

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101722\
 Data File : VL039721.D
 Acq On : 17 Oct 2022 16:07
 Operator : SY/AP
 Sample : N5169-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Oct 18 05:27:07 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 : Tue Oct 18 05:23:57 2022
 Response via : Initial Calibration

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

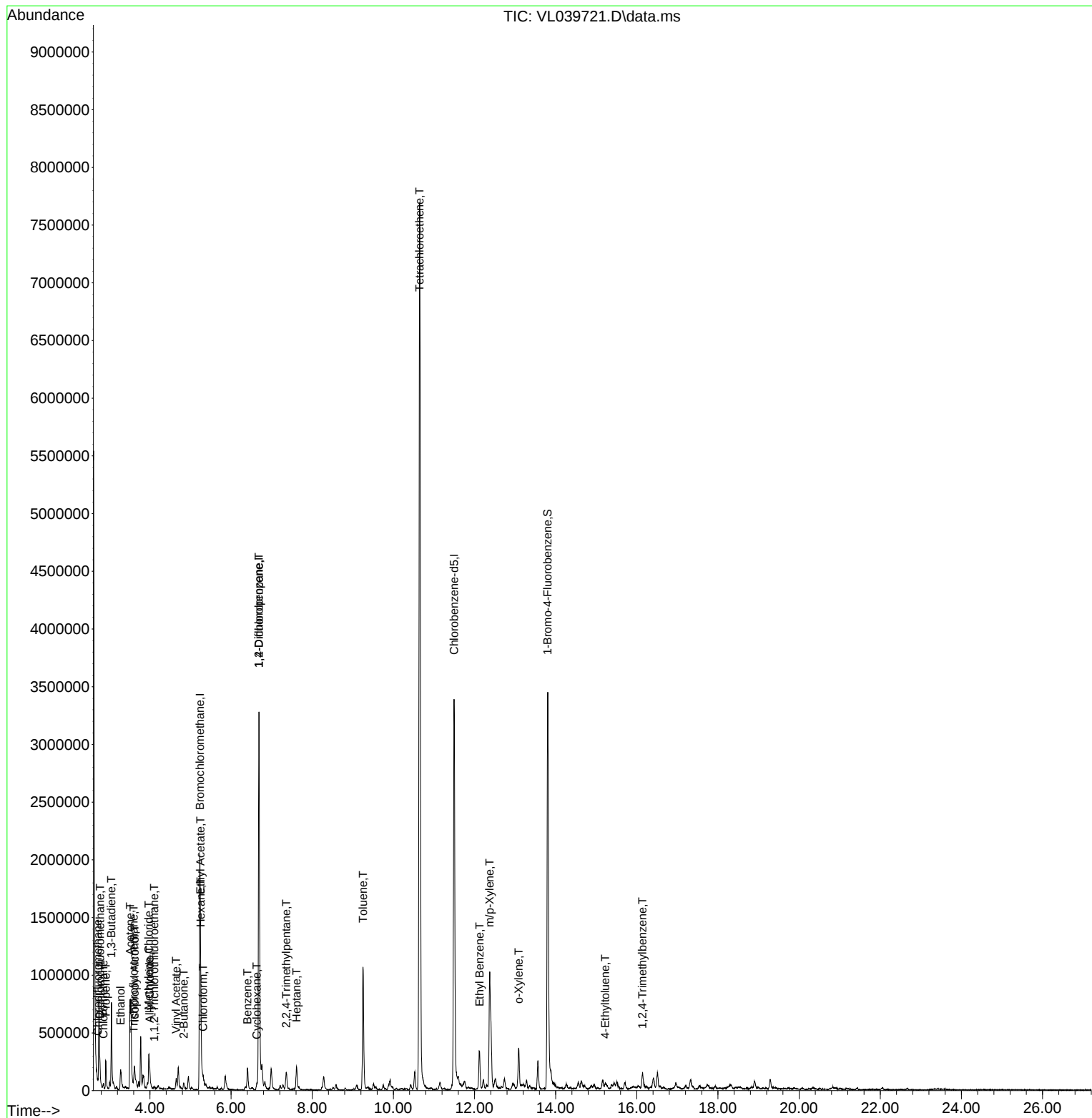
Internal Standards						
1) Bromochloromethane	5.230	49	1019444	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.687	114	2628582	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.497	117	2322380	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.802	95	1688650	9.740	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.771	85	82278	0.696	ppbv	100
3) Chlorodifluoromethane	2.713	51	82732	0.684	ppbv #	77
4) Chloromethane	2.851	50	29006	0.397	ppbv #	82
9) Propene	2.912	41	62839	1.137	ppbv	89
10) Heptane	7.613	43	75706	0.587	ppbv	95
11) Trichlorofluoromethane	3.600	101	31488	0.215	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.105	101	5531	0.050	ppbv #	71
13) Ethanol	3.279	45	201607	47.888	ppbv	75
15) Acetone	3.510	43	1042758	9.192	ppbv	93
16) 1,3-Butadiene	3.050	39	99132	1.723	ppbv #	20
19) Isopropyl Alcohol	3.623	45	185788	3.213	ppbv #	97
20) Methylene Chloride	3.970	84	99573	1.899	ppbv	97
21) Allyl Chloride	3.996	41	19779	0.256	ppbv #	52
23) Vinyl Acetate	4.648	43	33864	0.660	ppbv #	1
25) Ethyl Acetate	5.246	43	223196	0.902	ppbv #	92
26) Hexane	5.253	57	191722	1.826	ppbv #	57
29) Chloroform	5.308	83	12608	0.083	ppbv	85
30) Cyclohexane	6.632	84	4881	0.060	ppbv #	1
34) 2-Butanone	4.835	43	63531	0.492	ppbv	95
36) Benzene	6.401	78	151749	0.755	ppbv #	92
39) 1,2-Dichloropropane	6.687	63	622245	8.019	ppbv #	26
44) 2,2,4-Trimethylpentane	7.359	57	66232	0.191	ppbv #	28
52) Tetrachloroethene	10.645	164	2071718	27.021	ppbv	95
53) Toluene	9.253	91	835475	3.738	ppbv	100
58) Ethyl Benzene	12.124	91	133783	0.500	ppbv	92
59) m/p-Xylene	12.375	91	1058176	4.441	ppbv	94
60) o-Xylene	13.089	91	269307	1.183	ppbv	98
72) 4-Ethyltoluene	15.224	105	21567	0.083	ppbv #	62
74) 1,2,4-Trimethylbenzene	16.140	105	92698	0.348	ppbv #	67

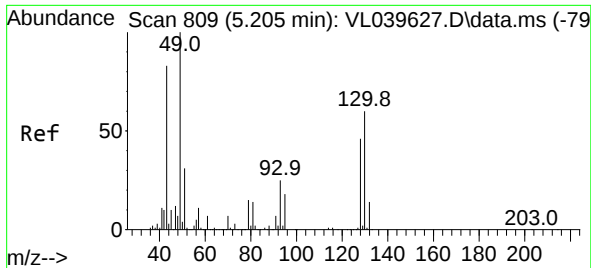
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 18 05:23:57 2022
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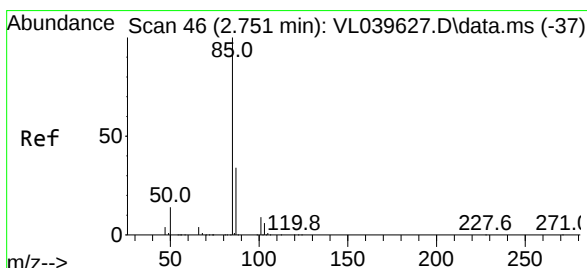
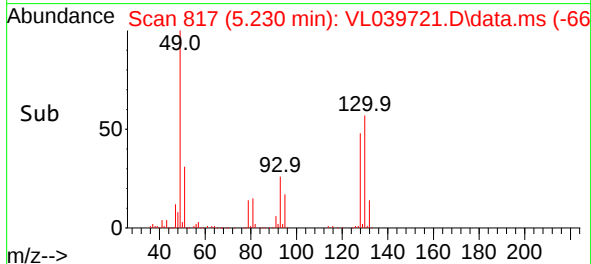
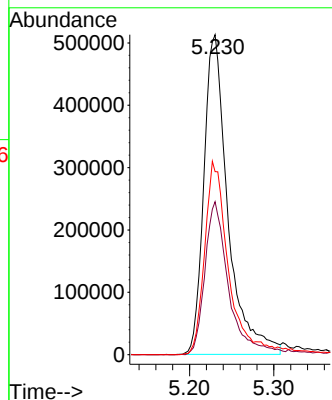
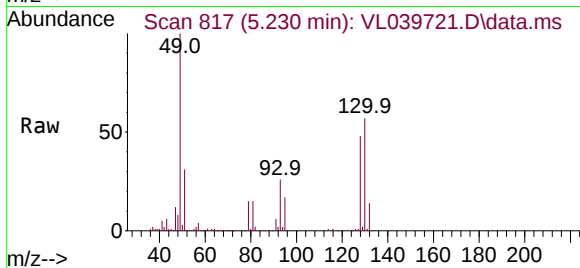




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.230 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

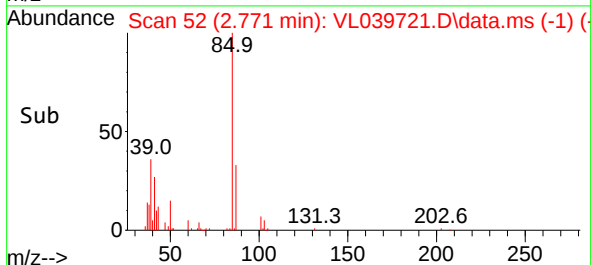
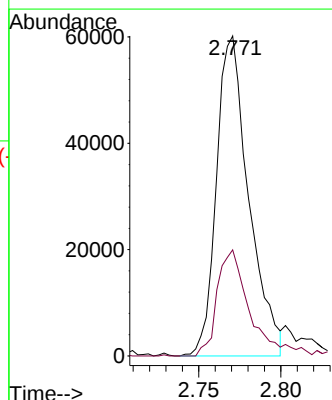
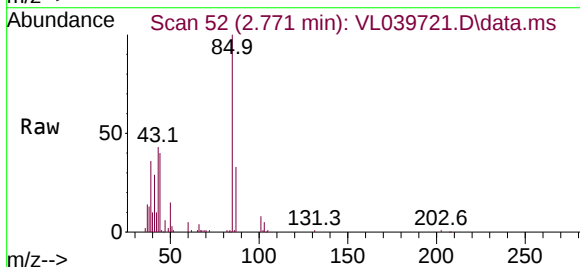
Instrument :
MSVOA_L
ClientSampleId :
IA1

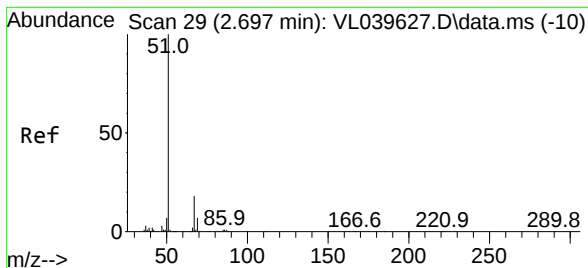
Tgt Ion: 49 Resp: 1019444
Ion Ratio Lower Upper
49 100
128 48.9 26.7 80.0
130 62.7 34.3 102.8



#2
Dichlorodifluoromethane
Concen: 0.696 ppbv
RT: 2.771 min Scan# 52
Delta R.T. 0.003 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

Tgt Ion: 85 Resp: 82278
Ion Ratio Lower Upper
85 100
87 33.2 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.684 ppbv

RT: 2.713 min Scan# 34

Delta R.T. -0.000 min

Lab File: VL039721.D

Acq: 17 Oct 2022 16:07

Instrument :

MSVOA_L

ClientSampleId :

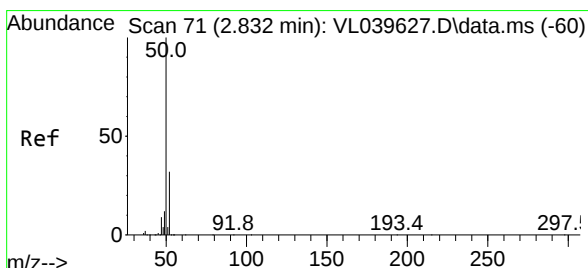
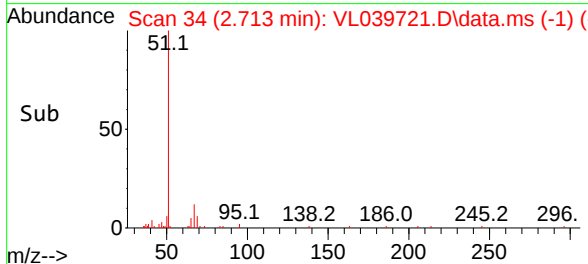
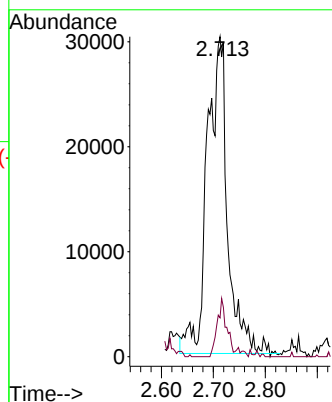
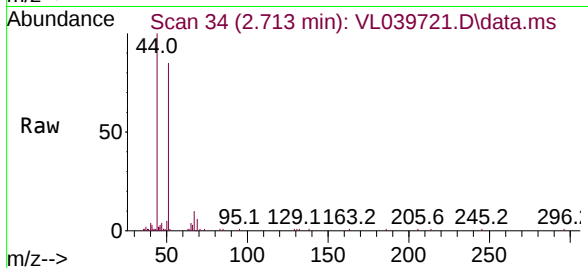
IA1

Tgt Ion: 51 Resp: 82732

Ion Ratio Lower Upper

51 100

67 9.0 15.7 23.5#



#4

Chloromethane

Concen: 0.397 ppbv

RT: 2.851 min Scan# 77

Delta R.T. -0.000 min

Lab File: VL039721.D

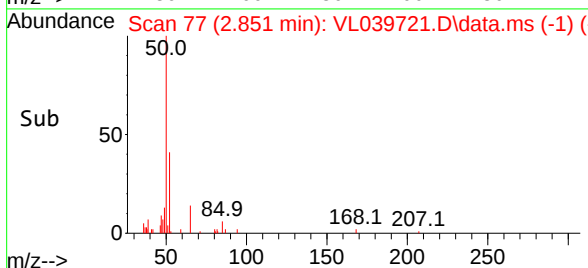
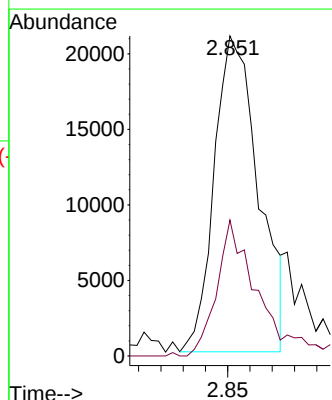
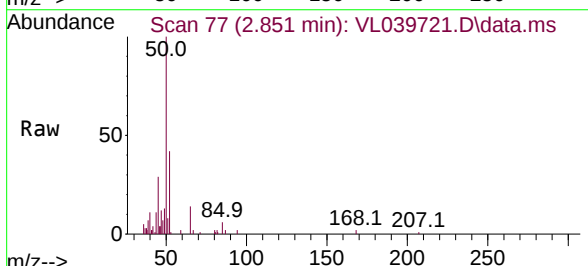
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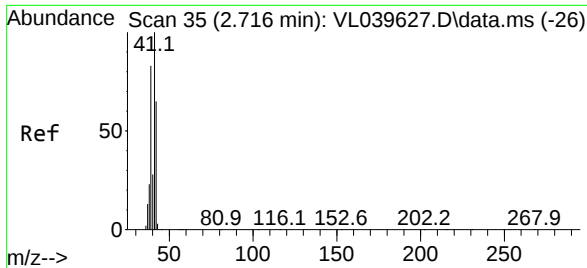
Tgt Ion: 50 Resp: 29006

Ion Ratio Lower Upper

50 100

52 43.0 26.5 39.7#

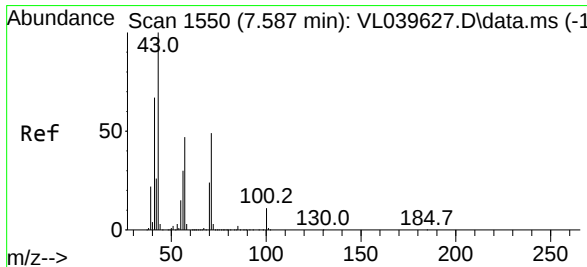
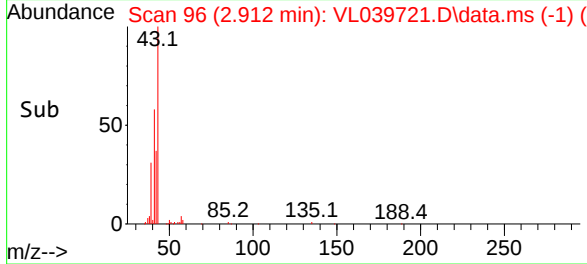
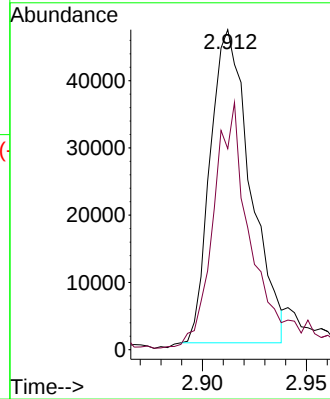
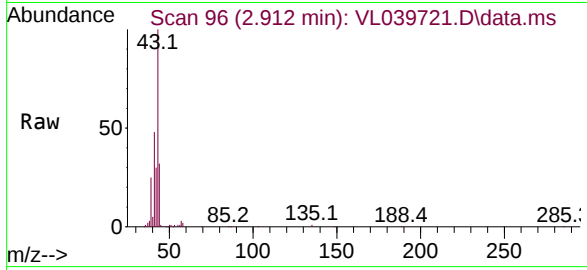




#9
 Propene
 Concen: 1.137 ppbv
 RT: 2.912 min Scan# 90
 Delta R.T. 0.180 min
 Lab File: VL039721.D
 Acq: 17 Oct 2022 16:07

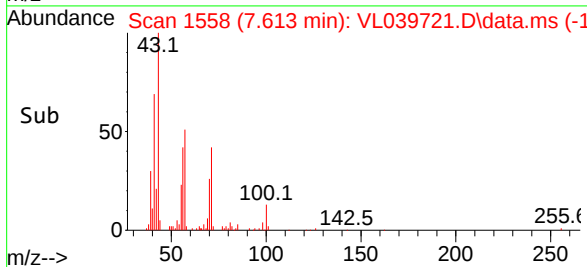
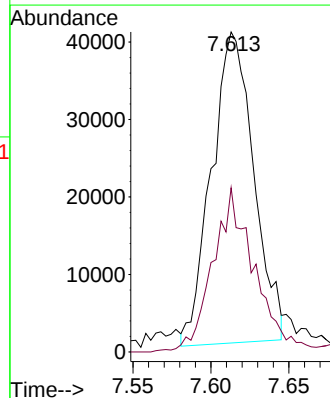
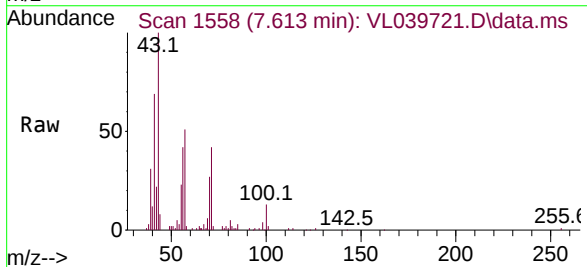
Instrument :
 MSVOA_1
 ClientSampleId :
 IA1

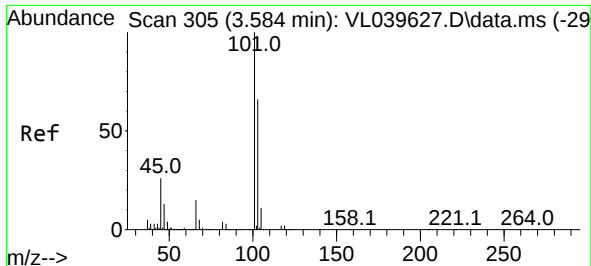
Tgt Ion: 41 Resp: 62839
 Ion Ratio Lower Upper
 41 100
 42 77.7 55.2 82.8



#10
 Heptane
 Concen: 0.587 ppbv
 RT: 7.613 min Scan# 1558
 Delta R.T. 0.003 min
 Lab File: VL039721.D
 Acq: 17 Oct 2022 16:07

Tgt Ion: 43 Resp: 75706
 Ion Ratio Lower Upper
 43 100
 57 54.1 40.5 60.7

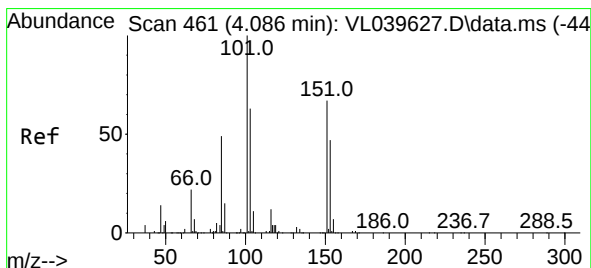
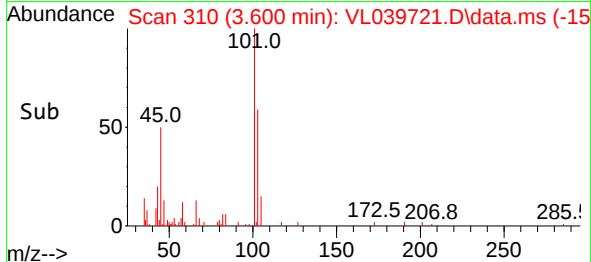
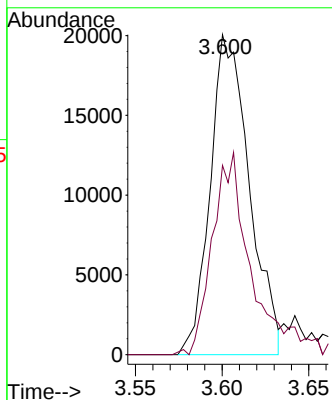
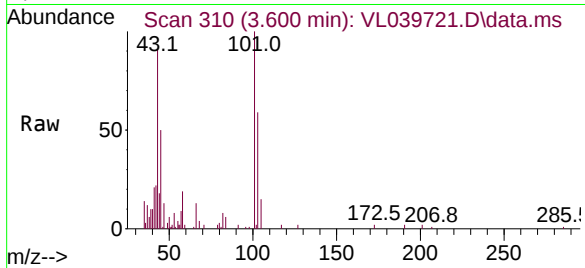




#11
 Trichlorofluoromethane
 Concen: 0.215 ppbv
 RT: 3.600 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VL039721.D
 Acq: 17 Oct 2022 16:07

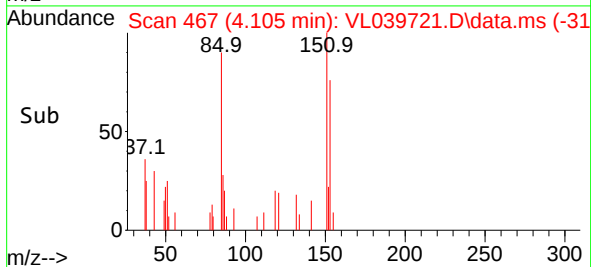
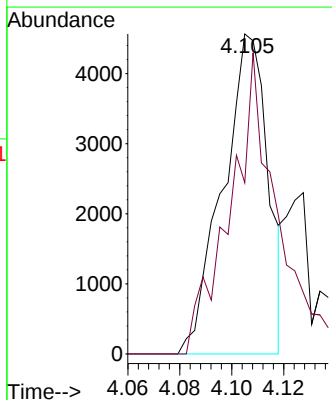
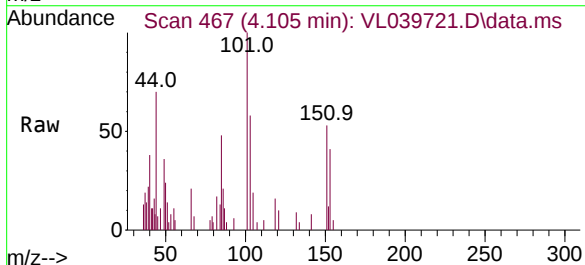
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

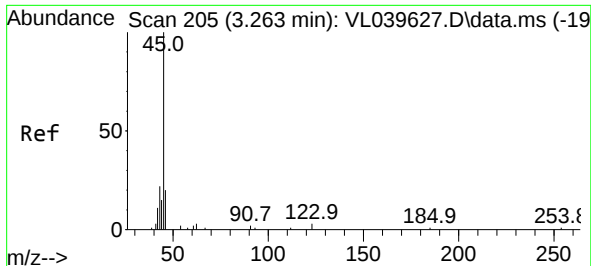
Tgt Ion:101 Resp: 31488
 Ion Ratio Lower Upper
 101 100
 103 58.3 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.050 ppbv
 RT: 4.105 min Scan# 467
 Delta R.T. -0.000 min
 Lab File: VL039721.D
 Acq: 17 Oct 2022 16:07

Tgt Ion:101 Resp: 5531
 Ion Ratio Lower Upper
 101 100
 151 97.6 58.9 88.3#

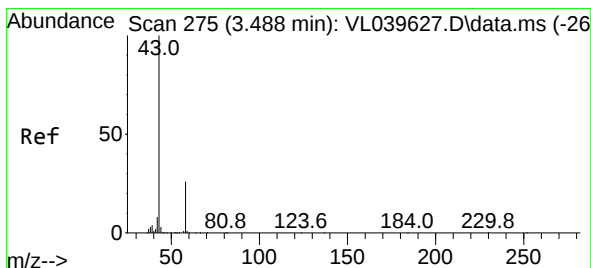
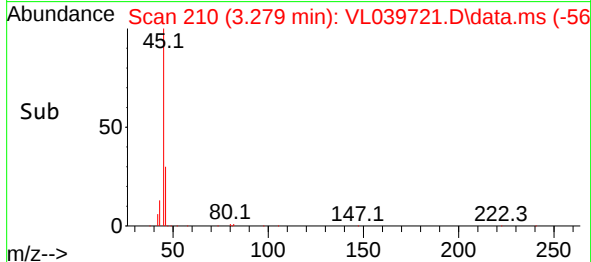
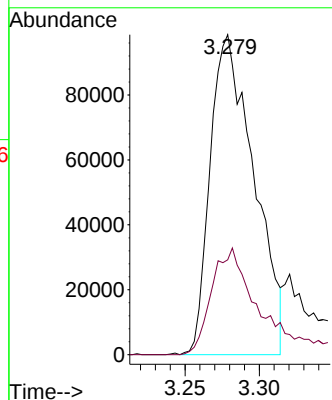
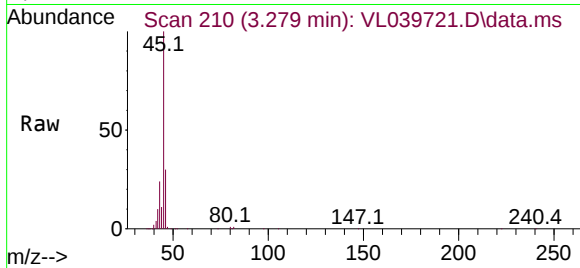




#13
Ethanol
Concen: 47.888 ppbv
RT: 3.279 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

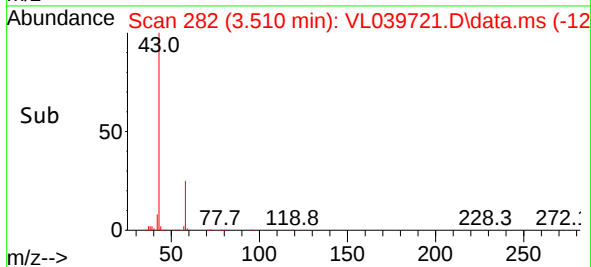
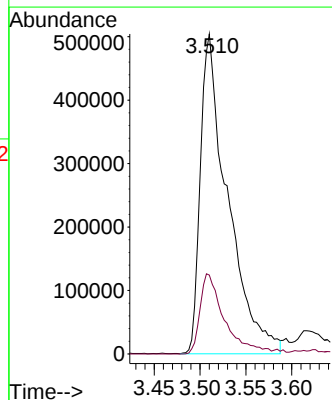
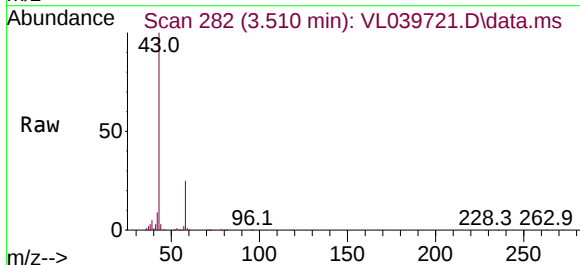
Instrument :
MSVOA_L
ClientSampleId :
IA1

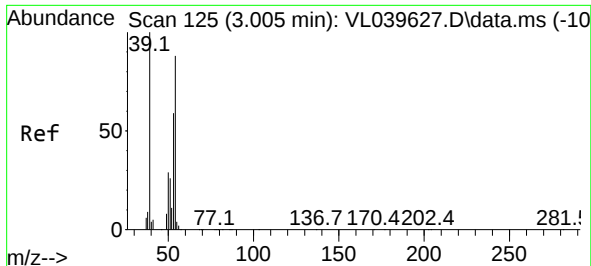
Tgt Ion: 45 Resp: 201607
Ion Ratio Lower Upper
45 100
46 38.4 22.8 91.2



#15
Acetone
Concen: 9.192 ppbv
RT: 3.510 min Scan# 282
Delta R.T. 0.006 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

Tgt Ion: 43 Resp: 1042758
Ion Ratio Lower Upper
43 100
58 22.9 21.0 31.6





#16

1,3-Butadiene

Concen: 1.723 ppbv

RT: 3.050 min Scan# 11

Delta R.T. 0.029 min

Lab File: VL039721.D

Acq: 17 Oct 2022 16:07

Instrument :

MSVOA_L

ClientSampleId :

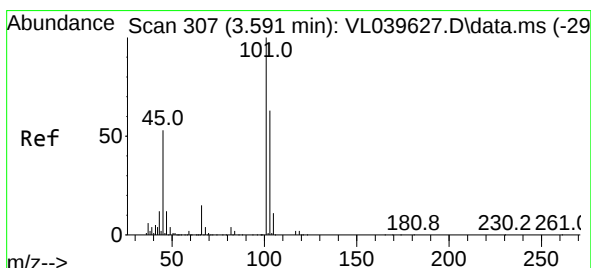
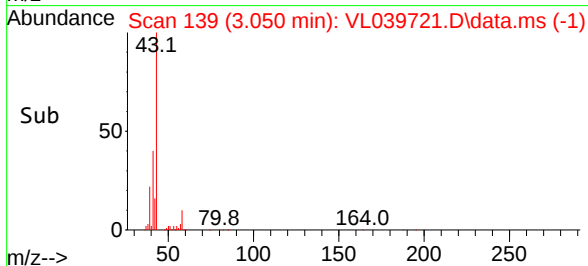
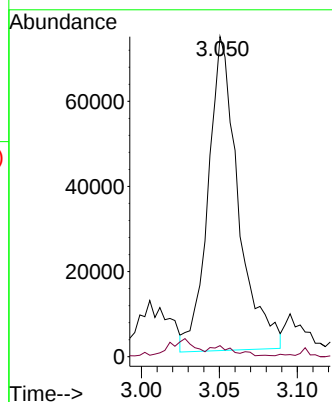
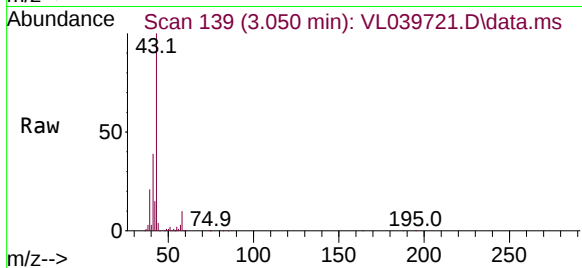
IA1

Tgt Ion: 39 Resp: 99132

Ion Ratio Lower Upper

39 100

54 9.5 63.7 95.5#



#19

Isopropyl Alcohol

Concen: 3.213 ppbv

RT: 3.623 min Scan# 317

Delta R.T. 0.010 min

Lab File: VL039721.D

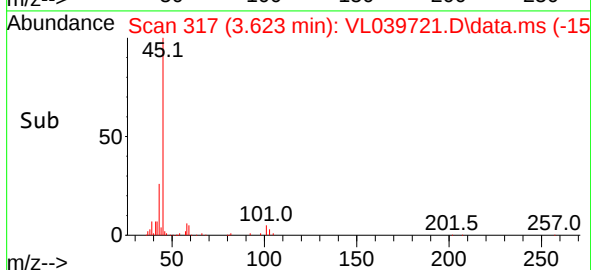
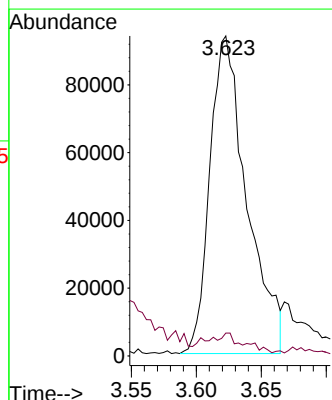
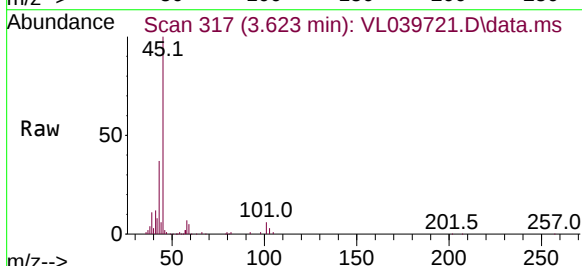
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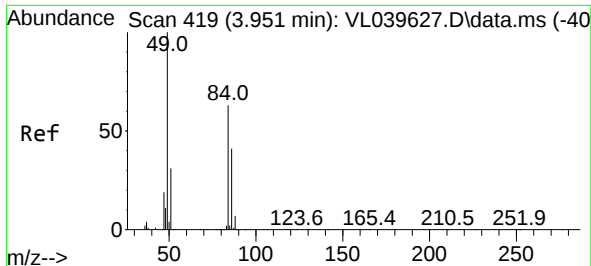
Tgt Ion: 45 Resp: 185788

Ion Ratio Lower Upper

45 100

58 4.9 3.2 4.8#



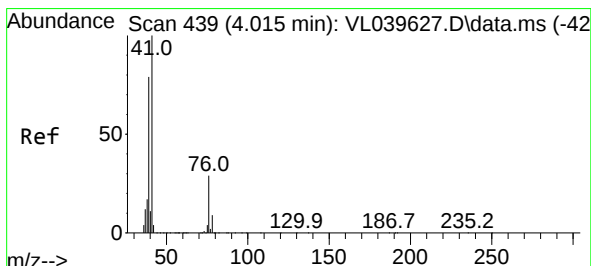
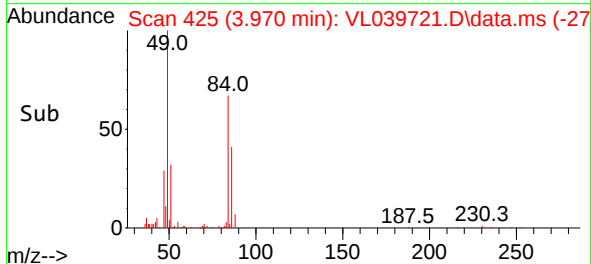
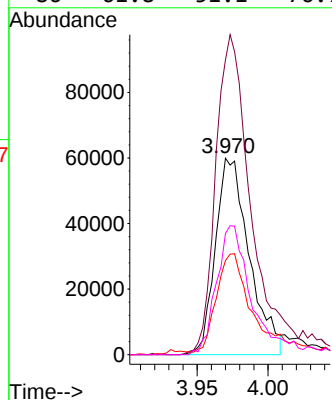
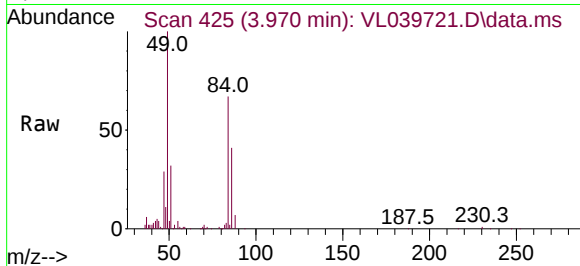


#20
Methylene Chloride
Concen: 1.899 ppbv
RT: 3.970 min Scan# 419
Delta R.T. -0.000 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 84 Resp: 99573

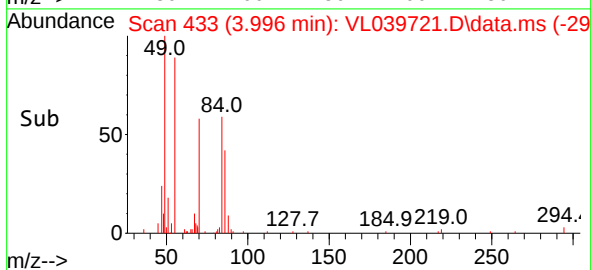
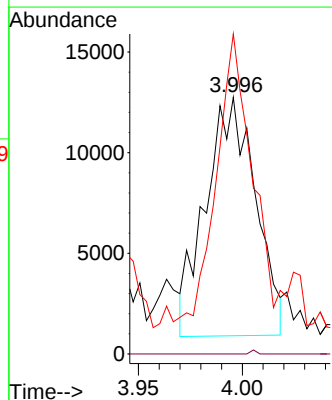
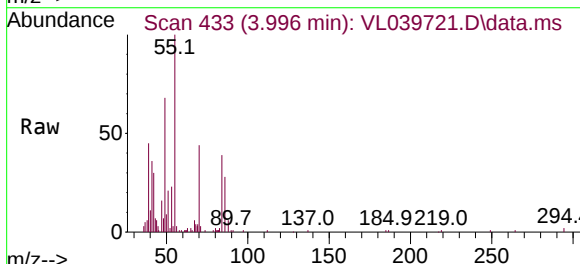
Ion	Ratio	Lower	Upper
84	100		
49	150.1	123.1	184.7
51	45.8	34.4	51.6
86	61.8	51.1	76.7

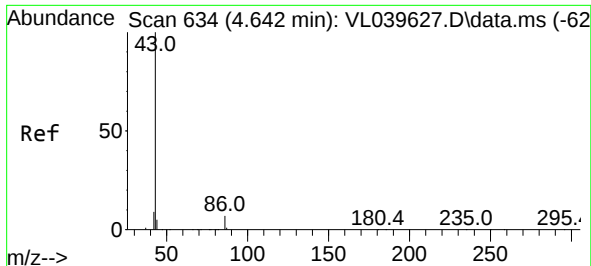


#21
Allyl Chloride
Concen: 0.256 ppbv
RT: 3.996 min Scan# 433
Delta R.T. -0.039 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

Tgt Ion: 41 Resp: 19779

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	118.9	63.5	95.3#



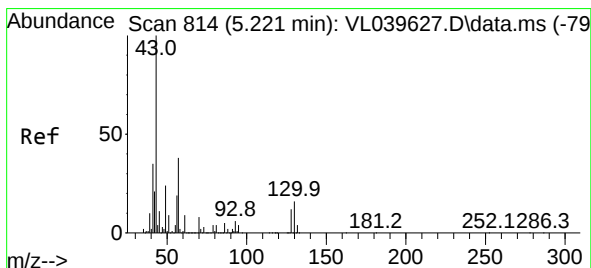
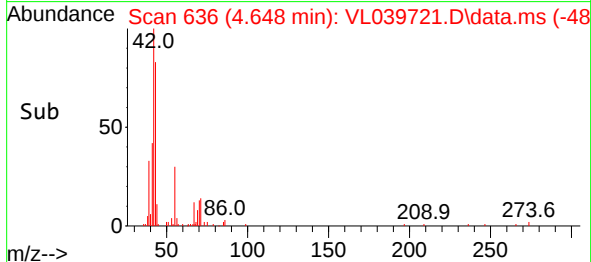
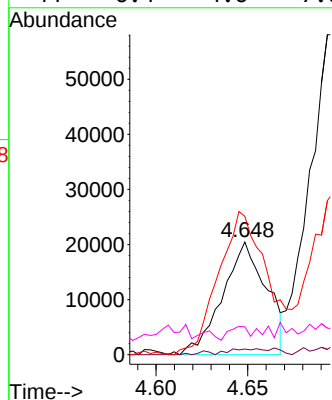
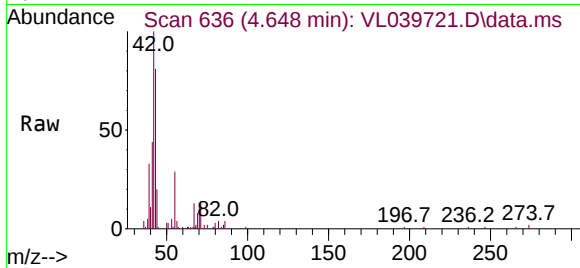


#23
 Vinyl Acetate
 Concen: 0.660 ppbv
 RT: 4.648 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL039721.D
 Acq: 17 Oct 2022 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 43 Resp: 33864

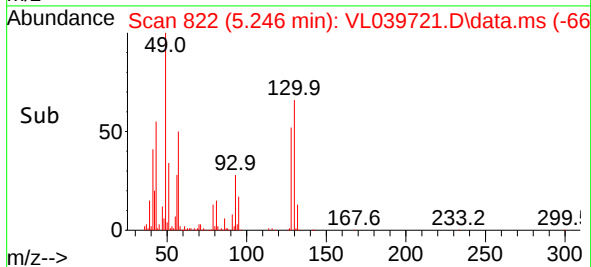
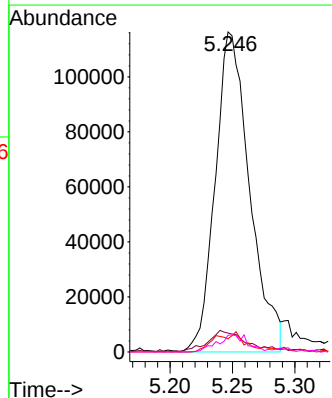
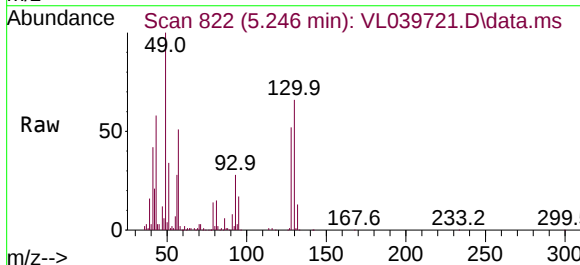
Ion	Ratio	Lower	Upper
43	100		
86	5.0	5.0	7.6#
42	118.5	7.7	11.5#
44	6.4	4.6	7.0

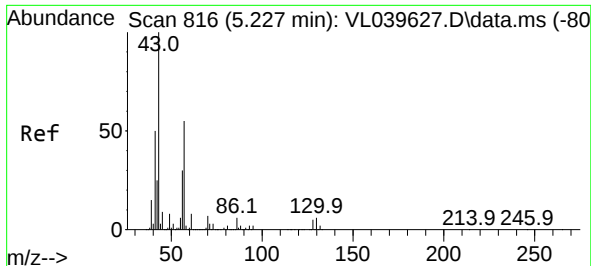


#25
 Ethyl Acetate
 Concen: 0.902 ppbv
 RT: 5.246 min Scan# 822
 Delta R.T. 0.006 min
 Lab File: VL039721.D
 Acq: 17 Oct 2022 16:07

Tgt Ion: 43 Resp: 223196

Ion	Ratio	Lower	Upper
43	100		
45	8.1	8.2	12.4#
61	6.7	8.3	12.5#
70	4.9	5.9	8.9#

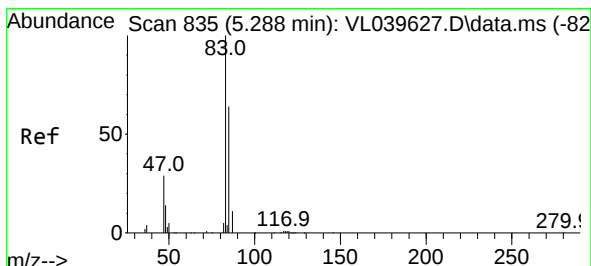
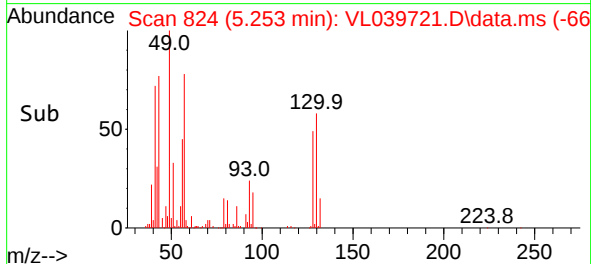
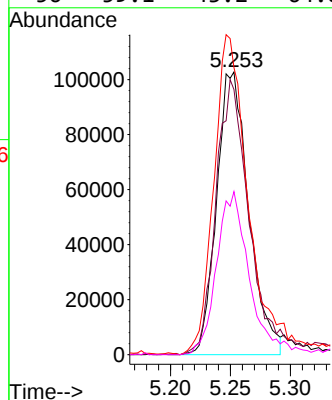
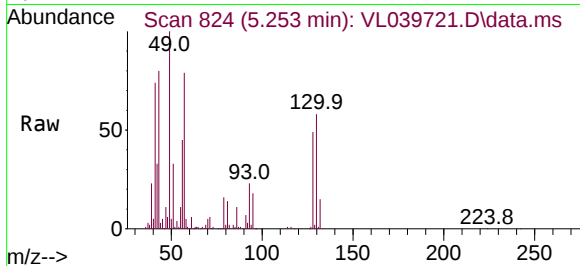




#26
Hexane
Concen: 1.826 ppbv
RT: 5.253 min Scan# 816
Delta R.T. 0.006 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

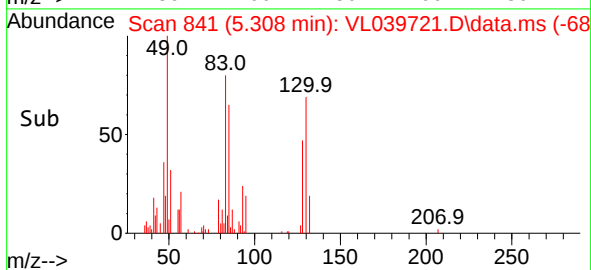
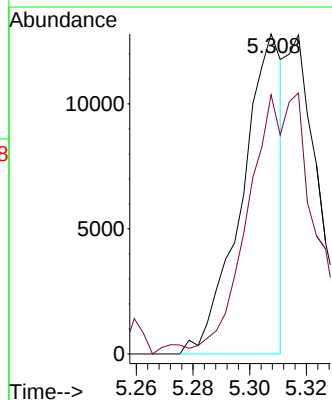
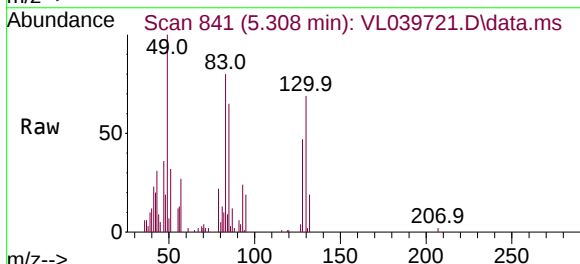
Instrument :
MSVOA_L
ClientSampleId :
IA1

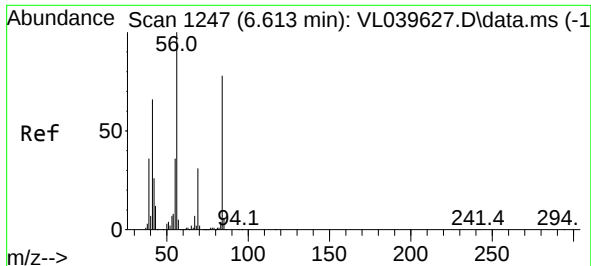
Tgt Ion: 57 Resp: 191722
Ion Ratio Lower Upper
57 100
41 101.3 76.9 115.3
43 126.1 191.0 286.6#
56 59.1 43.2 64.8



#29
Chloroform
Concen: 0.083 ppbv
RT: 5.308 min Scan# 841
Delta R.T. -0.000 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

Tgt Ion: 83 Resp: 12608
Ion Ratio Lower Upper
83 100
85 78.2 52.8 79.2

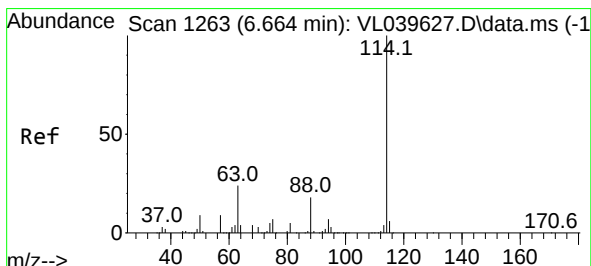
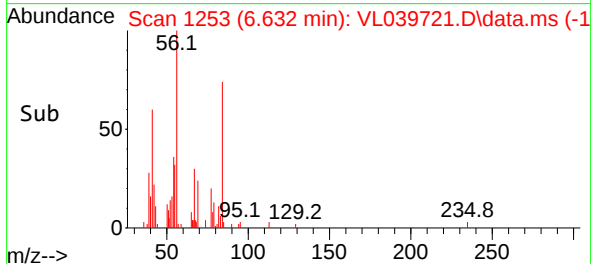
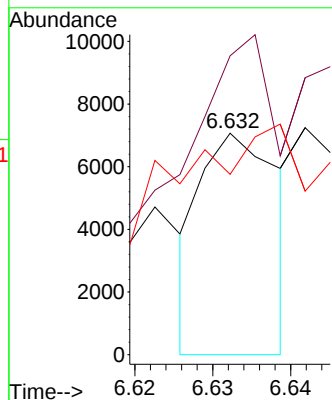
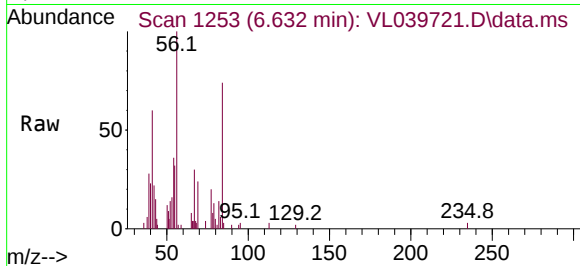




#30
Cyclohexane
Concen: 0.060 ppbv
RT: 6.632 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

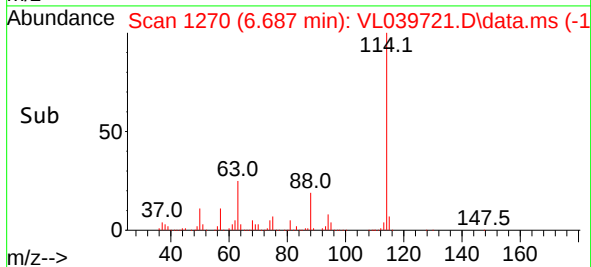
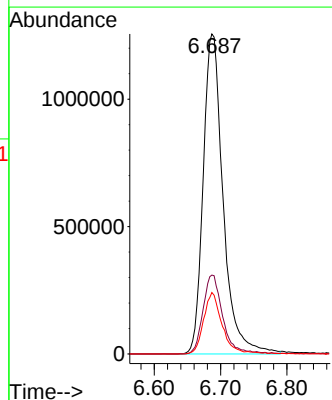
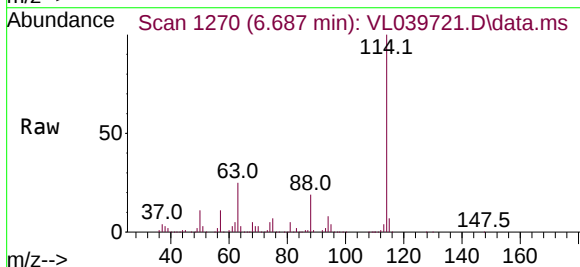
Instrument :
MSVOA_L
ClientSampleId :
IA1

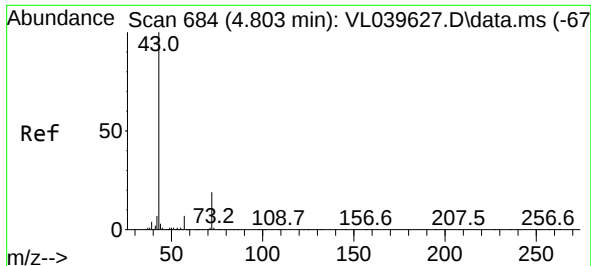
Tgt Ion: 84 Resp: 4881
Ion Ratio Lower Upper
84 100
56 396.7 107.7 161.5#
41 356.3 67.7 101.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.687 min Scan# 1270
Delta R.T. -0.000 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

Tgt Ion: 114 Resp: 2628582
Ion Ratio Lower Upper
114 100
63 24.6 20.2 30.4
88 18.1 14.5 21.7

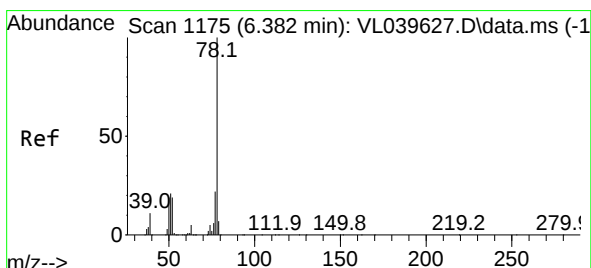
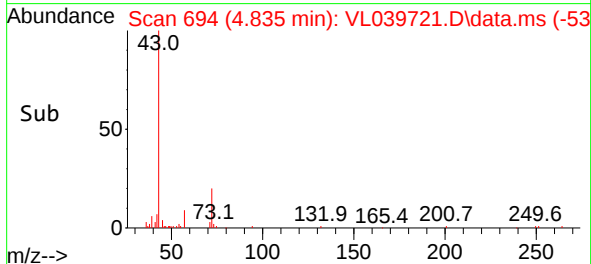
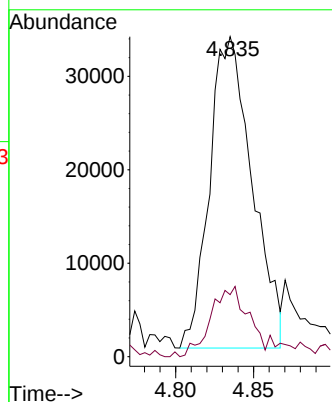
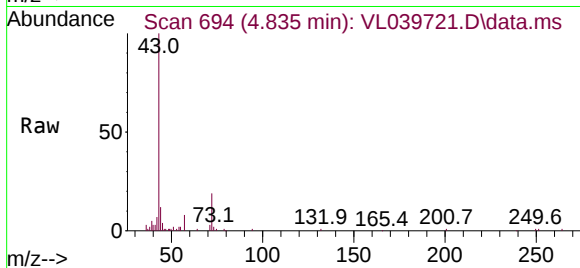




#34
2-Butanone
Concen: 0.492 ppbv
RT: 4.835 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

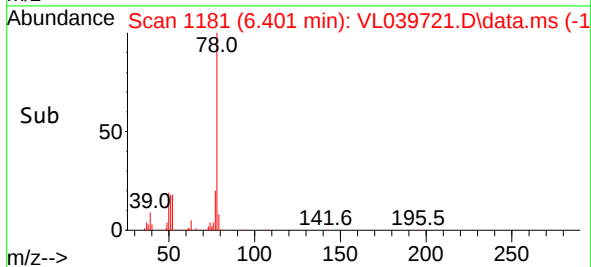
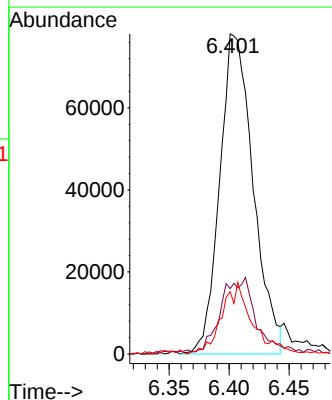
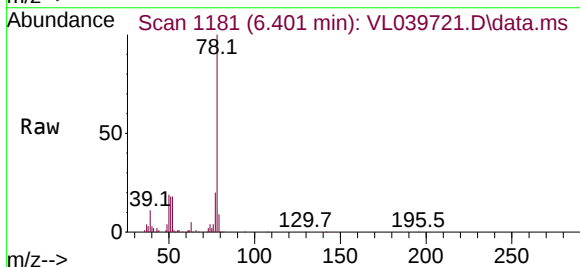
Instrument :
MSVOA_L
ClientSampleId :
IA1

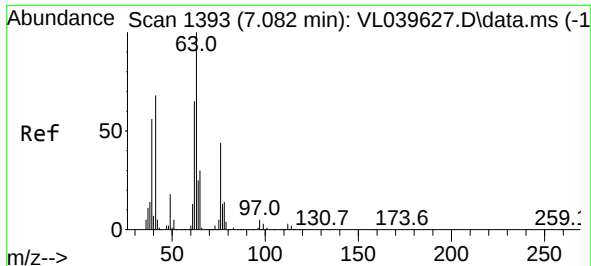
Tgt Ion: 43 Resp: 63531
Ion Ratio Lower Upper
43 100
72 24.9 17.9 26.9



#36
Benzene
Concen: 0.755 ppbv
RT: 6.401 min Scan# 1181
Delta R.T. -0.000 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

Tgt Ion: 78 Resp: 151749
Ion Ratio Lower Upper
78 100
77 19.6 20.3 30.5#
50 18.2 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.019 ppbv

RT: 6.687 min Scan# 1

Delta R.T. -0.418 min

Lab File: VL039721.D

Acq: 17 Oct 2022 16:07

Instrument :

MSVOA_L

ClientSampleId :

IA1

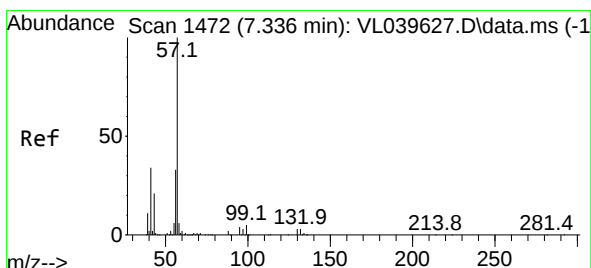
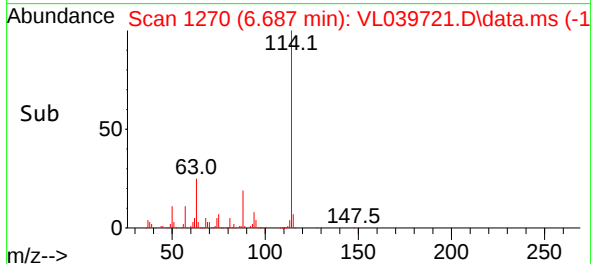
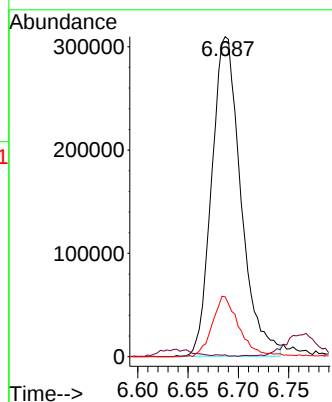
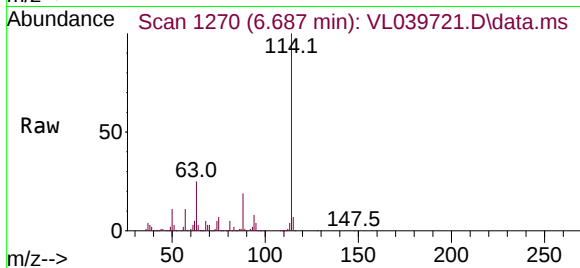
Tgt Ion: 63 Resp: 622245

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 18.8 51.4 77.0#



#44

2,2,4-Trimethylpentane

Concen: 0.191 ppbv

RT: 7.359 min Scan# 1479

Delta R.T. 0.003 min

Lab File: VL039721.D

Acq: 17 Oct 2022 16:07

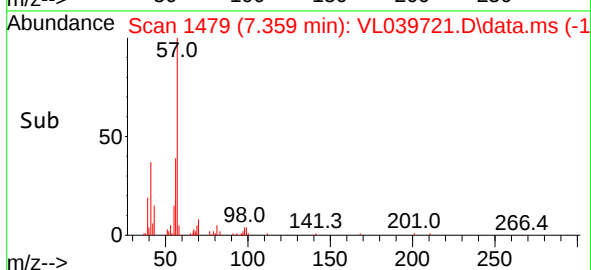
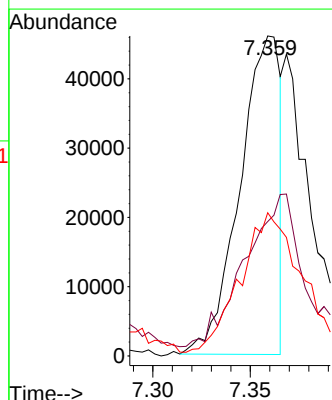
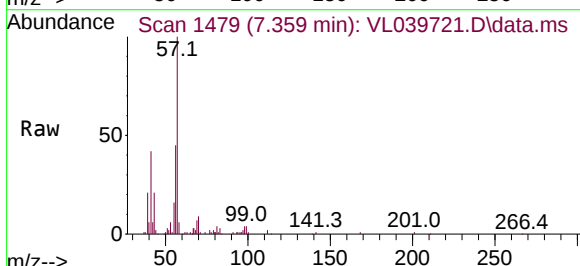
Tgt Ion: 57 Resp: 66232

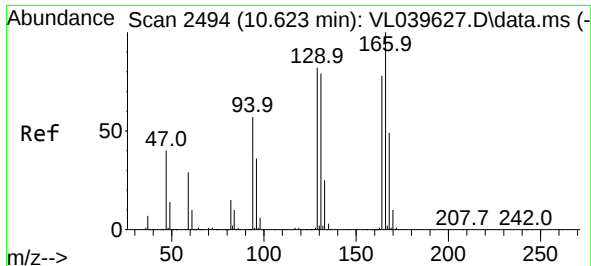
Ion Ratio Lower Upper

57 100

41 0.0 27.4 41.2#

56 77.0 24.5 36.7#

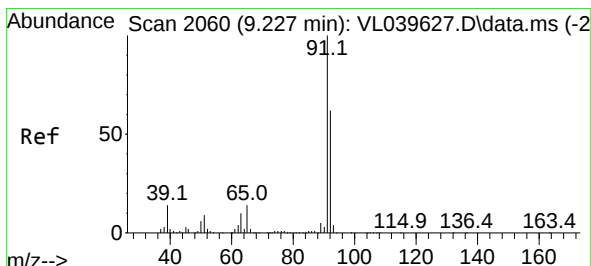
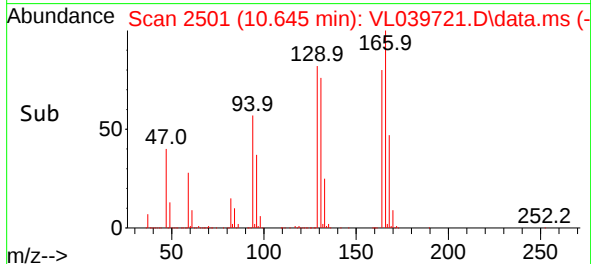
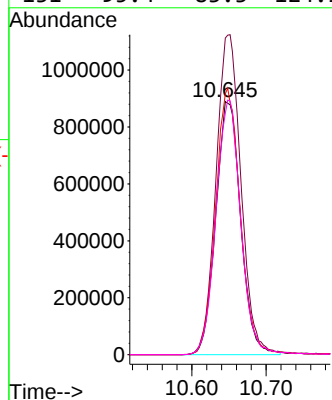
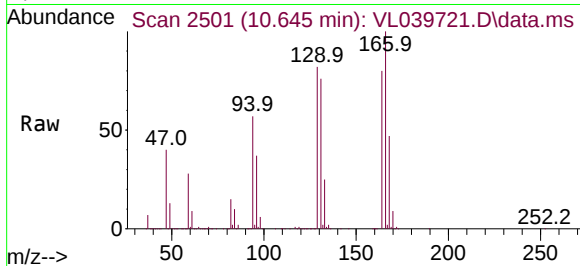




#52
Tetrachloroethene
Concen: 27.021 ppbv
RT: 10.645 min Scan# 2071
Delta R.T. -0.000 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

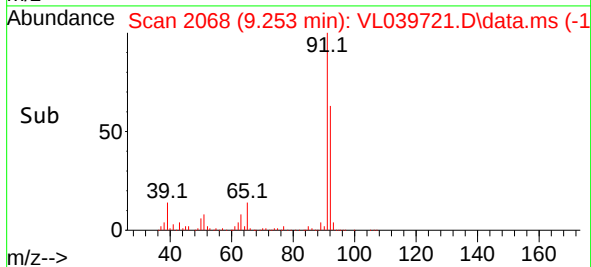
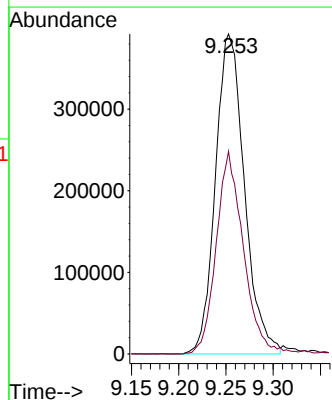
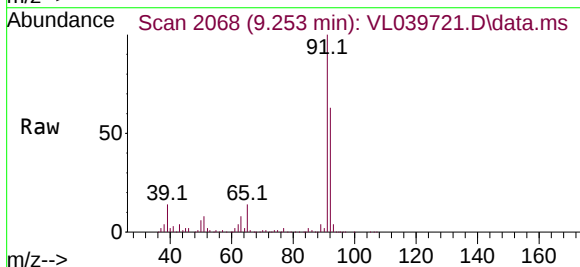
Instrument :
MSVOA_L
ClientSampleId :
IA1

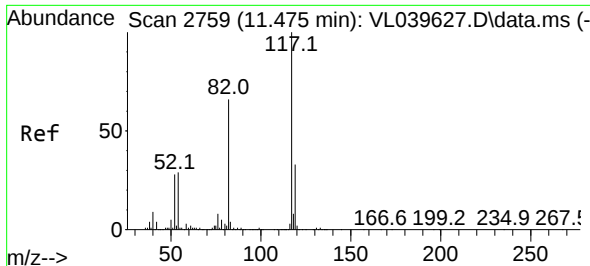
Tgt Ion:164 Resp: 2071718
Ion Ratio Lower Upper
164 100
166 125.1 102.2 153.2
129 103.0 85.8 128.8
131 95.4 83.3 124.9



#53
Toluene
Concen: 3.738 ppbv
RT: 9.253 min Scan# 2068
Delta R.T. 0.003 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

Tgt Ion: 91 Resp: 835475
Ion Ratio Lower Upper
91 100
92 60.0 48.2 72.2

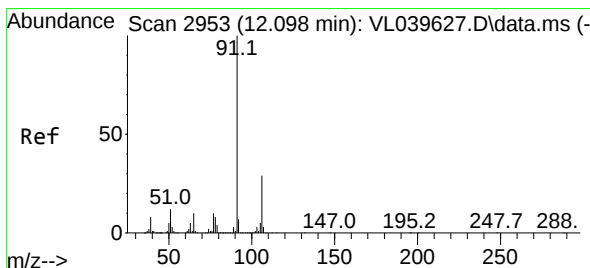
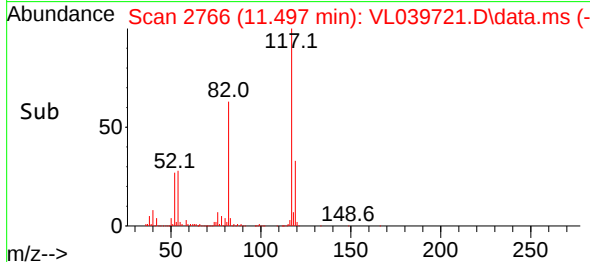
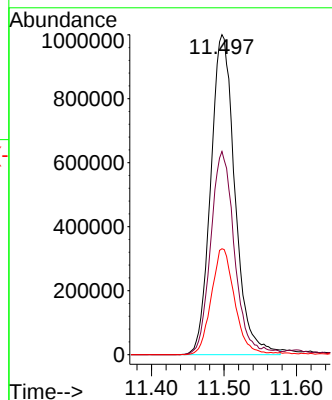
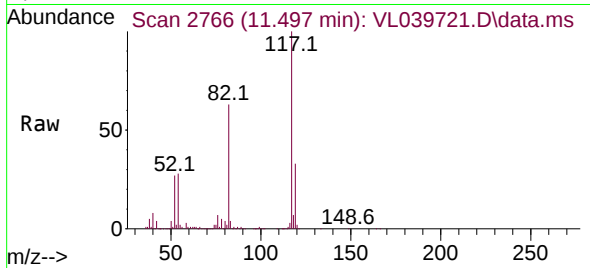




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.497 min Scan# 2766
Delta R.T. 0.006 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

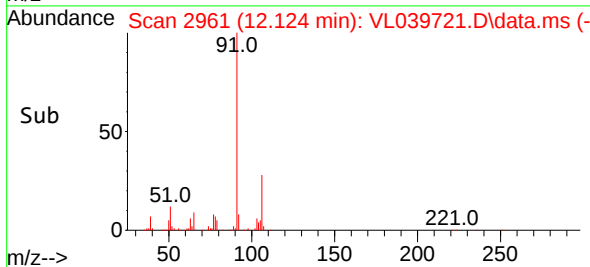
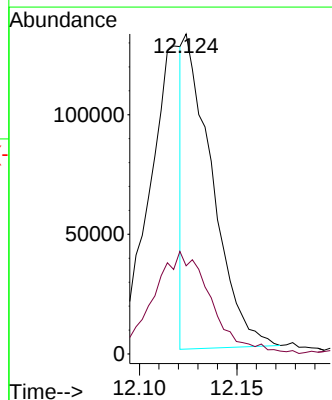
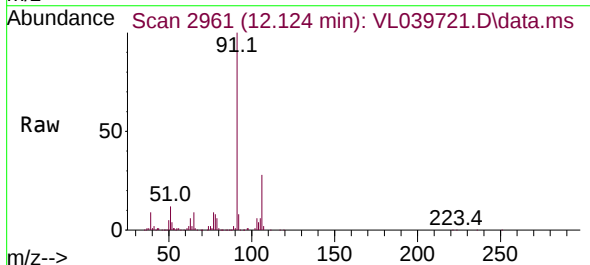
Instrument :
MSVOA_L
ClientSampleId :
IA1

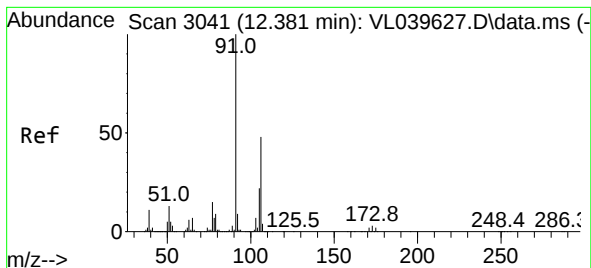
Tgt Ion:117 Resp: 2322380
Ion Ratio Lower Upper
117 100
82 62.7 50.8 76.2
119 32.6 24.1 36.1



#58
Ethyl Benzene
Concen: 0.500 ppbv
RT: 12.124 min Scan# 2961
Delta R.T. 0.010 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

Tgt Ion: 91 Resp: 133783
Ion Ratio Lower Upper
91 100
106 27.4 25.4 38.0

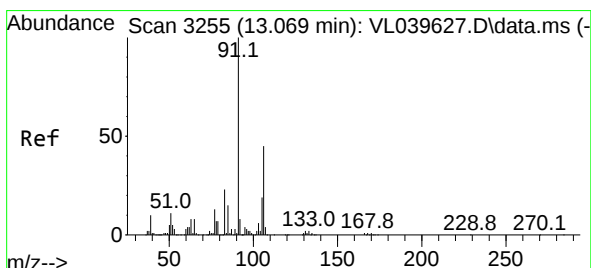
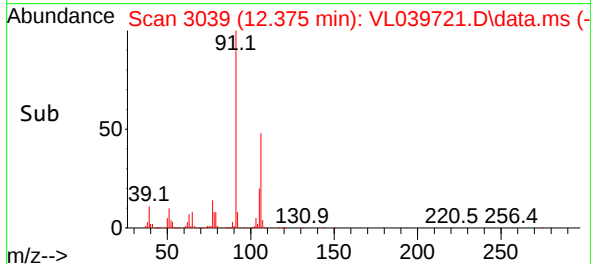
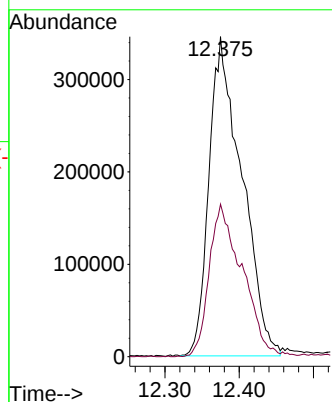
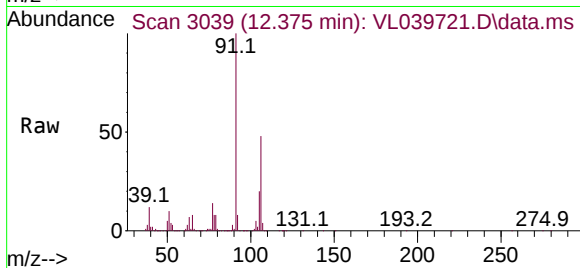




#59
m/p-Xylene
Concen: 4.441 ppbv
RT: 12.375 min Scan# 3041
Delta R.T. -0.026 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

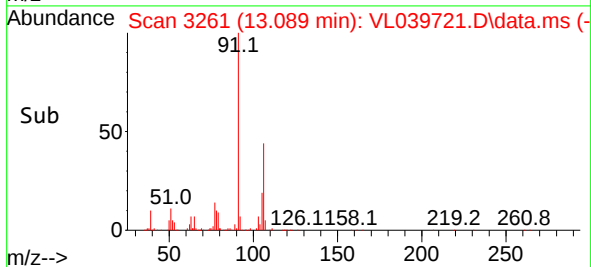
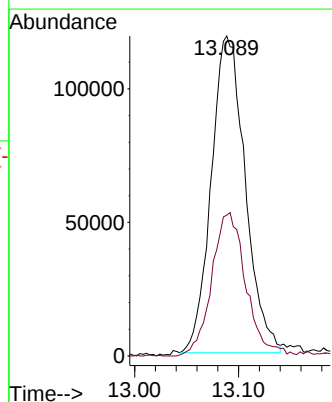
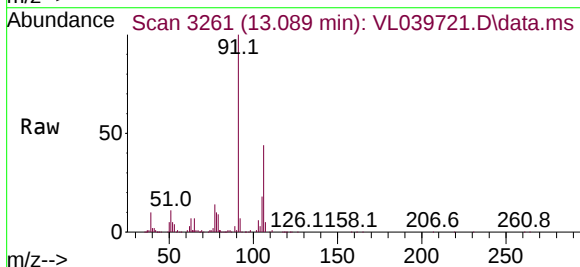
Instrument :
MSVOA_L
ClientSampleId :
IA1

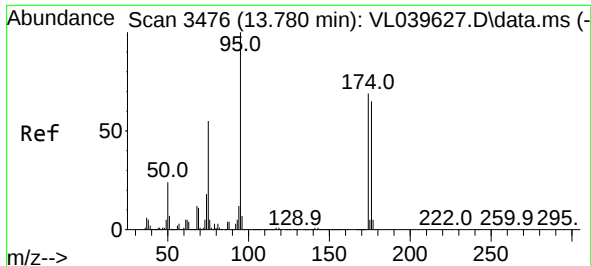
Tgt Ion: 91 Resp: 1058176
Ion Ratio Lower Upper
91 100
106 48.3 35.4 53.2



#60
o-Xylene
Concen: 1.183 ppbv
RT: 13.089 min Scan# 3261
Delta R.T. 0.003 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

Tgt Ion: 91 Resp: 269307
Ion Ratio Lower Upper
91 100
106 46.0 22.4 67.3

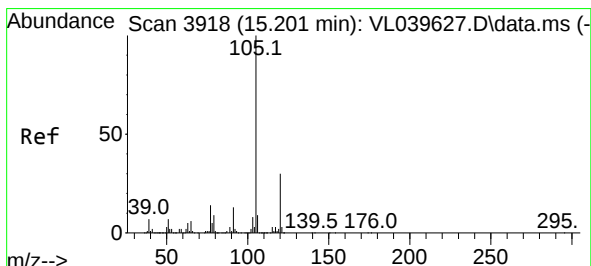
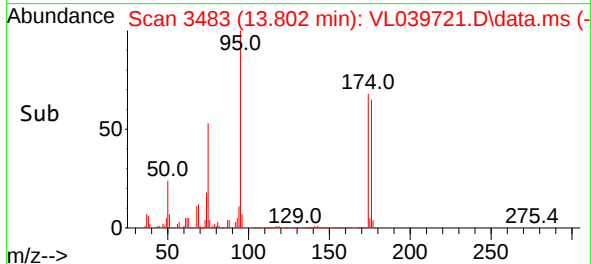
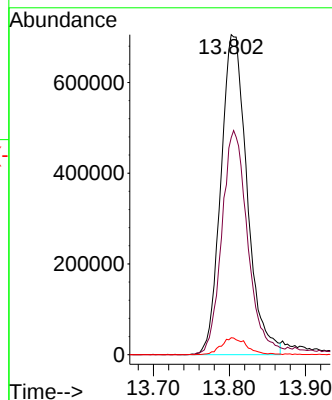
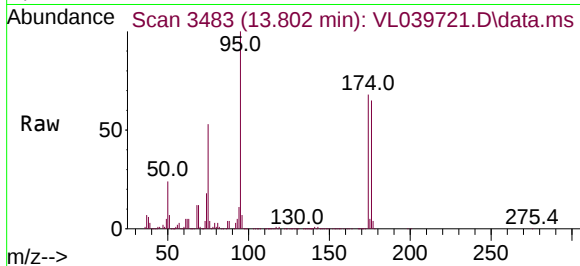




#68
1-Bromo-4-Fluorobenzene
Concen: 9.740 ppbv
RT: 13.802 min Scan# 3476
Delta R.T. 0.003 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

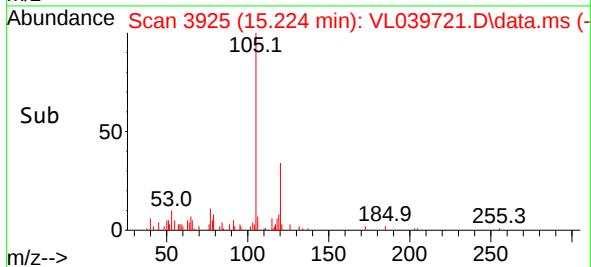
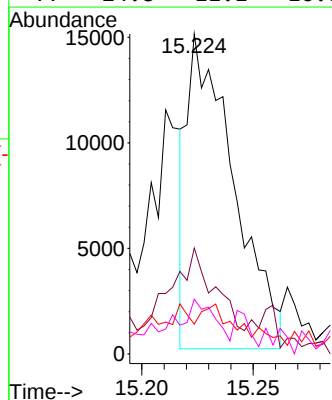
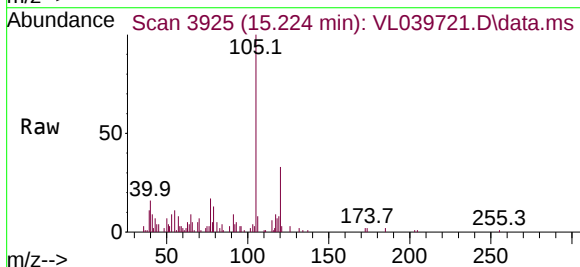
Instrument :
MSVOA_L
ClientSampleId :
IA1

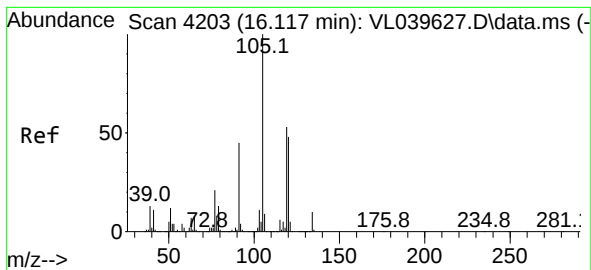
Tgt Ion: 95 Resp: 1688650
Ion Ratio Lower Upper
95 100
174 73.2 55.9 83.9
175 5.4 4.2 6.4



#72
4-Ethyltoluene
Concen: 0.083 ppbv
RT: 15.224 min Scan# 3925
Delta R.T. 0.003 min
Lab File: VL039721.D
Acq: 17 Oct 2022 16:07

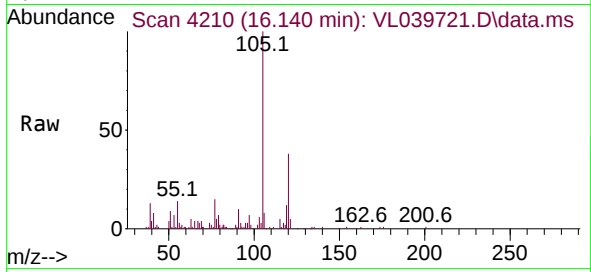
Tgt Ion: 105 Resp: 21567
Ion Ratio Lower Upper
105 100
120 50.6 24.2 36.2#
91 33.7 10.2 15.4#
77 24.8 11.1 16.7#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.348 ppbv
 RT: 16.140 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL039721.D
 Acq: 17 Oct 2022 16:07

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	105	Resp:	92698
Ion	Ratio	Lower	Upper
105	100		
120	37.7	39.5	59.3#
91	9.4	39.2	58.8#
77	14.9	17.2	25.8#

