

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031424\
 Data File : VX040635.D
 Acq On : 14 Mar 2024 12:01
 Operator : JC/MD
 Sample : P1727-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 240313044-02-VOA

Quant Time: Mar 15 05:42:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

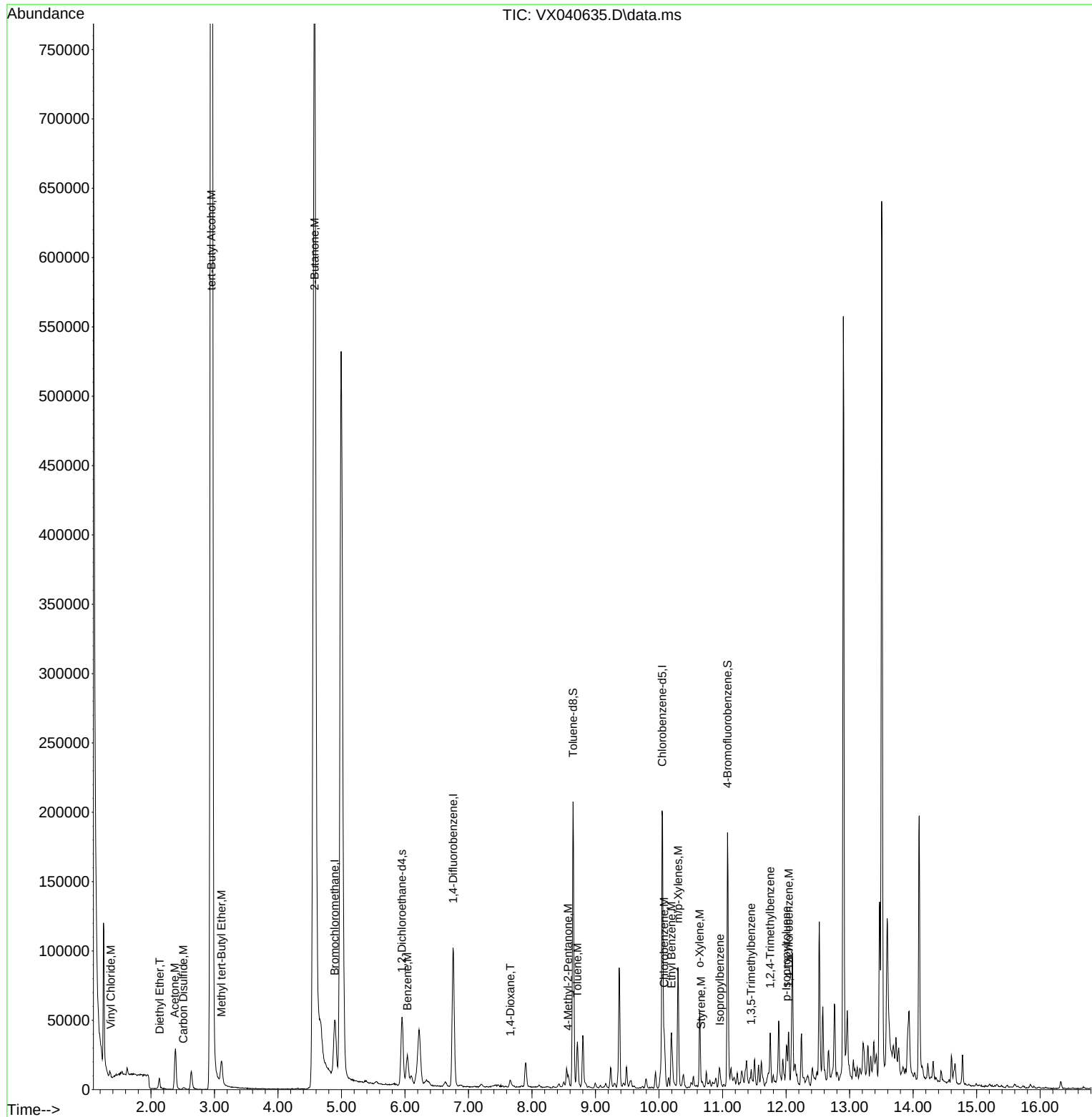
Internal Standards						
1) Bromochloromethane	4.891	128	15758	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	95081	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	81572	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	50242	31.924	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.400%			
60) 4-Bromofluorobenzene	11.079	95	45949	32.839	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 109.467%			
63) Toluene-d8	8.647	98	115587	32.064	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 106.867%			
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.368	62	566	0.478	ug/l #	77
8) Diethyl Ether	2.136	74	2584	4.224	ug/l	94
15) Acetone	2.373	58	3248	18.642	ug/l #	62
16) Carbon Disulfide	2.508	76	1073	0.415	ug/l #	93
23) tert-Butyl Alcohol	2.953	59	2248645	7808.206	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	16749	4.830	ug/l #	78
30) 2-Butanone	4.574	43	50369	50.154	ug/l #	76
34) Benzene	6.037	78	25033	5.634	ug/l	95
45) 1,4-Dioxane	7.659	88	3404	109.684	ug/l #	93
58) 4-Methyl-2-Pentanone	8.567	43	3660	2.015	ug/l #	89
62) Toluene	8.714	91	13188	2.935	ug/l	100
64) Chlorobenzene	10.079	112	9248	3.368	ug/l #	86
66) Ethyl Benzene	10.195	91	20876	4.030	ug/l	93
67) m/p-Xylenes	10.299	106	17632	9.218	ug/l	99
68) o-Xylene	10.640	106	10333	5.611	ug/l	93
69) Styrene	10.659	104	1691	0.547	ug/l #	1
70) Isopropylbenzene	10.957	105	3263	0.656	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	3892	0.888	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	15139	3.508	ug/l	100
82) p-Isopropyltoluene	12.006	119	4706	1.065	ug/l	87
84) 1,4-Dichlorobenzene	12.042	146	11033	4.707	ug/l	97

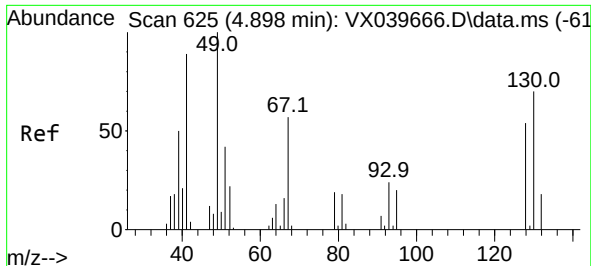
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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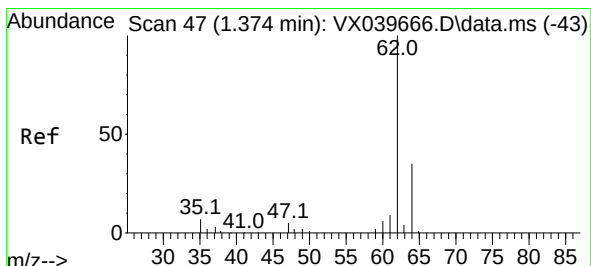
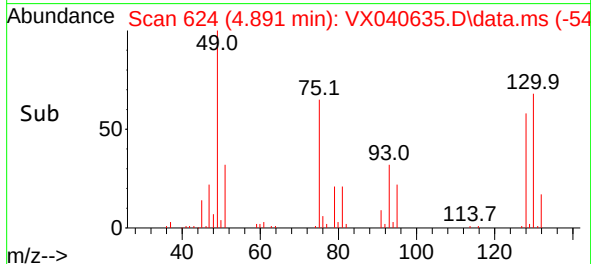
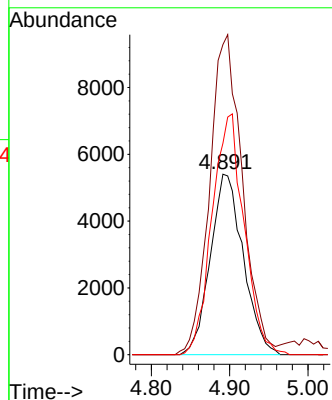
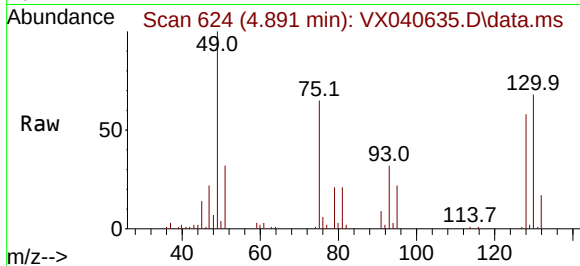




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.007 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

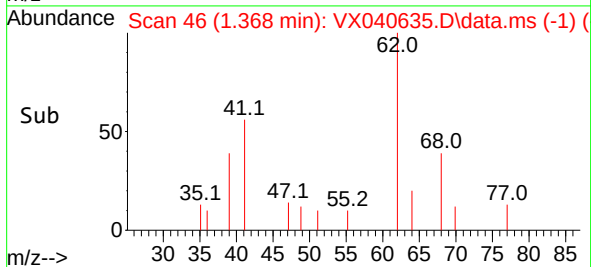
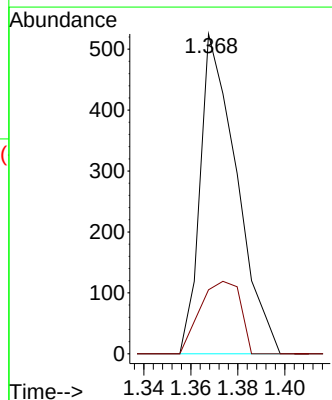
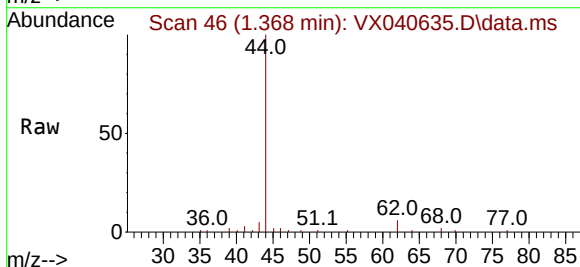
Instrument :
MSVOA_X
ClientSampleId :
240313044-02-VOA

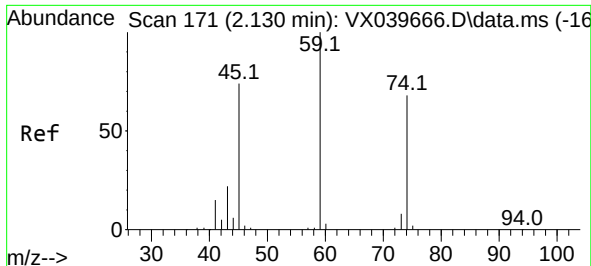
Tgt Ion:128 Resp: 15758
Ion Ratio Lower Upper
128 100
49 176.4 0.0 444.0
130 130.4 0.0 297.8



#4
Vinyl Chloride
Concen: 0.478 ug/l
RT: 1.368 min Scan# 46
Delta R.T. -0.006 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

Tgt Ion: 62 Resp: 566
Ion Ratio Lower Upper
62 100
64 20.0 26.3 39.5#

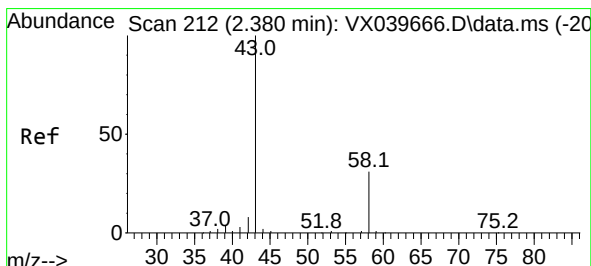
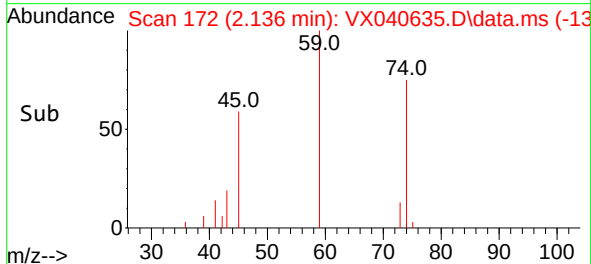
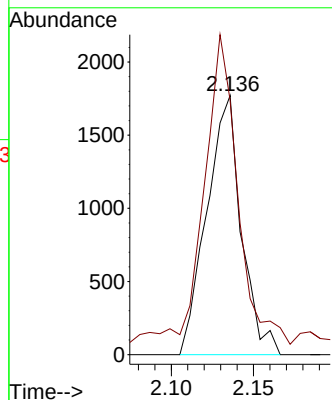
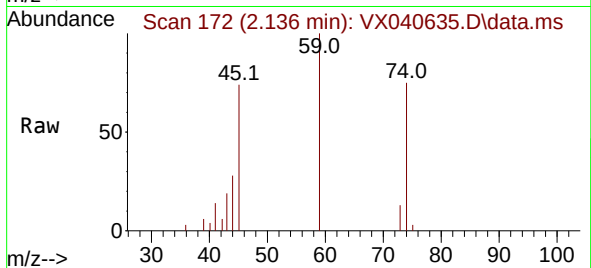




#8
Diethyl Ether
Concen: 4.224 ug/l
RT: 2.136 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

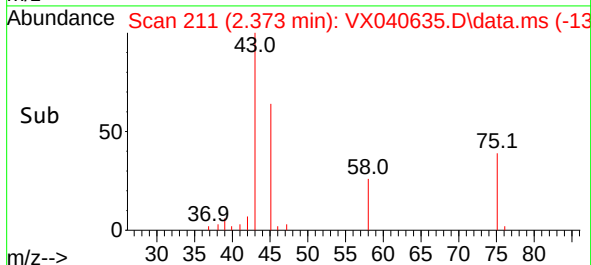
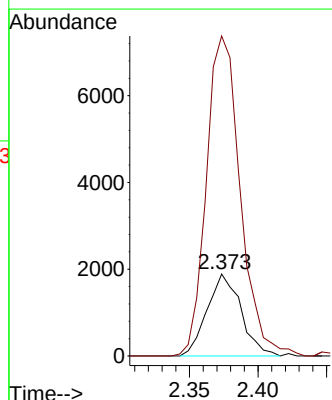
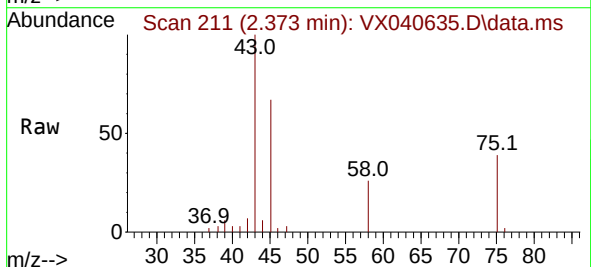
Instrument :
MSVOA_X
ClientSampleId :
240313044-02-VOA

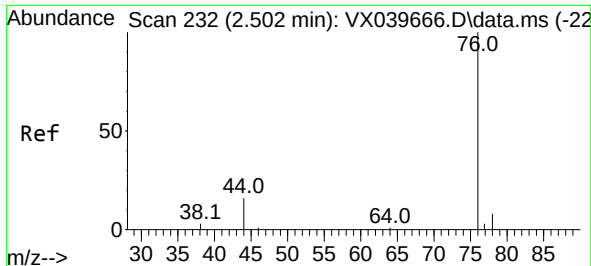
Tgt Ion: 74 Resp: 2584
Ion Ratio Lower Upper
74 100
45 108.9 20.5 184.5



#15
Acetone
Concen: 18.642 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.007 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

Tgt Ion: 58 Resp: 3248
Ion Ratio Lower Upper
58 100
43 388.1 249.9 374.9#

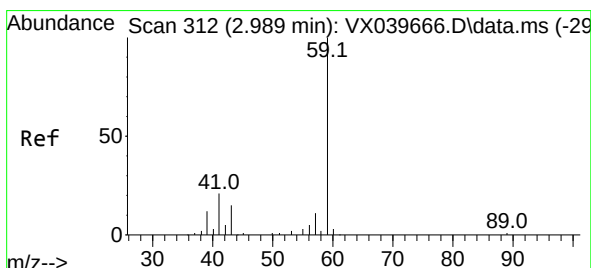
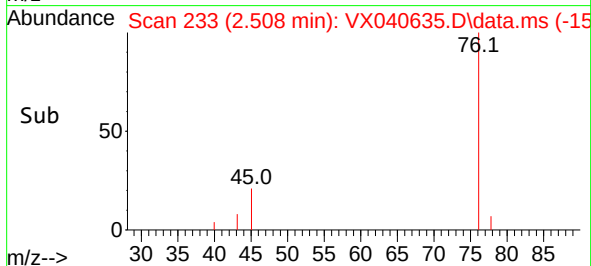
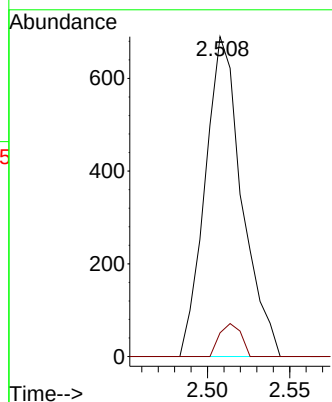
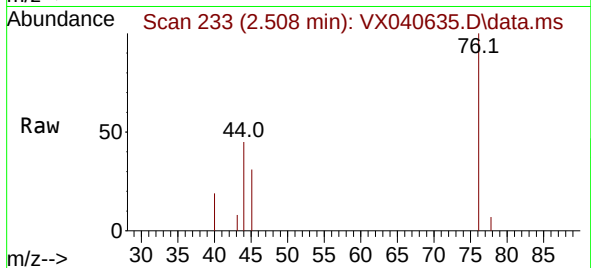




#16
Carbon Disulfide
Concen: 0.415 ug/l
RT: 2.508 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

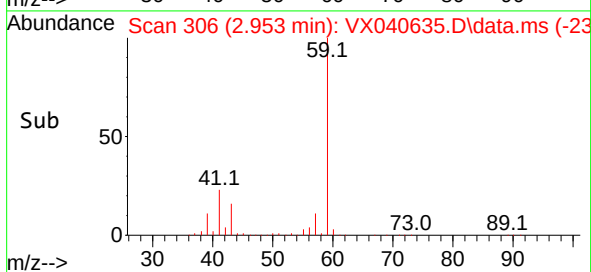
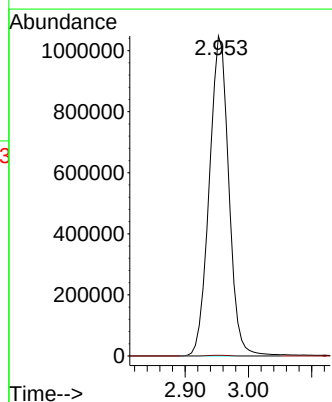
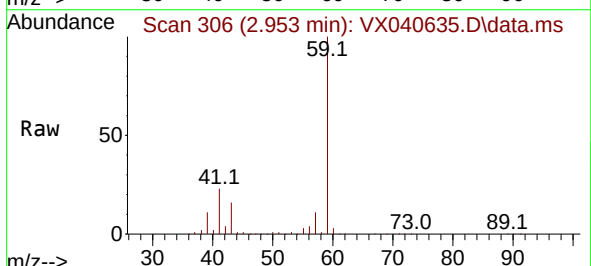
Instrument :
MSVOA_X
ClientSampleId :
240313044-02-VOA

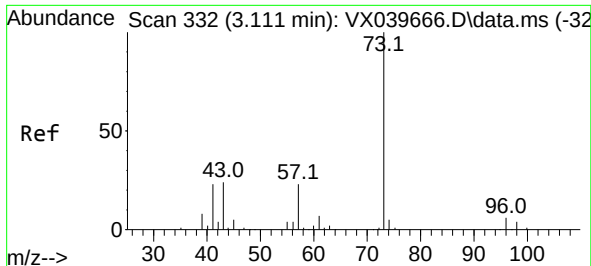
Tgt Ion: 76 Resp: 1073
Ion Ratio Lower Upper
76 100
78 7.4 8.0 12.0#



#23
tert-Butyl Alcohol
Concen: 7808.206 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.036 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

Tgt Ion: 59 Resp: 2248645
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0#

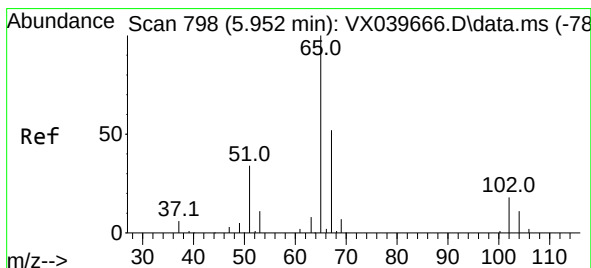
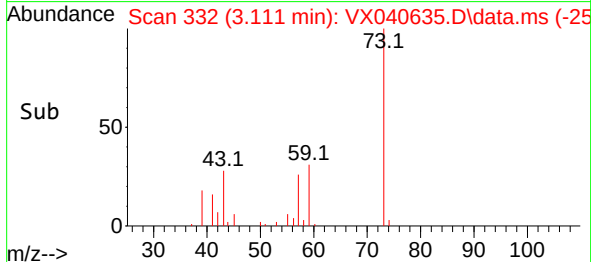
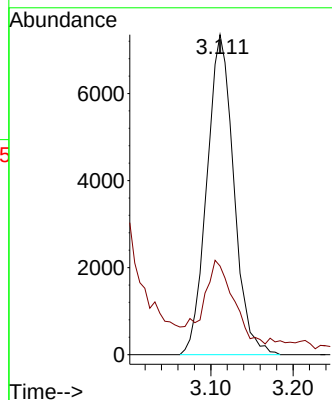
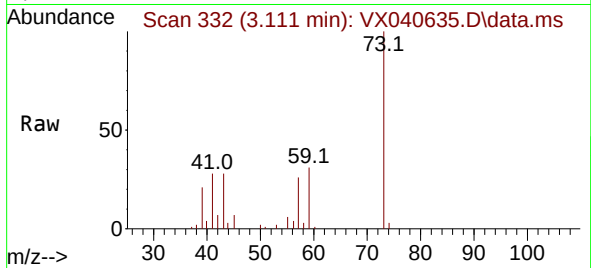




#24
Methyl tert-Butyl Ether
Concen: 4.830 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

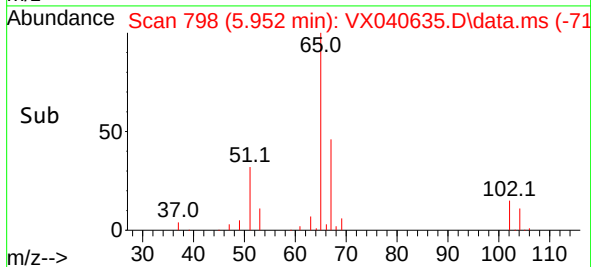
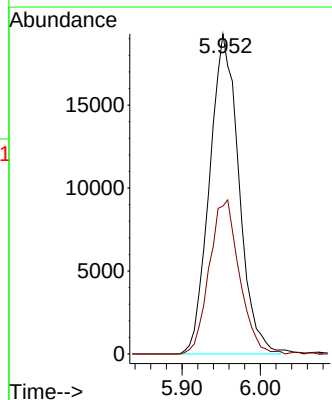
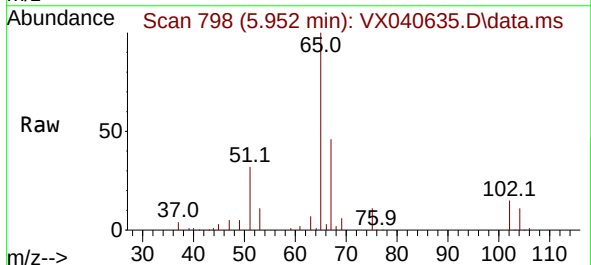
Instrument :
MSVOA_X
ClientSampleId :
240313044-02-VOA

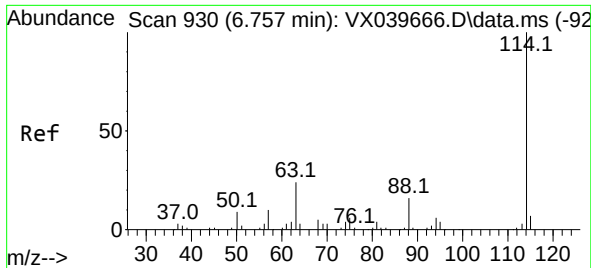
Tgt Ion: 73 Resp: 16749
Ion Ratio Lower Upper
73 100
43 31.5 17.0 25.6#



#27
1,2-Dichloroethane-d4
Concen: 31.924 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

Tgt Ion: 65 Resp: 50242
Ion Ratio Lower Upper
65 100
67 48.9 42.5 63.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX040635.D

Acq: 14 Mar 2024 12:01

Instrument :

MSVOA_X

ClientSampleId :

240313044-02-VOA

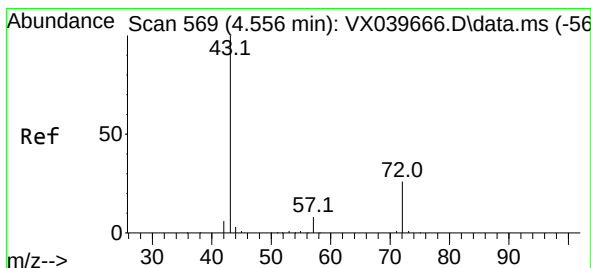
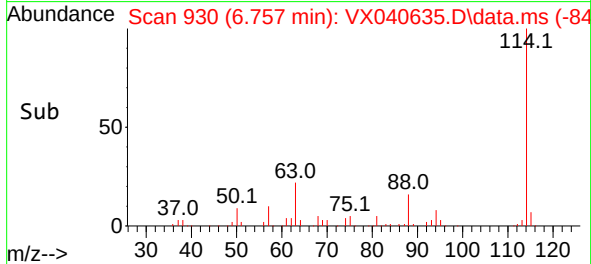
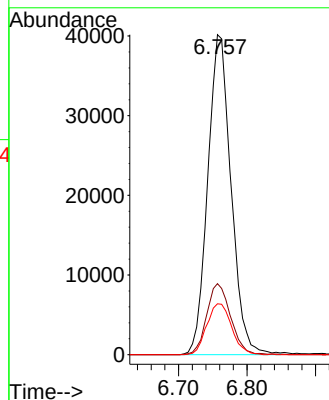
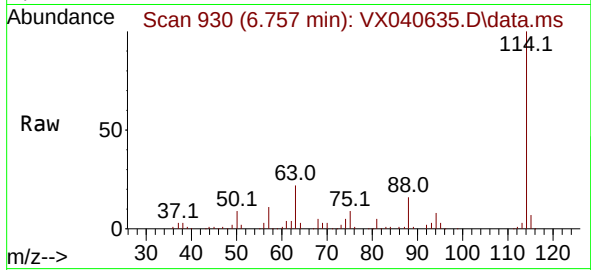
Tgt Ion:114 Resp: 95081

Ion Ratio Lower Upper

114 100

63 22.5 17.0 25.4

88 16.9 12.7 19.1



#30

2-Butanone

Concen: 50.154 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.018 min

Lab File: VX040635.D

Acq: 14 Mar 2024 12:01

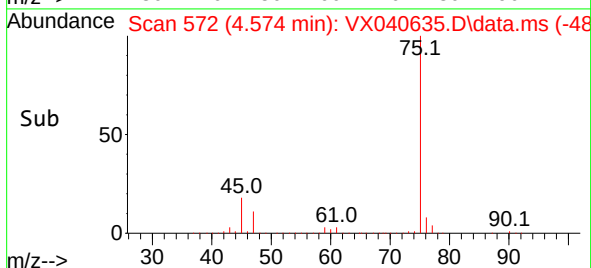
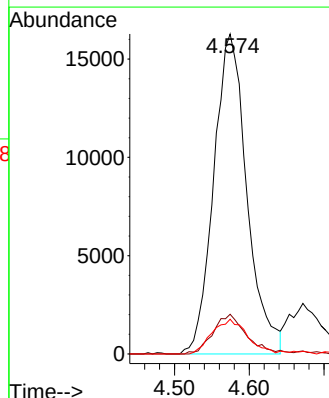
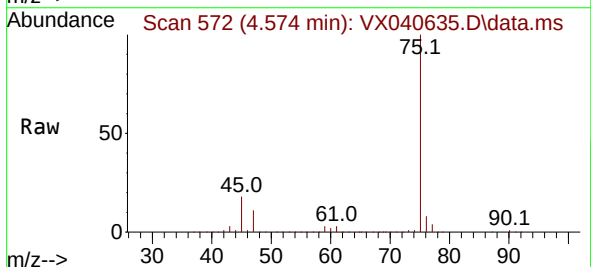
Tgt Ion: 43 Resp: 50369

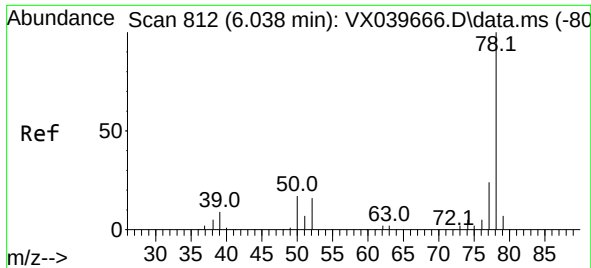
Ion Ratio Lower Upper

43 100

57 12.1 6.6 10.0#

72 11.4 20.6 31.0#

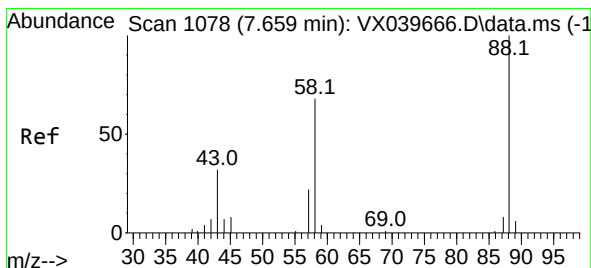
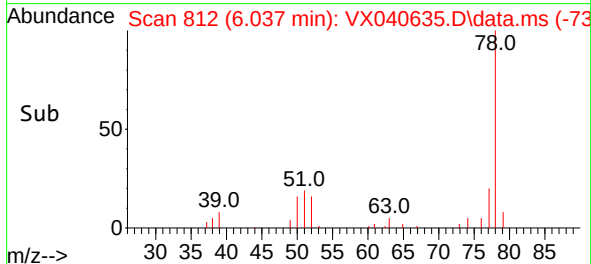
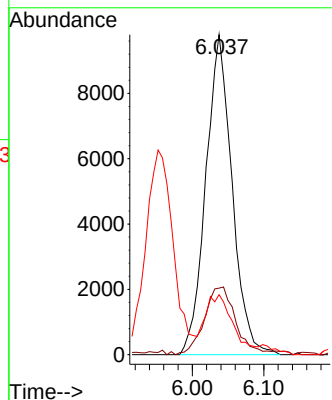
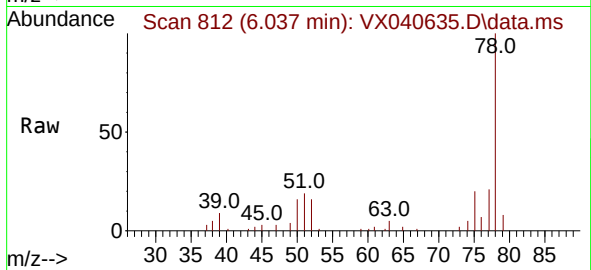




#34
Benzene
Concen: 5.634 ug/l
RT: 6.037 min Scan# 812
Delta R.T. -0.001 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

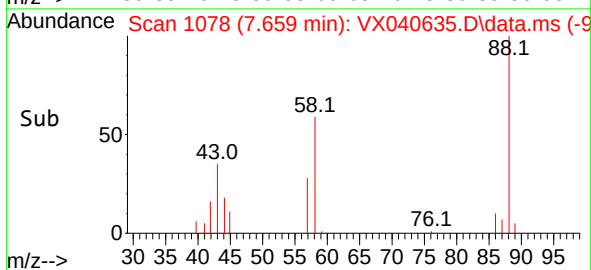
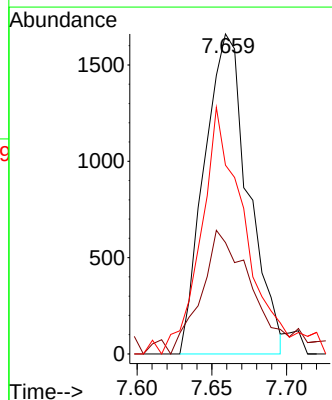
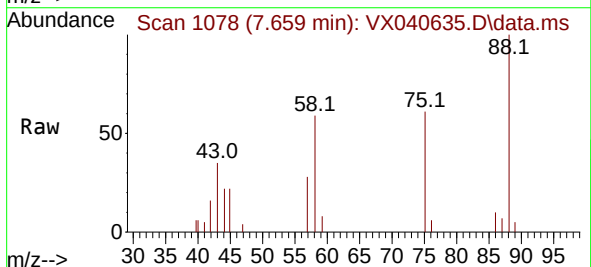
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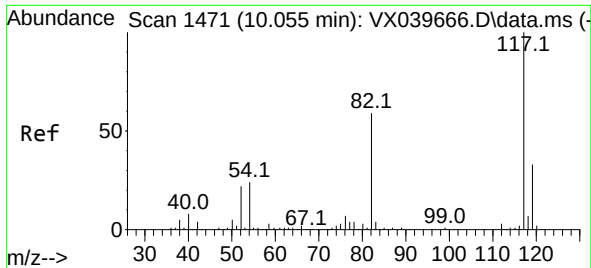
Tgt Ion: 78 Resp: 25033
Ion Ratio Lower Upper
78 100
77 20.1 19.3 28.9
51 17.7 14.4 21.6



#45
1,4-Dioxane
Concen: 109.684 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.000 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

Tgt Ion: 88 Resp: 3404
Ion Ratio Lower Upper
88 100
43 43.6 28.1 42.1#
58 74.8 57.7 86.5





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.006 min

Lab File: VX040635.D

Acq: 14 Mar 2024 12:01

Instrument :

MSVOA_X

ClientSampleId :

240313044-02-VOA

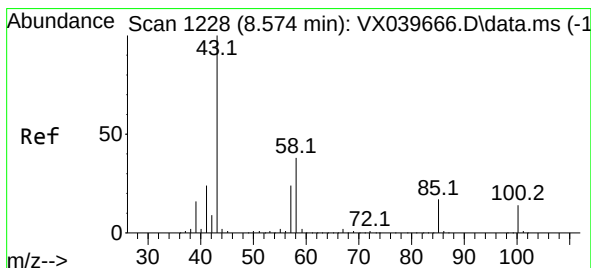
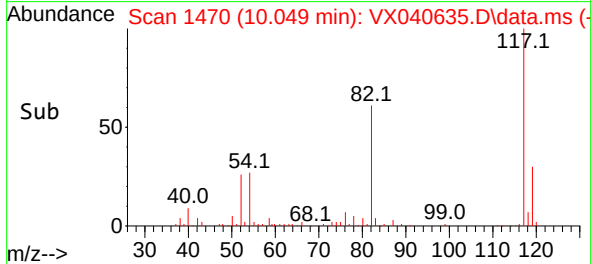
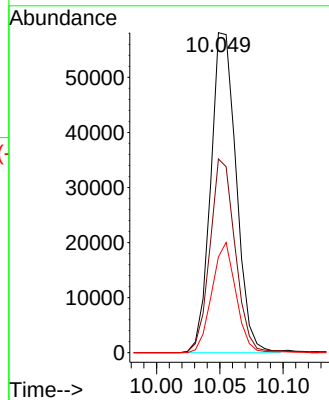
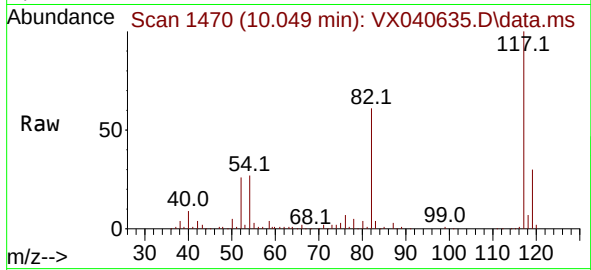
Tgt Ion:117 Resp: 81572

Ion Ratio Lower Upper

117 100

82 60.2 47.0 70.6

119 32.6 25.2 37.8



#58

4-Methyl-2-Pentanone

Concen: 2.015 ug/l

RT: 8.567 min Scan# 1227

Delta R.T. -0.007 min

Lab File: VX040635.D

Acq: 14 Mar 2024 12:01

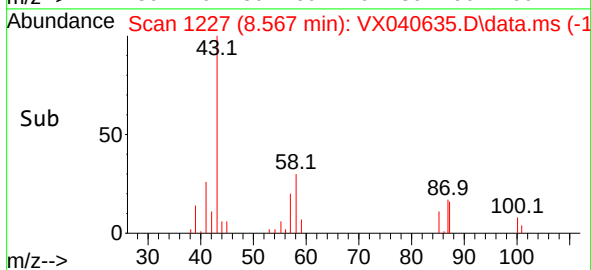
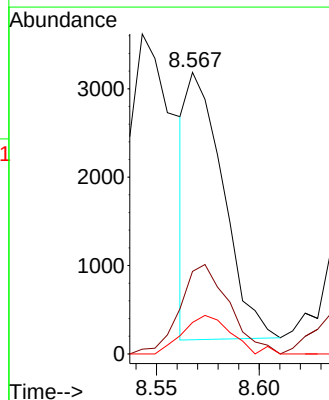
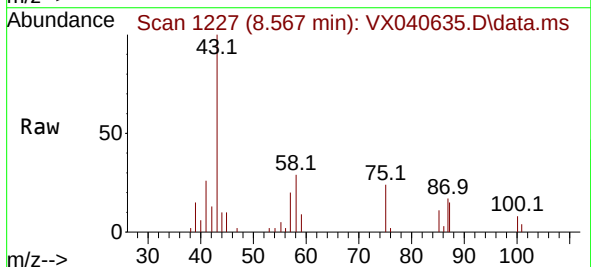
Tgt Ion: 43 Resp: 3660

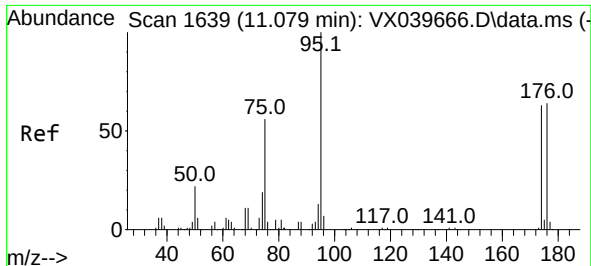
Ion Ratio Lower Upper

43 100

58 46.1 30.1 45.1#

85 18.7 13.9 20.9

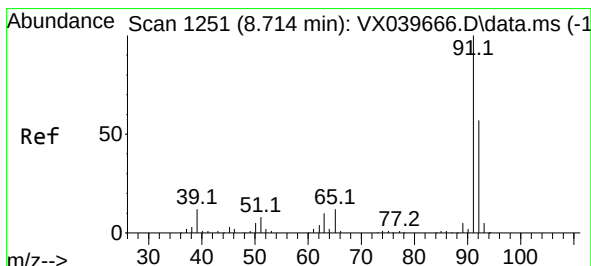
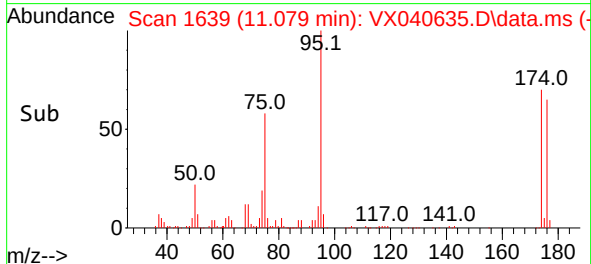
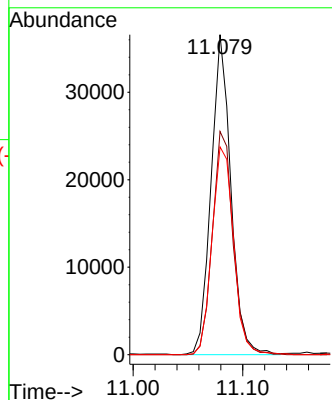
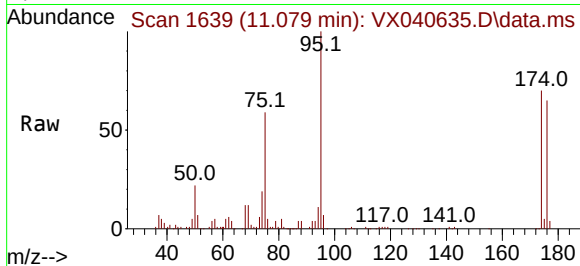




#60
4-Bromofluorobenzene
Concen: 32.839 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

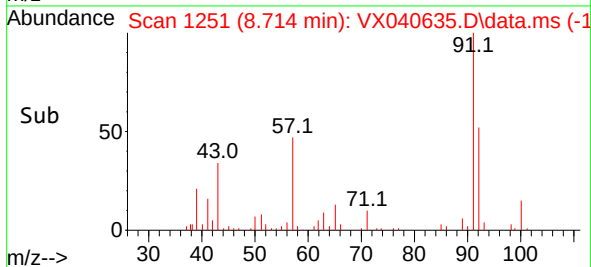
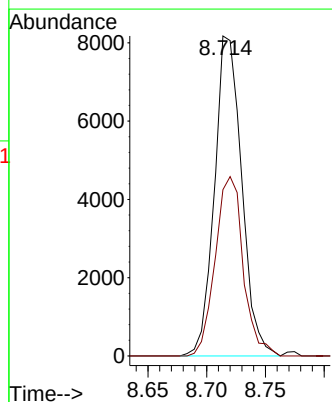
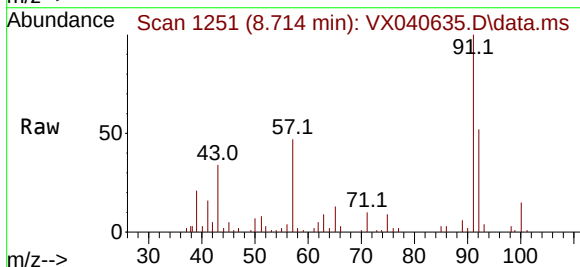
Instrument :
MSVOA_X
ClientSampleId :
240313044-02-VOA

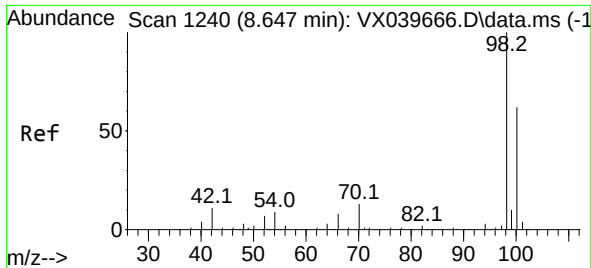
Tgt Ion: 95 Resp: 45949
Ion Ratio Lower Upper
95 100
174 72.8 55.4 83.2
176 70.8 52.6 78.8



#62
Toluene
Concen: 2.935 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

Tgt Ion: 91 Resp: 13188
Ion Ratio Lower Upper
91 100
92 57.6 45.9 68.9

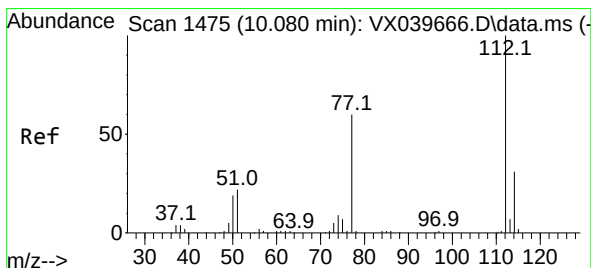
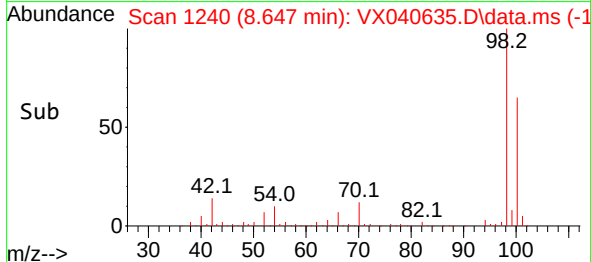
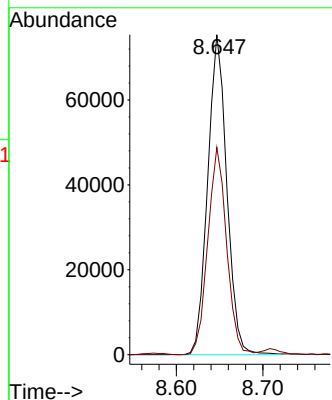
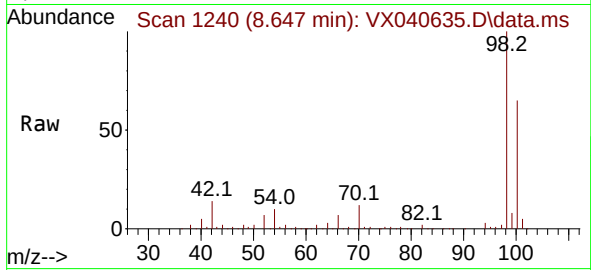




#63
Toluene-d8
Concen: 32.064 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

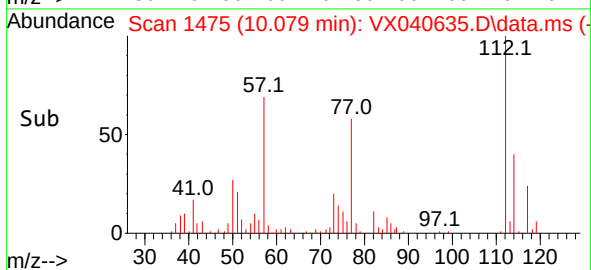
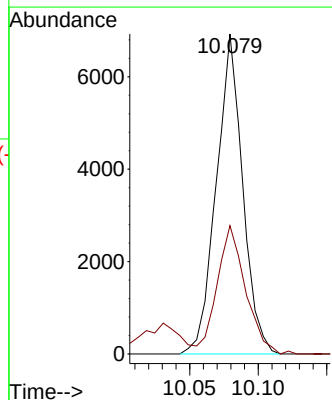
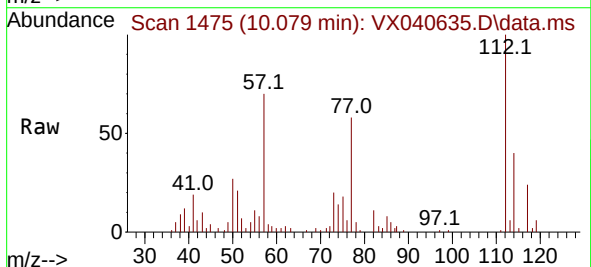
Instrument :
MSVOA_X
ClientSampleId :
240313044-02-VOA

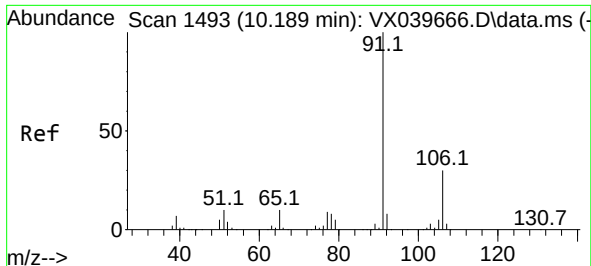
Tgt Ion: 98 Resp: 115587
Ion Ratio Lower Upper
98 100
100 63.7 51.0 76.4



#64
Chlorobenzene
Concen: 3.368 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.001 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

Tgt Ion: 112 Resp: 9248
Ion Ratio Lower Upper
112 100
114 40.1 25.9 38.9#

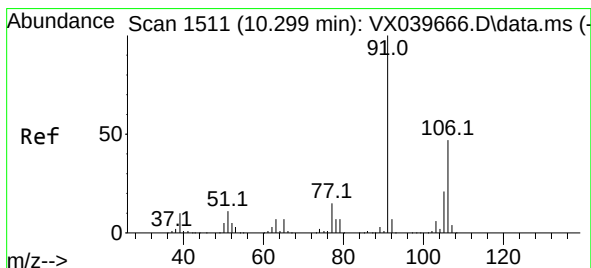
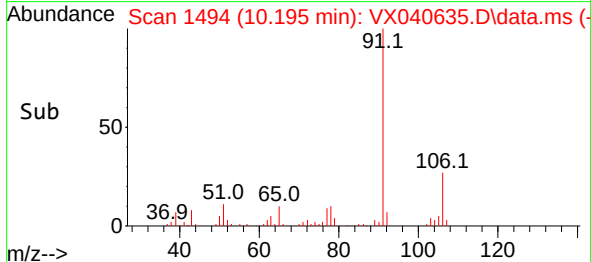
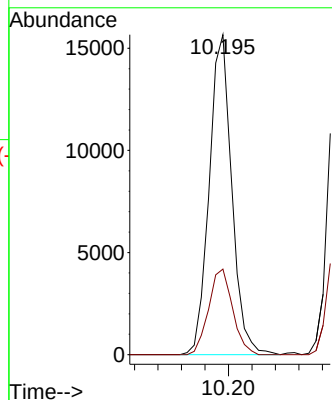
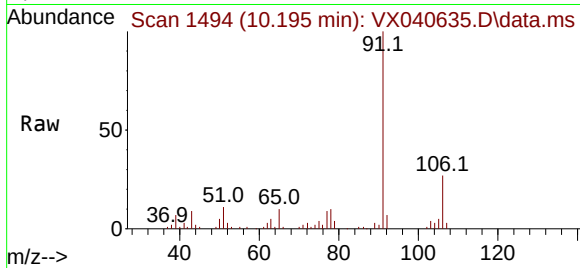




#66
Ethyl Benzene
Concen: 4.030 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

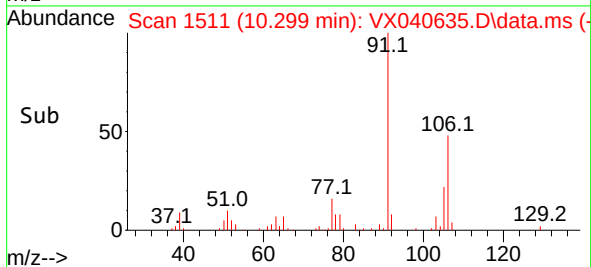
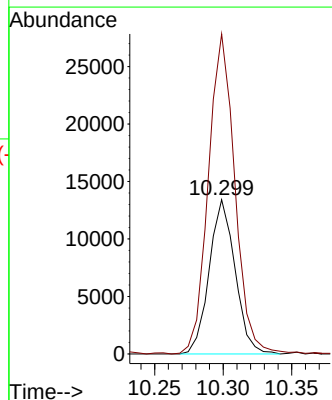
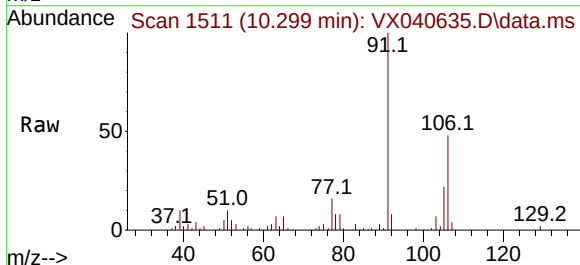
Instrument :
MSVOA_X
ClientSampleId :
240313044-02-VOA

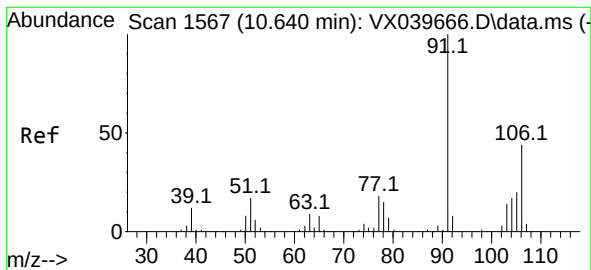
Tgt Ion: 91 Resp: 20876
Ion Ratio Lower Upper
91 100
106 26.7 24.4 36.6



#67
m/p-Xylenes
Concen: 9.218 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

Tgt Ion: 106 Resp: 17632
Ion Ratio Lower Upper
106 100
91 212.5 169.4 254.0





#68

o-Xylene

Concen: 5.611 ug/l

RT: 10.640 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX040635.D

Acq: 14 Mar 2024 12:01

Instrument :

MSVOA_X

ClientSampleId :

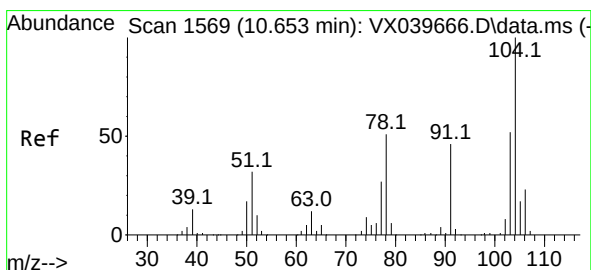
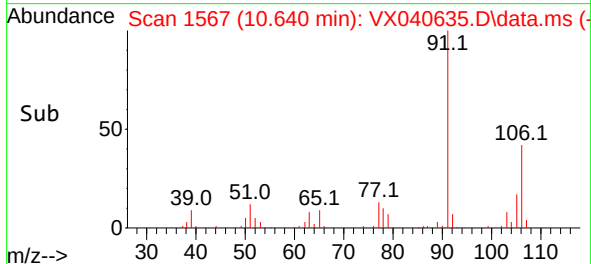
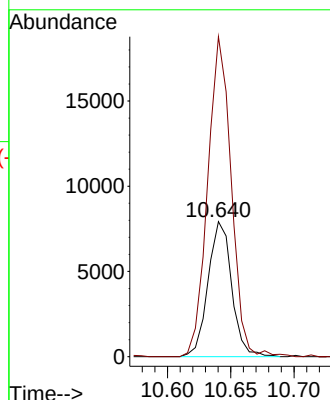
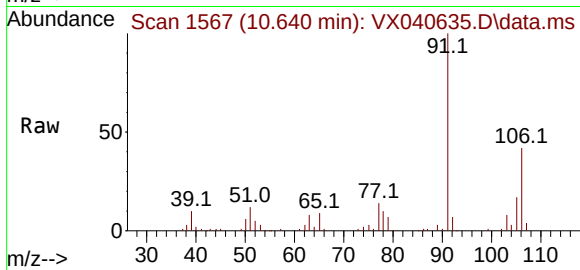
240313044-02-VOA

Tgt Ion:106 Resp: 10333

Ion Ratio Lower Upper

106 100

91 233.3 111.2 333.6



#69

Styrene

Concen: 0.547 ug/l

RT: 10.659 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VX040635.D

Acq: 14 Mar 2024 12:01

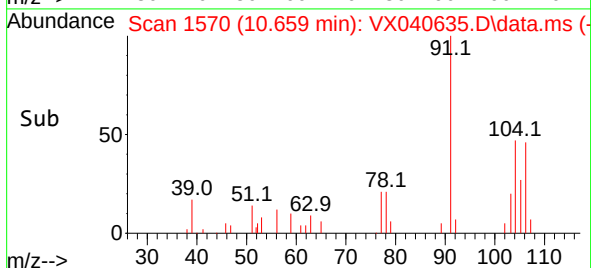
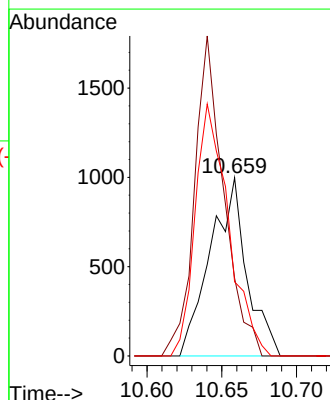
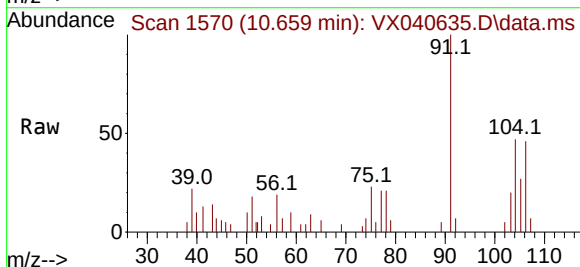
Tgt Ion:104 Resp: 1691

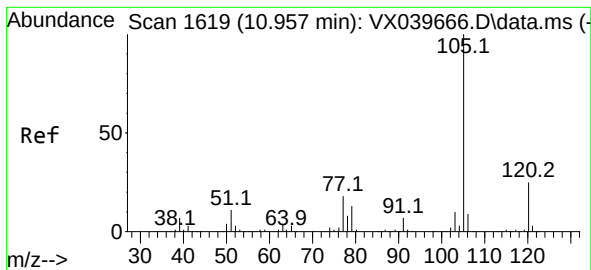
Ion Ratio Lower Upper

104 100

78 144.3 43.7 65.5#

103 129.6 44.6 67.0#





#70

Isopropylbenzene

Concen: 0.656 ug/l

RT: 10.957 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX040635.D

Acq: 14 Mar 2024 12:01

Instrument :

MSVOA_X

ClientSampleId :

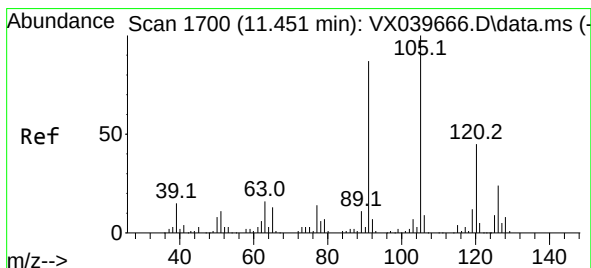
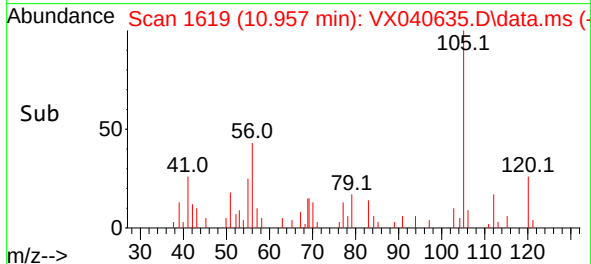
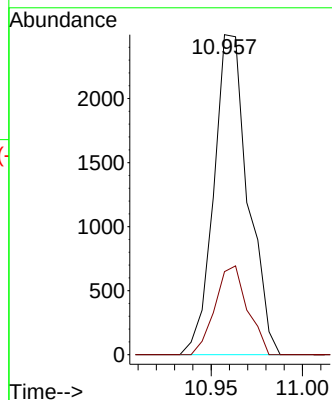
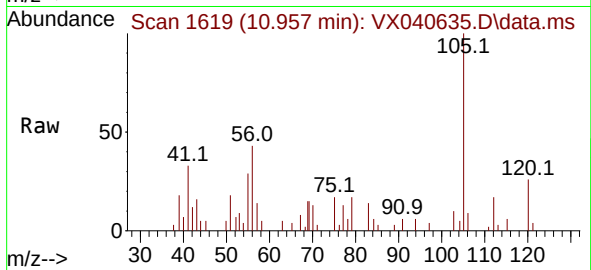
240313044-02-VOA

Tgt Ion:105 Resp: 3263

Ion Ratio Lower Upper

105 100

120 26.3 18.5 34.3



#76

1,3,5-Trimethylbenzene

Concen: 0.888 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX040635.D

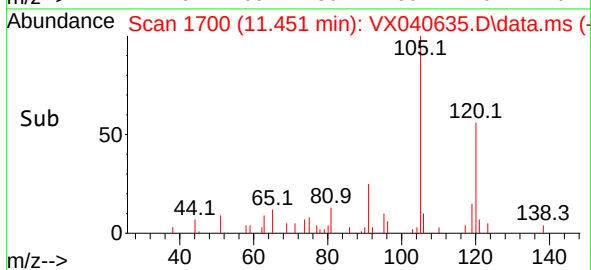
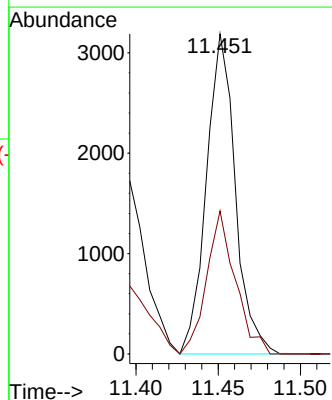
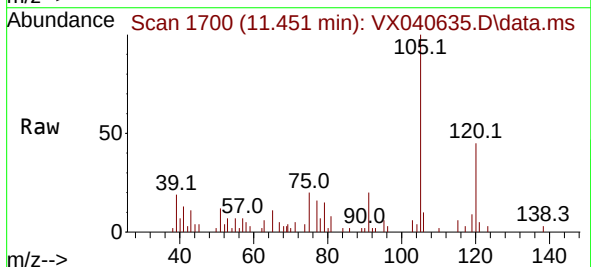
Acq: 14 Mar 2024 12:01

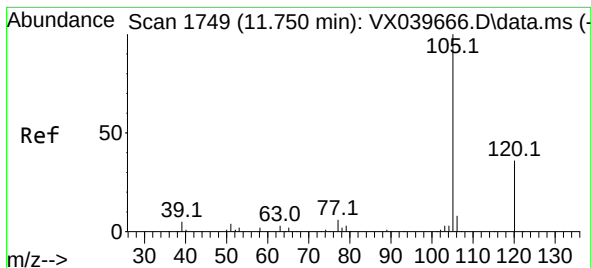
Tgt Ion:105 Resp: 3892

Ion Ratio Lower Upper

105 100

120 44.5 0.0 92.6

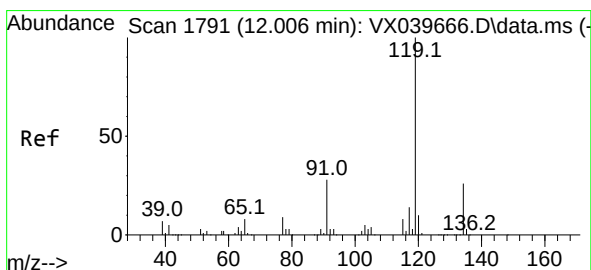
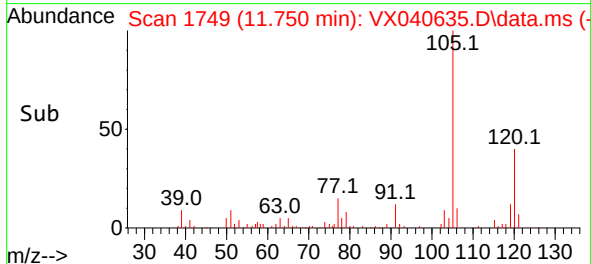
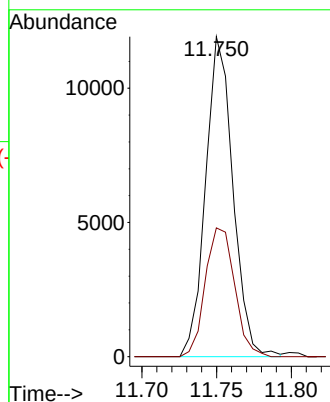
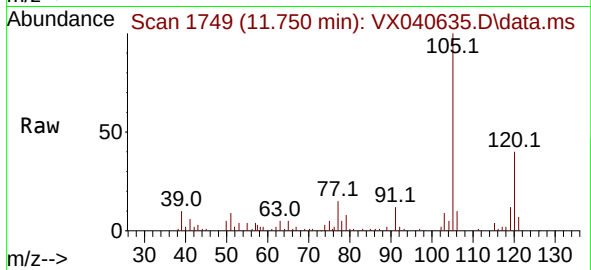




#80
1,2,4-Trimethylbenzene
Concen: 3.508 ug/l
RT: 11.750 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

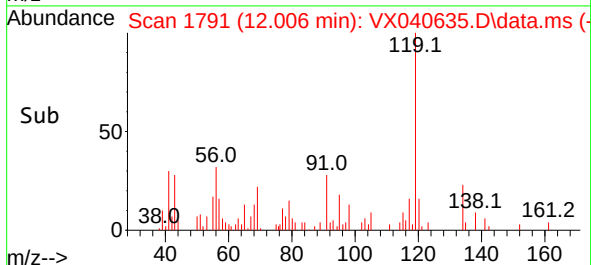
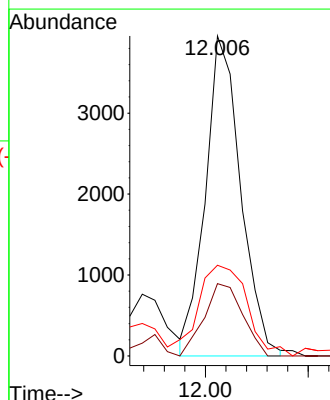
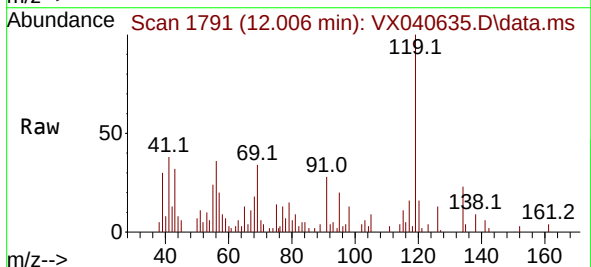
Instrument :
MSVOA_X
ClientSampleId :
240313044-02-VOA

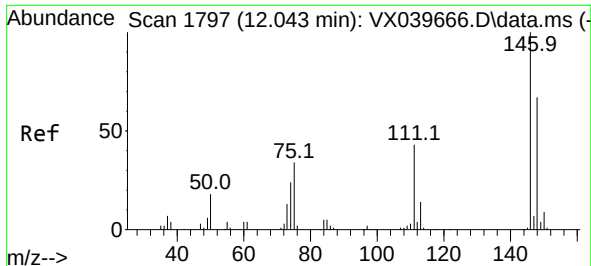
Tgt Ion:105 Resp: 15139
Ion Ratio Lower Upper
105 100
120 43.2 0.0 86.4



#82
p-Isopropyltoluene
Concen: 1.065 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX040635.D
Acq: 14 Mar 2024 12:01

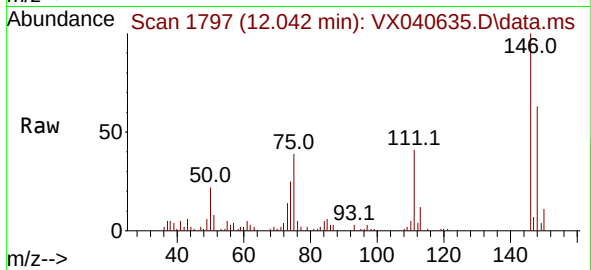
Tgt Ion:119 Resp: 4706
Ion Ratio Lower Upper
119 100
134 24.8 0.0 52.6
91 39.4 0.0 54.2





#84
 1,4-Dichlorobenzene
 Concen: 4.707 ug/l
 RT: 12.042 min Scan# 11
 Delta R.T. -0.001 min
 Lab File: VX040635.D
 Acq: 14 Mar 2024 12:01

Instrument :
 MSVOA_X
 ClientSampleId :
 240313044-02-VOA



Tgt Ion:	146	Resp:	11033
Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.4	64.2
148	60.0	31.8	95.4

