

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
 Data File : VL040112.D
 Acq On : 19 Jan 2023 14:21
 Operator : SY/MD
 Sample : 01223-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1DL

Quant Time: Jan 20 02:06:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jan 16 14:40:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	1127251	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	3000420	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.491	117	2591186	10.000	ppbv	# 0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	4151020	19.275	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	192.800%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.722	85	12019	0.061	ppbv	98
3) Chlorodifluoromethane	2.668	51	14312	0.106	ppbv #	86
4) Chloromethane	2.803	50	6444	0.077	ppbv #	84
5) Vinyl Chloride	2.912	62	33236	0.469	ppbv	94
9) Propene	2.864	41	1666666	29.669	ppbv	99
10) Heptane	7.600	43	643187	4.968	ppbv #	27
13) Ethanol	3.237	45	34817	6.734	ppbv #	31
15) Acetone	3.462	43	1202531	8.895	ppbv #	78
16) 1,3-Butadiene	2.957	39	521900	8.280	ppbv #	34
19) Isopropyl Alcohol	3.581	45	11978	0.181	ppbv #	90
20) Methylene Chloride	3.931	84	113435	1.902	ppbv	91
21) Allyl Chloride	3.980	41	11790	0.136	ppbv #	17
23) Vinyl Acetate	4.607	43	4480516	102.239	ppbv #	1
24) 1,1-Dichloroethane	4.607	63	13603	0.103	ppbv #	90
25) Ethyl Acetate	5.218	43	488178	2.050	ppbv #	80
26) Hexane	5.218	57	640238	6.142	ppbv #	40
27) Carbon Disulfide	4.121	76	49859	0.369	ppbv	97
30) Cyclohexane	6.613	84	5906846	71.288	ppbv	91
31) cis-1,2-Dichloroethene	5.079	61	37364	0.370	ppbv	90
34) 2-Butanone	4.787	43	814108	5.736	ppbv	99
36) Benzene	6.375	78	784948	3.535	ppbv	99
37) 1,2-Dichloroethane	5.822	62	26495	0.186	ppbv #	84
39) 1,2-Dichloropropane	6.976	63	23595	0.272	ppbv #	1
41) Tetrahydrofuran	5.581	42	67059	0.819	ppbv #	84
42) Bromodichloromethane	7.269	83	1945251	10.094	ppbv #	25
43) Methyl Methacrylate	7.343	69	3383993	41.532	ppbv #	1
44) 2,2,4-Trimethylpentane	7.356	57	26110246	70.711	ppbv #	40
47) 1,1,2-Trichloroethane	9.015	97	730038	7.984	ppbv #	53
50) 4-Methyl-2-Pentanone	8.278	43	2553310	11.438	ppbv #	51
51) 2-Hexanone	9.558	43	5524524	32.666	ppbv #	30
53) Toluene	9.240	91	327587	1.383	ppbv	95
57) Chlorobenzene	11.610	112	3938669	22.299	ppbv #	29
58) Ethyl Benzene	12.114	91	460627	1.593	ppbv	93
59) m/p-Xylene	12.368	91	171808	0.661	ppbv	89
60) o-Xylene	13.079	91	78862	0.320	ppbv	95
62) Isopropylbenzene	14.056	105	2838477	7.996	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.056	83	117343	1.310	ppbv #	24
64) n-propylbenzene	14.944	120	530660	6.014	ppbv	95
65) tert-Butylbenzene	16.114	119	150768	0.496	ppbv #	83
66) Benzyl Chloride	16.333	91	3868	0.186	ppbv #	65
67) sec-Butylbenzene	16.661	105	1094921	2.541	ppbv	100
71) 2-Chlorotoluene	14.947	91	2618158	9.590	ppbv #	58
72) 4-Ethyltoluene	15.220	105	11117	0.041	ppbv #	55

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Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

Quant Time: Jan 20 02:06:30 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Jan 16 14:40:47 2023
Response via : Initial Calibration

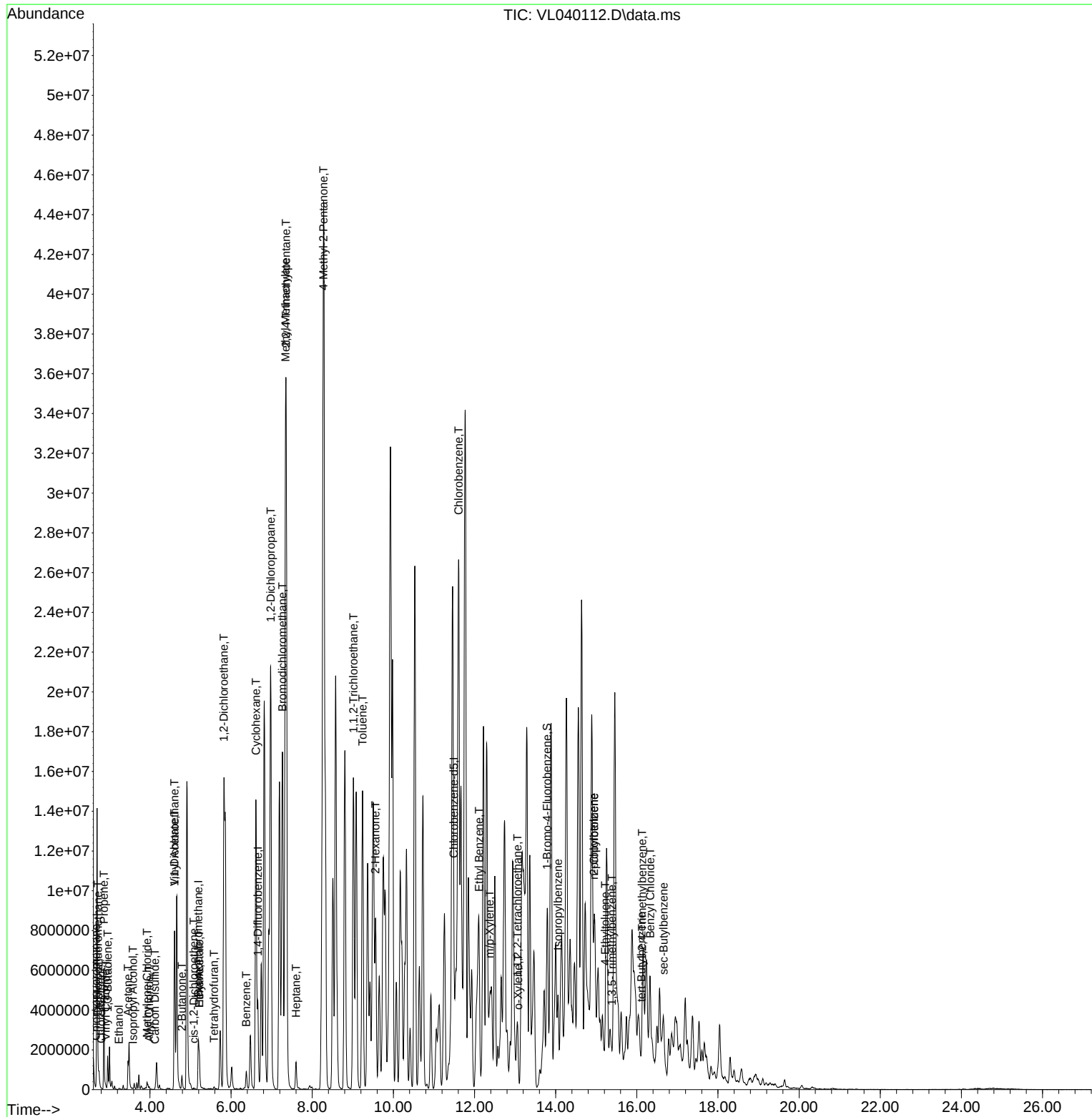
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	15.384	105	11209	0.045	ppbv #	72
74) 1,2,4-Trimethylbenzene	16.130	105	82534	0.302	ppbv #	92

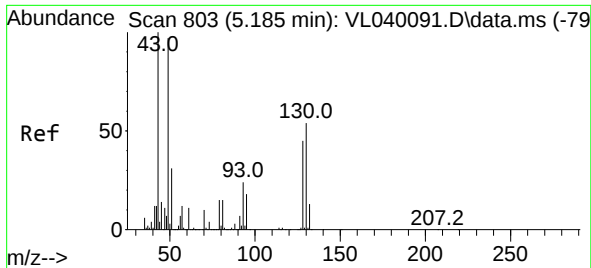
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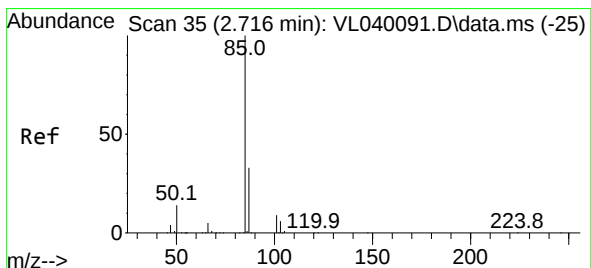
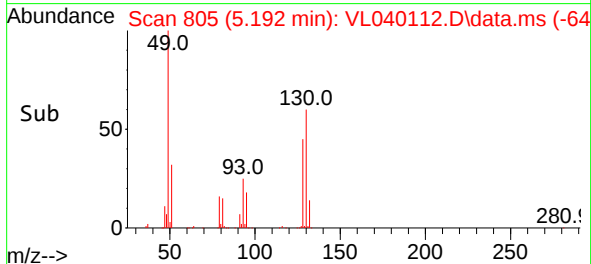
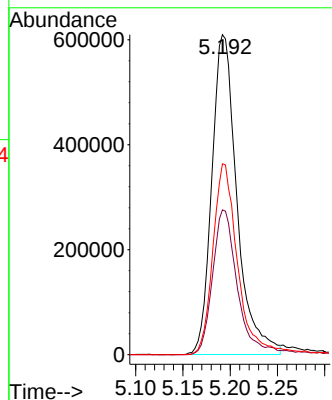
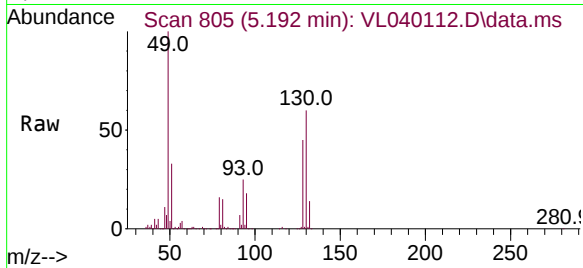




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

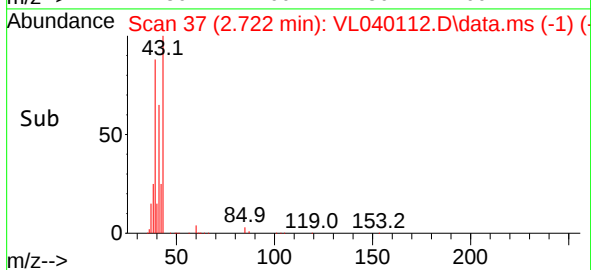
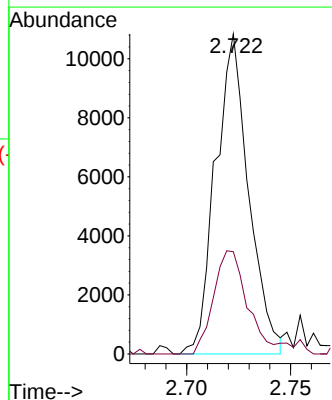
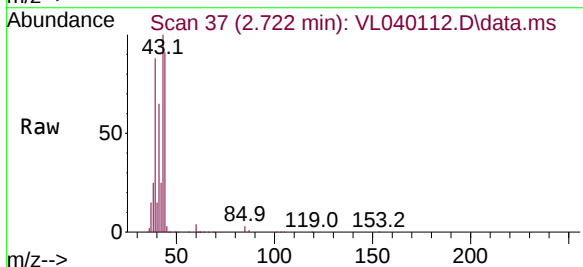
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

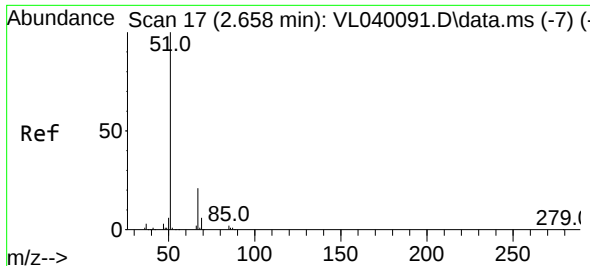
Tgt Ion: 49 Resp: 1127251
Ion Ratio Lower Upper
49 100
128 46.4 23.6 71.0
130 60.6 29.8 89.3



#2
Dichlorodifluoromethane
Concen: 0.061 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.006 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 85 Resp: 12019
Ion Ratio Lower Upper
85 100
87 31.9 26.5 39.7

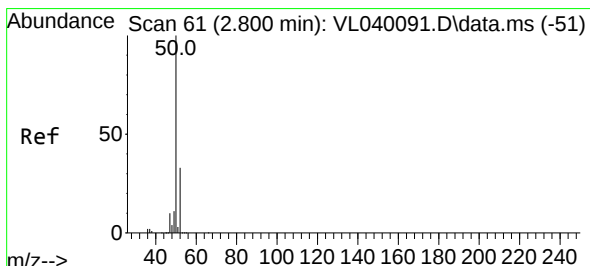
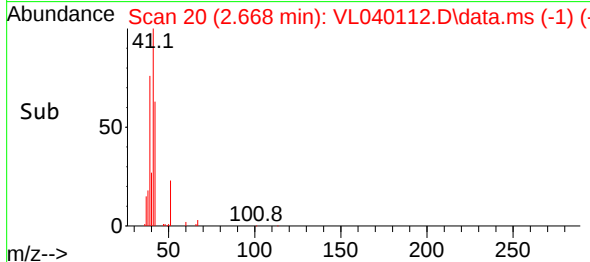
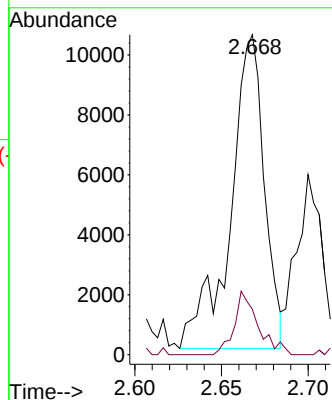
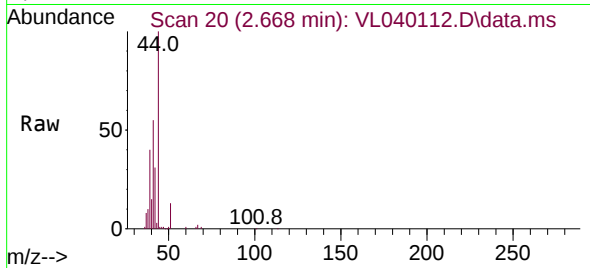




#3
Chlorodifluoromethane
Concen: 0.106 ppbv
RT: 2.668 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

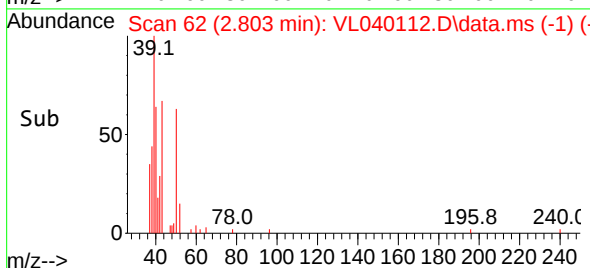
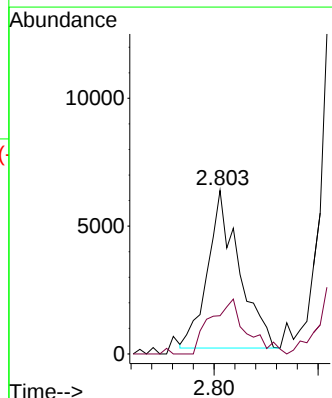
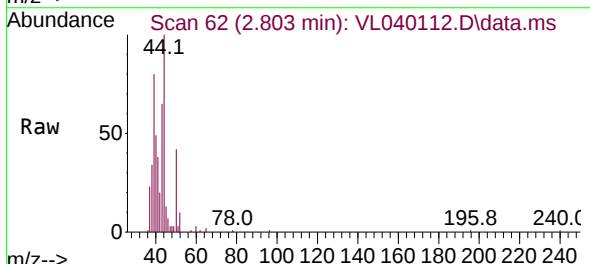
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

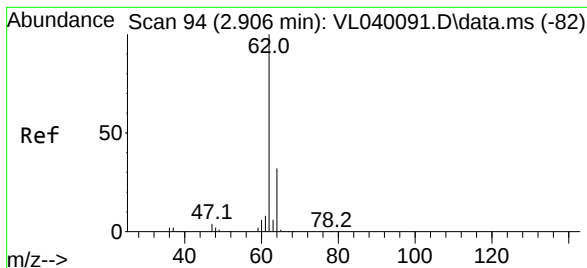
Tgt Ion: 51 Resp: 14312
Ion Ratio Lower Upper
51 100
67 14.1 16.4 24.6#



#4
Chloromethane
Concen: 0.077 ppbv
RT: 2.803 min Scan# 62
Delta R.T. 0.003 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 50 Resp: 6444
Ion Ratio Lower Upper
50 100
52 24.3 26.5 39.7#

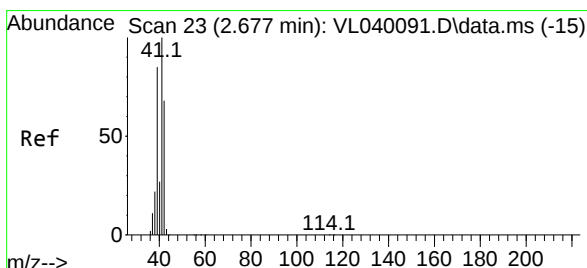
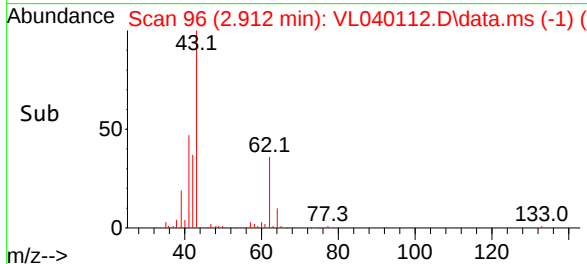
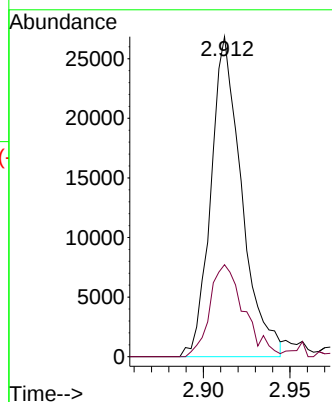
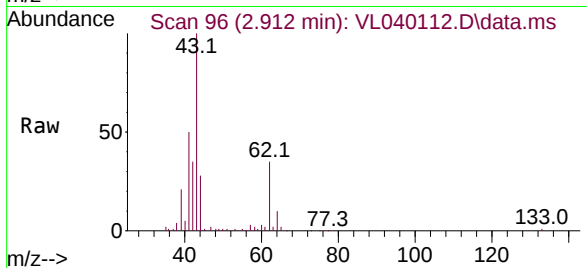




#5
 Vinyl Chloride
 Concen: 0.469 ppbv
 RT: 2.912 min Scan# 90
 Delta R.T. 0.006 min
 Lab File: VL040112.D
 Acq: 19 Jan 2023 14:21

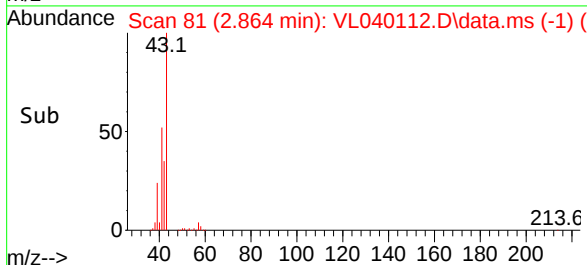
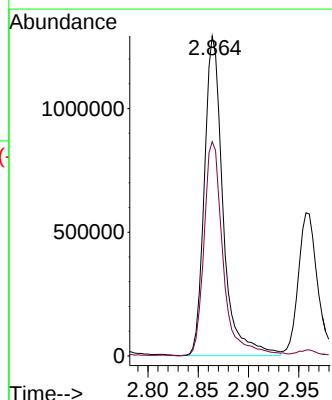
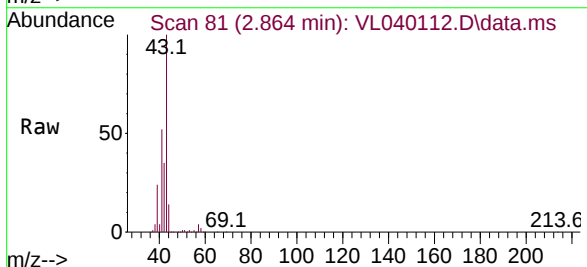
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1DL

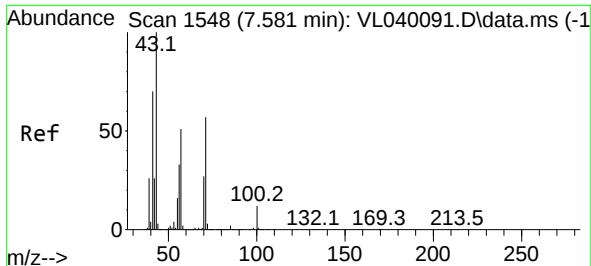
Tgt Ion: 62 Resp: 33236
 Ion Ratio Lower Upper
 62 100
 64 28.7 25.8 38.6



#9
 Propene
 Concen: 29.669 ppbv
 RT: 2.864 min Scan# 81
 Delta R.T. 0.186 min
 Lab File: VL040112.D
 Acq: 19 Jan 2023 14:21

Tgt Ion: 41 Resp: 1666666
 Ion Ratio Lower Upper
 41 100
 42 68.7 55.6 83.4

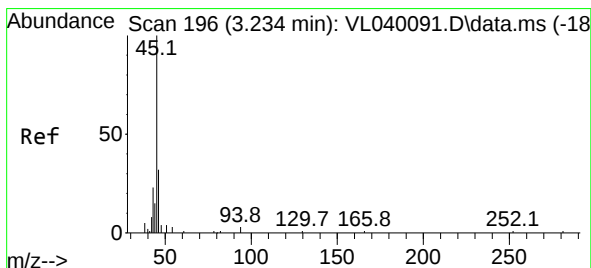
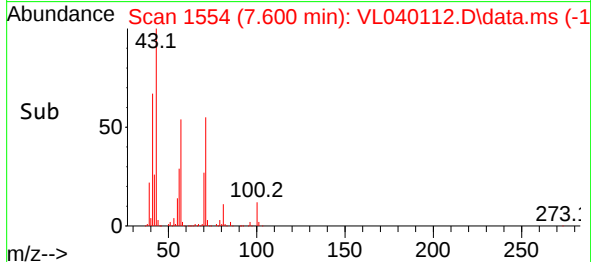
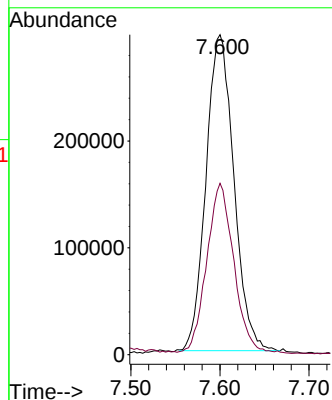
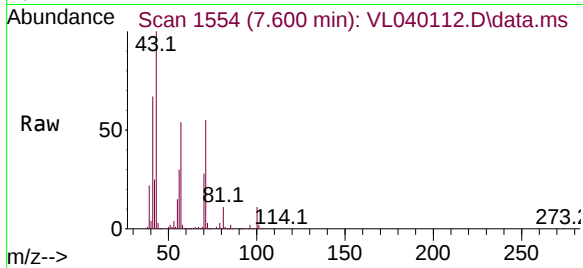




#10
Heptane
Concen: 4.968 ppbv
RT: 7.600 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

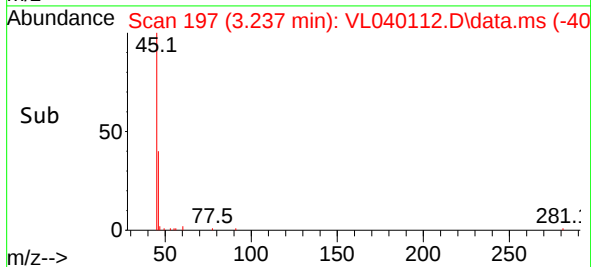
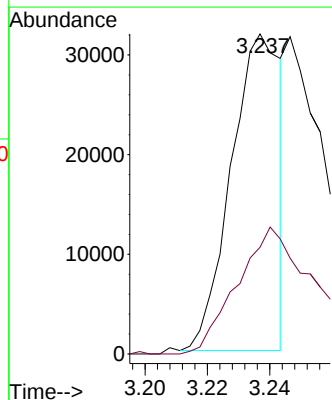
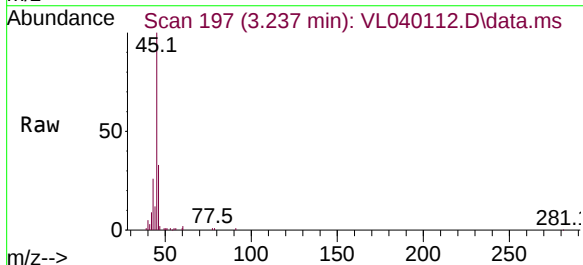
Instrument :
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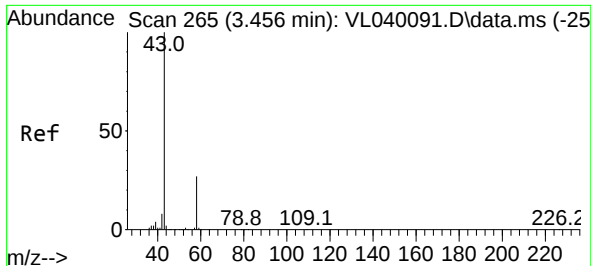
Tgt Ion: 43 Resp: 643187
Ion Ratio Lower Upper
43 100
57 0.0 40.9 61.3#



#13
Ethanol
Concen: 6.734 ppbv
RT: 3.237 min Scan# 197
Delta R.T. 0.003 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 45 Resp: 34817
Ion Ratio Lower Upper
45 100
46 77.9 14.8 59.2#

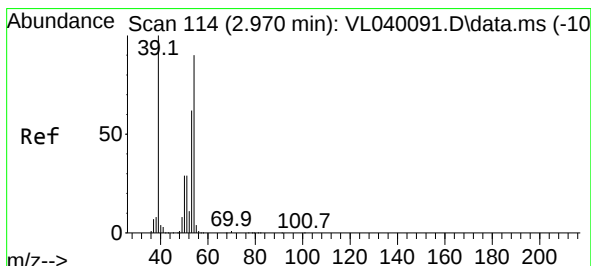
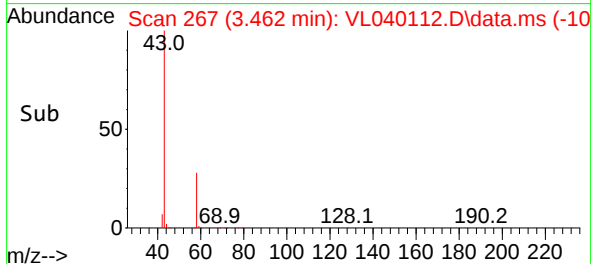
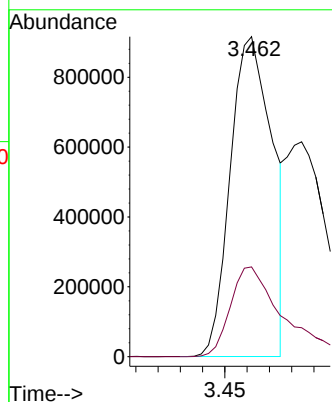
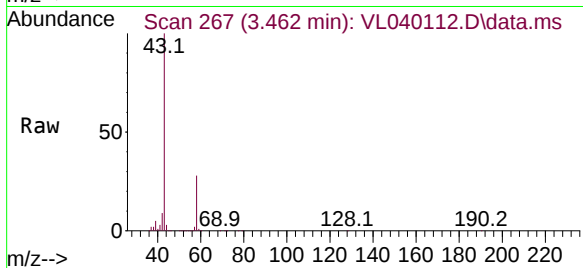




#15
Acetone
Concen: 8.895 ppbv
RT: 3.462 min Scan# 210
Delta R.T. 0.006 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

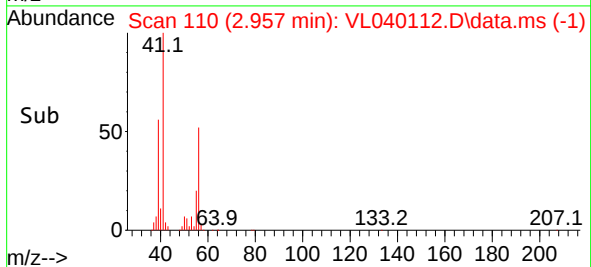
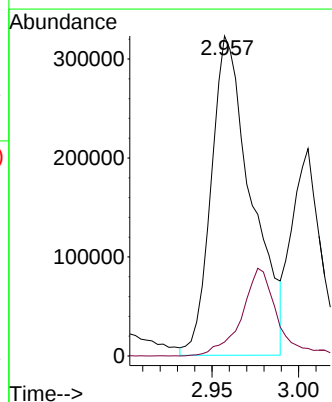
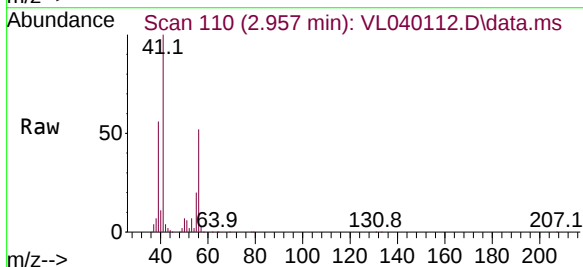
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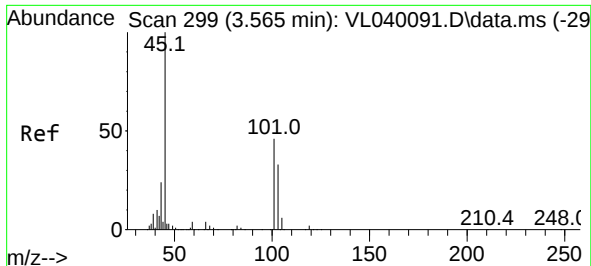
Tgt Ion: 43 Resp: 1202531
Ion Ratio Lower Upper
43 100
58 38.6 21.8 32.8#



#16
1,3-Butadiene
Concen: 8.280 ppbv
RT: 2.957 min Scan# 110
Delta R.T. -0.013 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 39 Resp: 521900
Ion Ratio Lower Upper
39 100
54 24.7 67.9 101.9#





#19

Isopropyl Alcohol

Concen: 0.181 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.016 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Instrument :

MSVOA_L

ClientSampleId :

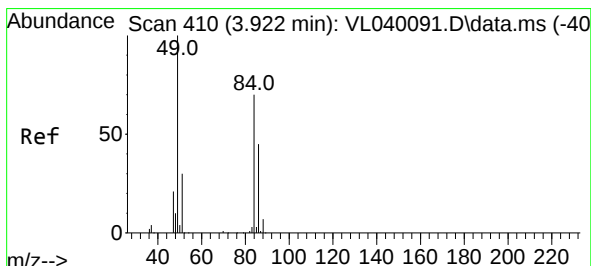
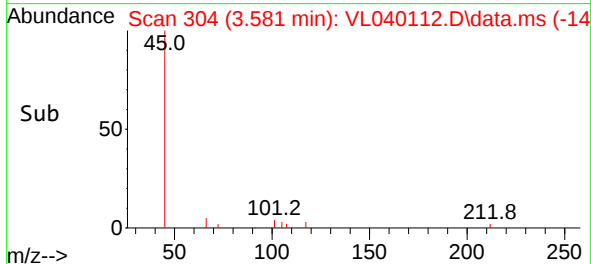
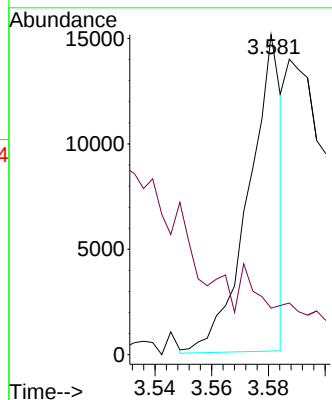
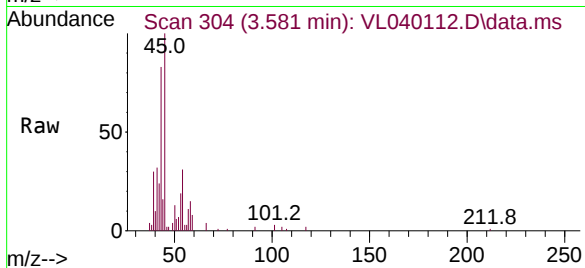
VP-1DL

Tgt Ion: 45 Resp: 11978

Ion Ratio Lower Upper

45 100

58 0.0 2.6 4.0#



#20

Methylene Chloride

Concen: 1.902 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.010 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Tgt Ion: 84 Resp: 113435

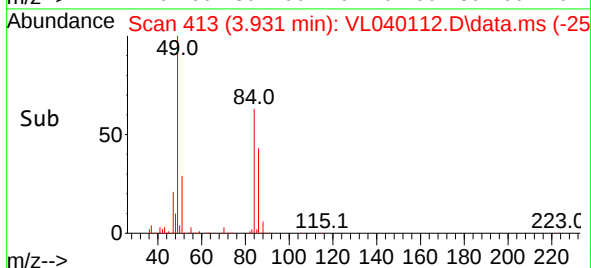
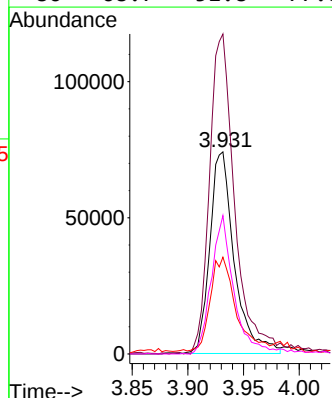
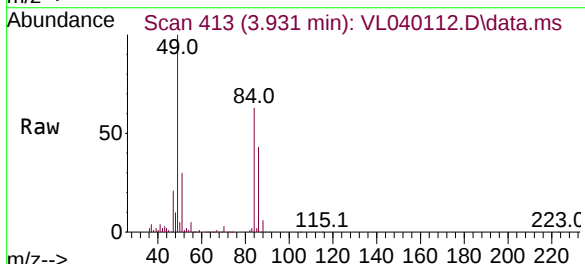
Ion Ratio Lower Upper

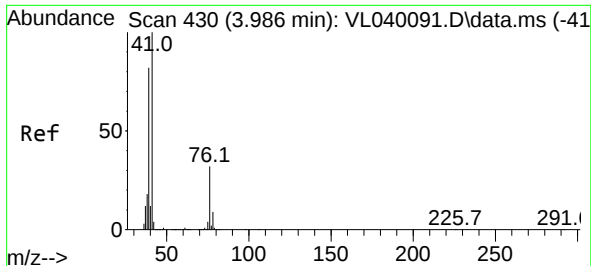
84 100

49 158.0 114.6 171.8

51 46.3 34.3 51.5

86 68.7 51.8 77.8

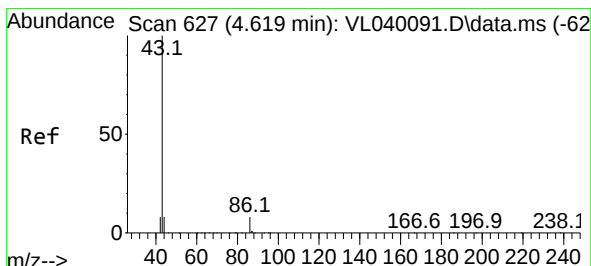
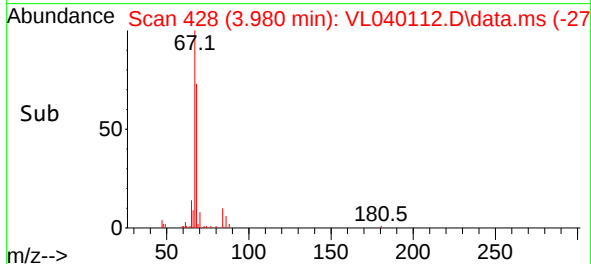
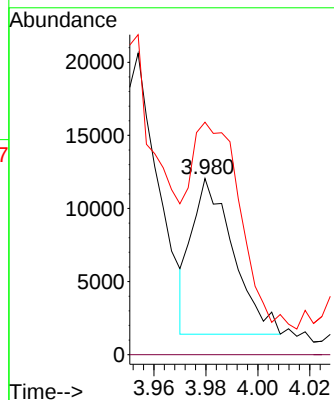
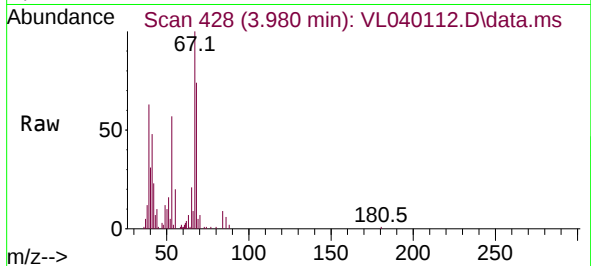




#21
 Allyl Chloride
 Concen: 0.136 ppbv
 RT: 3.980 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: VL040112.D
 Acq: 19 Jan 2023 14:21

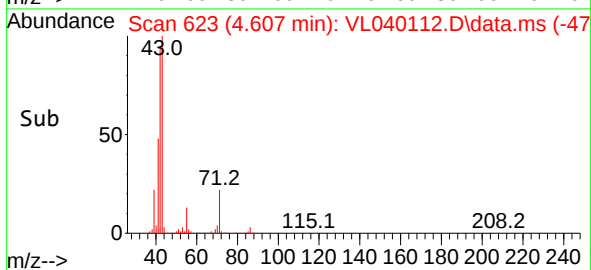
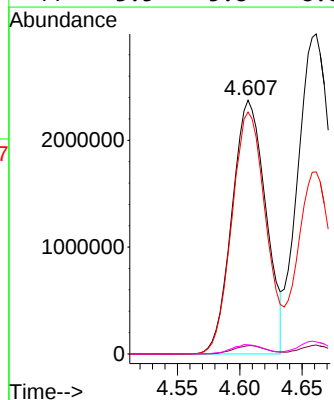
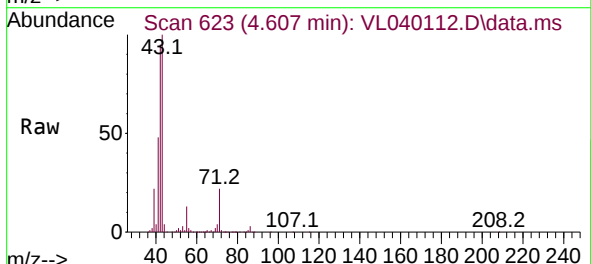
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1DL

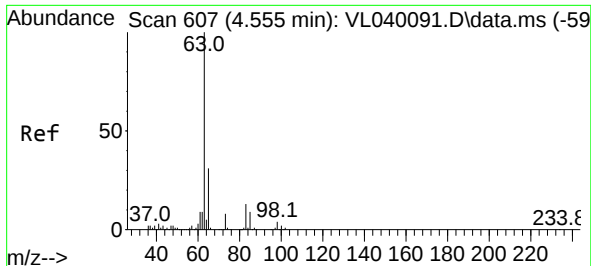
Tgt Ion: 41 Resp: 11790
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.9 38.9#
 39 0.0 66.8 100.2#



#23
 Vinyl Acetate
 Concen: 102.239 ppbv
 RT: 4.607 min Scan# 623
 Delta R.T. -0.013 min
 Lab File: VL040112.D
 Acq: 19 Jan 2023 14:21

Tgt Ion: 43 Resp: 4480516
 Ion Ratio Lower Upper
 43 100
 86 3.3 5.6 8.4#
 42 95.4 7.7 11.5#
 44 3.5 5.8 8.8#

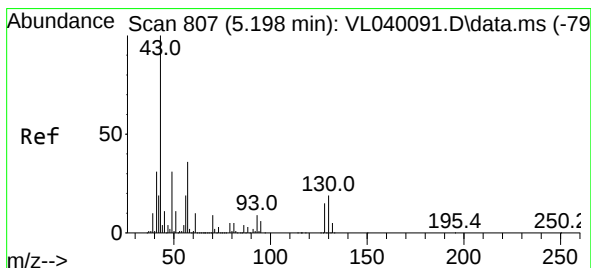
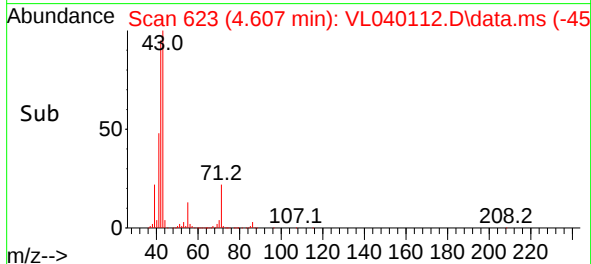
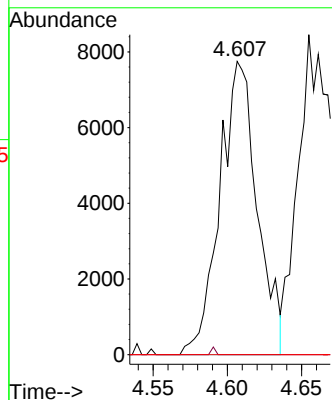
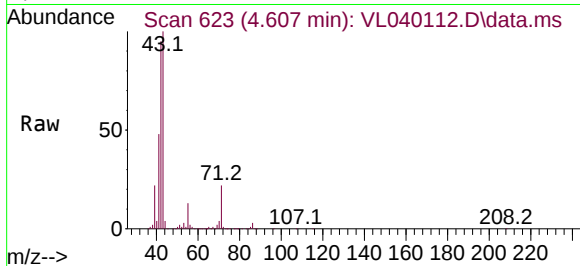




#24
1,1-Dichloroethane
Concen: 0.103 ppbv
RT: 4.607 min Scan# 61
Delta R.T. 0.051 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

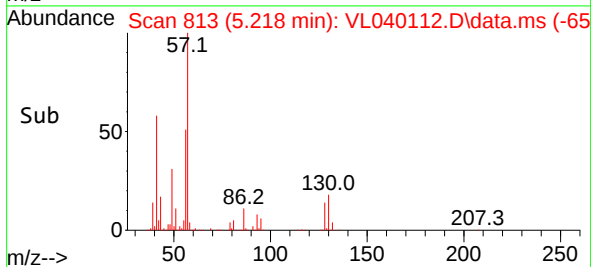
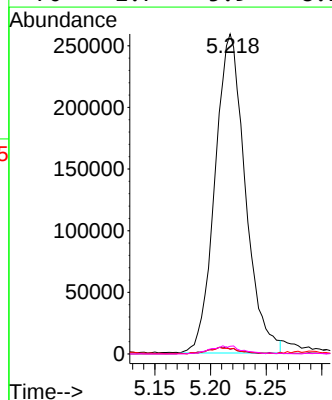
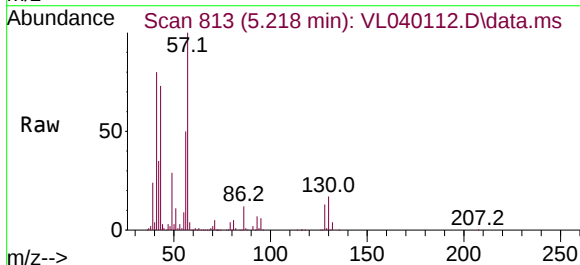
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

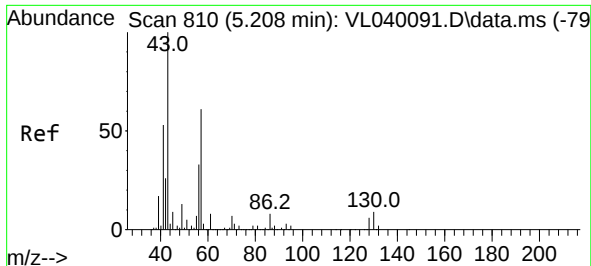
Tgt Ion: 63 Resp: 13603
Ion Ratio Lower Upper
63 100
98 0.0 2.0 5.8#
100 0.0 1.1 3.5#



#25
Ethyl Acetate
Concen: 2.050 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.019 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 43 Resp: 488178
Ion Ratio Lower Upper
43 100
45 2.3 8.5 12.7#
61 2.2 8.4 12.6#
70 2.7 5.9 8.9#

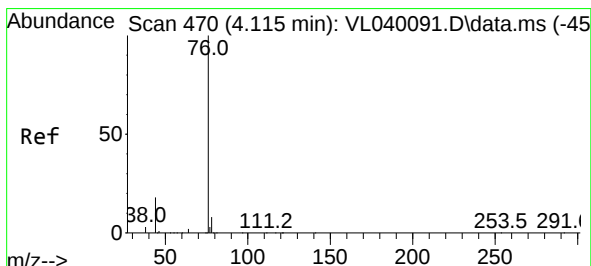
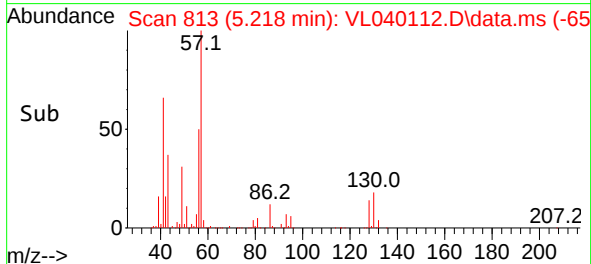
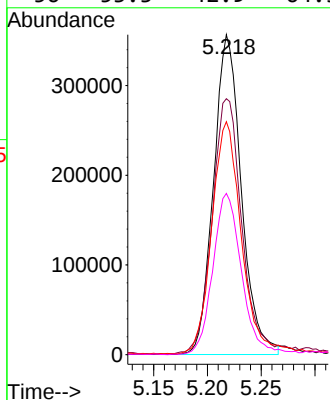
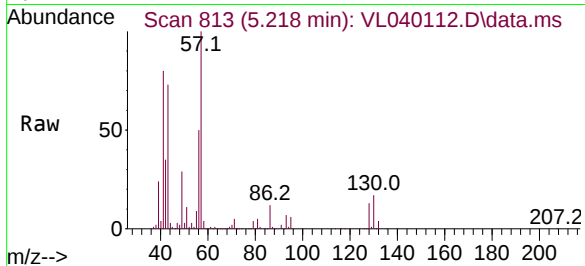




#26
Hexane
Concen: 6.142 ppbv
RT: 5.218 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

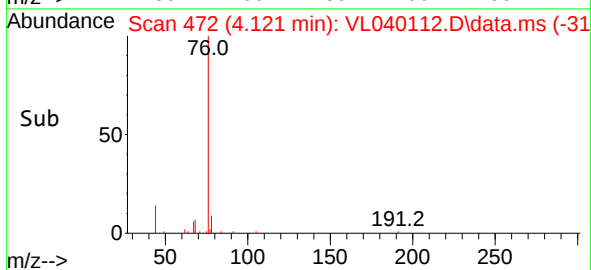
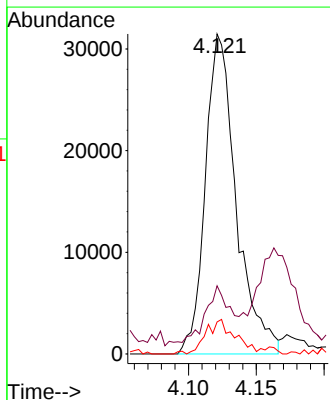
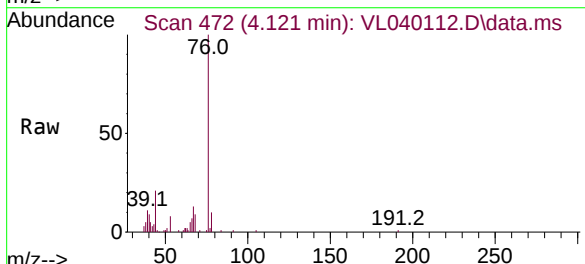
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

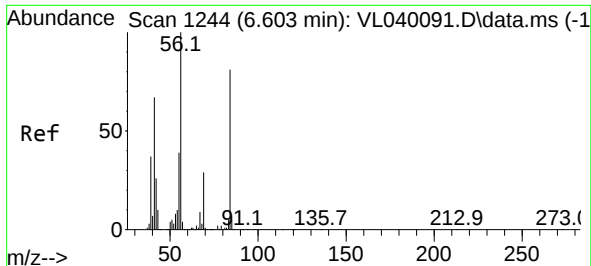
Tgt Ion: 57 Resp: 640238
Ion Ratio Lower Upper
57 100
41 87.6 72.2 108.4
43 78.6 192.1 288.1#
56 53.3 42.9 64.3



#27
Carbon Disulfide
Concen: 0.369 ppbv
RT: 4.121 min Scan# 472
Delta R.T. 0.006 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 76 Resp: 49859
Ion Ratio Lower Upper
76 100
44 17.5 14.9 22.3
78 11.4 8.2 12.2

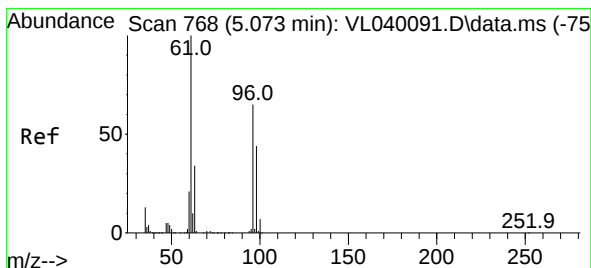
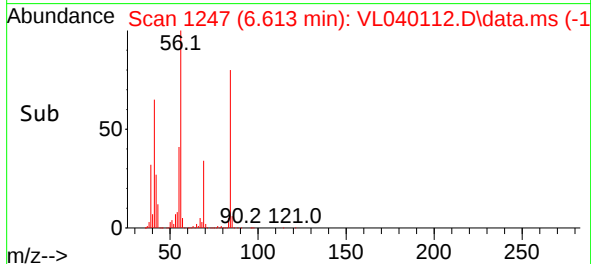
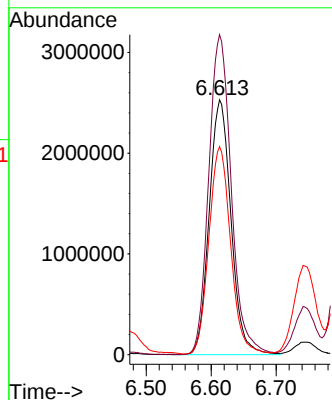
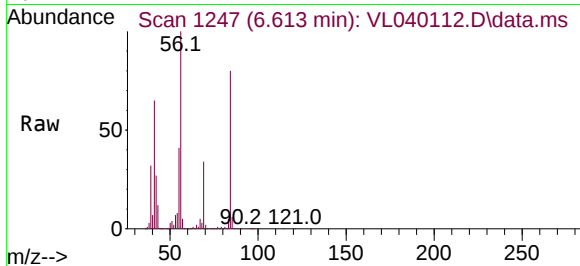




#30
Cyclohexane
Concen: 71.288 ppbv
RT: 6.613 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

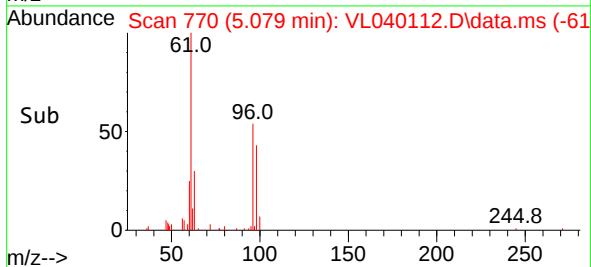
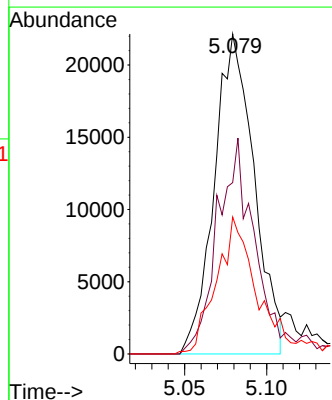
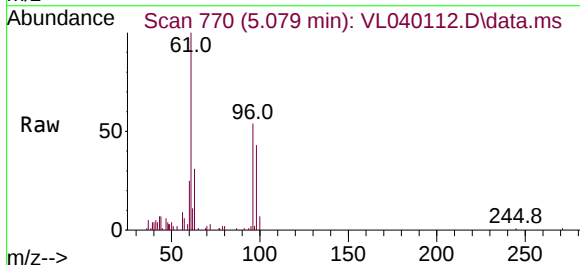
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

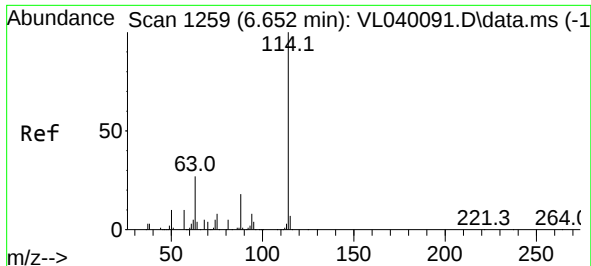
Tgt Ion: 84 Resp: 5906846
Ion Ratio Lower Upper
84 100
56 129.2 111.5 167.3
41 80.6 71.4 107.0



#31
cis-1,2-Dichloroethene
Concen: 0.370 ppbv
RT: 5.079 min Scan# 770
Delta R.T. 0.006 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 61 Resp: 37364
Ion Ratio Lower Upper
61 100
96 53.6 52.0 78.0
98 42.0 35.3 52.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Instrument :

MSVOA_L

ClientSampleId :

VP-1DL

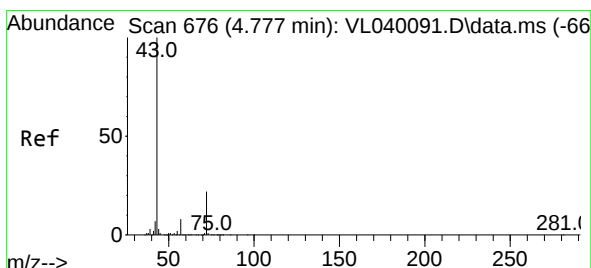
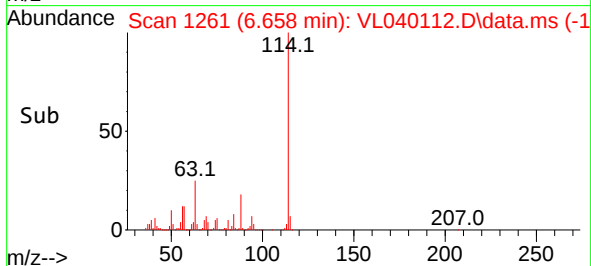
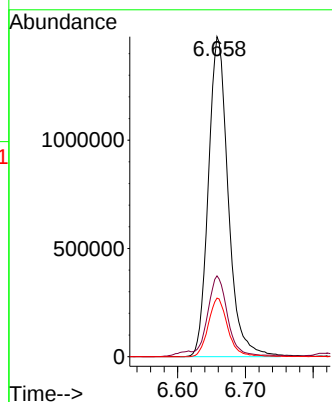
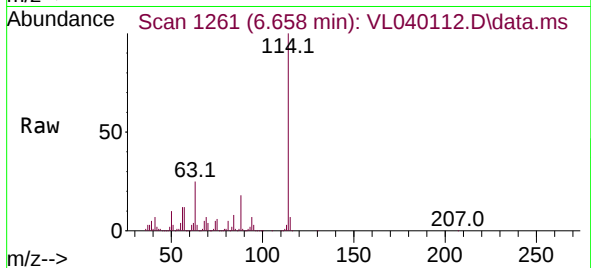
Tgt Ion:114 Resp: 3000420

Ion Ratio Lower Upper

114 100

63 27.2 21.8 32.8

88 18.1 14.8 22.2



#34

2-Butanone

Concen: 5.736 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.010 min

Lab File: VL040112.D

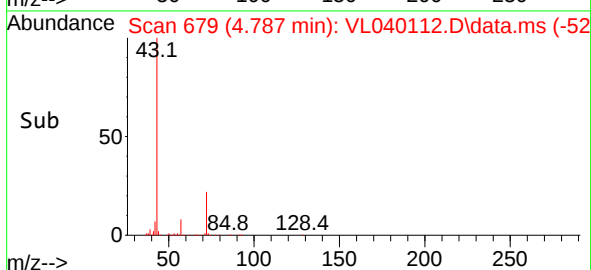
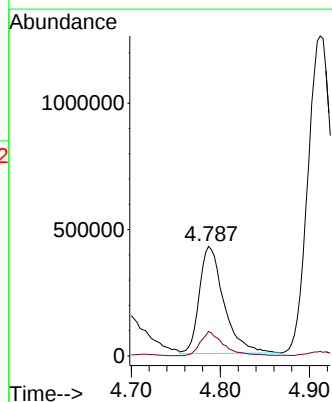
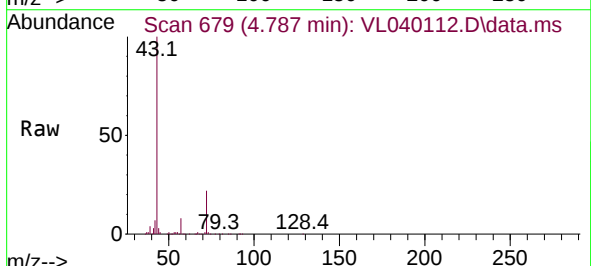
Acq: 19 Jan 2023 14:21

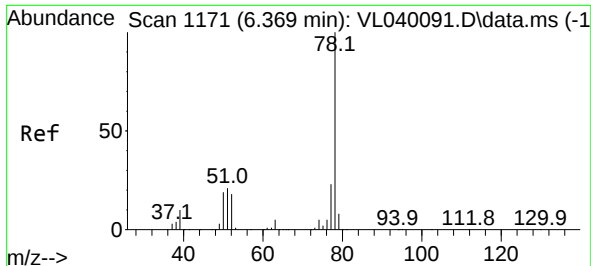
Tgt Ion: 43 Resp: 814108

Ion Ratio Lower Upper

43 100

72 22.3 18.4 27.6

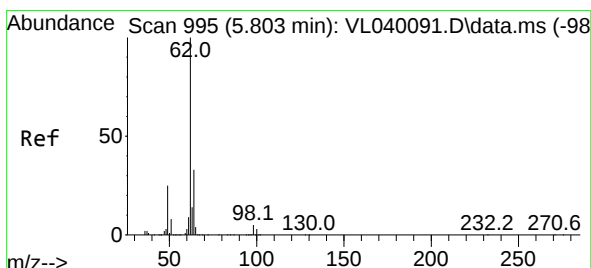
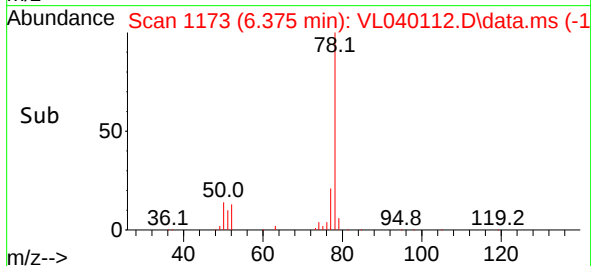
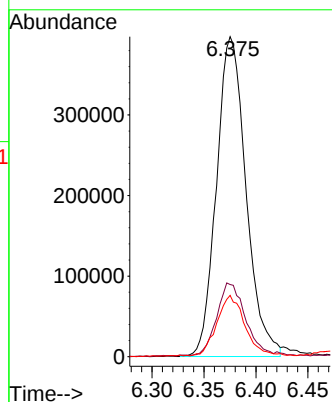
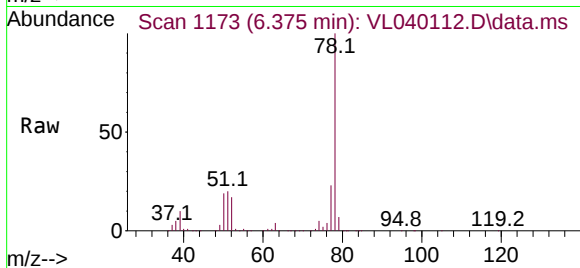




#36
Benzene
Concen: 3.535 ppbv
RT: 6.375 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

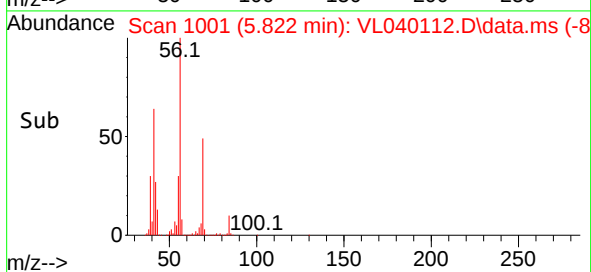
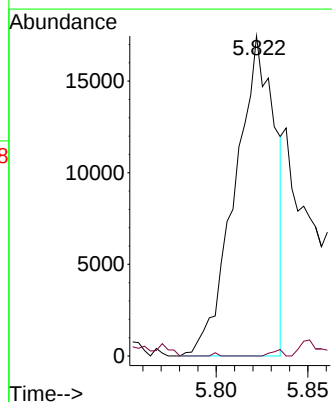
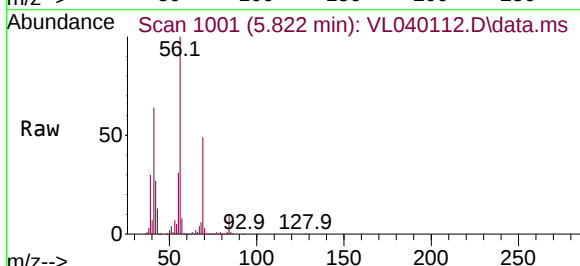
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

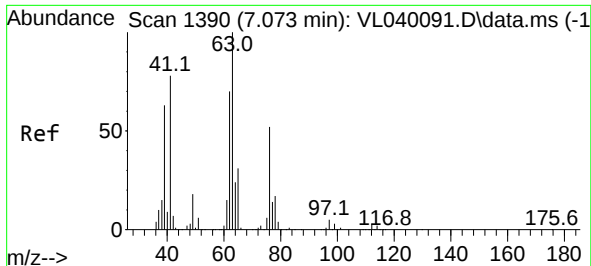
Tgt Ion: 78 Resp: 784948
Ion Ratio Lower Upper
78 100
77 22.1 18.1 27.1
50 18.6 15.6 23.4



#37
1,2-Dichloroethane
Concen: 0.186 ppbv
RT: 5.822 min Scan# 1001
Delta R.T. 0.019 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 62 Resp: 26495
Ion Ratio Lower Upper
62 100
98 0.0 4.4 6.6#





#39

1,2-Dichloropropane

Concen: 0.272 ppbv

RT: 6.976 min Scan# 11

Delta R.T. -0.096 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Instrument :

MSVOA_L

ClientSampleId :

VP-1DL

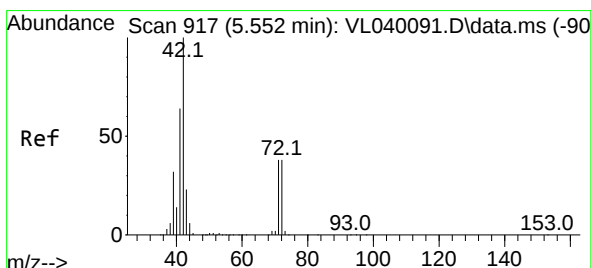
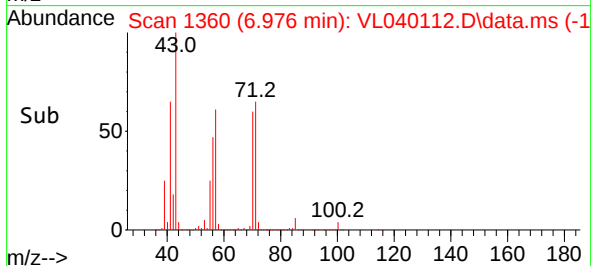
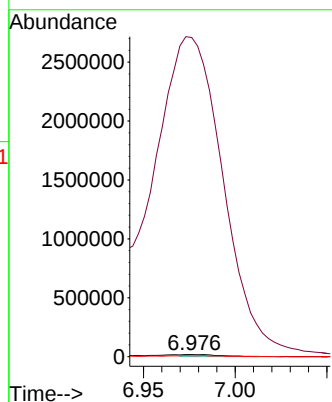
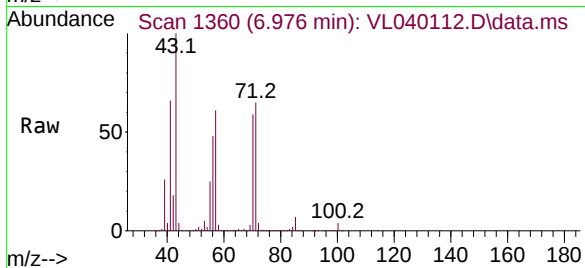
Tgt Ion: 63 Resp: 23595

Ion Ratio Lower Upper

63 100

41 14986.4 62.2 93.4#

62 39.7 55.8 83.8#



#41

Tetrahydrofuran

Concen: 0.819 ppbv

RT: 5.581 min Scan# 926

Delta R.T. 0.029 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

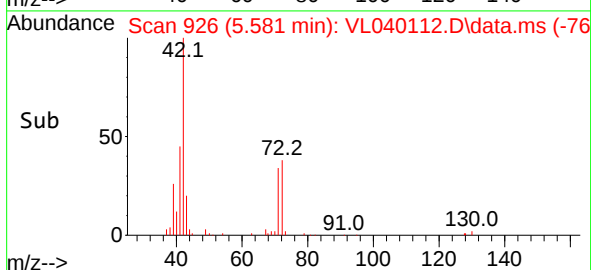
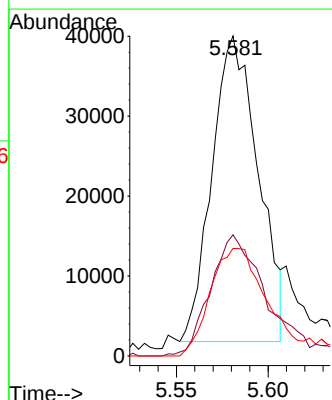
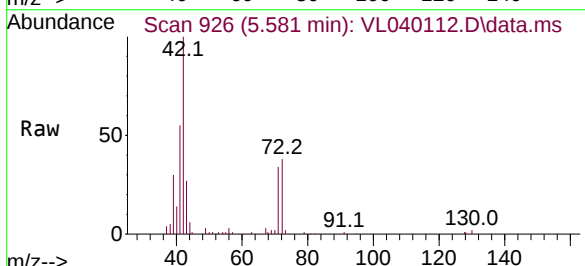
Tgt Ion: 42 Resp: 67059

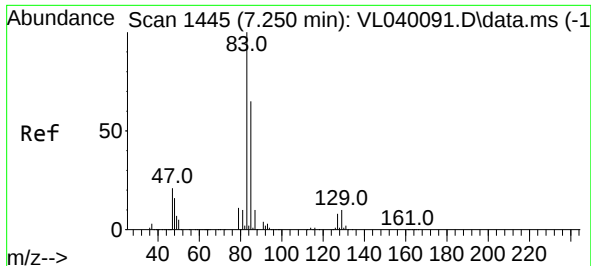
Ion Ratio Lower Upper

42 100

72 51.4 31.9 47.9#

71 47.0 31.4 47.2





#42

Bromodichloromethane

Concen: 10.094 ppbv

RT: 7.269 min Scan# 1445

Delta R.T. 0.019 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Instrument :

MSVOA_L

ClientSampleId :

VP-1DL

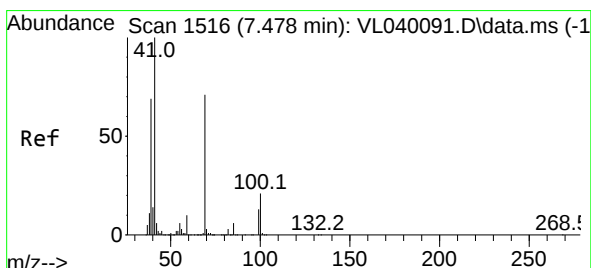
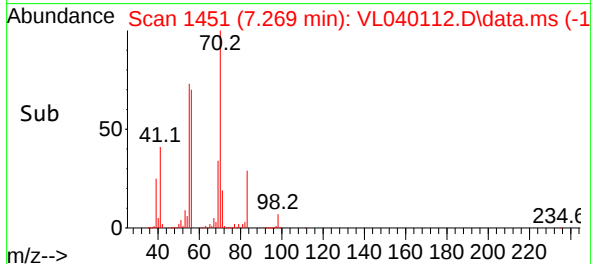
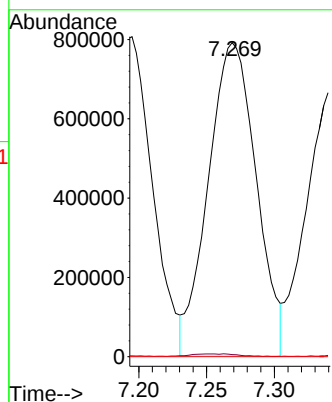
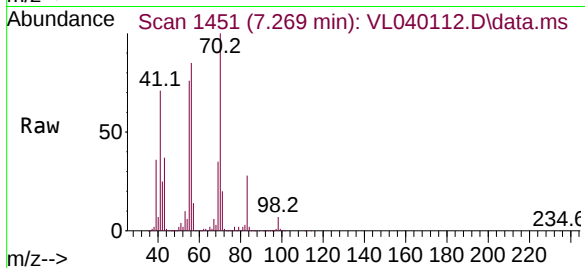
Tgt Ion: 83 Resp: 1945251

Ion Ratio Lower Upper

83 100

85 0.7 51.7 77.5#

127 0.0 6.2 9.2#



#43

Methyl Methacrylate

Concen: 41.532 ppbv

RT: 7.343 min Scan# 1474

Delta R.T. -0.135 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

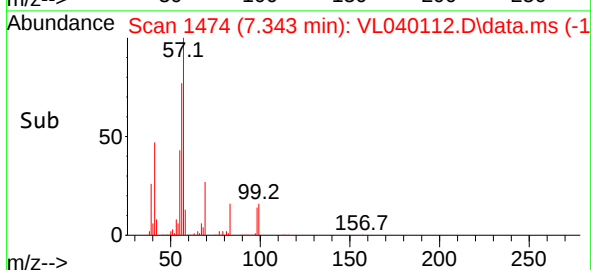
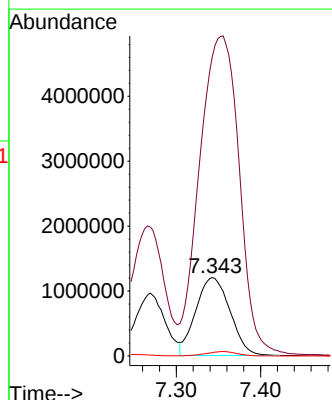
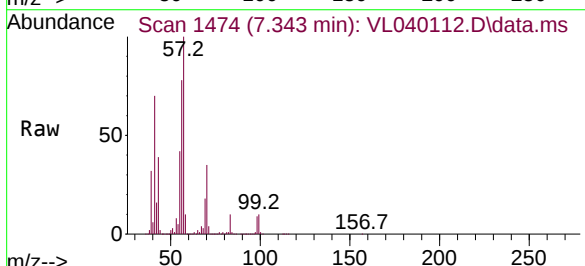
Tgt Ion: 69 Resp: 3383993

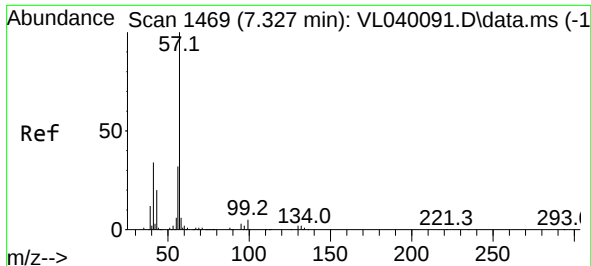
Ion Ratio Lower Upper

69 100

41 477.4 118.2 177.2#

100 5.2 24.2 36.4#





#44

2,2,4-Trimethylpentane

Concen: 70.711 ppbv

RT: 7.356 min Scan# 1469

Delta R.T. 0.029 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Instrument :

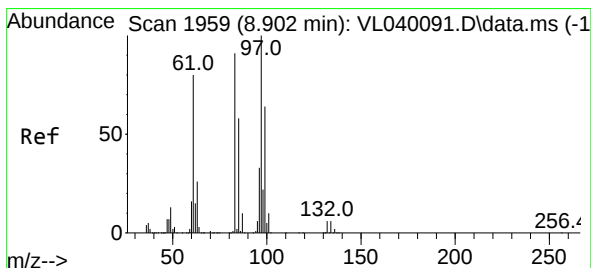
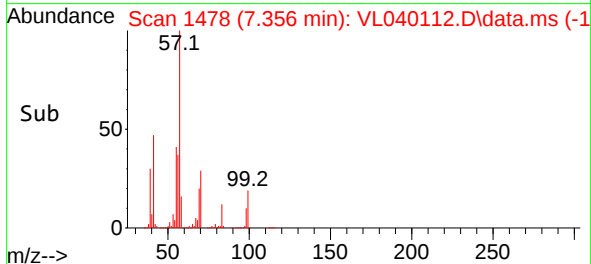
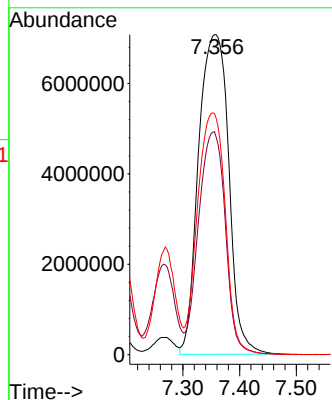
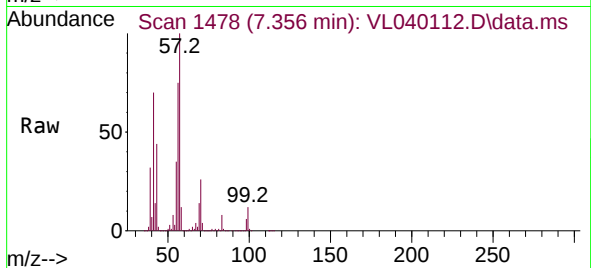
MSVOA_L

ClientSampleId :

VP-1DL

Tgt Ion: 57 Resp:26110246

Ion	Ratio	Lower	Upper
57	100		
41	62.6	27.1	40.7#
56	70.3	25.0	37.4#



#47

1,1,2-Trichloroethane

Concen: 7.984 ppbv

RT: 9.015 min Scan# 1994

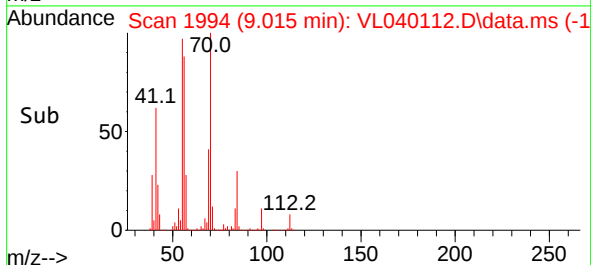
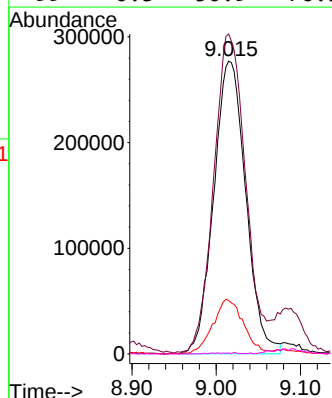
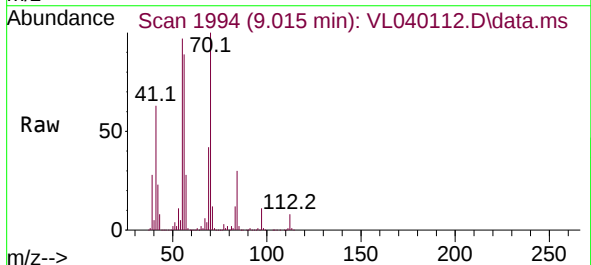
Delta R.T. 0.113 min

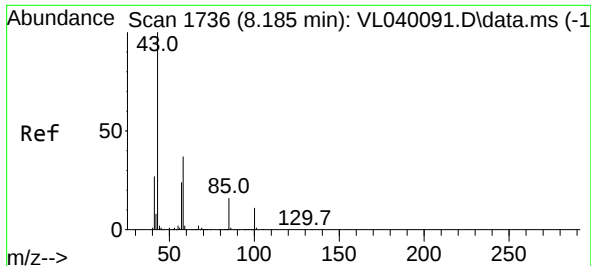
Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Tgt Ion: 97 Resp: 730038

Ion	Ratio	Lower	Upper
97	100		
83	108.7	72.9	109.3
85	18.2	46.0	69.0#
99	0.3	50.9	76.3#





#50

4-Methyl-2-Pentanone

Concen: 11.438 ppbv

RT: 8.278 min Scan# 1765

Delta R.T. 0.093 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Instrument :

MSVOA_L

ClientSampleId :

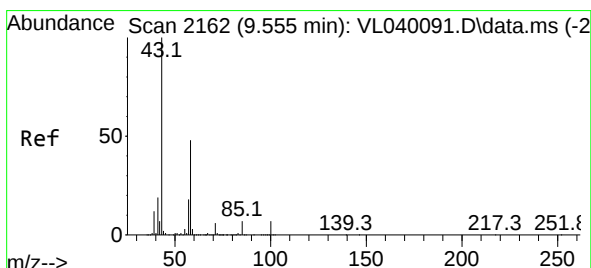
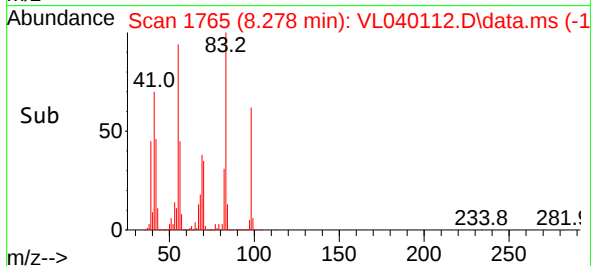
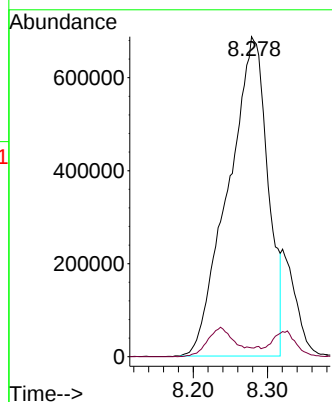
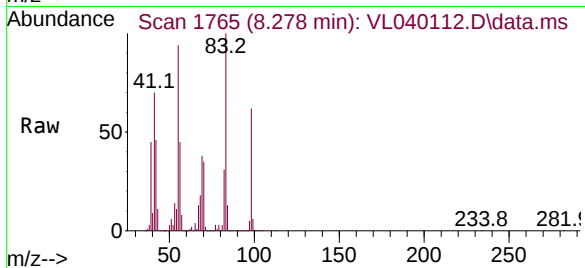
VP-1DL

Tgt Ion: 43 Resp: 2553310

Ion Ratio Lower Upper

43 100

58 7.0 28.8 43.2#



#51

2-Hexanone

Concen: 32.666 ppbv

RT: 9.558 min Scan# 2163

Delta R.T. 0.003 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

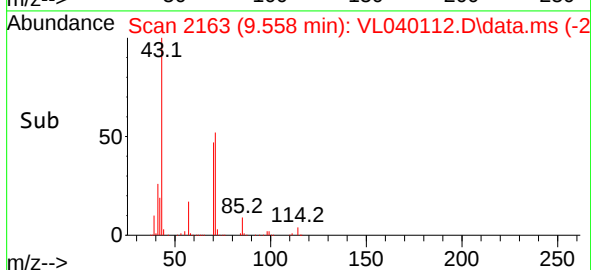
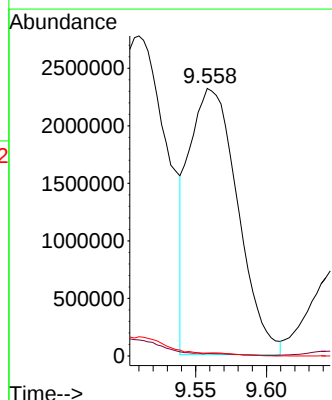
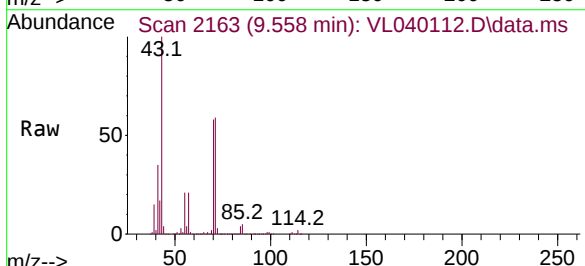
Tgt Ion: 43 Resp: 5524524

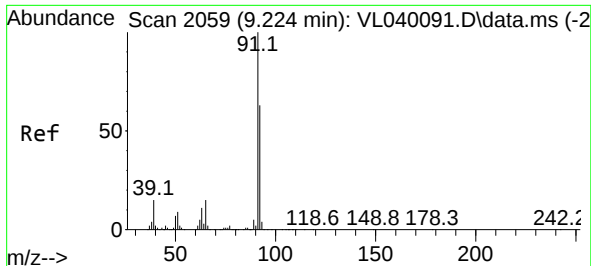
Ion Ratio Lower Upper

43 100

58 0.0 37.5 56.3#

98 0.0 0.4 0.6#

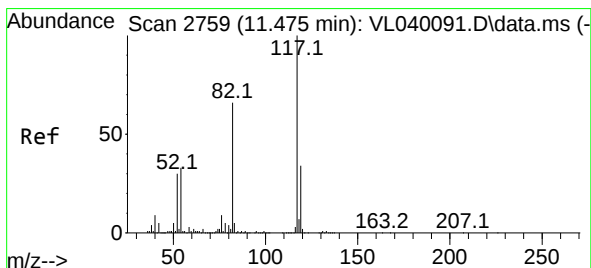
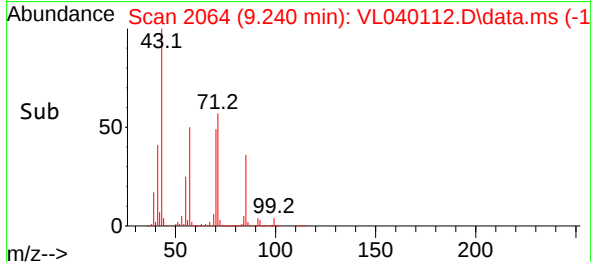
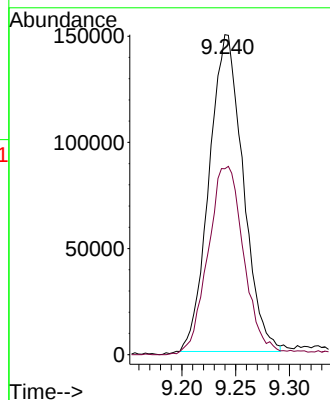
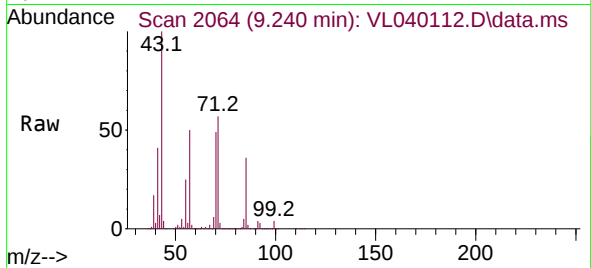




#53
Toluene
Concen: 1.383 ppbv
RT: 9.240 min Scan# 2059
Delta R.T. 0.016 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

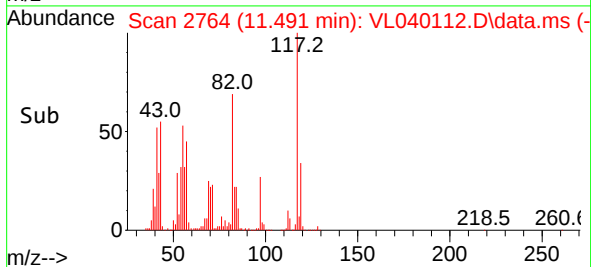
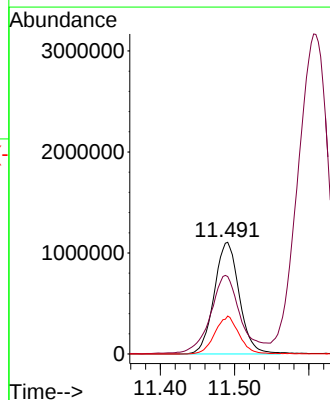
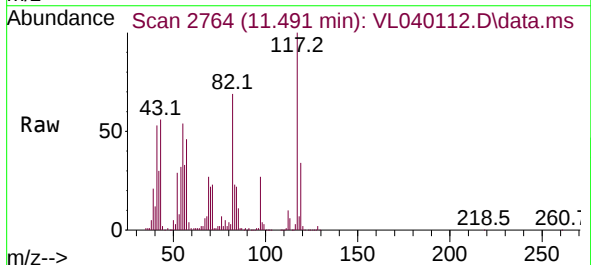
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

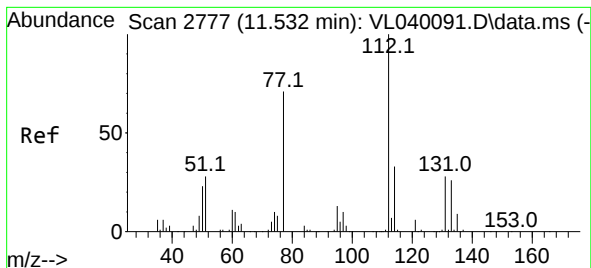
Tgt Ion: 91 Resp: 327587
Ion Ratio Lower Upper
91 100
92 64.3 48.3 72.5



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.491 min Scan# 2764
Delta R.T. 0.016 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 117 Resp: 2591186
Ion Ratio Lower Upper
117 100
82 84.5 54.4 81.6#
119 32.9 26.8 40.2

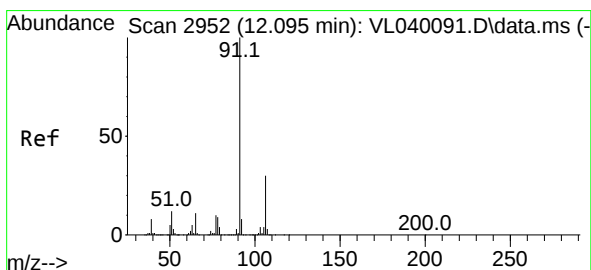
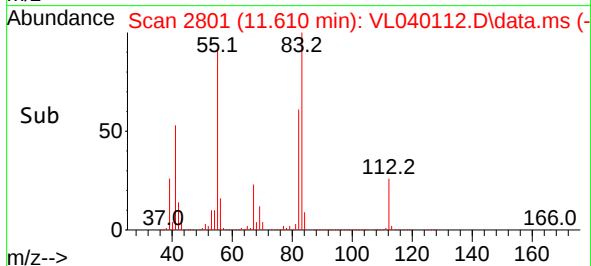
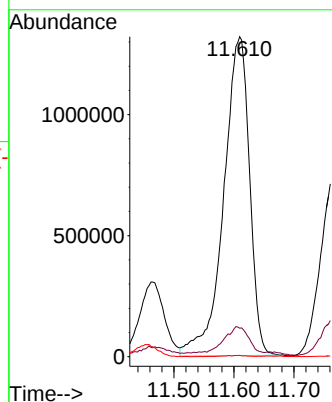
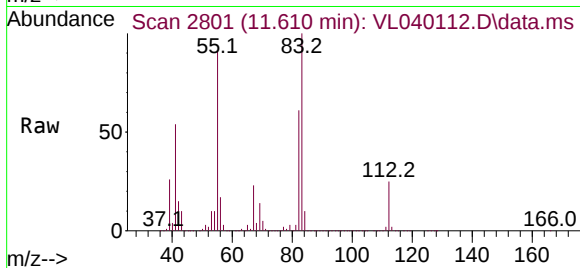




#57
Chlorobenzene
Concen: 22.299 ppbv
RT: 11.610 min Scan# 21
Delta R.T. 0.077 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

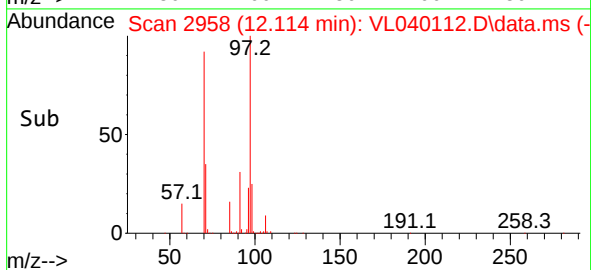
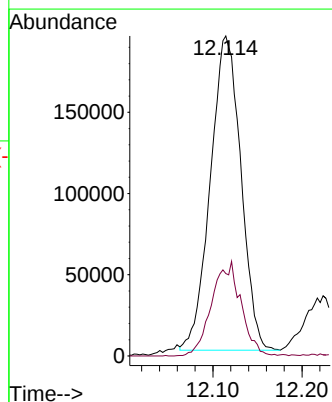
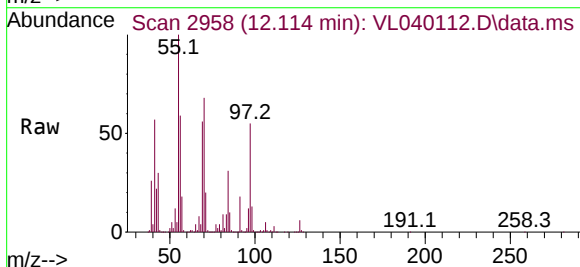
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

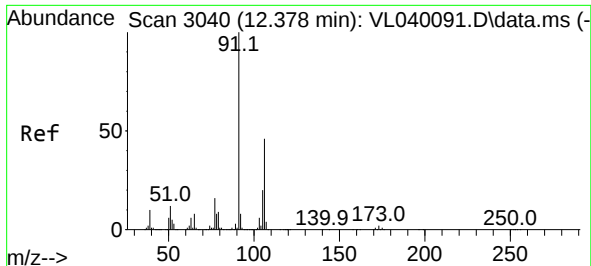
Tgt Ion:112 Resp: 3938669
Ion Ratio Lower Upper
112 100
77 7.9 57.3 85.9#
114 0.4 29.6 36.2#



#58
Ethyl Benzene
Concen: 1.593 ppbv
RT: 12.114 min Scan# 2958
Delta R.T. 0.019 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 91 Resp: 460627
Ion Ratio Lower Upper
91 100
106 26.1 23.7 35.5





#59

m/p-Xylene

Concen: 0.661 ppbv

RT: 12.368 min Scan# 3040

Delta R.T. -0.010 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Instrument :

MSVOA_L

ClientSampleId :

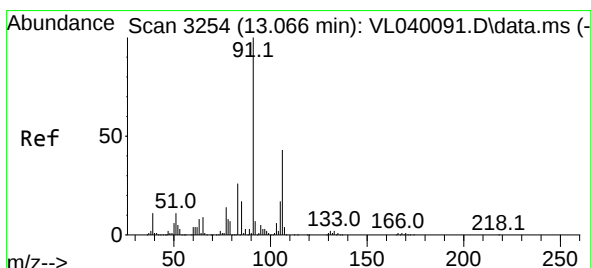
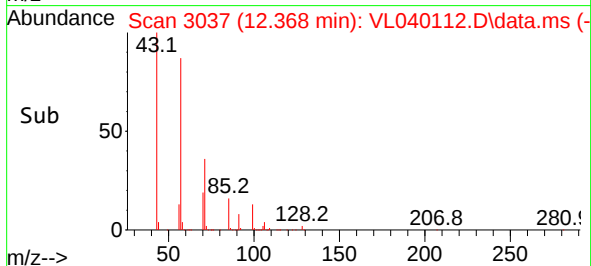
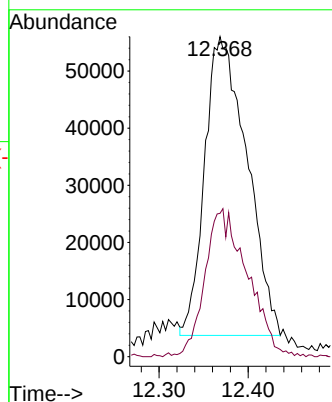
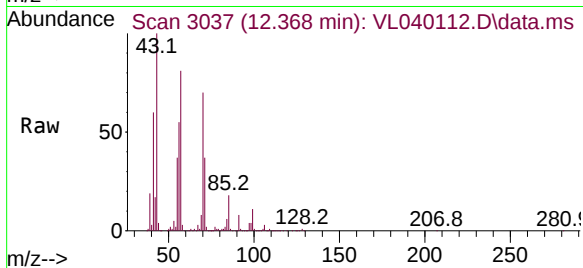
VP-1DL

Tgt Ion: 91 Resp: 171808

Ion Ratio Lower Upper

91 100

106 50.0 34.2 51.4



#60

o-Xylene

Concen: 0.320 ppbv

RT: 13.079 min Scan# 3258

Delta R.T. 0.013 min

Lab File: VL040112.D

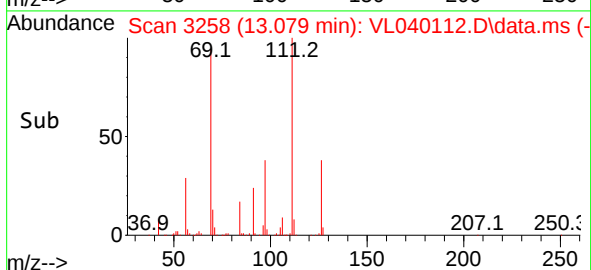
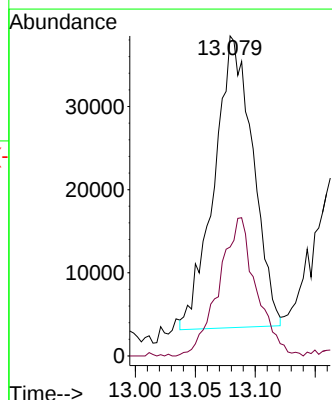
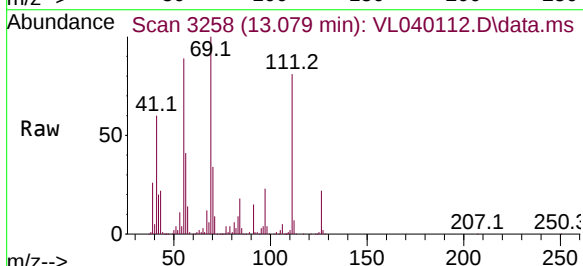
Acq: 19 Jan 2023 14:21

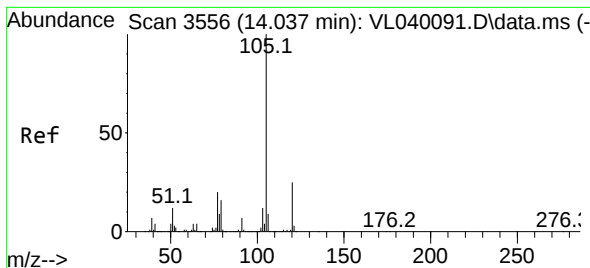
Tgt Ion: 91 Resp: 78862

Ion Ratio Lower Upper

91 100

106 46.1 21.6 64.8





#62

Isopropylbenzene

Concen: 7.996 ppbv

RT: 14.056 min Scan# 3556

Delta R.T. 0.019 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Instrument :

MSVOA_L

ClientSampleId :

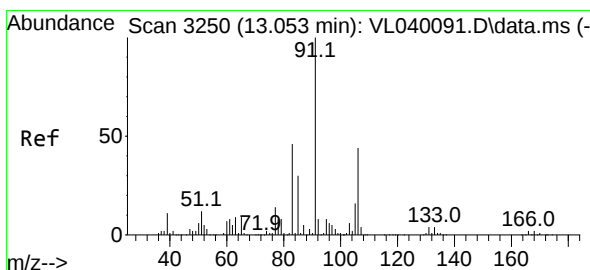
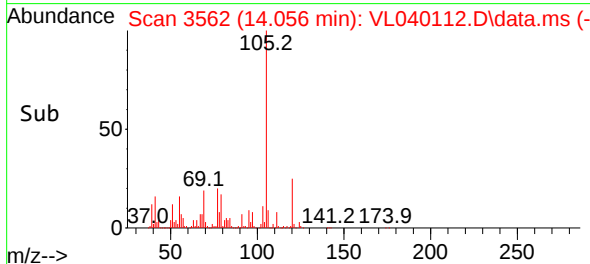
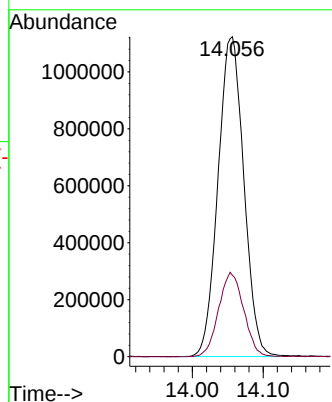
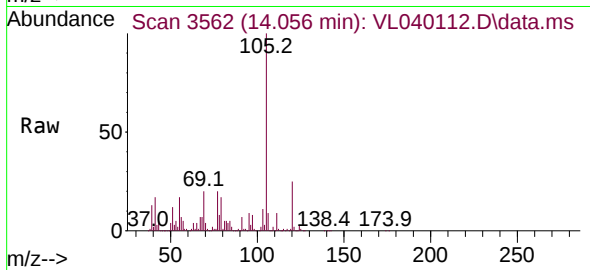
VP-1DL

Tgt Ion:105 Resp: 2838477

Ion Ratio Lower Upper

105 100

120 25.7 20.2 30.2



#63

1,1,2,2-Tetrachloroethane

Concen: 1.310 ppbv

RT: 13.056 min Scan# 3251

Delta R.T. 0.003 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

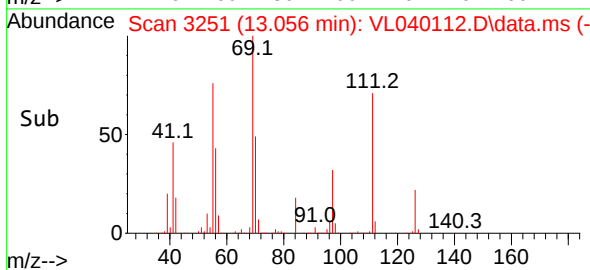
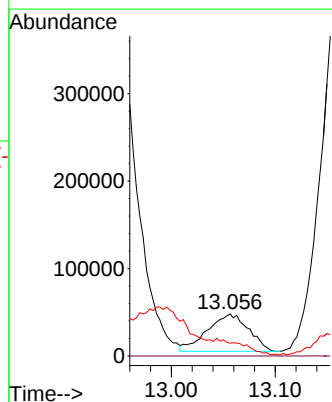
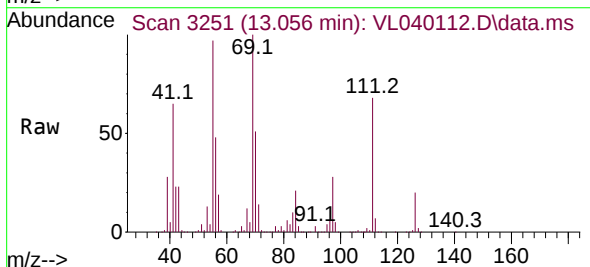
Tgt Ion: 83 Resp: 117343

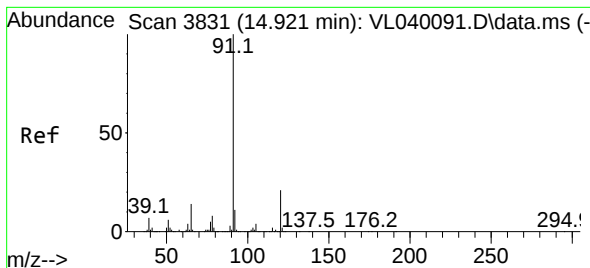
Ion Ratio Lower Upper

83 100

131 0.0 4.3 13.1#

85 0.0 32.5 97.5#





#64

n-propylbenzene

Concen: 6.014 ppbv

RT: 14.944 min Scan# 3838

Delta R.T. 0.023 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Instrument :

MSVOA_L

ClientSampleId :

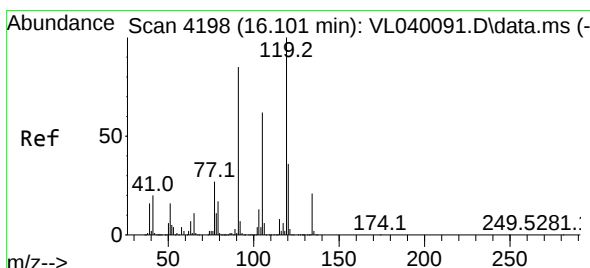
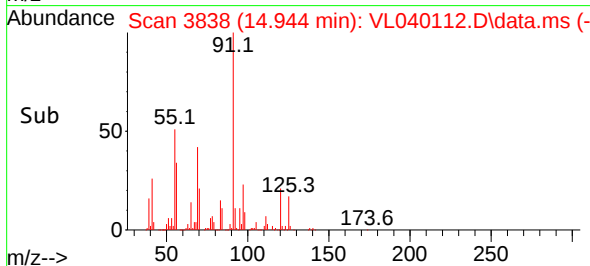
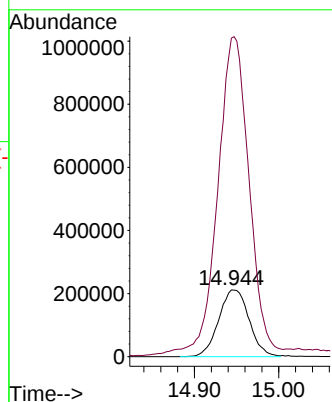
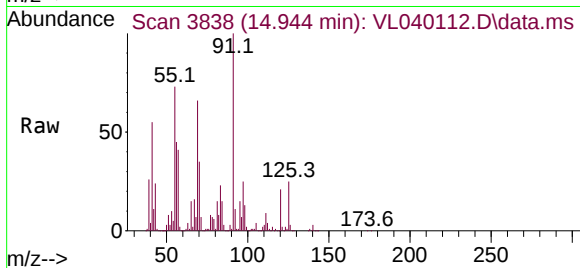
VP-1DL

Tgt Ion:120 Resp: 530660

Ion Ratio Lower Upper

120 100

91 510.4 397.0 595.4



#65

tert-Butylbenzene

Concen: 0.496 ppbv

RT: 16.114 min Scan# 4202

Delta R.T. 0.013 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

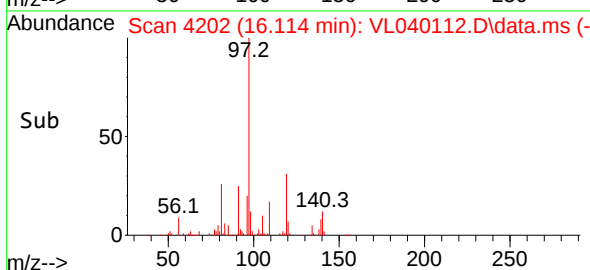
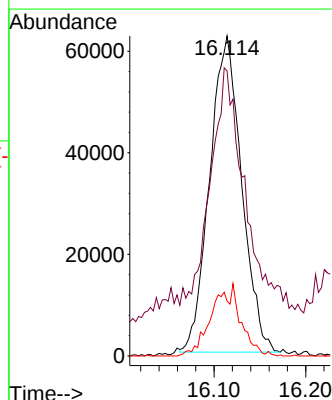
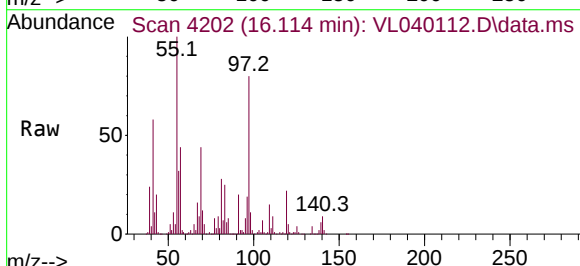
Tgt Ion:119 Resp: 150768

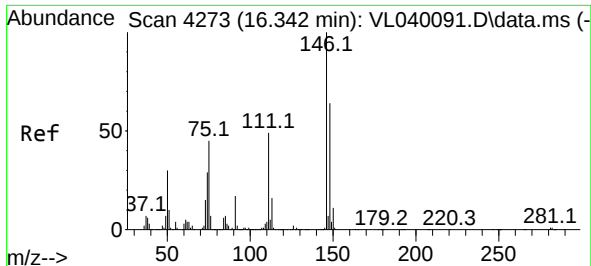
Ion Ratio Lower Upper

119 100

91 105.3 69.5 104.3#

134 20.8 15.8 23.8

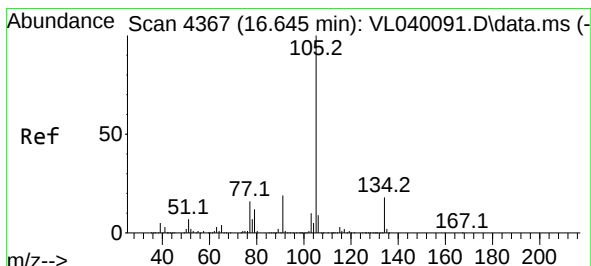
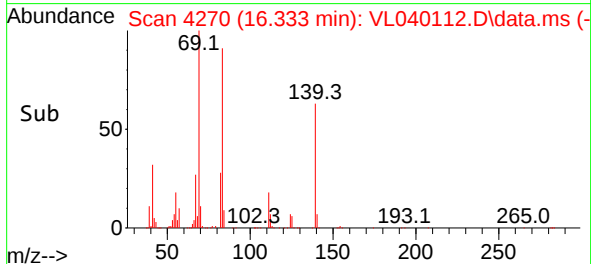
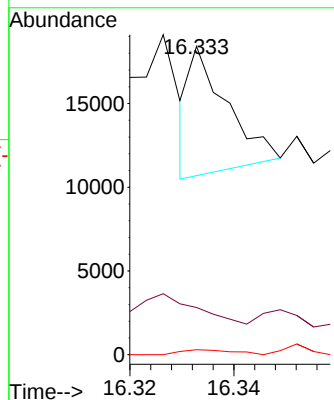
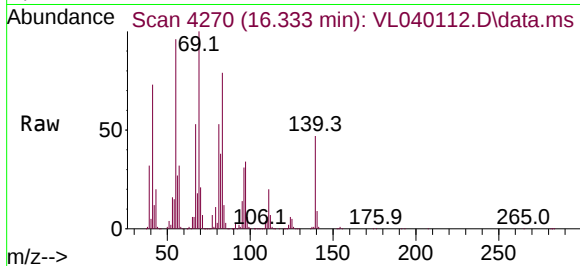




#66
Benzyl Chloride
Concen: 0.186 ppbv
RT: 16.333 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

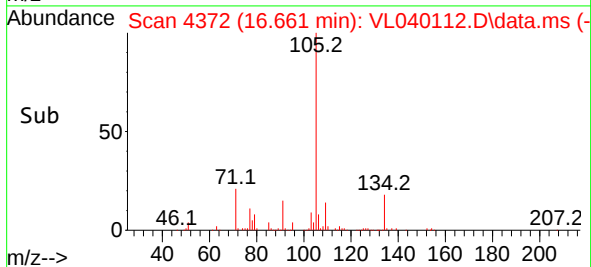
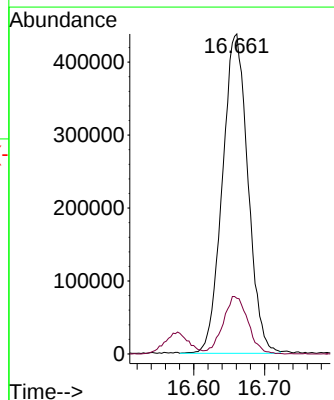
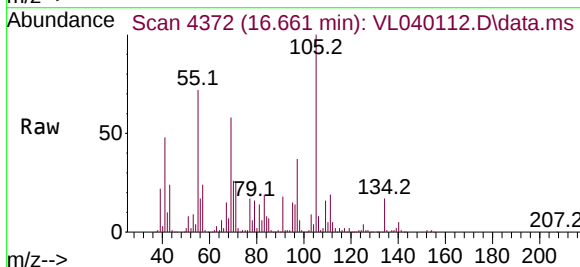
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

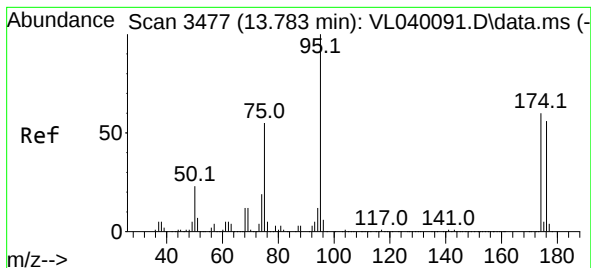
Tgt Ion: 91 Resp: 3868
Ion Ratio Lower Upper
91 100
126 0.0 11.5 17.3#
128 12.6 0.0 0.0#



#67
sec-Butylbenzene
Concen: 2.541 ppbv
RT: 16.661 min Scan# 4372
Delta R.T. 0.016 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion:105 Resp: 1094921
Ion Ratio Lower Upper
105 100
134 17.7 14.1 21.1

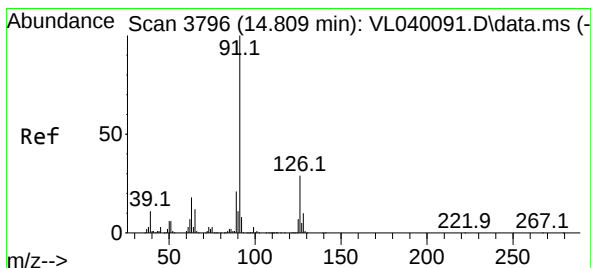
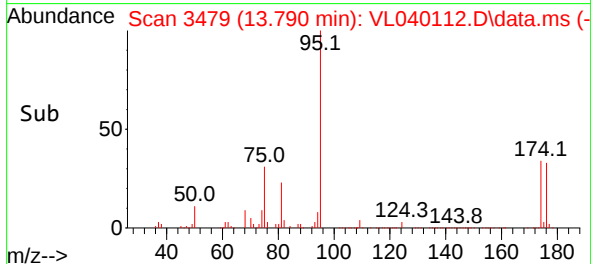
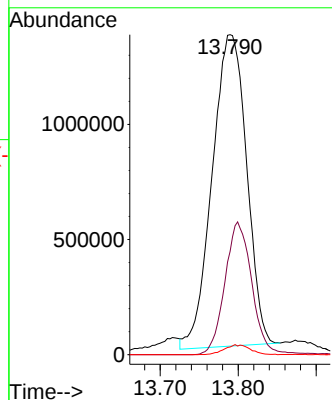
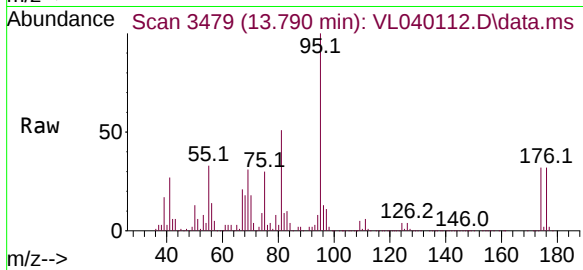




#68
1-Bromo-4-Fluorobenzene
Concen: 19.275 ppbv
RT: 13.790 min Scan# 3477
Delta R.T. 0.006 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

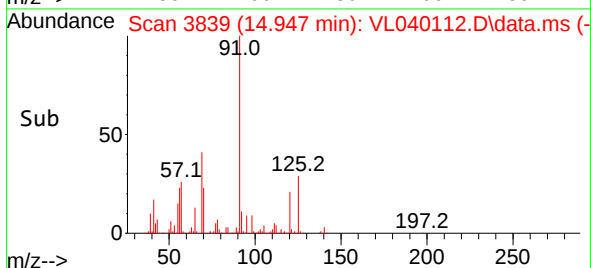
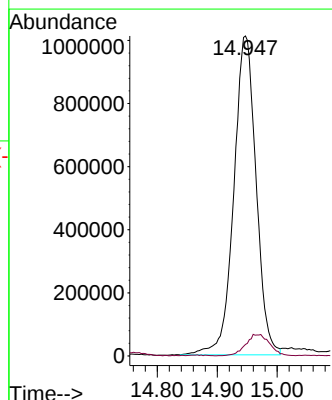
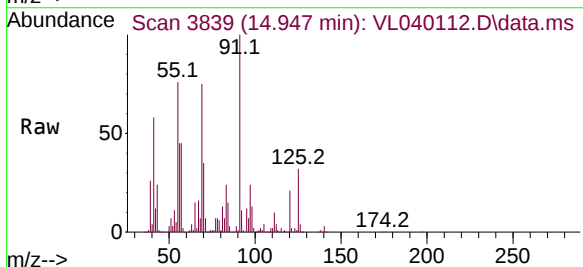
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

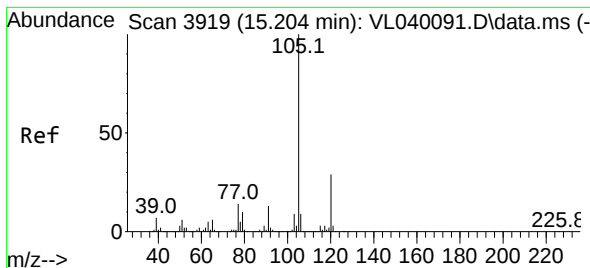
Tgt Ion: 95 Resp: 4151020
Ion Ratio Lower Upper
95 100
174 33.9 47.7 71.5#
175 2.4 3.4 5.2#



#71
2-Chlorotoluene
Concen: 9.590 ppbv
RT: 14.947 min Scan# 3839
Delta R.T. 0.138 min
Lab File: VL040112.D
Acq: 19 Jan 2023 14:21

Tgt Ion: 91 Resp: 2618158
Ion Ratio Lower Upper
91 100
126 7.1 11.9 47.5#





#72

4-Ethyltoluene

Concen: 0.041 ppbv

RT: 15.220 min Scan# 3919

Delta R.T. 0.016 min

Lab File: VL040112.D

Acq: 19 Jan 2023 14:21

Instrument :

MSVOA_L

ClientSampleId :

VP-1DL

Tgt Ion:105 Resp: 11117

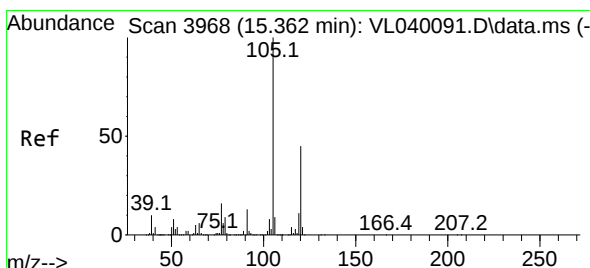
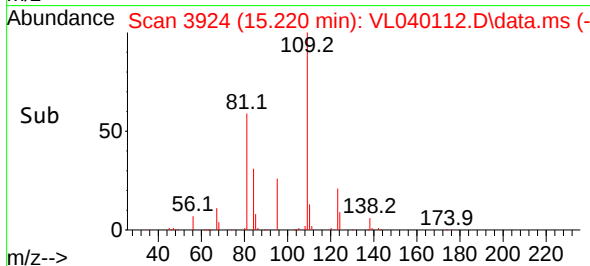
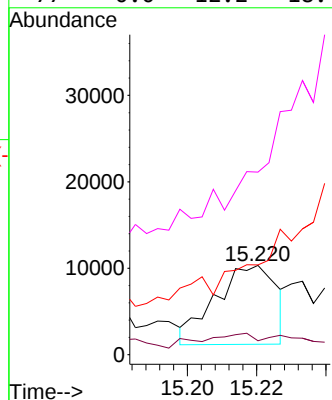
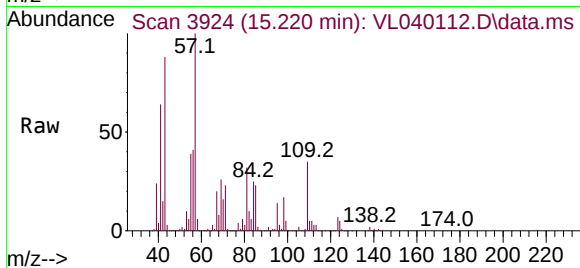
Ion Ratio Lower Upper

105 100

120 0.0 23.1 34.7#

91 0.0 11.2 16.8#

77 0.0 12.2 18.4#



#73

1,3,5-Trimethylbenzene

Concen: 0.045 ppbv

RT: 15.384 min Scan# 3975

Delta R.T. 0.023 min

Lab File: VL040112.D

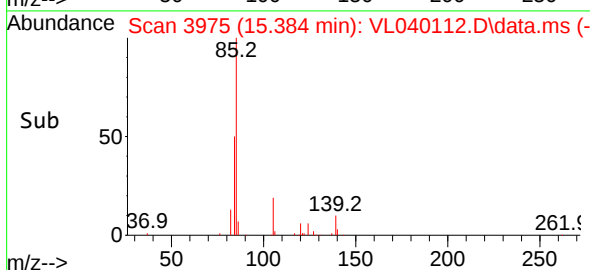
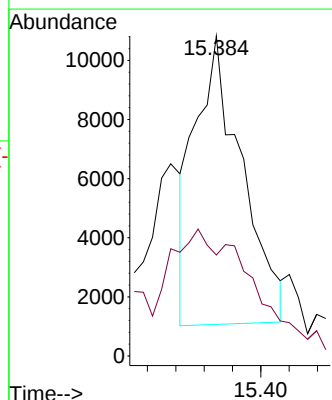
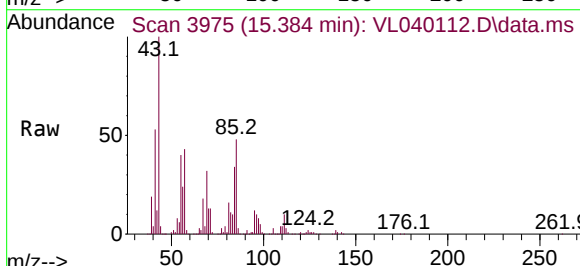
Acq: 19 Jan 2023 14:21

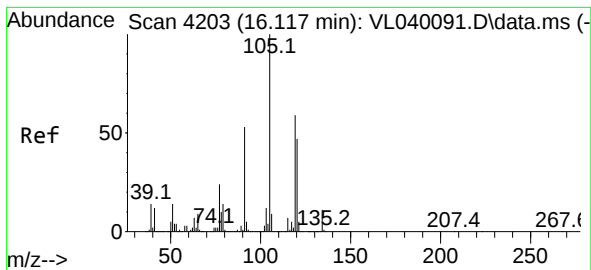
Tgt Ion:105 Resp: 11209

Ion Ratio Lower Upper

105 100

120 26.9 36.2 54.4#





#74

1,2,4-Trimethylbenzene

Concen: 0.302 ppbv

RT: 16.130 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL040112.D

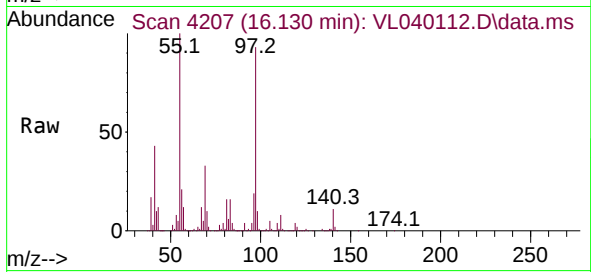
Acq: 19 Jan 2023 14:21

Instrument :

MSVOA_L

ClientSampleId :

VP-1DL



Tgt Ion:105 Resp: 82534

Ion Ratio Lower Upper

105 100

120 42.5 38.0 57.0

91 58.3 42.1 63.1

77 29.5 19.3 28.9#

