

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111022\
 Data File : VL039872.D
 Acq On : 10 Nov 2022 20:36
 Operator : SY/AP
 Sample : N5584-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 11 05:02:52 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 03 09:27:12 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	861918	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	1780887	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	1689792	10.000	ppbv	0.00

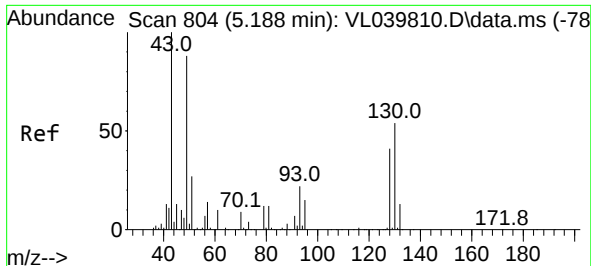
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1376410	10.882	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.748	85	32598	0.224	ppbv	99
3) Chlorodifluoromethane	2.690	51	69797	0.679	ppbv #	81
4) Chloromethane	2.832	50	24518	0.383	ppbv	90
9) Propene	2.719	41	33934	0.634	ppbv #	78
11) Trichlorofluoromethane	3.575	101	29312	0.247	ppbv #	76
12) 1,1,2-Trichlorotrifluo...	4.076	101	3363	0.039	ppbv #	18
13) Ethanol	3.250	45	1378288	364.263	ppbv	93
15) Acetone	3.478	43	833134	7.941	ppbv	97
16) 1,3-Butadiene	3.025	39	26324	0.540	ppbv #	15
19) Isopropyl Alcohol	3.597	45	43383	0.835	ppbv #	1
20) Methylene Chloride	3.941	84	795481	21.194	ppbv	94
23) Vinyl Acetate	4.639	43	2481	0.059	ppbv #	72
25) Ethyl Acetate	5.218	43	295785	1.369	ppbv #	82
26) Hexane	5.214	57	358800	3.724	ppbv #	44
31) cis-1,2-Dichloroethene	5.211	61	5187	0.059	ppbv #	24
34) 2-Butanone	4.793	43	9746	0.133	ppbv #	54
36) Benzene	6.369	78	32265	0.215	ppbv #	91
39) 1,2-Dichloropropane	6.648	63	508916	8.695	ppbv #	27
41) Tetrahydrofuran	5.806	42	2874	0.047	ppbv #	37
44) 2,2,4-Trimethylpentane	7.324	57	21312	0.084	ppbv #	27
53) Toluene	9.214	91	40281	0.234	ppbv #	16
58) Ethyl Benzene	12.362	91	11577	0.051	ppbv	96
59) m/p-Xylene	12.362	91	11578	0.061	ppbv #	30
60) o-Xylene	13.040	91	5477	0.030	ppbv #	1

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

Quant Time: Nov 11 05:02:52 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Nov 03 09:27:12 2022
Response via : Initial Calibration

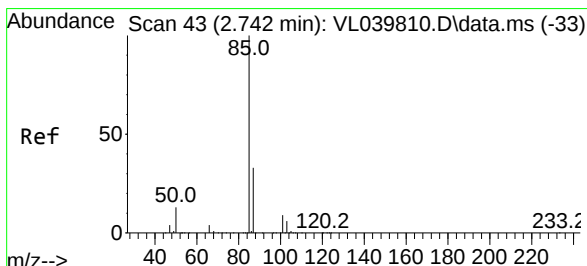
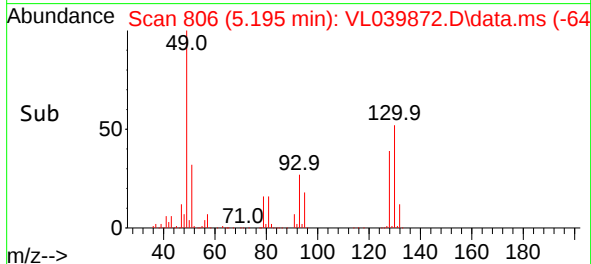
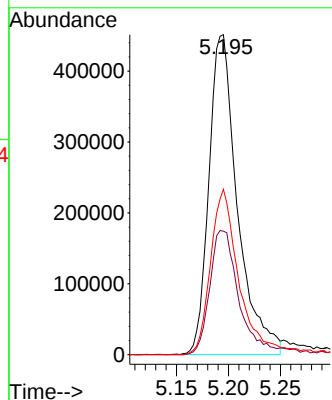
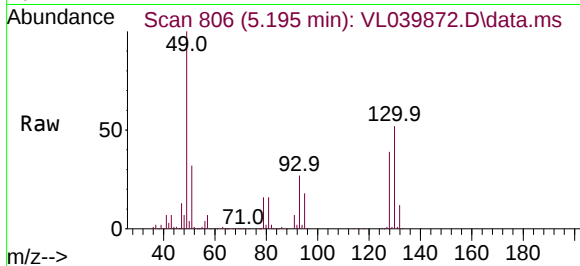




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.007 min
 Lab File: VL039872.D
 Acq: 10 Nov 2022 20:36

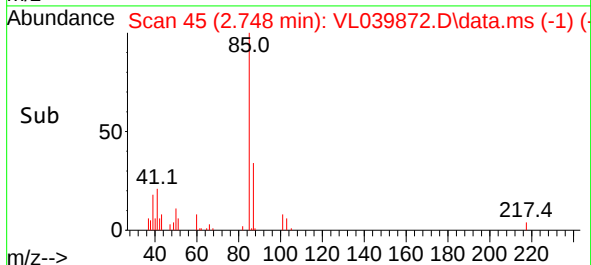
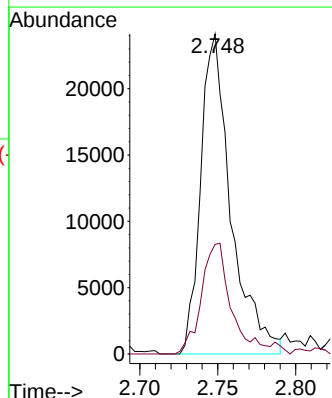
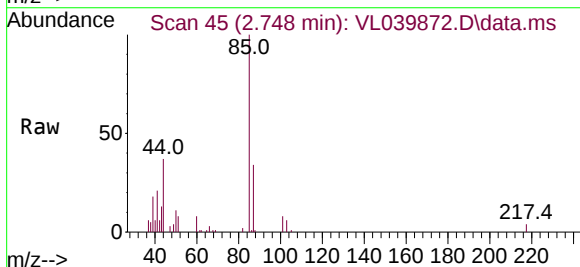
Instrument :
 MSVOA_L
 ClientSampleId :

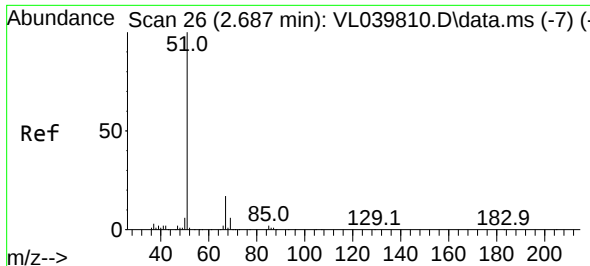
Tgt Ion: 49 Resp: 861918
 Ion Ratio Lower Upper
 49 100
 128 42.1 24.6 73.6
 130 53.8 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.224 ppbv
 RT: 2.748 min Scan# 45
 Delta R.T. 0.007 min
 Lab File: VL039872.D
 Acq: 10 Nov 2022 20:36

Tgt Ion: 85 Resp: 32598
 Ion Ratio Lower Upper
 85 100
 87 33.4 26.4 39.6

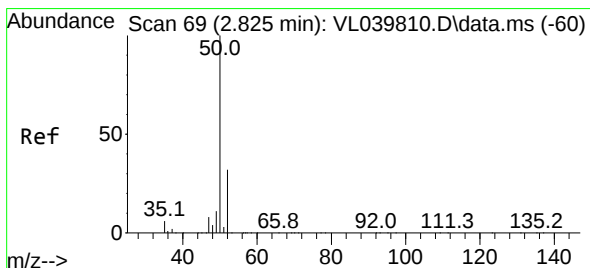
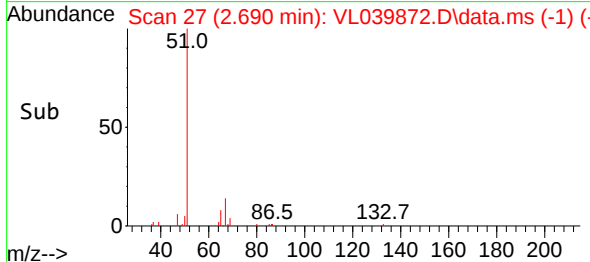
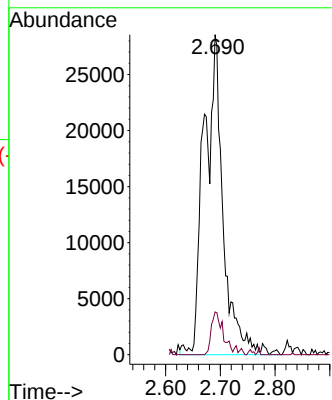
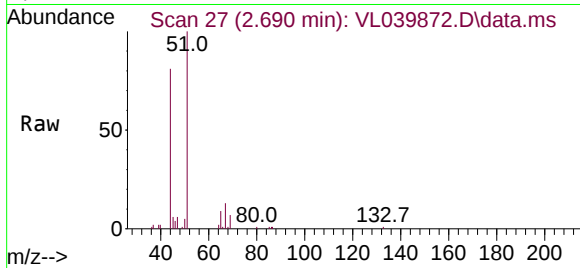




#3
Chlorodifluoromethane
Concen: 0.679 ppbv
RT: 2.690 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL039872.D
Acq: 10 Nov 2022 20:36

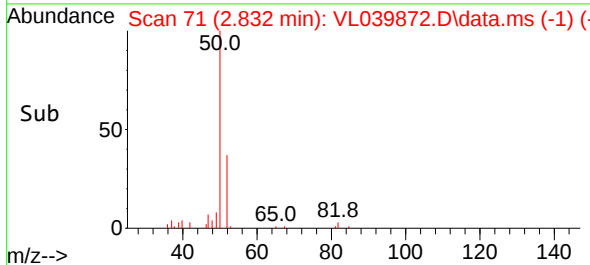
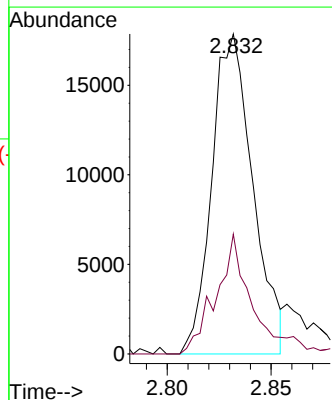
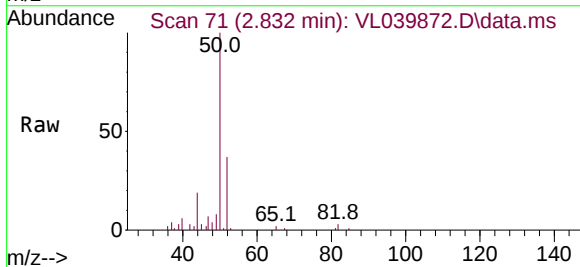
Instrument :
MSVOA_L
ClientSampleId :

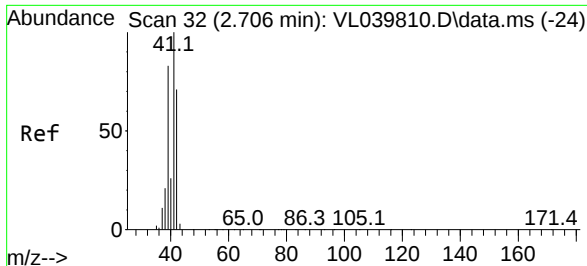
Tgt Ion: 51 Resp: 69797
Ion Ratio Lower Upper
51 100
67 8.4 13.2 19.8#



#4
Chloromethane
Concen: 0.383 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.007 min
Lab File: VL039872.D
Acq: 10 Nov 2022 20:36

Tgt Ion: 50 Resp: 24518
Ion Ratio Lower Upper
50 100
52 37.5 25.5 38.3





#9

Propene

Concen: 0.634 ppbv

RT: 2.719 min Scan# 30

Delta R.T. 0.013 min

Lab File: VL039872.D

Acq: 10 Nov 2022 20:36

Instrument :

MSVOA_L

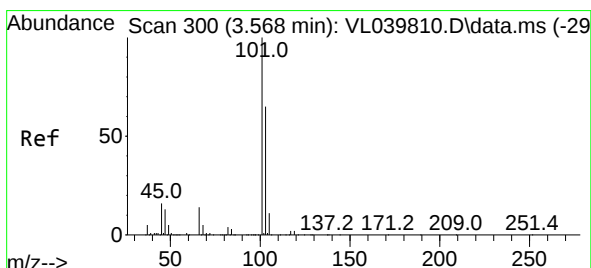
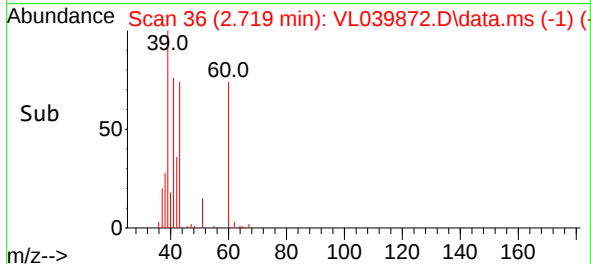
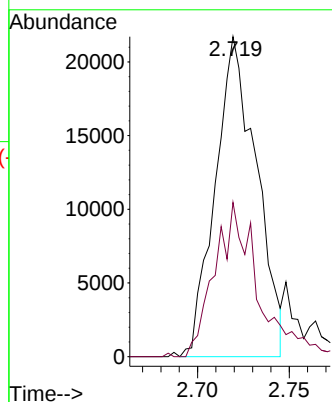
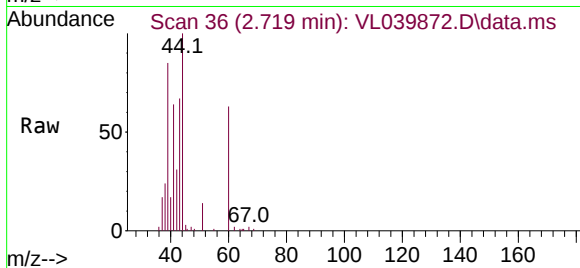
ClientSampleId :

Tgt Ion: 41 Resp: 33934

Ion Ratio Lower Upper

41 100

42 52.0 56.3 84.5#



#11

Trichlorofluoromethane

Concen: 0.247 ppbv

RT: 3.575 min Scan# 302

Delta R.T. 0.007 min

Lab File: VL039872.D

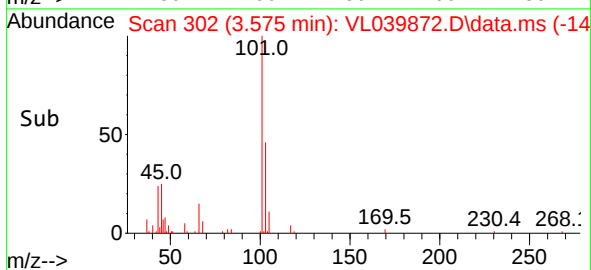
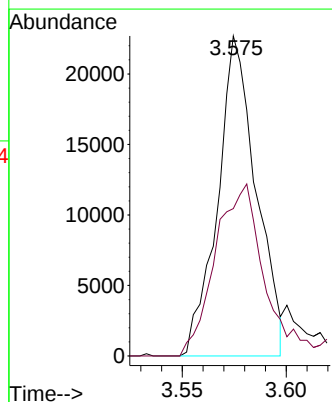
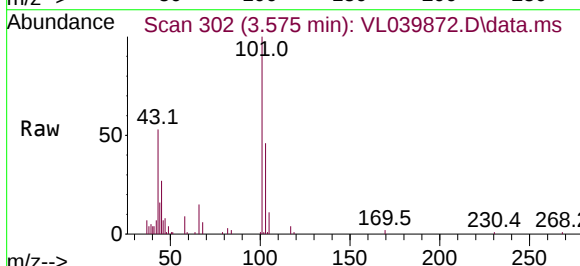
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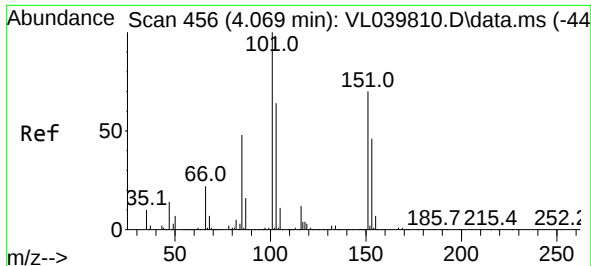
Tgt Ion:101 Resp: 29312

Ion Ratio Lower Upper

101 100

103 46.0 52.2 78.2#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.039 ppbv

RT: 4.076 min Scan# 4

Delta R.T. 0.007 min

Lab File: VL039872.D

Acq: 10 Nov 2022 20:36

Instrument :

MSVOA_L

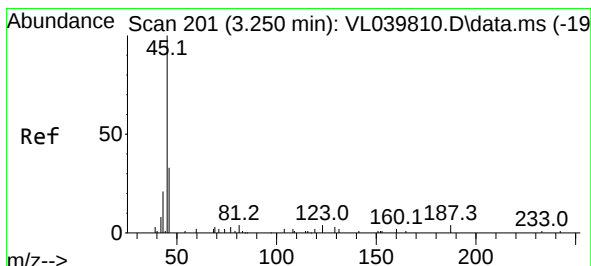
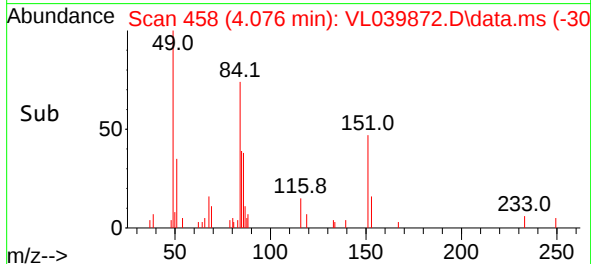
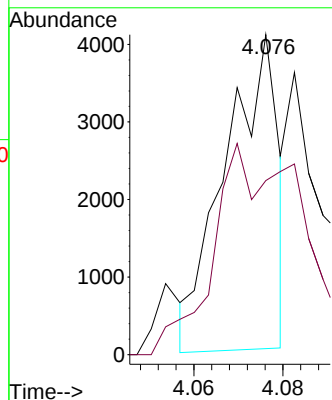
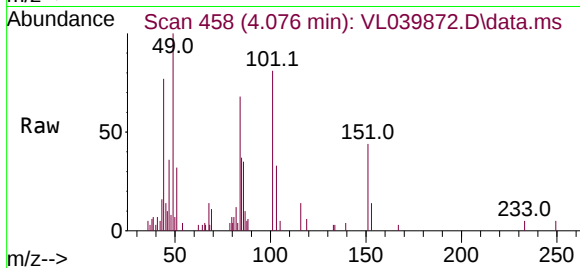
ClientSampleId :

Tgt Ion:101 Resp: 3363

Ion Ratio Lower Upper

101 100

151 139.9 57.2 85.8#



#13

Ethanol

Concen: 364.263 ppbv

RT: 3.250 min Scan# 201

Delta R.T. 0.000 min

Lab File: VL039872.D

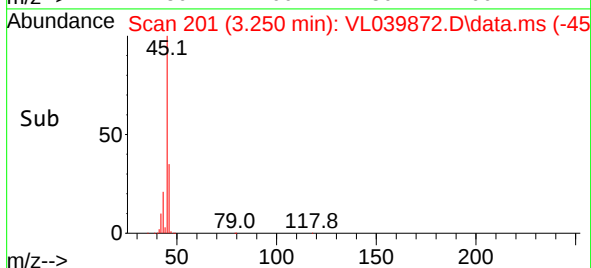
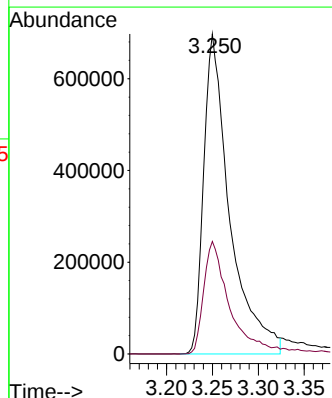
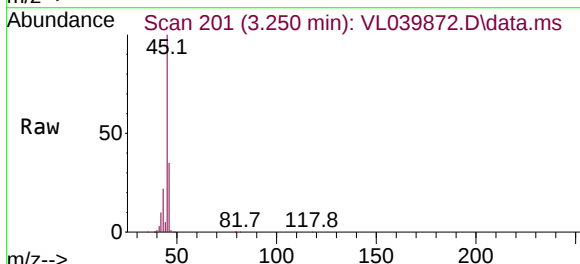
Acq: 10 Nov 2022 20:36

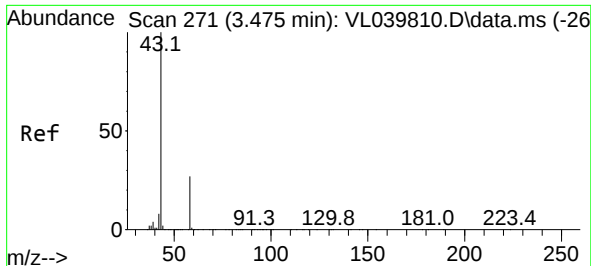
Tgt Ion: 45 Resp: 1378288

Ion Ratio Lower Upper

45 100

46 36.8 16.5 65.9

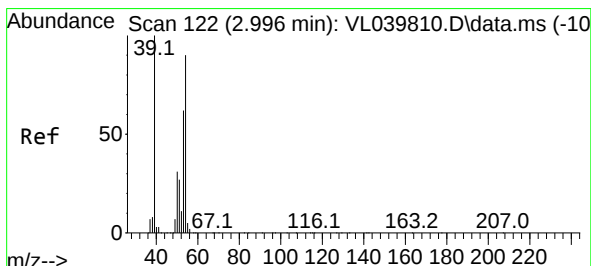
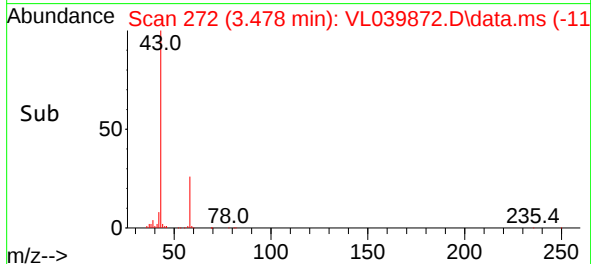
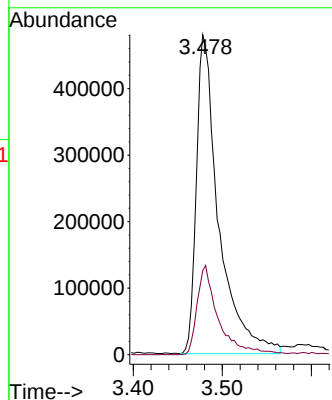
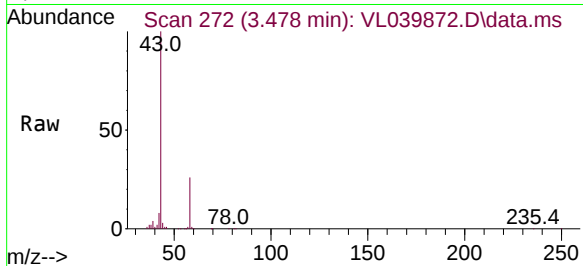




#15
Acetone
Concen: 7.941 ppbv
RT: 3.478 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL039872.D
Acq: 10 Nov 2022 20:36

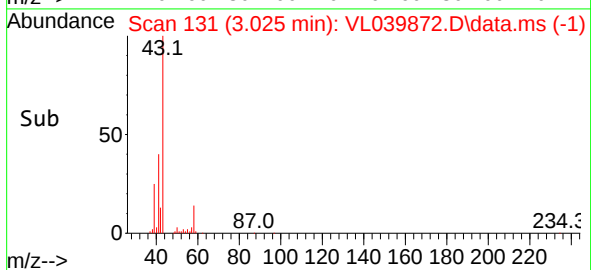
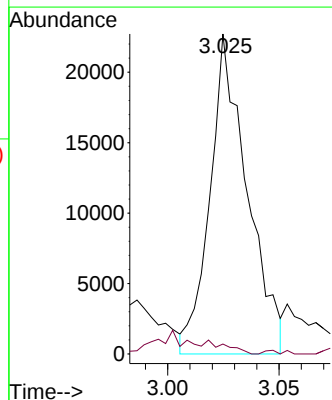
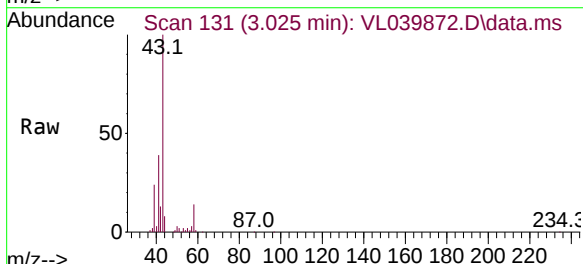
Instrument :
MSVOA_L
ClientSampleId :

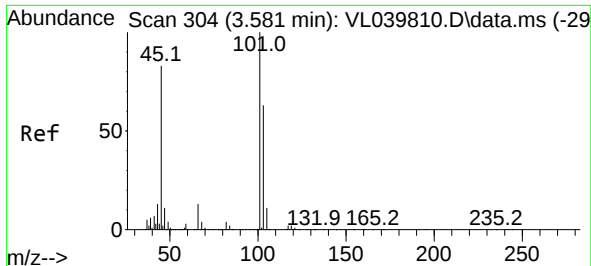
Tgt Ion: 43 Resp: 833134
Ion Ratio Lower Upper
43 100
58 27.6 23.2 34.8



#16
1,3-Butadiene
Concen: 0.540 ppbv
RT: 3.025 min Scan# 131
Delta R.T. 0.029 min
Lab File: VL039872.D
Acq: 10 Nov 2022 20:36

Tgt Ion: 39 Resp: 26324
Ion Ratio Lower Upper
39 100
54 9.2 71.0 106.4#





#19

Isopropyl Alcohol

Concen: 0.835 ppbv

RT: 3.597 min Scan# 304

Delta R.T. 0.016 min

Lab File: VL039872.D

Acq: 10 Nov 2022 20:36

Instrument :

MSVOA_L

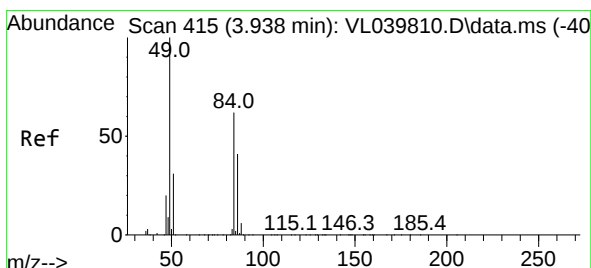
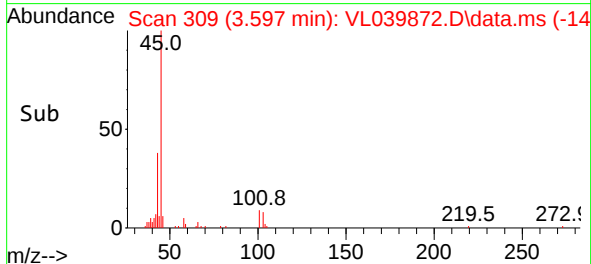
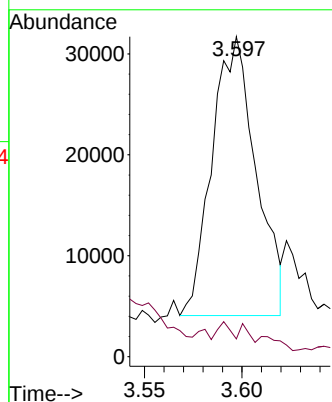
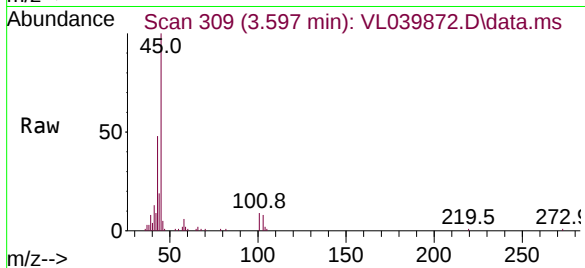
ClientSampleId :

Tgt Ion: 45 Resp: 43383

Ion Ratio Lower Upper

45 100

58 530.1 38.3 57.5#



#20

Methylene Chloride

Concen: 21.194 ppbv

RT: 3.941 min Scan# 416

Delta R.T. 0.003 min

Lab File: VL039872.D

Acq: 10 Nov 2022 20:36

Tgt Ion: 84 Resp: 795481

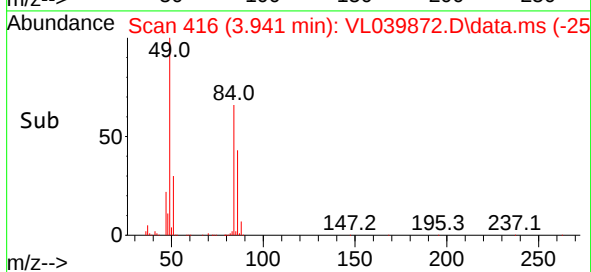
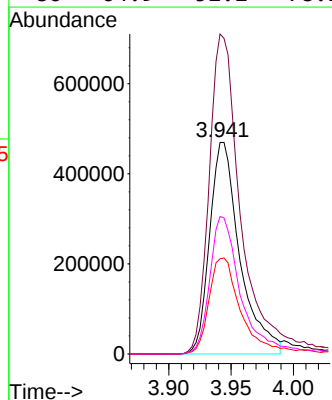
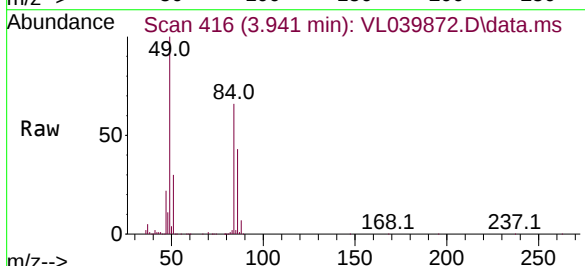
Ion Ratio Lower Upper

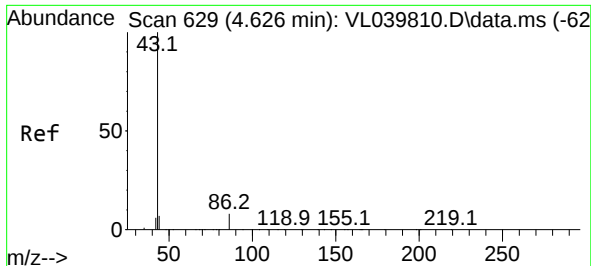
84 100

49 151.2 128.6 192.8

51 44.9 40.2 60.4

86 64.9 52.2 78.2

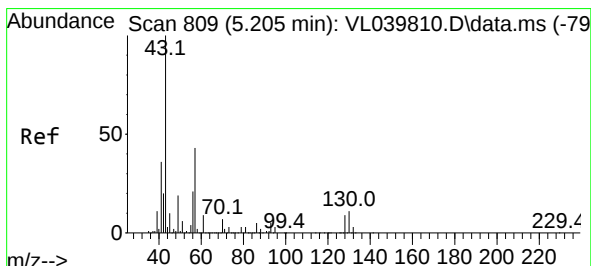
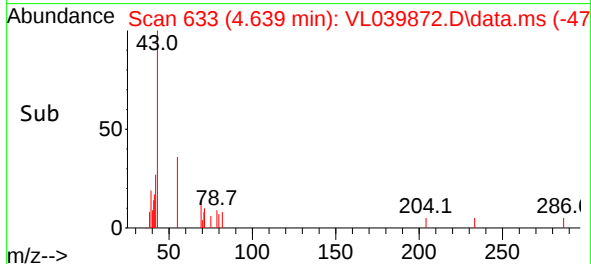
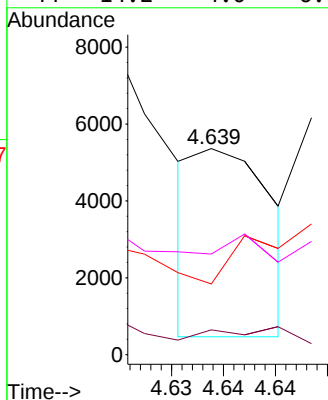
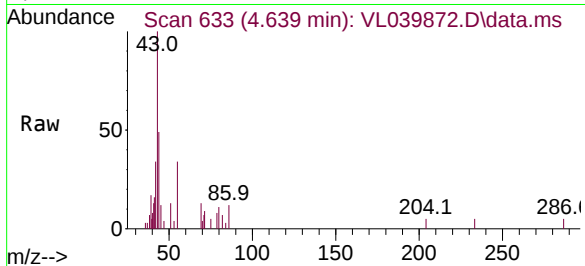




#23
 Vinyl Acetate
 Concen: 0.059 ppbv
 RT: 4.639 min Scan# 61
 Delta R.T. 0.013 min
 Lab File: VL039872.D
 Acq: 10 Nov 2022 20:36

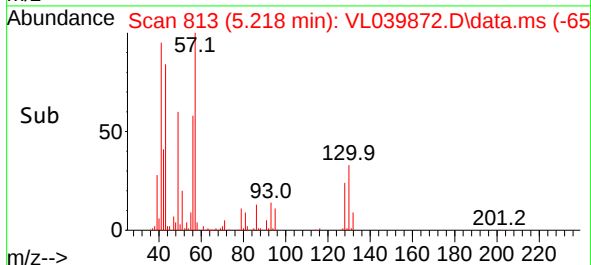
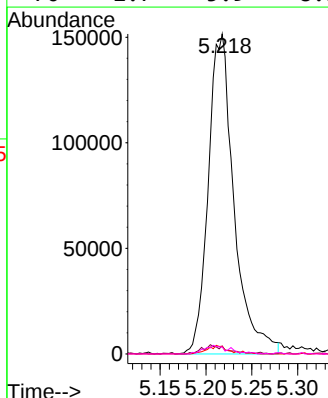
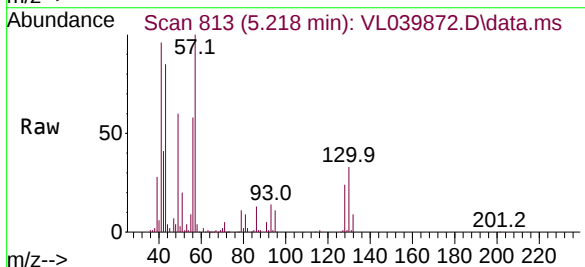
Instrument :
 MSVOA_L
 ClientSampleId :

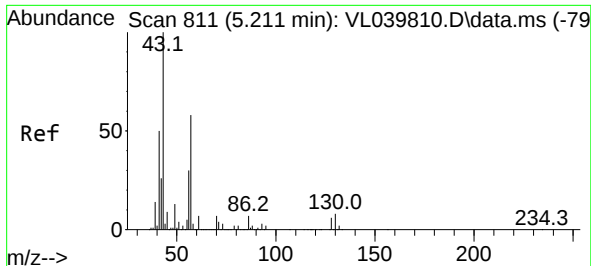
Tgt Ion:	43	Resp:	2481
Ion	Ratio	Lower	Upper
43	100		
86	17.8	5.0	7.4#
42	0.0	6.8	10.2#
44	14.2	4.0	6.0#



#25
 Ethyl Acetate
 Concen: 1.369 ppbv
 RT: 5.218 min Scan# 813
 Delta R.T. 0.013 min
 Lab File: VL039872.D
 Acq: 10 Nov 2022 20:36

Tgt Ion:	43	Resp:	295785
Ion	Ratio	Lower	Upper
43	100		
45	3.0	8.2	12.2#
61	2.2	8.1	12.1#
70	2.7	5.9	8.9#

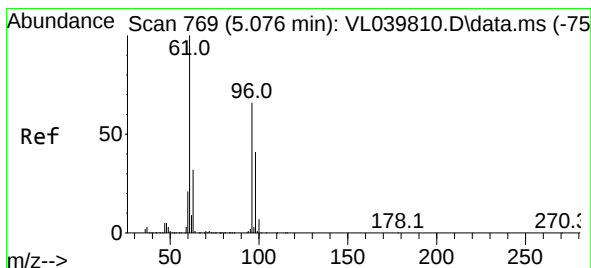
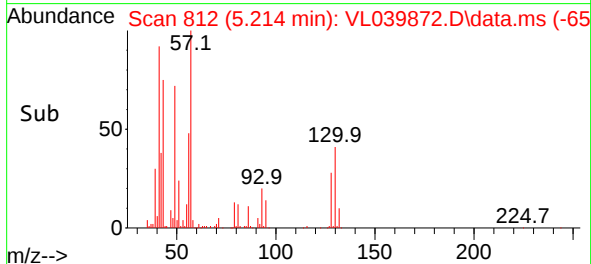
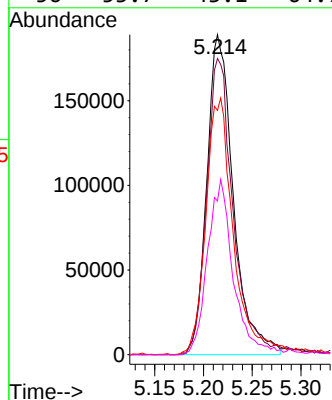
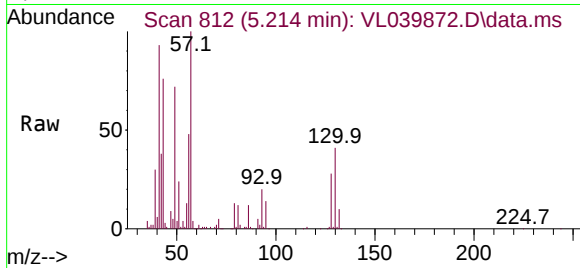




#26
Hexane
Concen: 3.724 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL039872.D
Acq: 10 Nov 2022 20:36

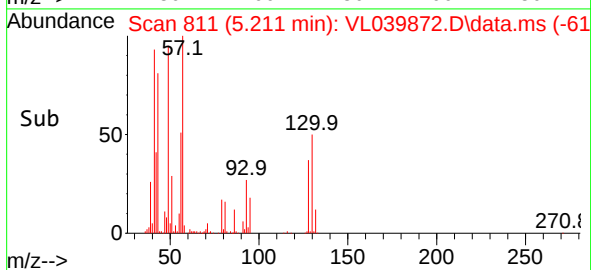
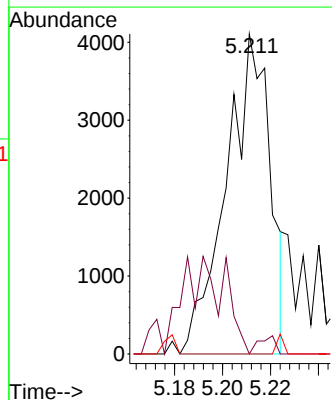
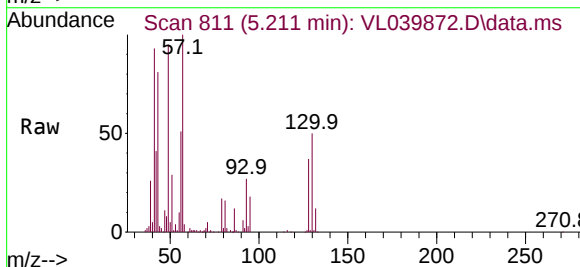
Instrument :
MSVOA_L
ClientSampleId :

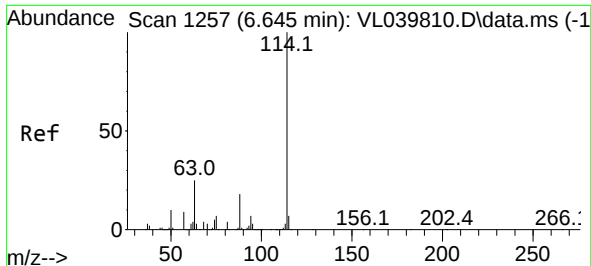
Tgt Ion: 57 Resp: 358800
Ion Ratio Lower Upper
57 100
41 94.6 73.7 110.5
43 85.3 189.8 284.8#
56 53.7 43.1 64.7



#31
cis-1,2-Dichloroethene
Concen: 0.059 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.135 min
Lab File: VL039872.D
Acq: 10 Nov 2022 20:36

Tgt Ion: 61 Resp: 5187
Ion Ratio Lower Upper
61 100
96 0.0 52.6 78.8#
98 0.0 32.6 48.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 1

Delta R.T. 0.003 min

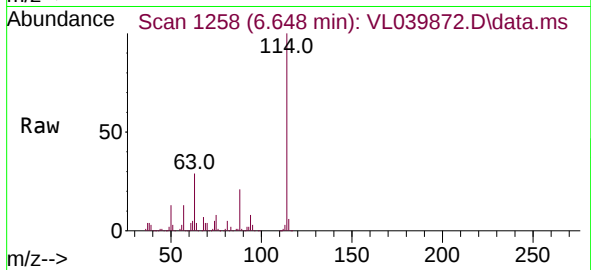
Lab File: VL039872.D

Acq: 10 Nov 2022 20:36

Instrument :

MSVOA_L

ClientSampleId :



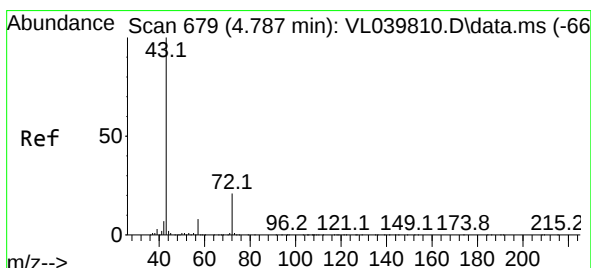
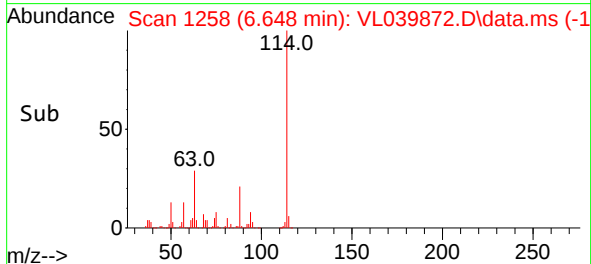
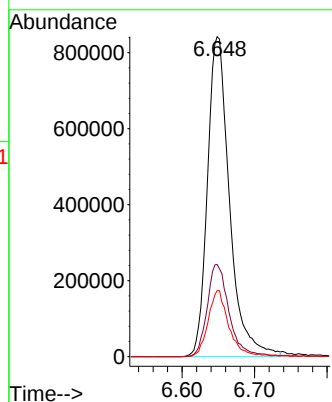
Tgt Ion:114 Resp: 1780887

Ion Ratio Lower Upper

114 100

63 29.1 19.8 29.6

88 19.6 14.4 21.6



#34

2-Butanone

Concen: 0.133 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.007 min

Lab File: VL039872.D

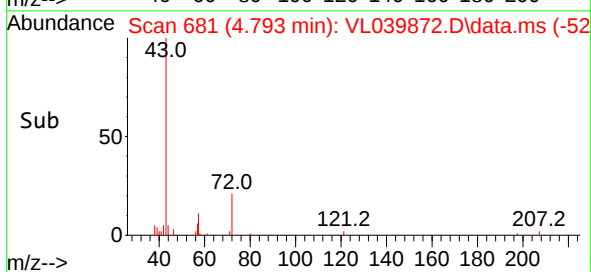
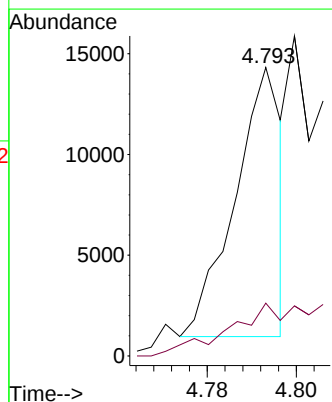
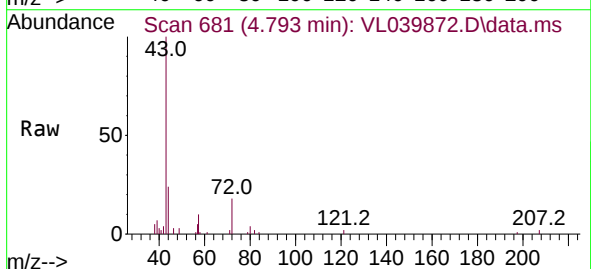
Acq: 10 Nov 2022 20:36

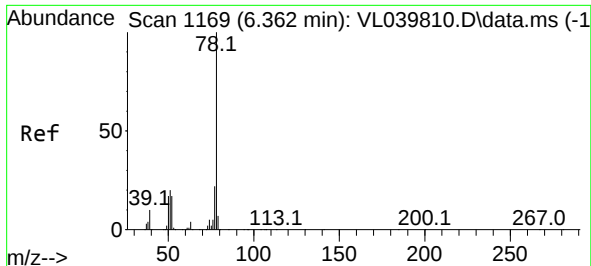
Tgt Ion: 43 Resp: 9746

Ion Ratio Lower Upper

43 100

72 0.0 17.5 26.3#





#36

Benzene

Concen: 0.215 ppbv

RT: 6.369 min Scan# 1169

Delta R.T. 0.007 min

Lab File: VL039872.D

Acq: 10 Nov 2022 20:36

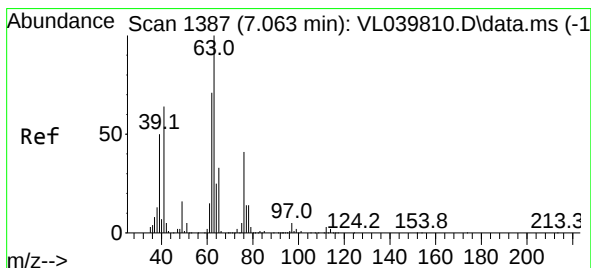
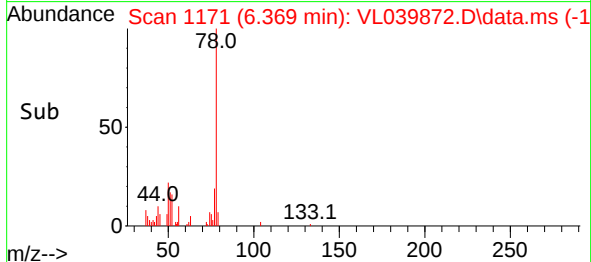
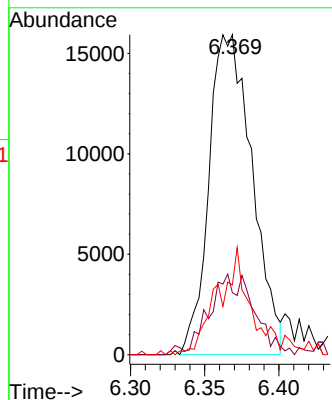
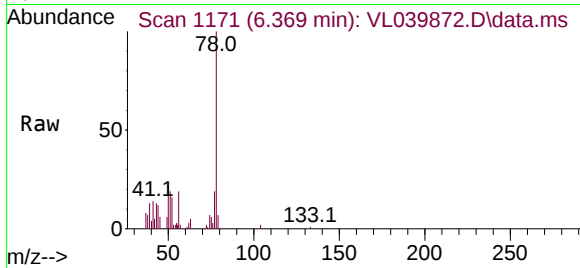
Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 78 Resp: 32265

Ion	Ratio	Lower	Upper
78	100		
77	17.2	17.4	26.2#
50	20.6	13.9	20.9



#39

1,2-Dichloropropane

Concen: 8.695 ppbv

RT: 6.648 min Scan# 1258

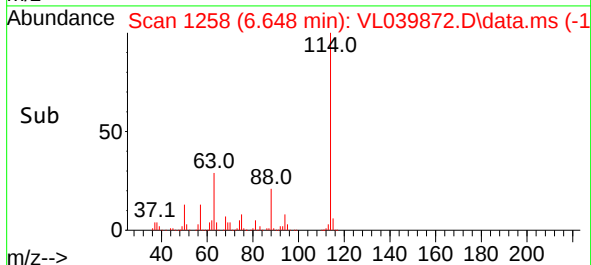
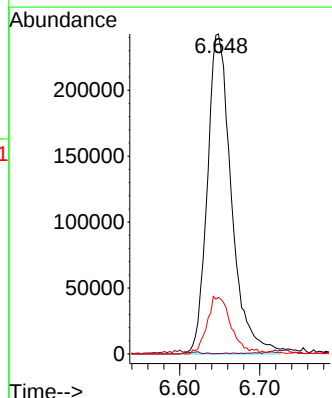
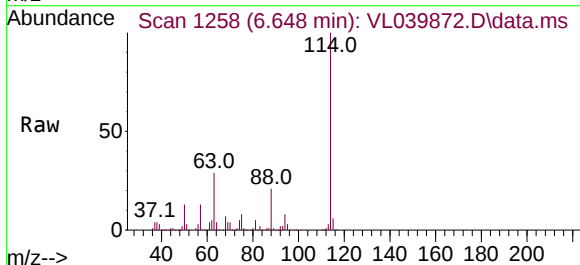
Delta R.T. -0.415 min

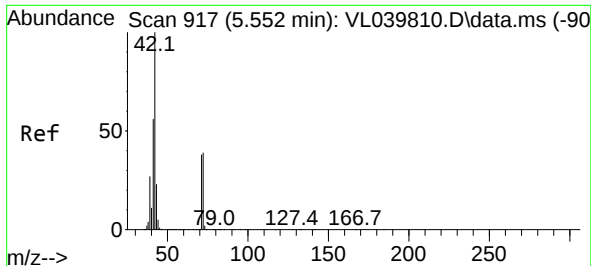
Lab File: VL039872.D

Acq: 10 Nov 2022 20:36

Tgt Ion: 63 Resp: 508916

Ion	Ratio	Lower	Upper
63	100		
41	0.0	51.0	76.4#
62	17.7	56.6	85.0#





#41

Tetrahydrofuran

Concen: 0.047 ppbv

RT: 5.806 min Scan# 917

Delta R.T. 0.254 min

Lab File: VL039872.D

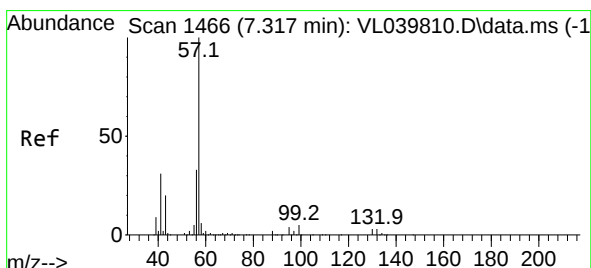
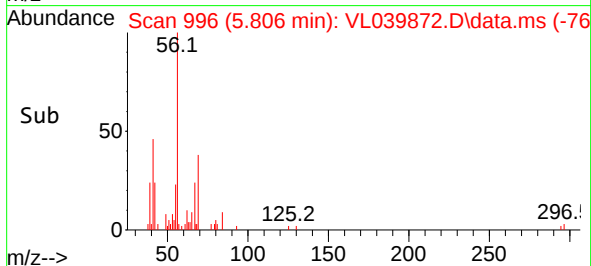
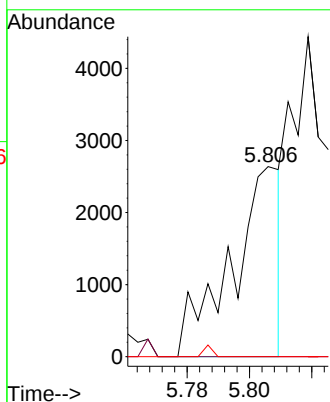
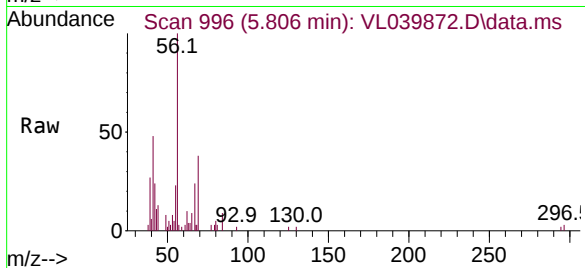
Acq: 10 Nov 2022 20:36

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	42	Resp:	2874
Ion	Ratio	Lower	Upper
42	100		
72	1.6	31.4	47.2#
71	0.0	31.5	47.3#



#44

2,2,4-Trimethylpentane

Concen: 0.084 ppbv

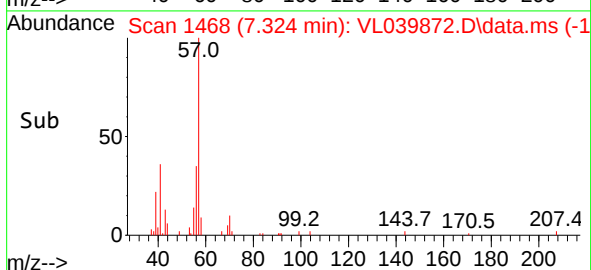
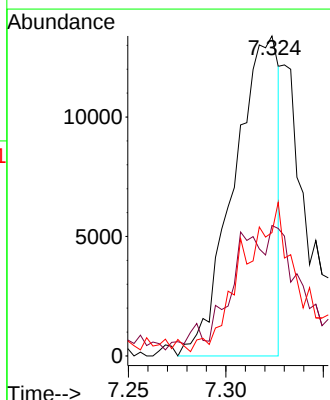
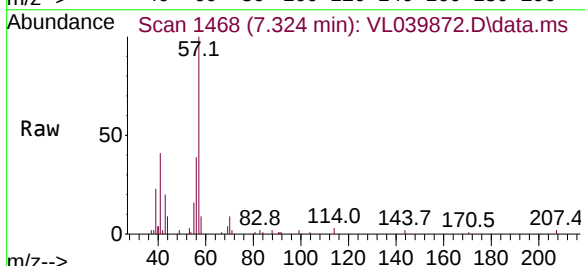
RT: 7.324 min Scan# 1468

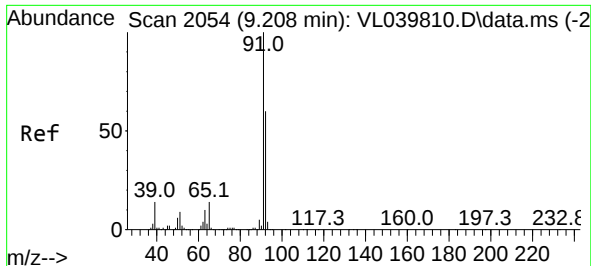
Delta R.T. 0.007 min

Lab File: VL039872.D

Acq: 10 Nov 2022 20:36

Tgt Ion:	57	Resp:	21312
Ion	Ratio	Lower	Upper
57	100		
41	79.9	24.6	36.8#
56	0.0	25.4	38.0#

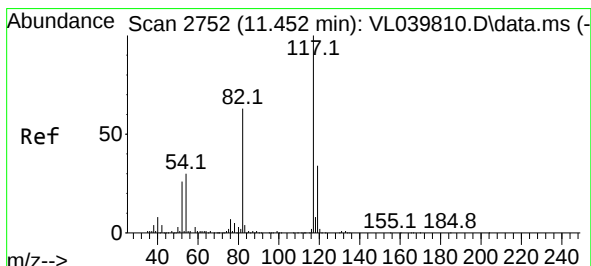
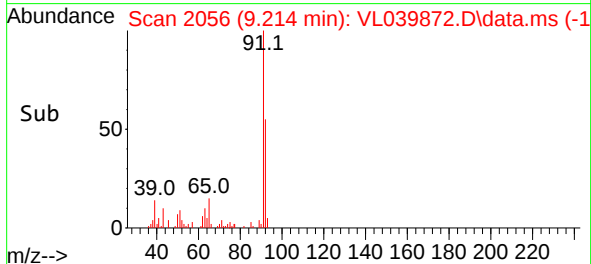
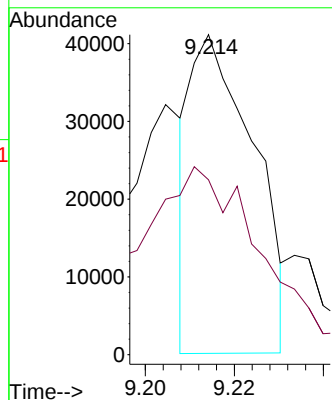
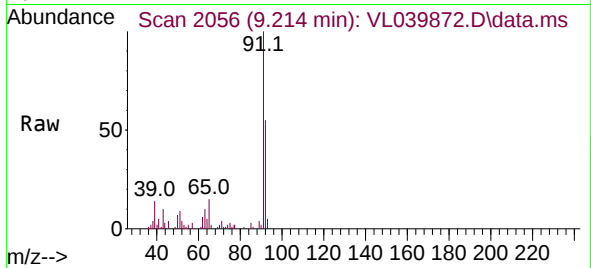




#53
Toluene
Concen: 0.234 ppbv
RT: 9.214 min Scan# 2054
Delta R.T. 0.007 min
Lab File: VL039872.D
Acq: 10 Nov 2022 20:36

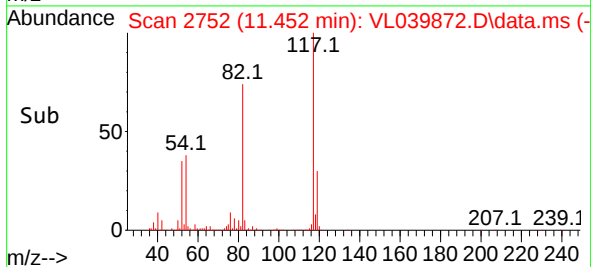
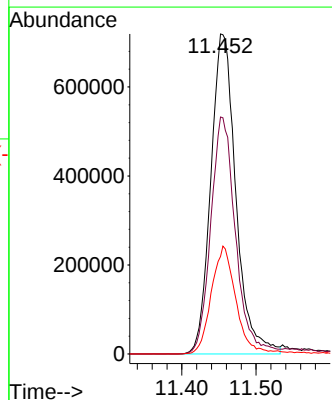
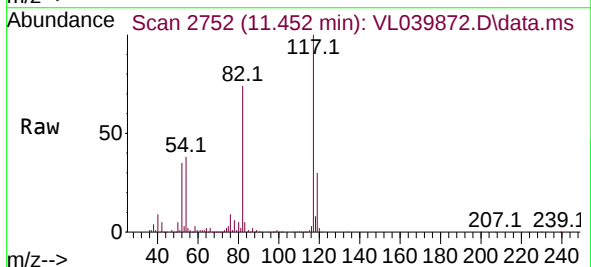
Instrument :
MSVOA_L
ClientSampleId :

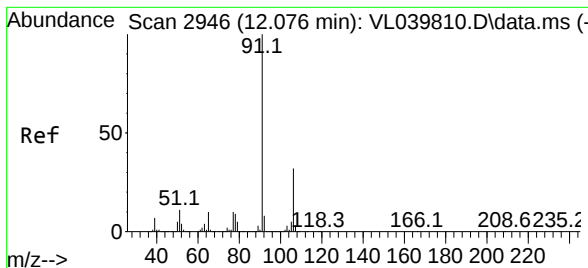
Tgt Ion: 91 Resp: 40281
Ion Ratio Lower Upper
91 100
92 126.4 49.6 74.4#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. 0.000 min
Lab File: VL039872.D
Acq: 10 Nov 2022 20:36

Tgt Ion: 117 Resp: 1689792
Ion Ratio Lower Upper
117 100
82 75.7 51.0 76.6
119 33.4 24.7 37.1





#58

Ethyl Benzene

Concen: 0.051 ppbv

RT: 12.362 min Scan# 3035

Delta R.T. 0.286 min

Lab File: VL039872.D

Acq: 10 Nov 2022 20:36

Instrument :

MSVOA_L

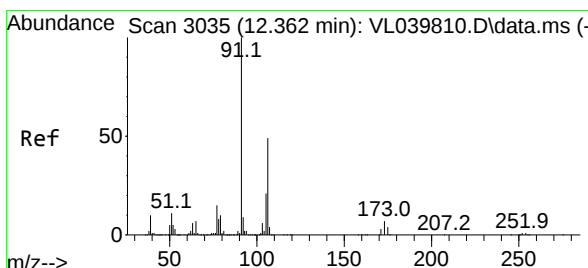
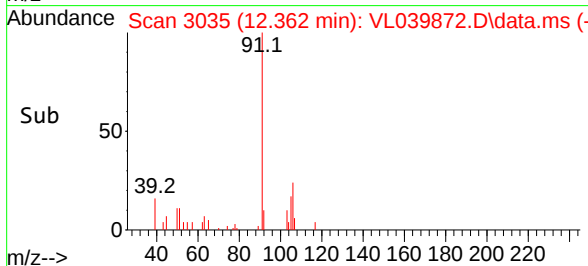
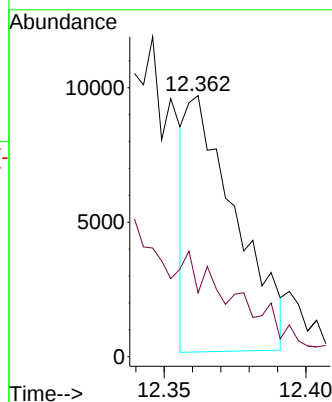
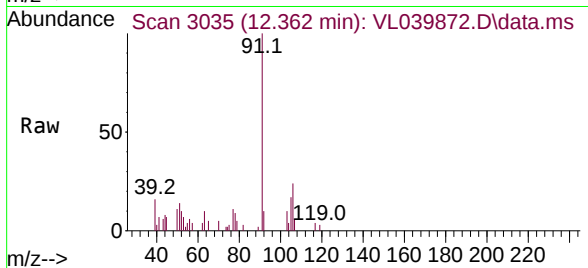
ClientSampleId :

Tgt Ion: 91 Resp: 11577

Ion Ratio Lower Upper

91 100

106 30.0 25.9 38.9



#59

m/p-Xylene

Concen: 0.061 ppbv

RT: 12.362 min Scan# 3035

Delta R.T. 0.000 min

Lab File: VL039872.D

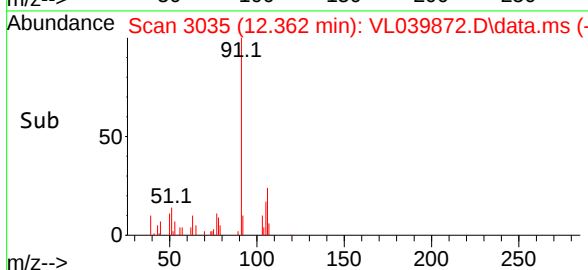
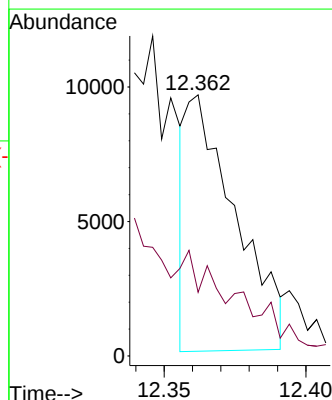
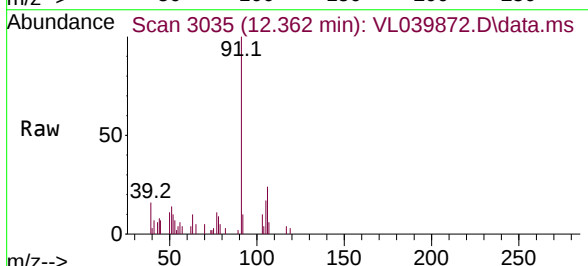
Acq: 10 Nov 2022 20:36

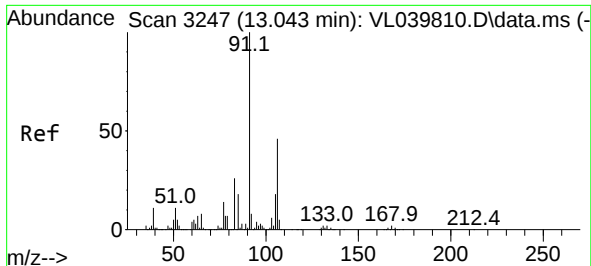
Tgt Ion: 91 Resp: 11578

Ion Ratio Lower Upper

91 100

106 0.0 37.6 56.4#

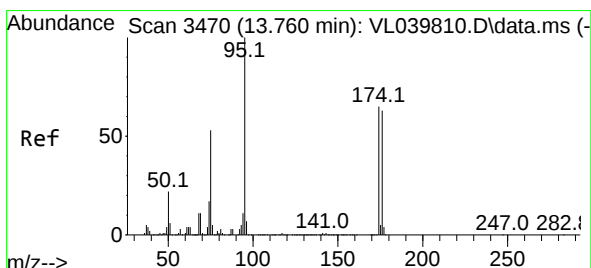
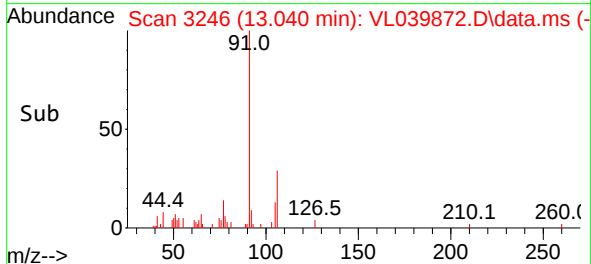
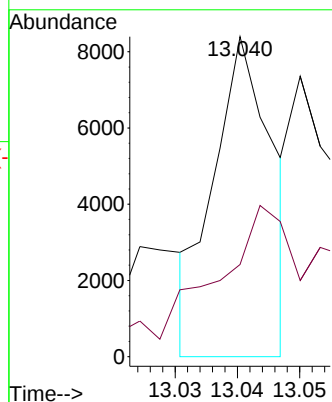
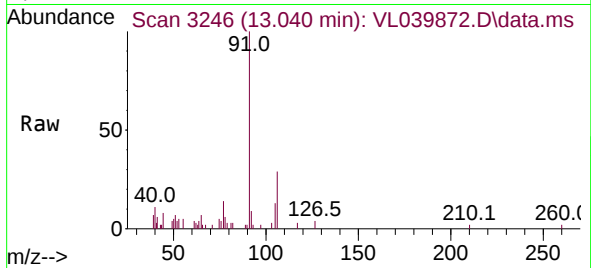




#60
o-Xylene
Concen: 0.030 ppbv
RT: 13.040 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL039872.D
Acq: 10 Nov 2022 20:36

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 5477
Ion Ratio Lower Upper
91 100
106 132.4 23.6 70.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.882 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. 0.003 min
Lab File: VL039872.D
Acq: 10 Nov 2022 20:36

Tgt Ion: 95 Resp: 1376410
Ion Ratio Lower Upper
95 100
174 58.7 53.4 80.0
175 4.2 4.1 6.1

