

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041023\
 Data File : VL040322.D
 Acq On : 10 Apr 2023 13:07
 Operator : SY/MD
 Sample : 02229-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Apr 11 02:06:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 15 16:14:43 2023
 Response via : Initial Calibration

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

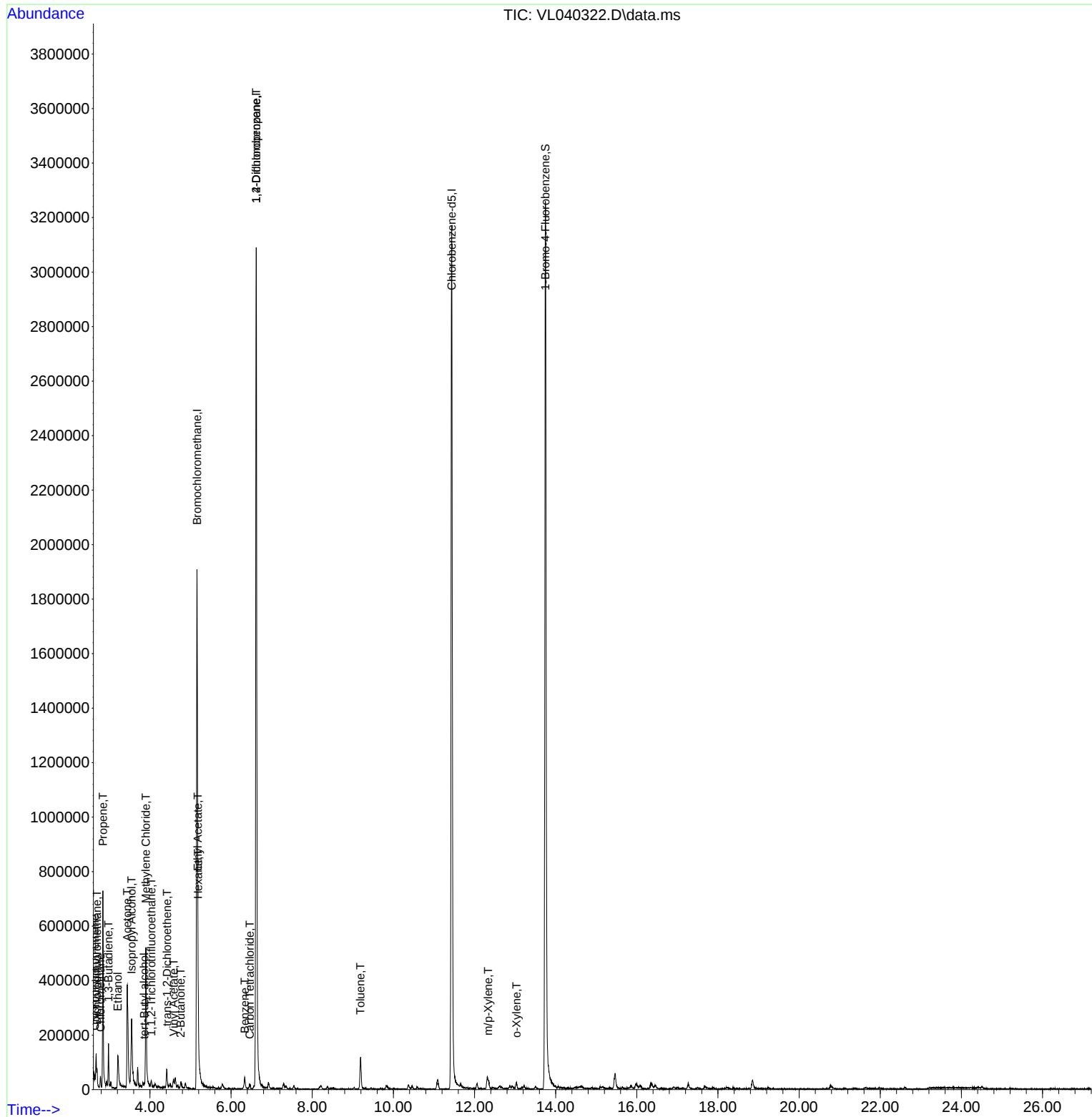
Internal Standards						
1) Bromochloromethane	5.160	49	905484	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.619	114	2219614	10.000	ppbv	-0.04
55) Chlorobenzene-d5	11.436	117	1983058	10.000	ppbv	-0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	1616127	9.732	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.697	85	37892	0.213	ppbv	99
3) Chlorodifluoromethane	2.642	51	35602	0.313	ppbv #	88
4) Chloromethane	2.784	50	33330	0.474	ppbv	96
9) Propene	2.841	41	188497	4.321	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.034	101	4792	0.040	ppbv #	34
13) Ethanol	3.208	45	142220	44.455	ppbv	97
15) Acetone	3.440	43	413552	3.751	ppbv	99
16) 1,3-Butadiene	2.977	39	15982	0.319	ppbv #	7
17) tert-Butyl alcohol	3.858	59	3644	0.035	ppbv #	72
19) Isopropyl Alcohol	3.549	45	254142	4.813	ppbv #	94
20) Methylene Chloride	3.899	84	173562	3.743	ppbv	94
22) trans-1,2-Dichloroethene	4.420	96	9411	0.178	ppbv	93
23) Vinyl Acetate	4.587	43	22578	0.736	ppbv #	87
25) Ethyl Acetate	5.182	43	61723	0.299	ppbv #	86
26) Hexane	5.185	57	36806	0.434	ppbv #	38
34) 2-Butanone	4.758	43	10387	0.095	ppbv #	13
35) Carbon Tetrachloride	6.462	117	5225	0.038	ppbv #	39
36) Benzene	6.340	78	26686	0.158	ppbv	97
39) 1,2-Dichloropropane	6.619	63	566132	8.531	ppbv #	24
53) Toluene	9.189	91	81141	0.458	ppbv	96
59) m/p-Xylene	12.336	91	6734	0.033	ppbv #	33
60) o-Xylene	13.034	91	12218	0.062	ppbv	67

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

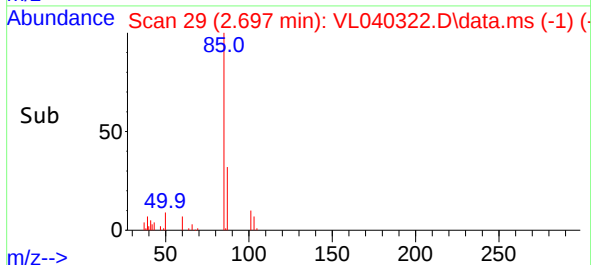
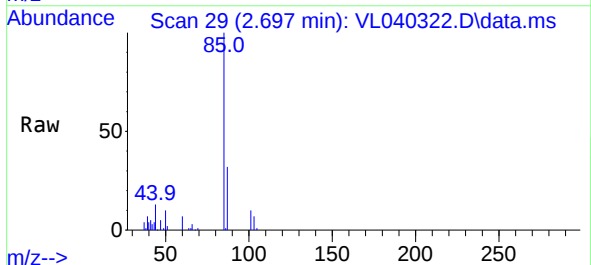
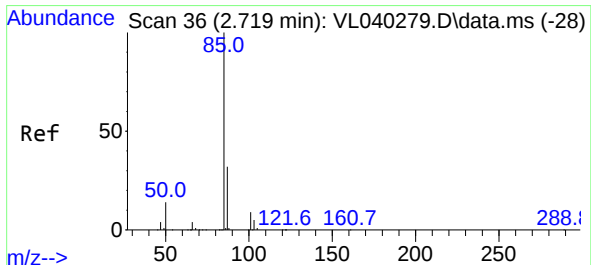
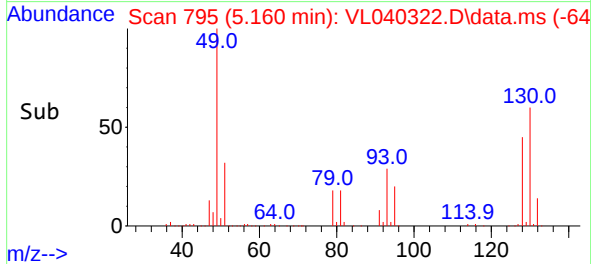
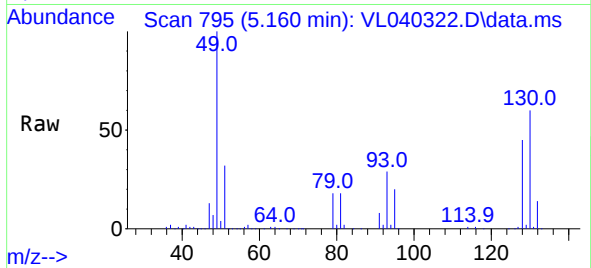
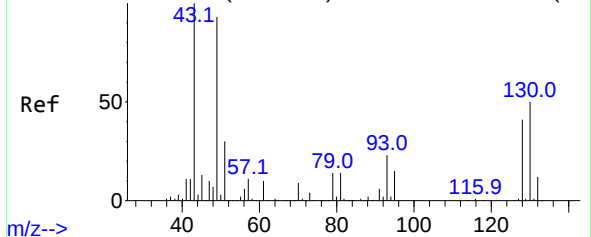
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041023\
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QLast Update : Wed Mar 15 16:14:43 2023
Response via : Initial Calibration



Abundance Scan 804 (5.189 min): VL040279.D\data.ms (-78)



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.160 min Scan# 79

Delta R.T. -0.029 min

Lab File: VL040322.D

Acq: 10 Apr 2023 13:07

Instrument :

MSVOA_L

ClientSampleId :

AA-1

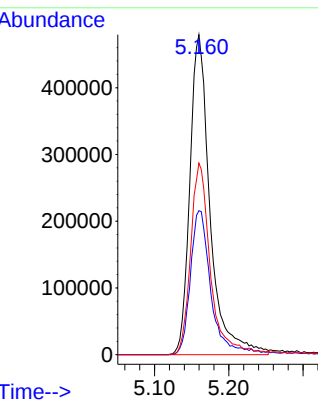
Tgt Ion: 49 Resp: 905484

Ion Ratio Lower Upper

49 100

128 47.0 22.4 67.3

130 59.4 28.7 86.1



#2

Dichlorodifluoromethane

Concen: 0.213 ppbv

RT: 2.697 min Scan# 29

Delta R.T. -0.022 min

Lab File: VL040322.D

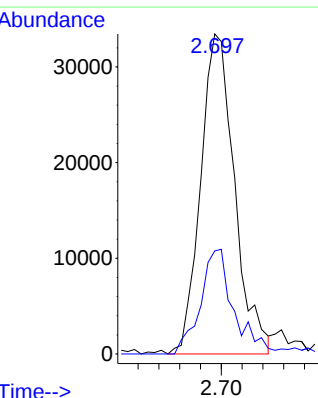
Acq: 10 Apr 2023 13:07

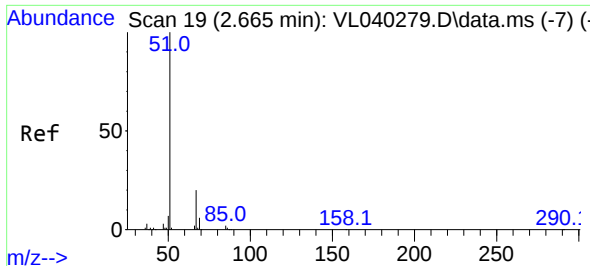
Tgt Ion: 85 Resp: 37892

Ion Ratio Lower Upper

85 100

87 32.2 25.5 38.3

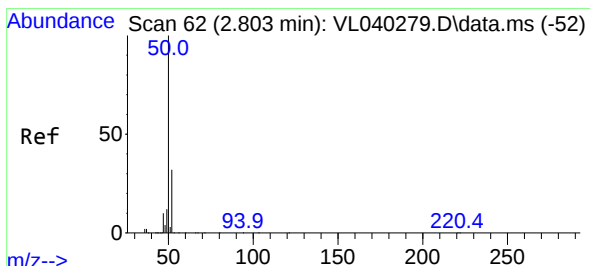
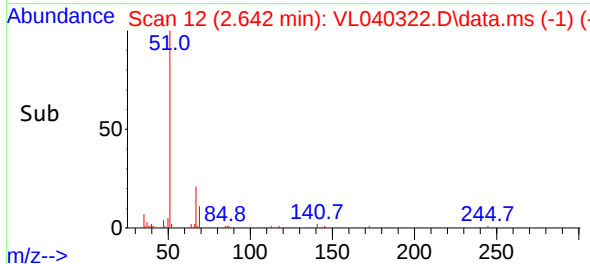
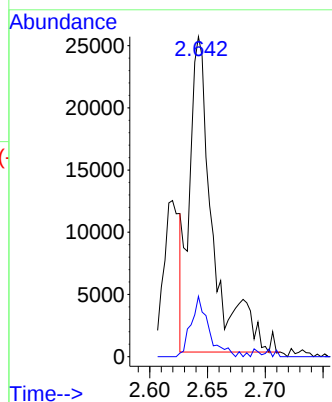
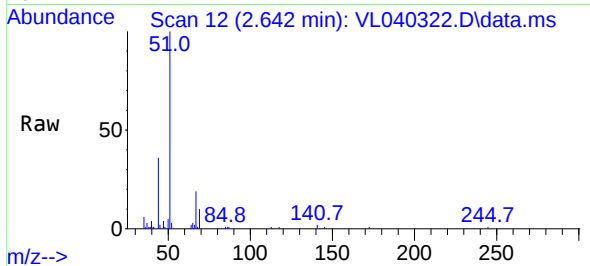




#3
Chlorodifluoromethane
Concen: 0.313 ppbv
RT: 2.642 min Scan# 11
Delta R.T. -0.023 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

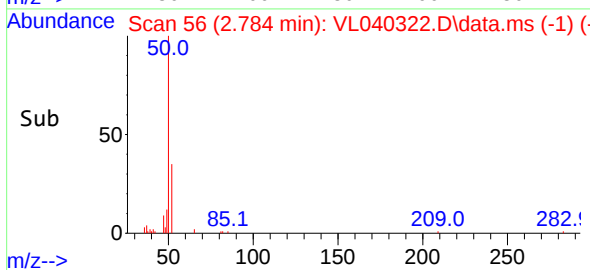
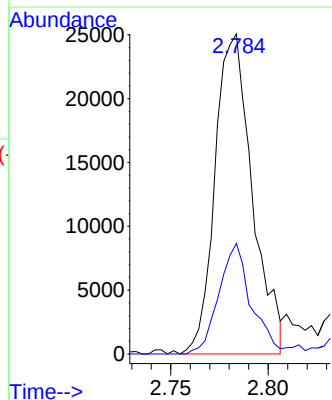
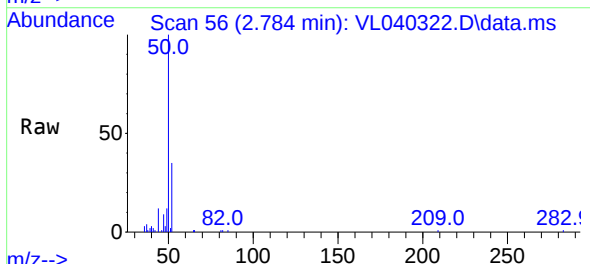
Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 51 Resp: 35602
Ion Ratio Lower Upper
51 100
67 14.4 16.0 24.0#

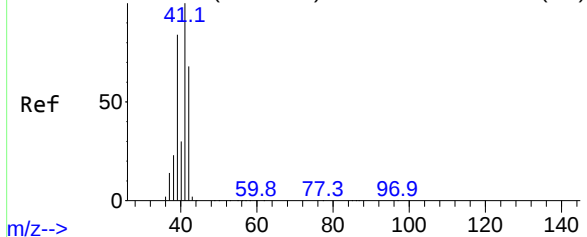


#4
Chloromethane
Concen: 0.474 ppbv
RT: 2.784 min Scan# 56
Delta R.T. -0.019 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

Tgt Ion: 50 Resp: 33330
Ion Ratio Lower Upper
50 100
52 34.6 25.9 38.9



Abundance Scan 25 (2.684 min): VL040279.D\data.ms (-15)



#9

Propene

Concen: 4.321 ppbv

RT: 2.841 min Scan# 74

Delta R.T. 0.157 min

Lab File: VL040322.D

Acq: 10 Apr 2023 13:07

Instrument :

MSVOA_L

ClientSampleId :

AA-1

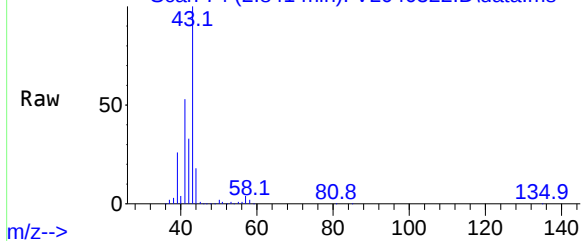
Tgt Ion: 41 Resp: 188497

Ion Ratio Lower Upper

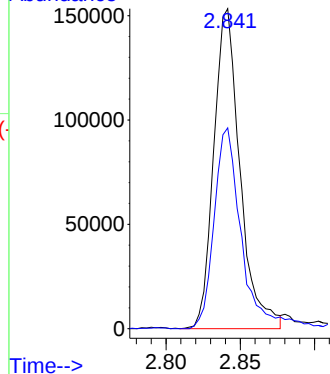
41 100

42 66.6 59.0 88.4

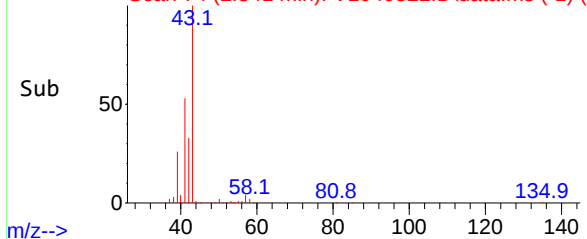
Abundance Scan 74 (2.841 min): VL040322.D\data.ms



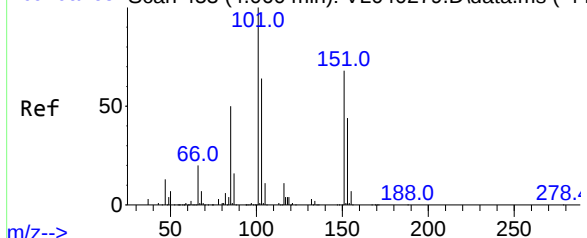
Abundance



Abundance Scan 74 (2.841 min): VL040322.D\data.ms (-1) (-)



Abundance Scan 453 (4.060 min): VL040279.D\data.ms (-44)



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.040 ppbv

RT: 4.034 min Scan# 445

Delta R.T. -0.026 min

Lab File: VL040322.D

Acq: 10 Apr 2023 13:07

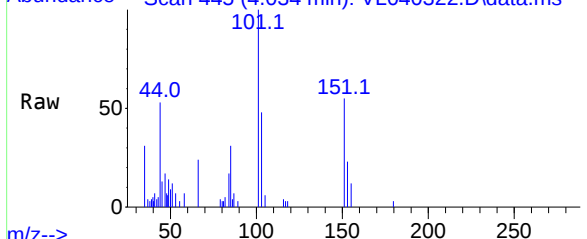
Tgt Ion: 101 Resp: 4792

Ion Ratio Lower Upper

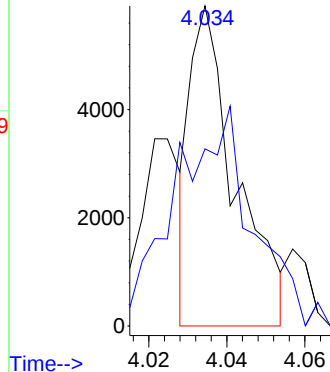
101 100

151 119.5 53.2 79.8#

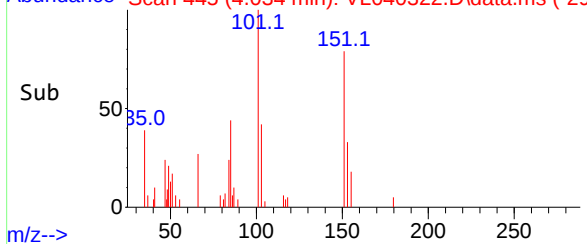
Abundance Scan 445 (4.034 min): VL040322.D\data.ms

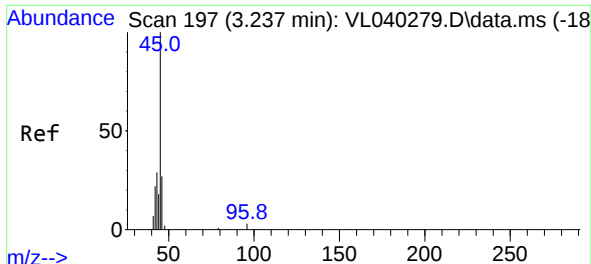


Abundance



Abundance Scan 445 (4.034 min): VL040322.D\data.ms (-29)

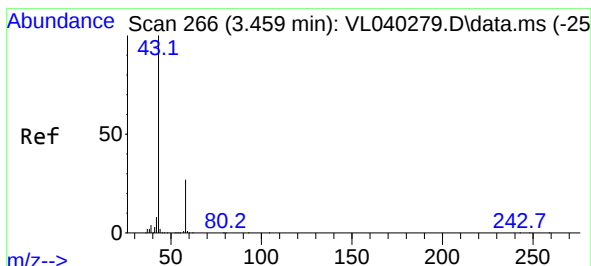
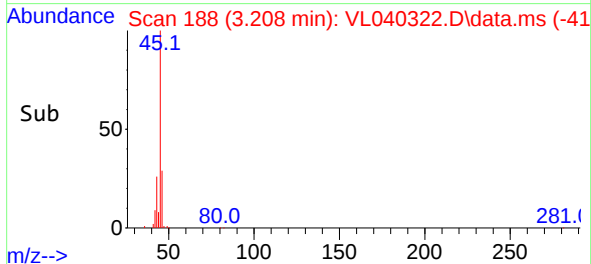
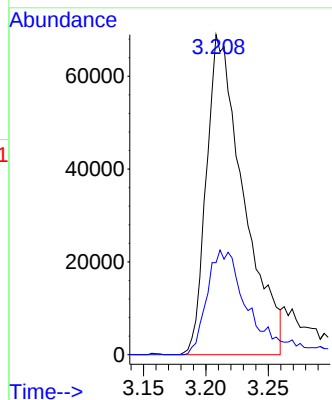
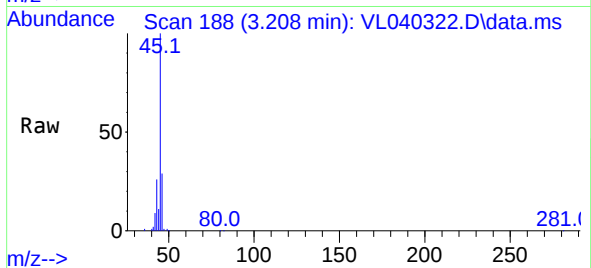




#13
Ethanol
Concen: 44.455 ppbv
RT: 3.208 min Scan# 11
Delta R.T. -0.029 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

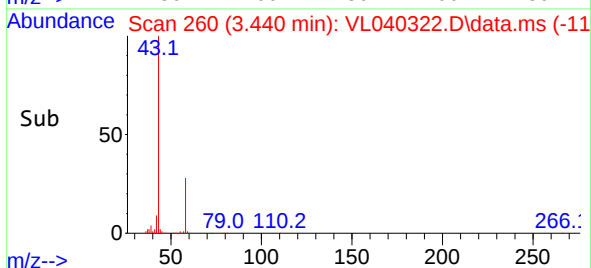
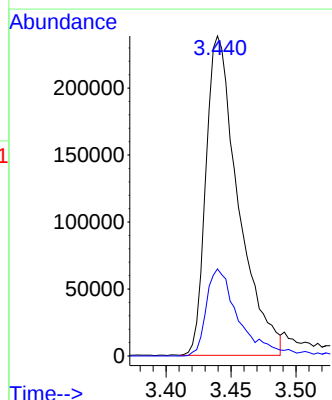
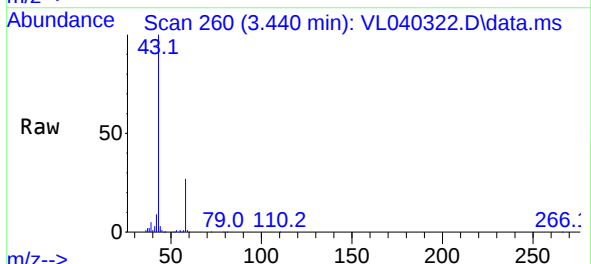
Instrument :
MSVOA_L
ClientSampleId :
AA-1

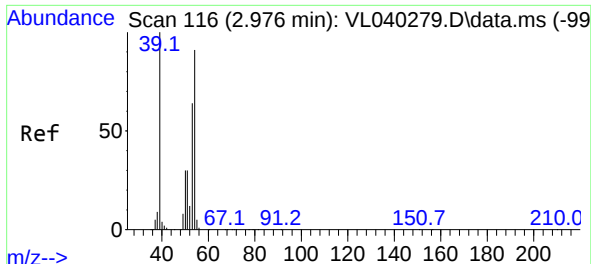
Tgt Ion: 45 Resp: 142220
Ion Ratio Lower Upper
45 100
46 39.3 15.0 60.2



#15
Acetone
Concen: 3.751 ppbv
RT: 3.440 min Scan# 260
Delta R.T. -0.019 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

Tgt Ion: 43 Resp: 413552
Ion Ratio Lower Upper
43 100
58 27.7 21.8 32.8

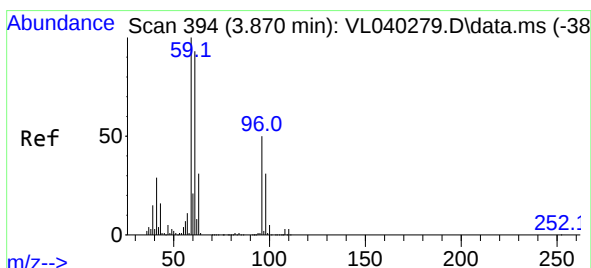
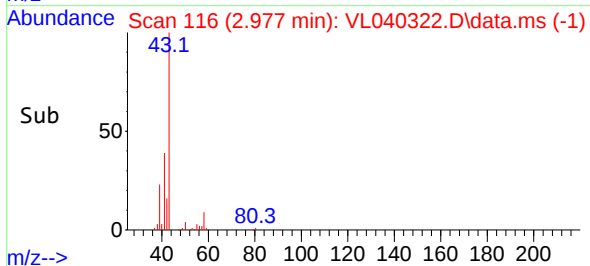
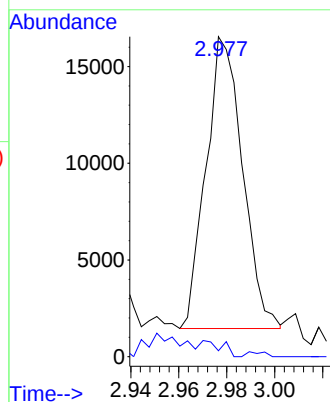
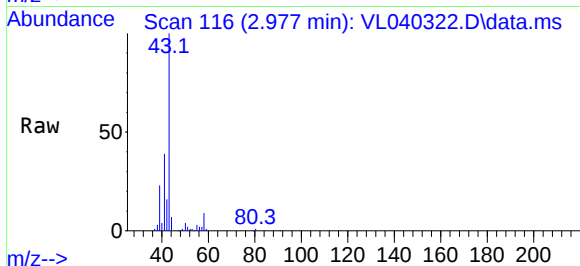




#16
1,3-Butadiene
Concen: 0.319 ppbv
RT: 2.977 min Scan# 116
Delta R.T. 0.001 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

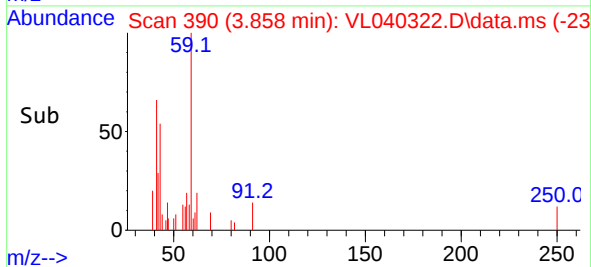
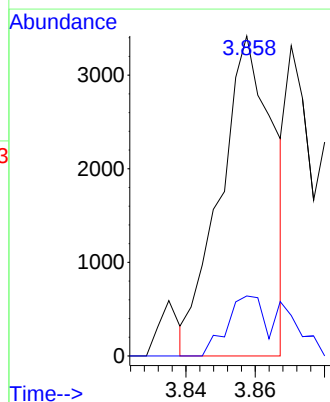
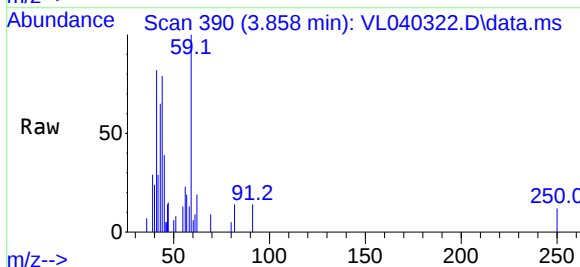
Instrument :
MSVOA_L
ClientSampleId :
AA-1

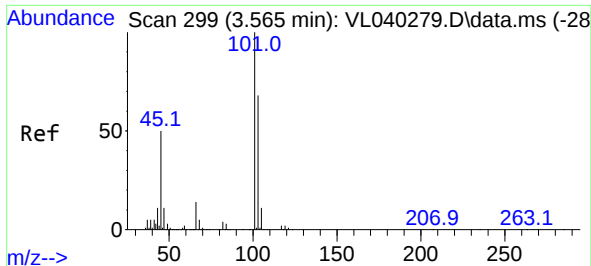
Tgt Ion: 39 Resp: 15982
Ion Ratio Lower Upper
39 100
54 0.0 68.4 102.6#



#17
tert-Butyl alcohol
Concen: 0.035 ppbv
RT: 3.858 min Scan# 390
Delta R.T. -0.012 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

Tgt Ion: 59 Resp: 3644
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

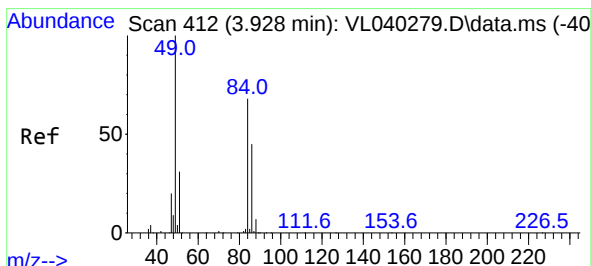
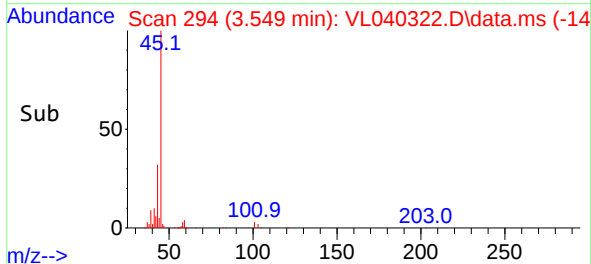
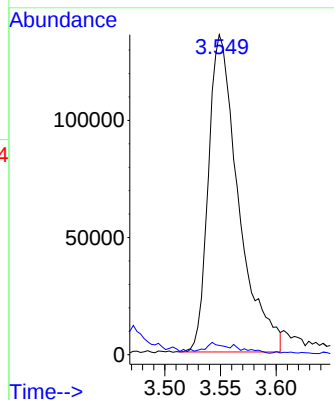
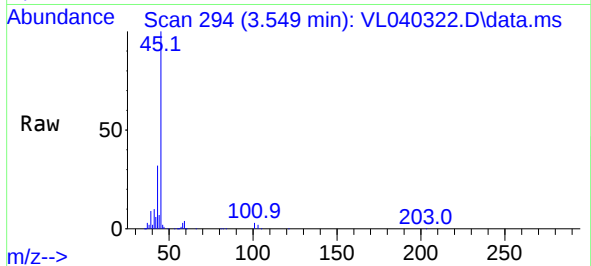




#19
Isopropyl Alcohol
Concen: 4.813 ppbv
RT: 3.549 min Scan# 294
Delta R.T. -0.016 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

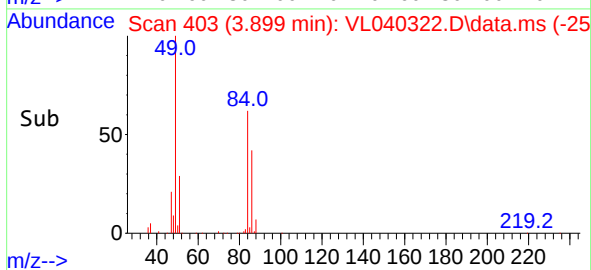
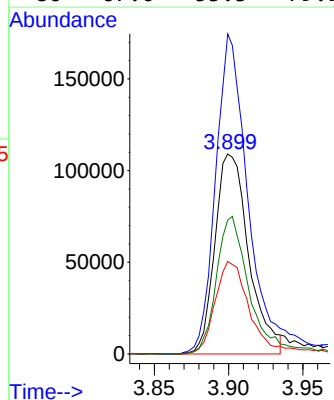
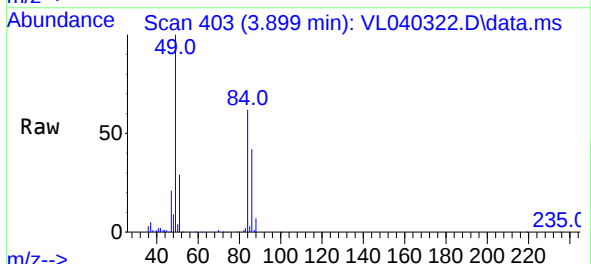
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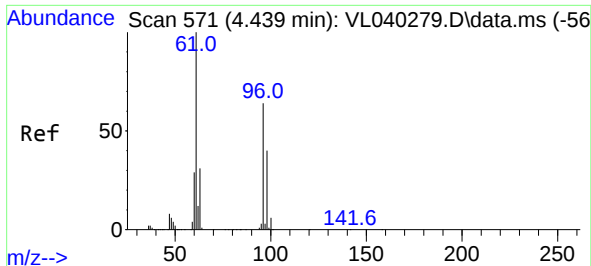
Tgt Ion: 45 Resp: 254142
Ion Ratio Lower Upper
45 100
58 5.4 2.7 4.1#



#20
Methylene Chloride
Concen: 3.743 ppbv
RT: 3.899 min Scan# 403
Delta R.T. -0.029 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

Tgt Ion: 84 Resp: 173562
Ion Ratio Lower Upper
84 100
49 159.7 117.5 176.3
51 46.2 36.9 55.3
86 67.0 53.3 79.9

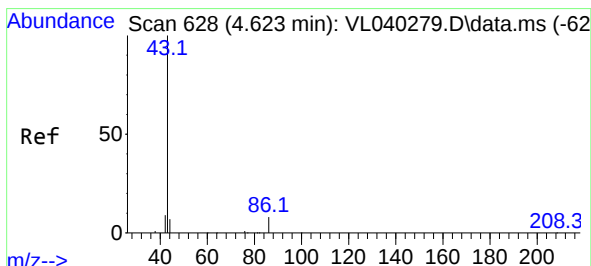
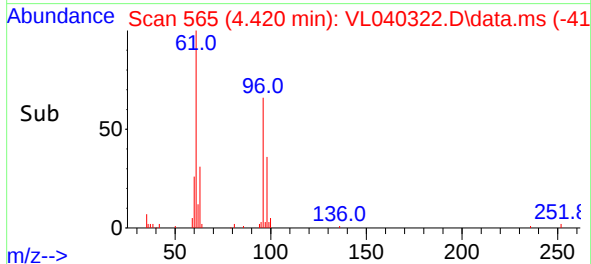
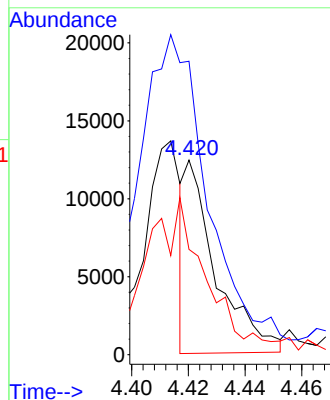
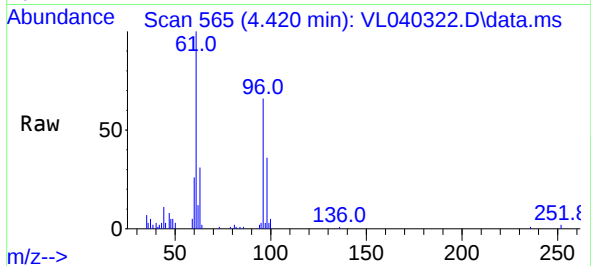




#22
trans-1,2-Dichloroethene
Concen: 0.178 ppbv
RT: 4.420 min Scan# 50
Delta R.T. -0.019 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

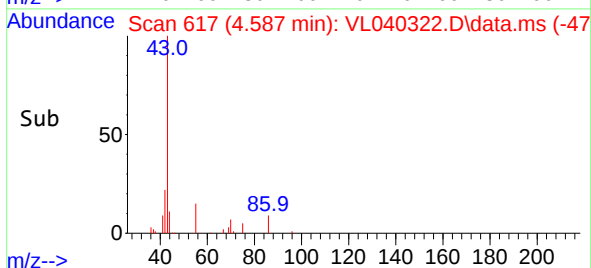
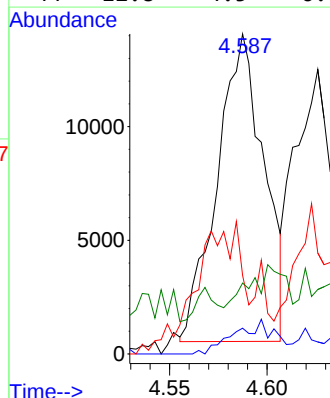
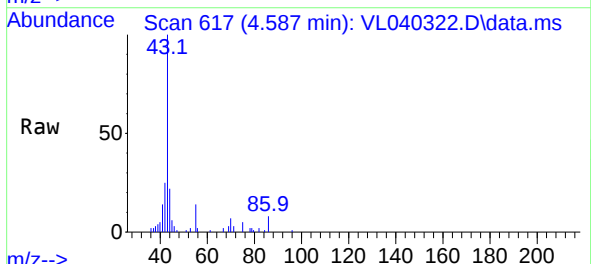
Instrument :
MSVOA_L
ClientSampleId :
AA-1

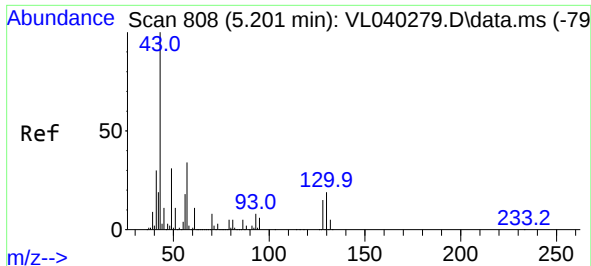
Tgt Ion: 96 Resp: 9411
Ion Ratio Lower Upper
96 100
61 152.4 125.4 188.2
98 51.1 49.8 74.6



#23
Vinyl Acetate
Concen: 0.736 ppbv
RT: 4.587 min Scan# 617
Delta R.T. -0.036 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

Tgt Ion: 43 Resp: 22578
Ion Ratio Lower Upper
43 100
86 8.5 5.0 7.4#
42 16.4 9.1 13.7#
44 12.8 4.5 6.7#





#25

Ethyl Acetate

Concen: 0.299 ppbv

RT: 5.182 min Scan# 80

Delta R.T. -0.019 min

Lab File: VL040322.D

Acq: 10 Apr 2023 13:07

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tgt Ion: 43 Resp: 61723

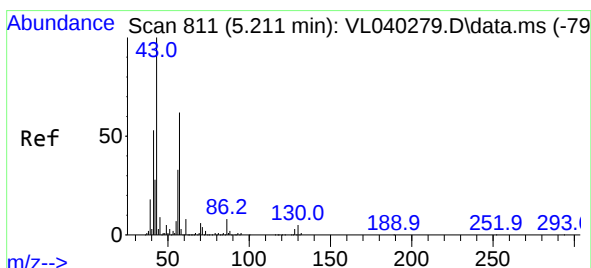
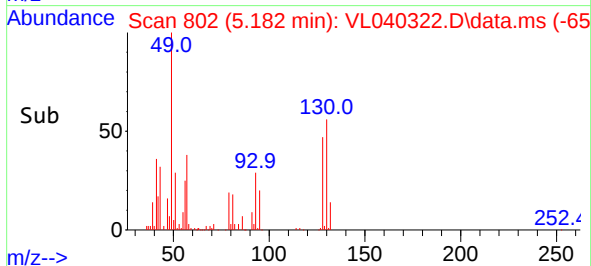
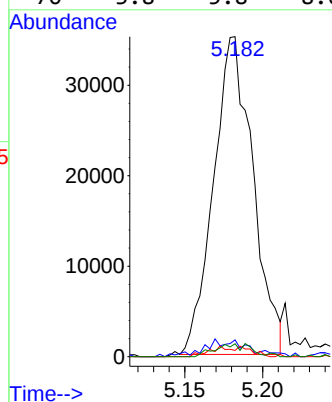
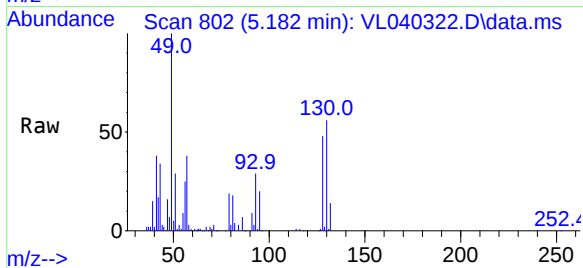
Ion Ratio Lower Upper

43 100

45 6.2 8.6 12.8#

61 3.1 8.4 12.6#

70 3.8 5.8 8.6#



#26

Hexane

Concen: 0.434 ppbv

RT: 5.185 min Scan# 803

Delta R.T. -0.026 min

Lab File: VL040322.D

Acq: 10 Apr 2023 13:07

Tgt Ion: 57 Resp: 36806

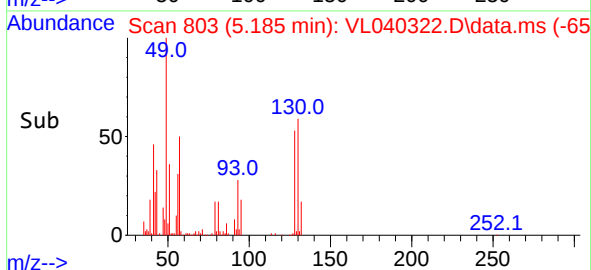
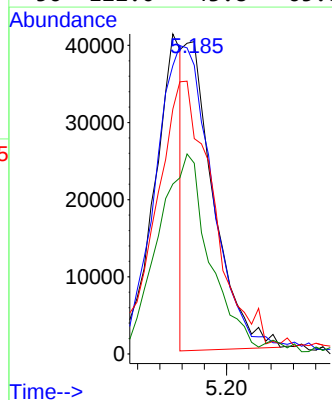
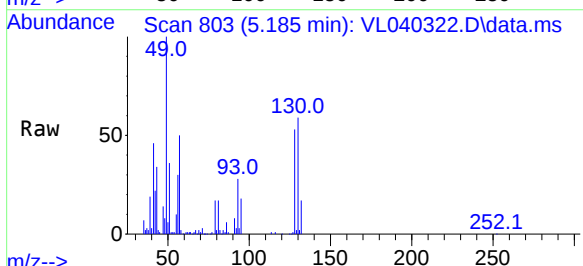
Ion Ratio Lower Upper

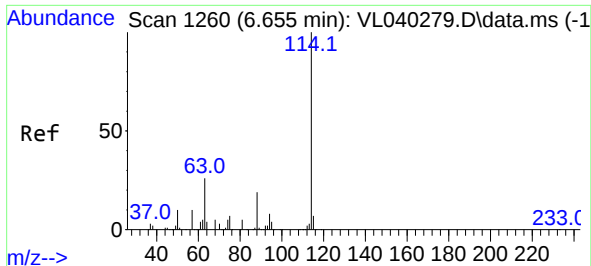
57 100

41 200.5 73.5 110.3#

43 184.2 196.3 294.5#

56 122.0 43.8 65.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.619 min Scan# 11

Delta R.T. -0.036 min

Lab File: VL040322.D

Acq: 10 Apr 2023 13:07

Instrument :

MSVOA_L

ClientSampleId :

AA-1

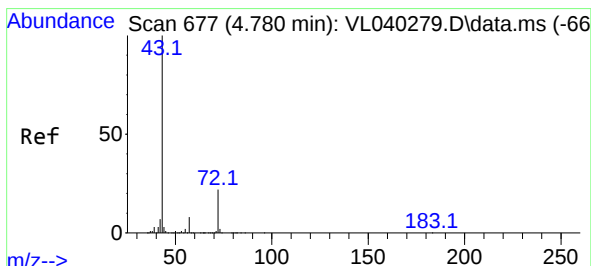
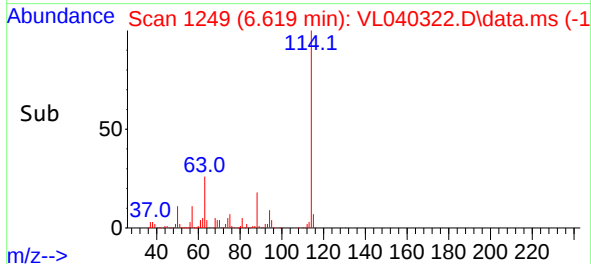
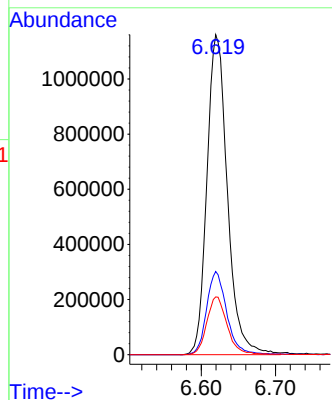
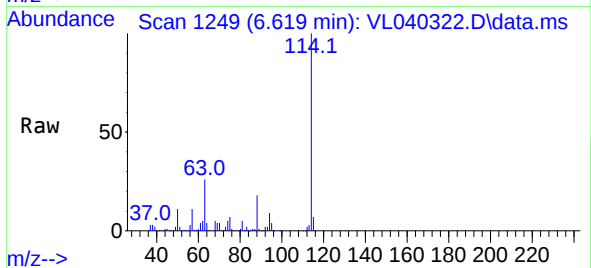
Tgt Ion:114 Resp: 2219614

Ion Ratio Lower Upper

114 100

63 25.9 21.2 31.8

88 18.3 14.5 21.7



#34

2-Butanone

Concen: 0.095 ppbv

RT: 4.758 min Scan# 670

Delta R.T. -0.022 min

Lab File: VL040322.D

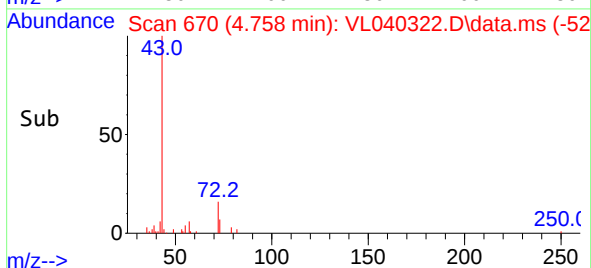
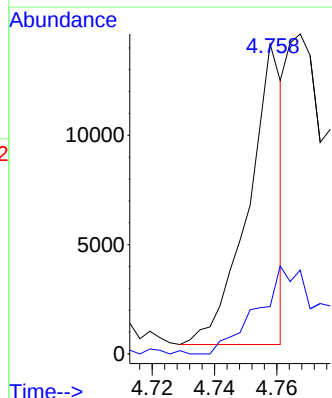
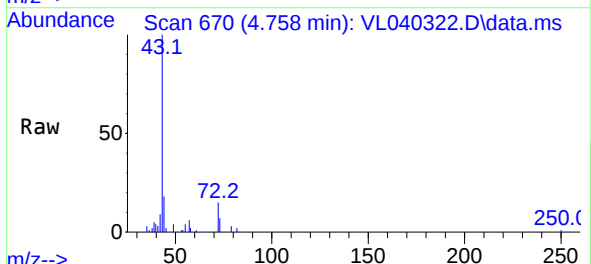
Acq: 10 Apr 2023 13:07

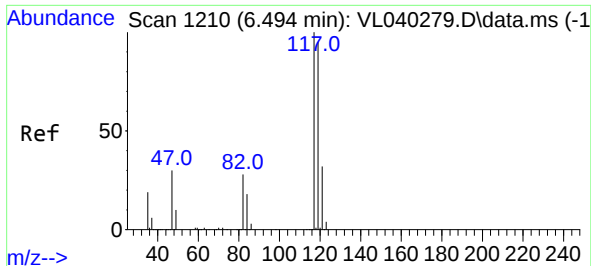
Tgt Ion: 43 Resp: 10387

Ion Ratio Lower Upper

43 100

72 64.9 18.3 27.5#

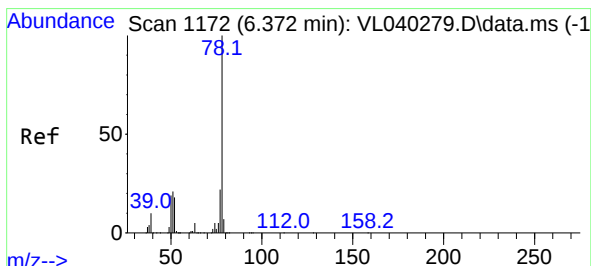
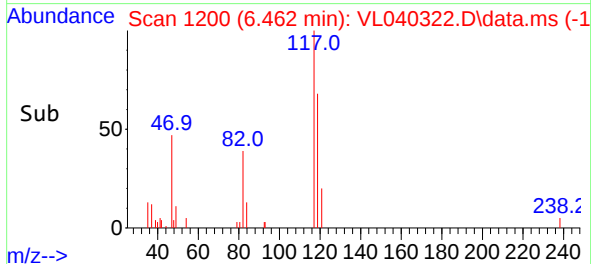
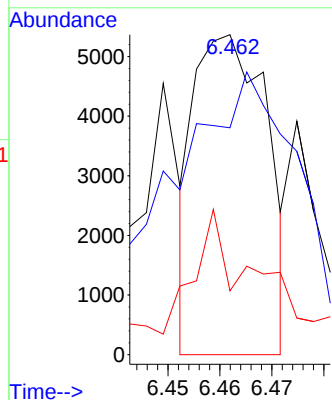
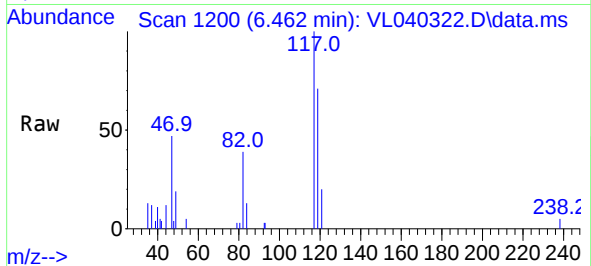




#35
Carbon Tetrachloride
Concen: 0.038 ppbv
RT: 6.462 min Scan# 1162
Delta R.T. -0.032 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

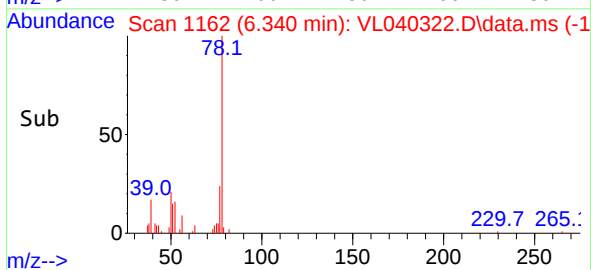
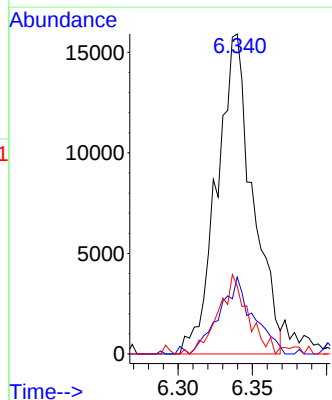
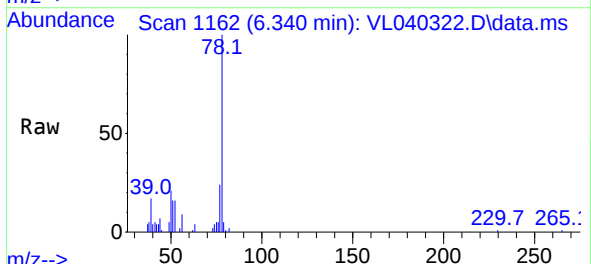
Instrument :
MSVOA_L
ClientSampleId :
AA-1

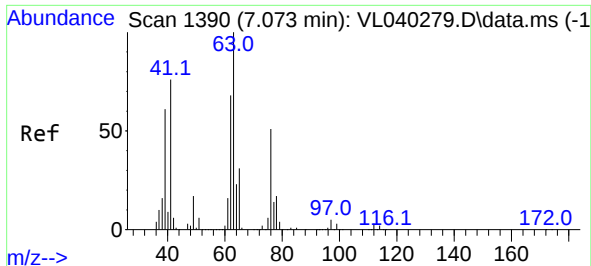
Tgt Ion:117 Resp: 5225
Ion Ratio Lower Upper
117 100
119 35.0 76.4 114.6#
121 0.0 25.6 38.4#



#36
Benzene
Concen: 0.158 ppbv
RT: 6.340 min Scan# 1162
Delta R.T. -0.032 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

Tgt Ion: 78 Resp: 26686
Ion Ratio Lower Upper
78 100
77 21.7 17.8 26.8
50 21.3 15.4 23.2





#39

1,2-Dichloropropane

Concen: 8.531 ppbv

RT: 6.619 min Scan# 11

Delta R.T. -0.454 min

Lab File: VL040322.D

Acq: 10 Apr 2023 13:07

Instrument :

MSVOA_L

ClientSampleId :

AA-1

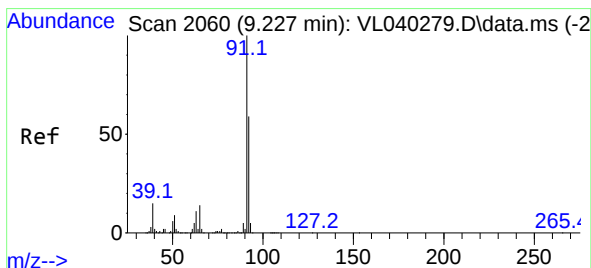
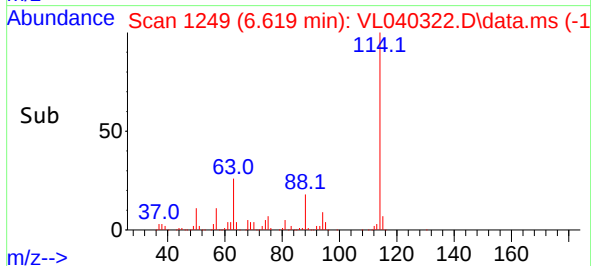
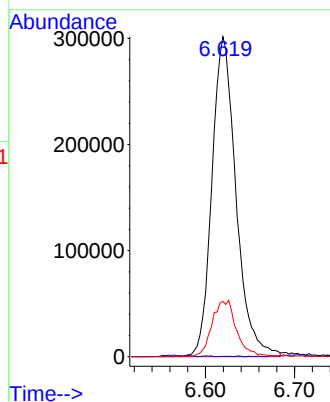
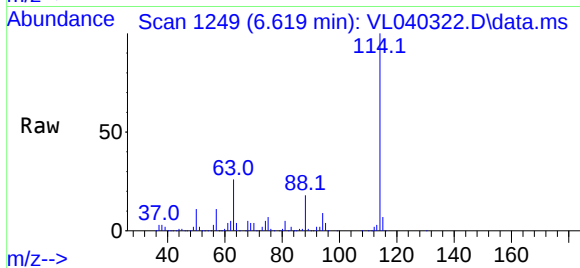
Tgt Ion: 63 Resp: 566132

Ion Ratio Lower Upper

63 100

41 0.0 60.8 91.2#

62 17.3 54.1 81.1#



#53

Toluene

Concen: 0.458 ppbv

RT: 9.189 min Scan# 2048

Delta R.T. -0.038 min

Lab File: VL040322.D

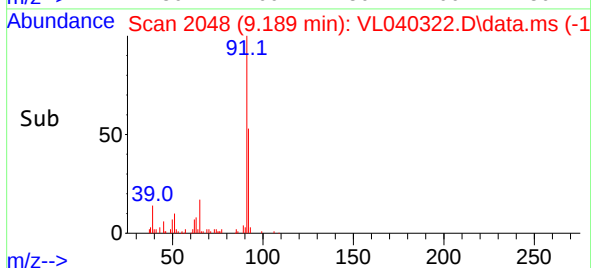
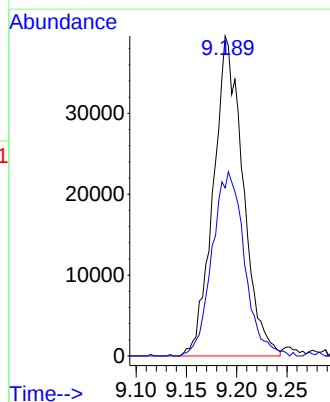
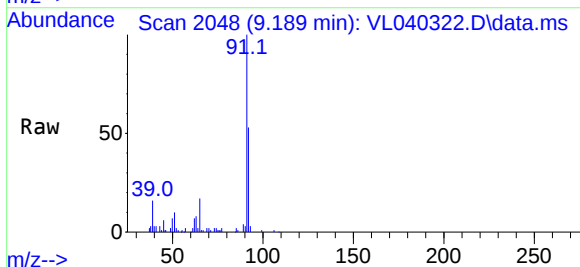
Acq: 10 Apr 2023 13:07

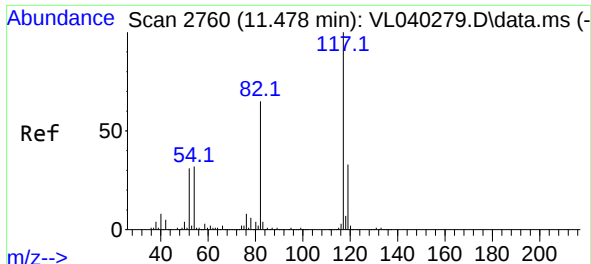
Tgt Ion: 91 Resp: 81141

Ion Ratio Lower Upper

91 100

92 62.8 48.0 72.0

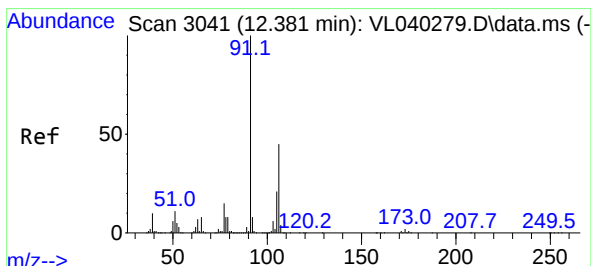
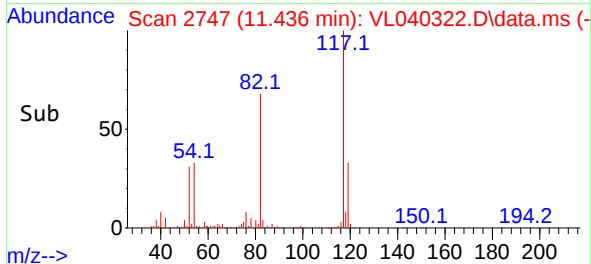
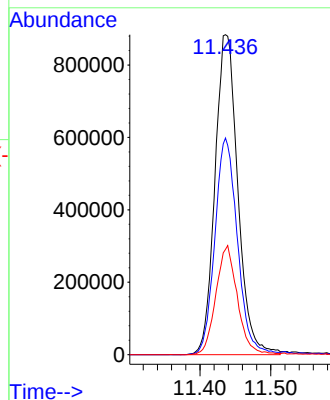
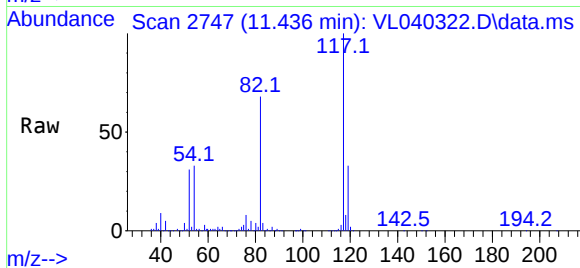




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 21
Delta R.T. -0.042 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

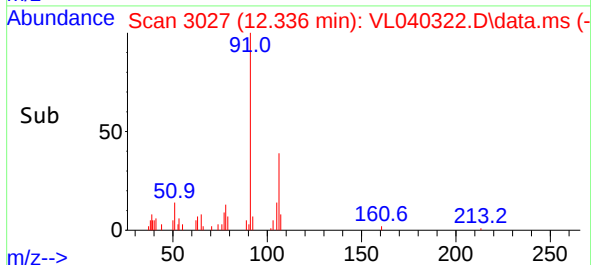
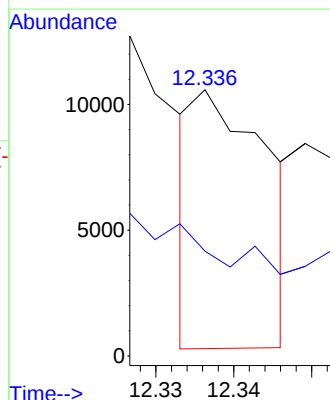
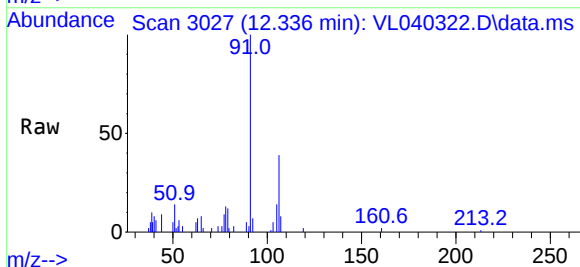
Instrument :
MSVOA_L
ClientSampleId :
AA-1

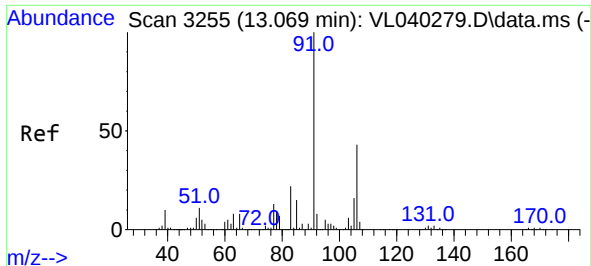
Tgt Ion:117 Resp: 1983058
Ion Ratio Lower Upper
117 100
82 67.7 51.4 77.2
119 32.6 24.0 36.0



#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 12.336 min Scan# 3027
Delta R.T. -0.045 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

Tgt Ion: 91 Resp: 6734
Ion Ratio Lower Upper
91 100
106 0.0 34.0 51.0#

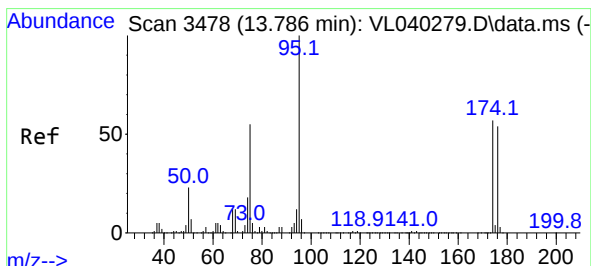
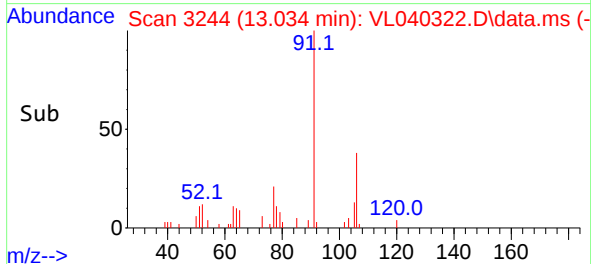
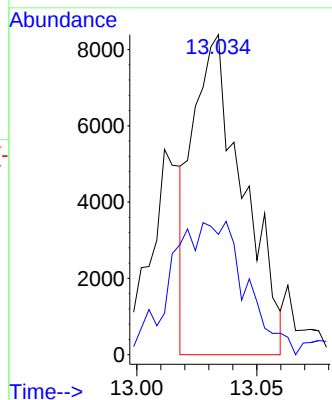
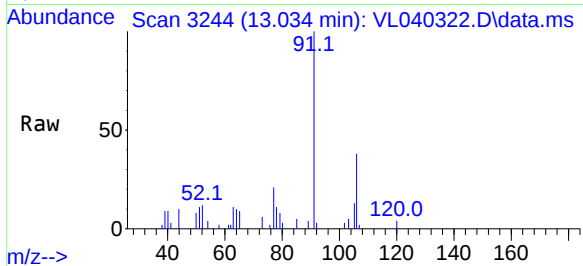




#60
o-Xylene
Concen: 0.062 ppbv
RT: 13.034 min Scan# 31
Delta R.T. -0.035 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 91 Resp: 12218
Ion Ratio Lower Upper
91 100
106 64.4 21.7 65.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.732 ppbv
RT: 13.748 min Scan# 3466
Delta R.T. -0.038 min
Lab File: VL040322.D
Acq: 10 Apr 2023 13:07

Tgt Ion: 95 Resp: 1616127
Ion Ratio Lower Upper
95 100
174 58.8 47.0 70.6
175 4.1 3.4 5.2

