
OA1

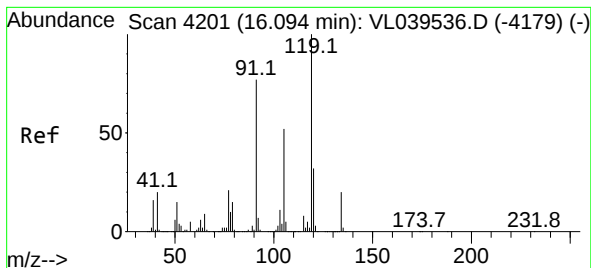
Tgt Ion:105 Resp: 85449
Ion Ratio Lower Upper
105 100
120 26.2 20.7 31.1



#64
n-propylbenzene
Concen: 0.665 ppbv
RT: 14.899 min Scan# 3824
Delta R.T. -0.019 min
Lab File: VL039705.D
Acq: 10 Oct 2022 20:58

Tgt Ion:120 Resp: 60761
Ion Ratio Lower Upper
120 100
91 518.7 367.2 550.8





#65

tert-Butylbenzene

Concen: 0.315 ppbv

RT: 16.095 min Scan# 41

Delta R.T. 0.001 min

Lab File: VL039705.D

Acq: 10 Oct 2022 20:58

Instrument :

MSVOA_L

ClientSampleId :

OA1

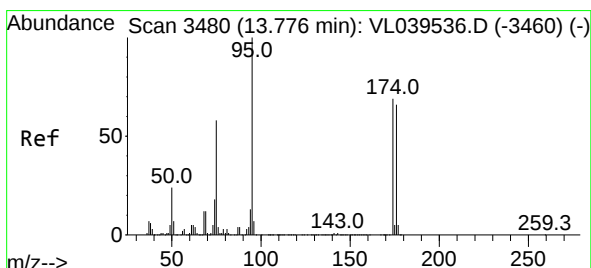
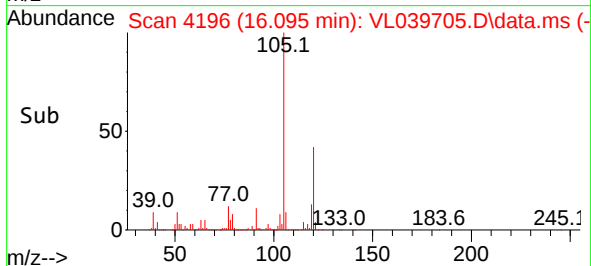
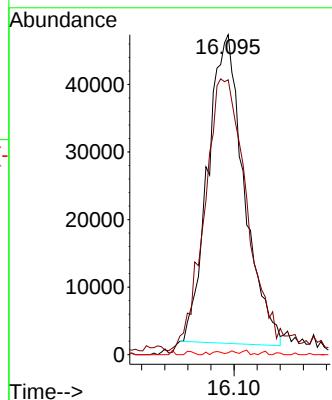
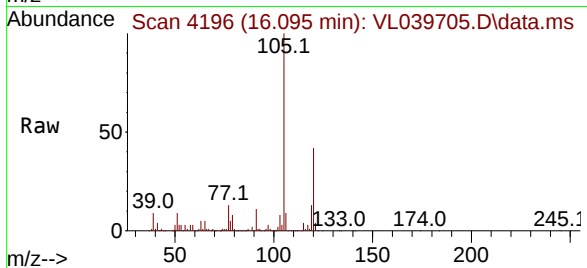
Tgt Ion:119 Resp: 99389

Ion Ratio Lower Upper

119 100

91 106.8 63.4 95.2#

134 1.1 15.9 23.9#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.053 ppbv

RT: 13.761 min Scan# 3470

Delta R.T. -0.015 min

Lab File: VL039705.D

Acq: 10 Oct 2022 20:58

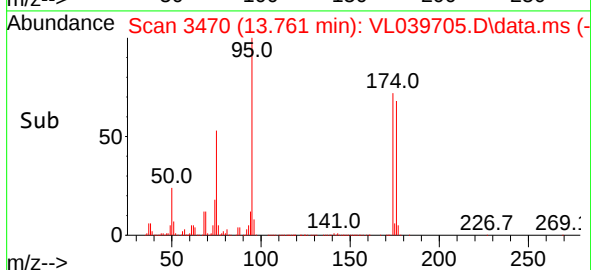
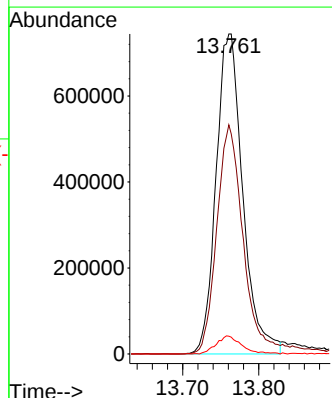
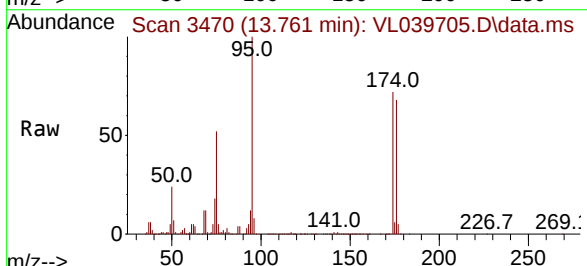
Tgt Ion: 95 Resp: 1815320

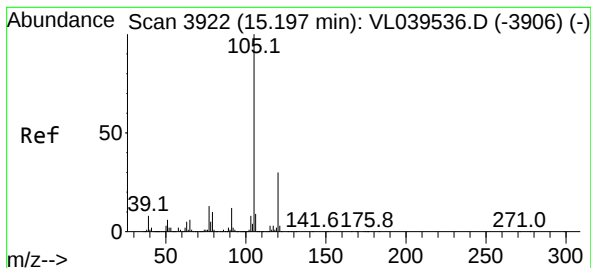
Ion Ratio Lower Upper

95 100

174 73.7 55.9 83.9

175 5.4 4.2 6.4





#72

4-Ethyltoluene

Concen: 1.535 ppbv

RT: 15.175 min Scan# 3910

Delta R.T. -0.022 min

Lab File: VL039705.D

Acq: 10 Oct 2022 20:58

Instrument :

MSVOA_1

ClientSampleId :

OA1

Tgt Ion:105 Resp: 415453

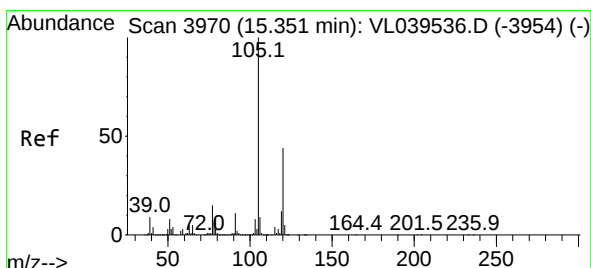
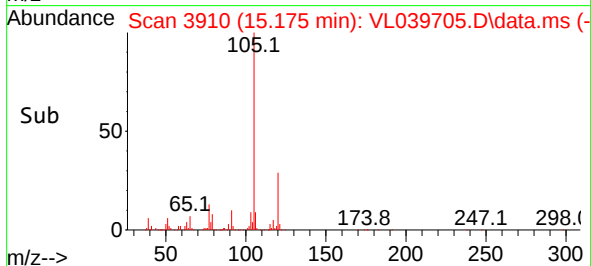
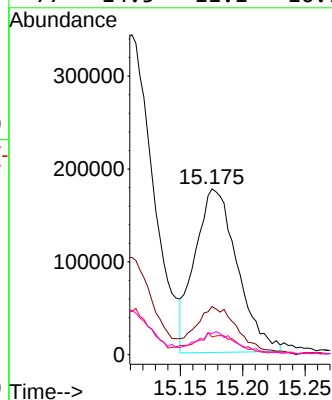
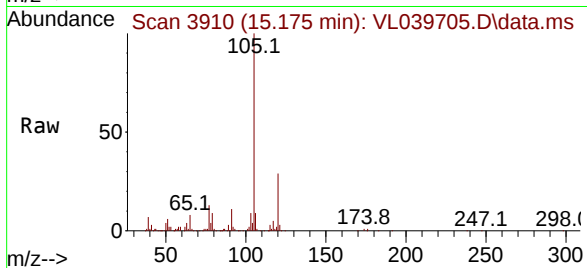
Ion Ratio Lower Upper

105 100

120 30.2 24.2 36.2

91 13.3 10.2 15.4

77 14.5 11.1 16.7



#73

1,3,5-Trimethylbenzene

Concen: 1.141 ppbv

RT: 15.336 min Scan# 3960

Delta R.T. -0.015 min

Lab File: VL039705.D

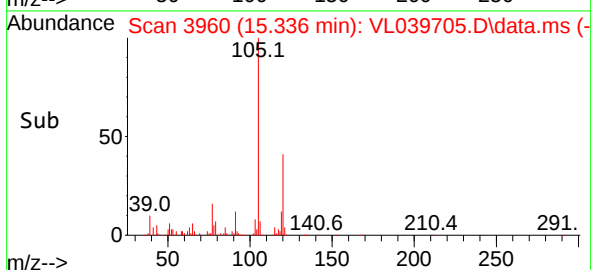
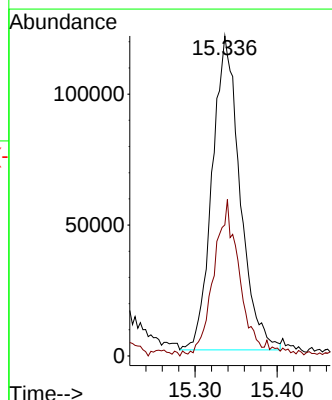
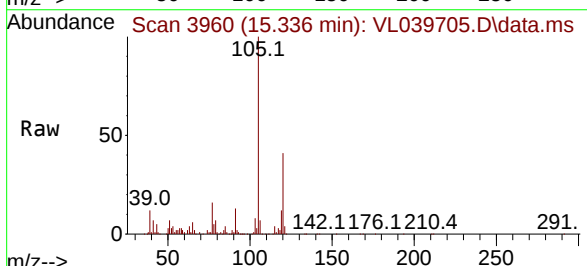
Acq: 10 Oct 2022 20:58

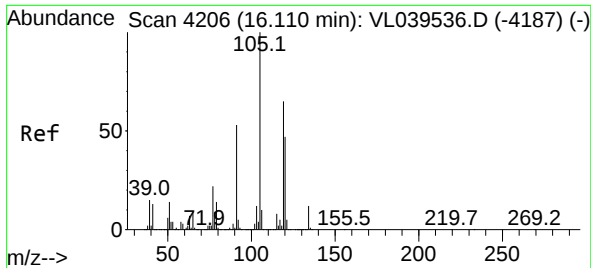
Tgt Ion:105 Resp: 282548

Ion Ratio Lower Upper

105 100

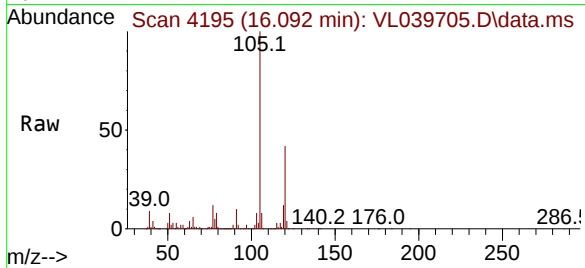
120 41.7 38.2 57.4





#74
 1,2,4-Trimethylbenzene
 Concen: 3.312 ppbv
 RT: 16.092 min Scan# 41
 Delta R.T. -0.019 min
 Lab File: VL039705.D
 Acq: 10 Oct 2022 20:58

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion:	105	Resp:	919301
Ion	Ratio	Lower	Upper
105	100		
120	42.3	39.5	59.3
91	10.0	39.2	58.8#
77	11.9	17.2	25.8#

