

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062724\
 Data File : VX042073.D
 Acq On : 27 Jun 2024 14:38
 Operator : JC/MD
 Sample : P3067-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 28 04:04:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

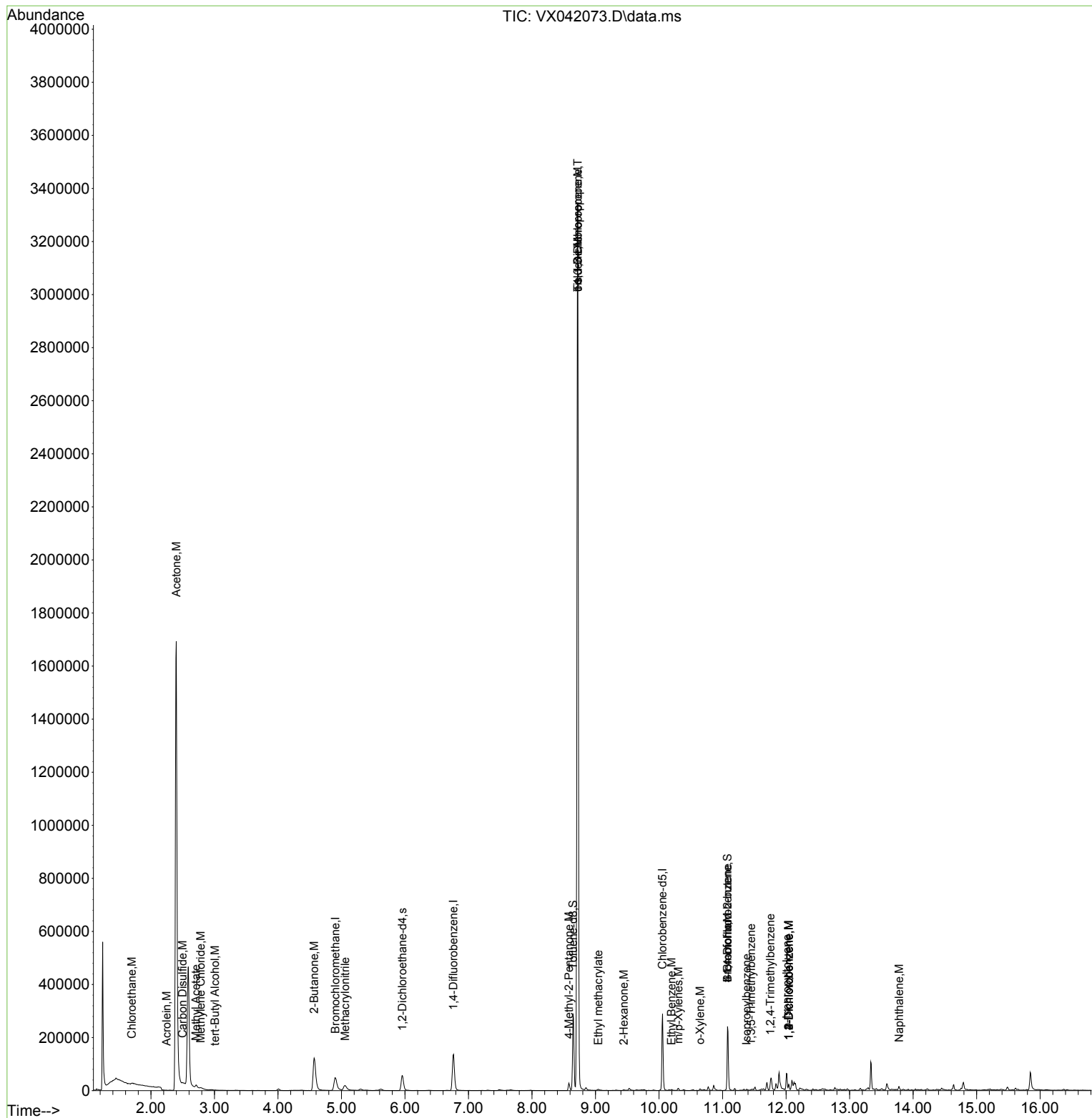
Internal Standards						
1) Bromochloromethane	4.904	128	28475	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	156247	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	142162	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	53928	27.512	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	91.700%
60) 4-Bromofluorobenzene	11.079	95	65499	29.765	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.200%
63) Toluene-d8	8.647	98	180644	29.700	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.000%
Target Compounds						
					Qvalue	
6) Chloroethane	1.697	64	9228	10.719	ug/l #	51
12) Methyl Acetate	2.709	43	14001	6.310	ug/l	98
13) Acrolein	2.245	56	250	0.559	ug/l #	60
15) Acetone	2.398	58	699079	2320.630	ug/l	90
16) Carbon Disulfide	2.495	76	1389	0.364	ug/l #	94
18) Methylene Chloride	2.782	84	1167	0.585	ug/l	93
23) tert-Butyl Alcohol	3.008	59	856	2.186	ug/l #	100
30) 2-Butanone	4.568	43	230177	168.925	ug/l	98
35) Methacrylonitrile	5.056	41	5176	3.782	ug/l #	40
48) t-1,3-Dichloropropene	8.720	75	13785	6.243	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	13785	5.566	ug/l #	1
51) Ethyl methacrylate	9.043	69	812	0.294	ug/l	84
56) Bromoform	11.079	173	317	0.204	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	16870	6.622	ug/l	99
59) 2-Hexanone	9.445	43	1354	0.689	ug/l #	84
62) Toluene	8.720	91	2250422	312.824	ug/l	99
66) Ethyl Benzene	10.195	91	2440	0.310	ug/l	98
67) m/p-Xylenes	10.305	106	2407	0.761	ug/l	92
68) o-Xylene	10.646	106	1135	0.360	ug/l	91
70) Isopropylbenzene	11.378	105	3536	0.446	ug/l	89
76) 1,3,5-Trimethylbenzene	11.451	105	1542	0.232	ug/l	94
77) t-1,4-Dichloro-2-butene	11.079	75	29095	35.380	ug/l #	7
80) 1,2,4-Trimethylbenzene	11.756	105	10719	1.615	ug/l	62
82) p-Isopropyltoluene	12.012	119	30225	4.193	ug/l	100
83) 1,3-Dichlorobenzene	12.043	146	1948	0.472	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	1948	0.474	ug/l	96
87) 1,2-Dichlorobenzene	12.043	146	1948	0.467	ug/l	98
91) Naphthalene	13.780	128	8999	1.055	ug/l	100

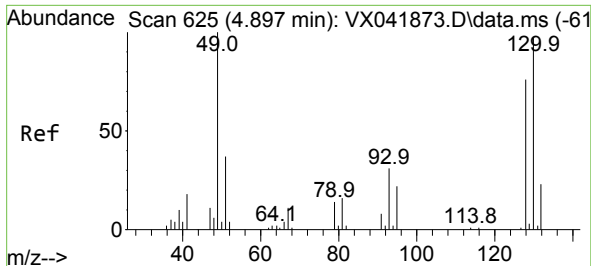
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062724\
Data File : VX042073.D
Acq On : 27 Jun 2024 14:38
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Sample : P3067-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

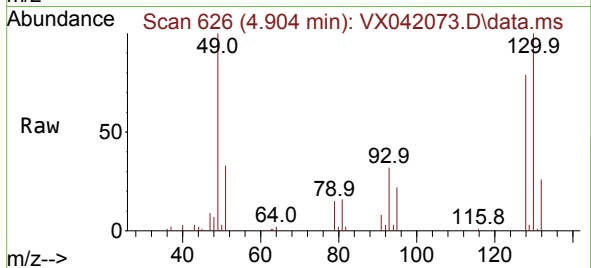
Quant Time: Jun 28 04:04:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 15 04:02:59 2024
Response via : Initial Calibration



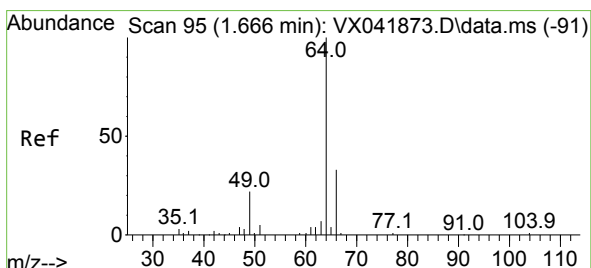
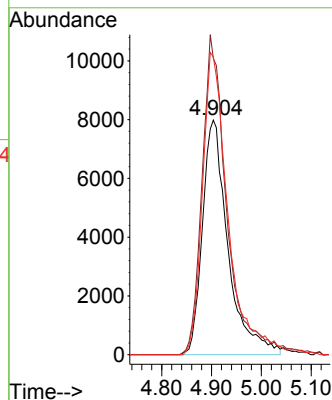
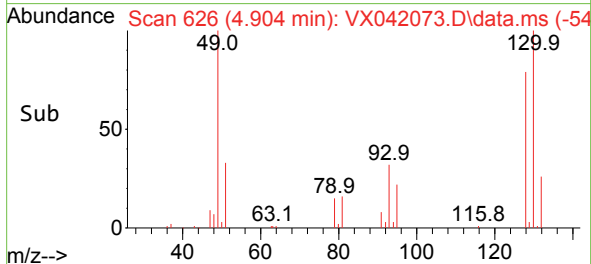


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

Instrument :
MSVOA_X
ClientSampleId :

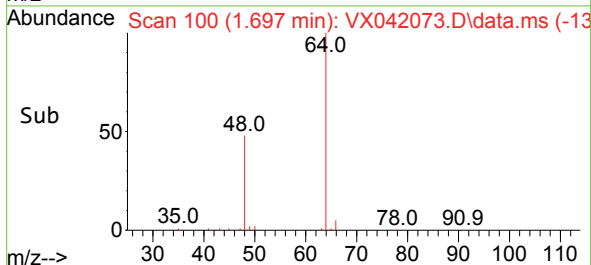
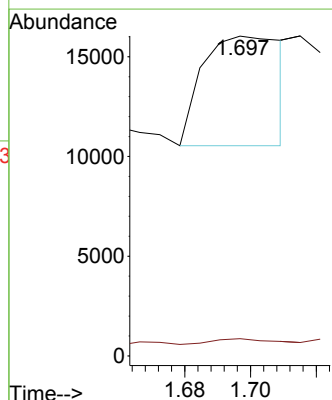
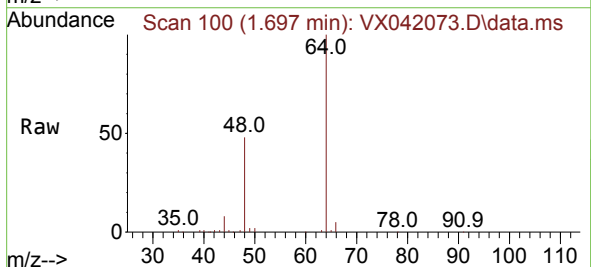


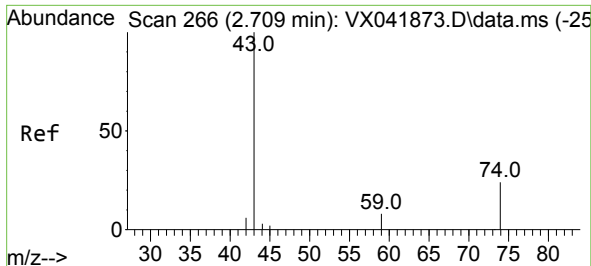
Tgt Ion:128 Resp: 28475
Ion Ratio Lower Upper
128 100
49 130.6 0.0 338.5
130 126.9 0.0 324.5



#6
Chloroethane
Concen: 10.719 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.030 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

Tgt Ion: 64 Resp: 9228
Ion Ratio Lower Upper
64 100
66 5.2 26.4 39.6#

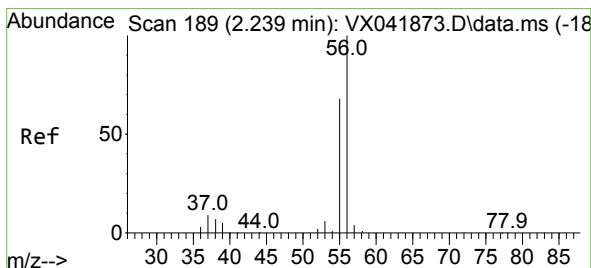
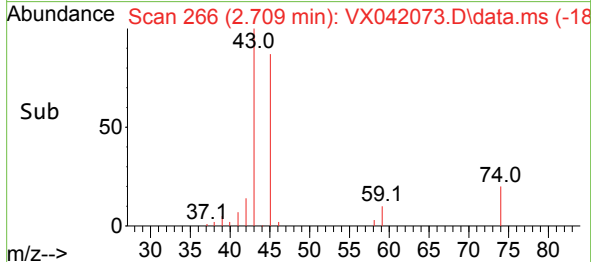
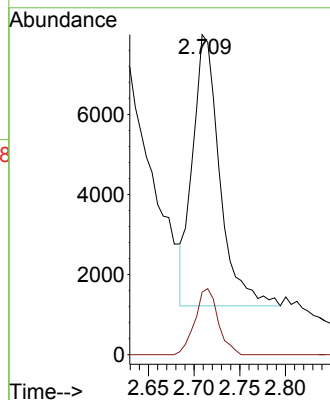
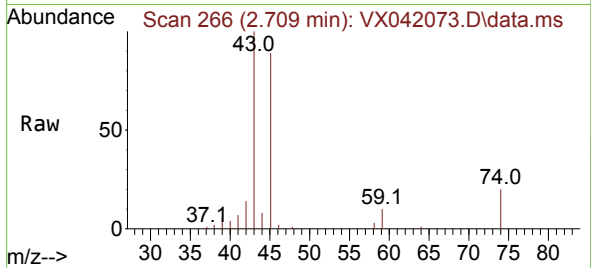




#12
Methyl Acetate
Concen: 6.310 ug/l
RT: 2.709 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

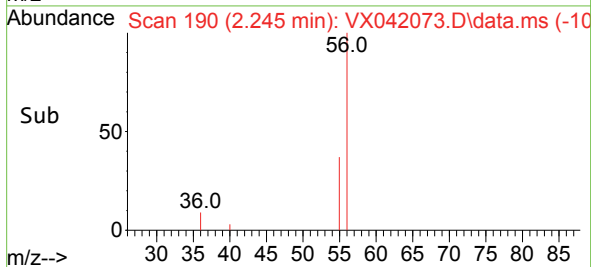
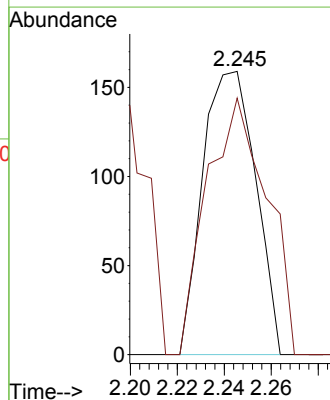
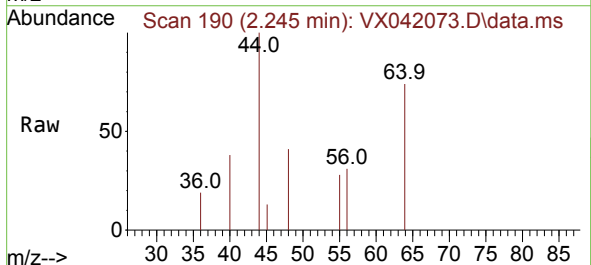
Instrument :
MSVOA_X
ClientSampleId :

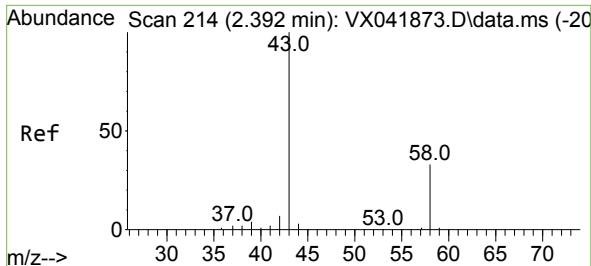
Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.4	19.4	29.2



#13
Acrolein
Concen: 0.559 ug/l
RT: 2.245 min Scan# 190
Delta R.T. 0.006 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

Tgt Ion	Ratio	Lower	Upper
56	100		
55	102.0	55.4	83.0#





#15

Acetone

Concen: 2320.630 ug/l

RT: 2.398 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

Instrument :

MSVOA_X

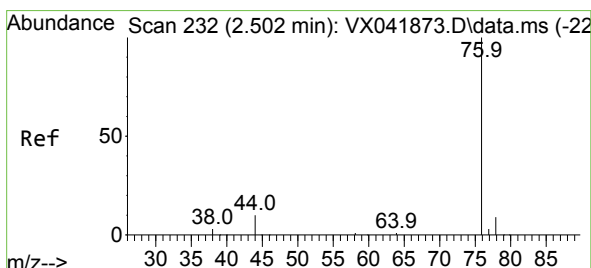
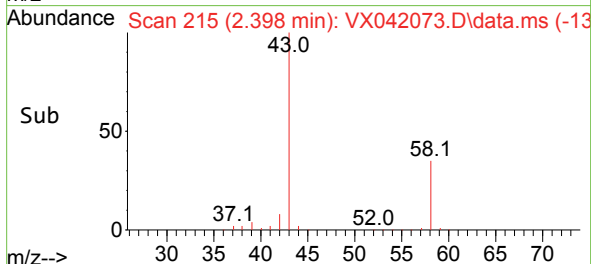
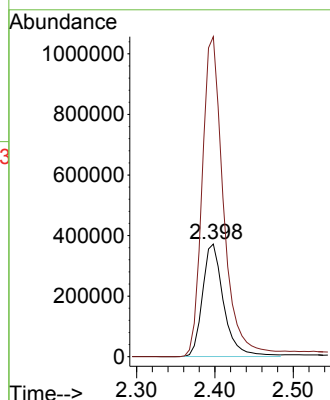
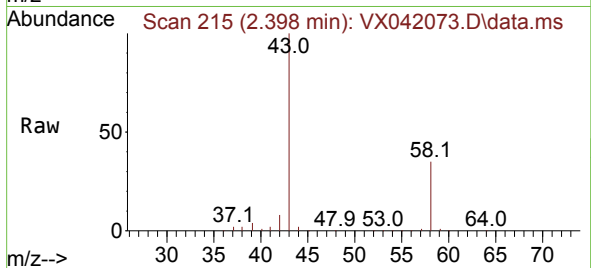
ClientSampleId :

Tgt Ion: 58 Resp: 699079

Ion Ratio Lower Upper

58 100

43 284.2 243.4 365.2



#16

Carbon Disulfide

Concen: 0.364 ug/l

RT: 2.495 min Scan# 231

Delta R.T. -0.006 min

Lab File: VX042073.D

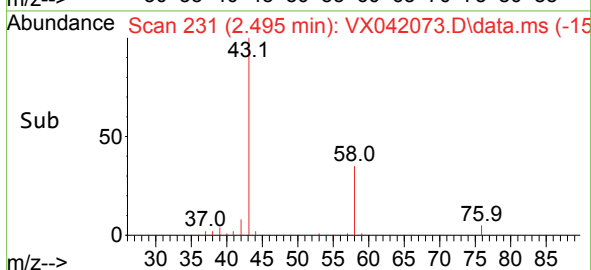
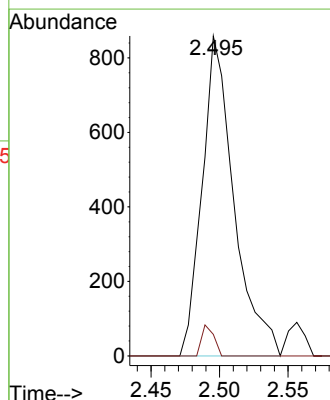
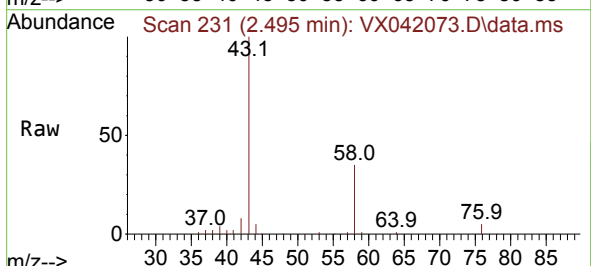
Acq: 27 Jun 2024 14:38

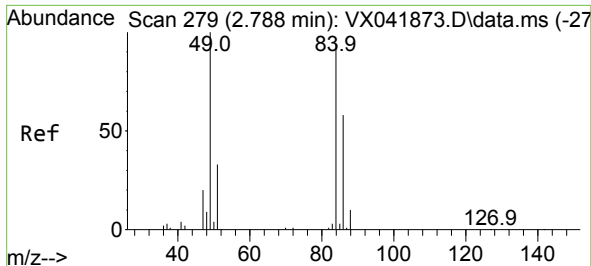
Tgt Ion: 76 Resp: 1389

Ion Ratio Lower Upper

76 100

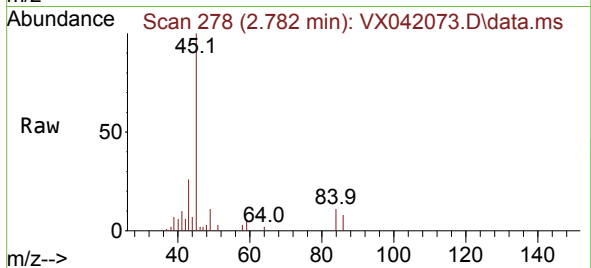
78 6.8 7.3 10.9#





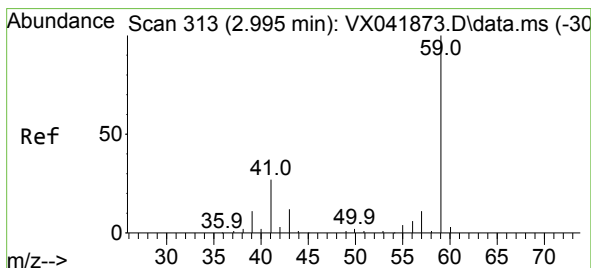
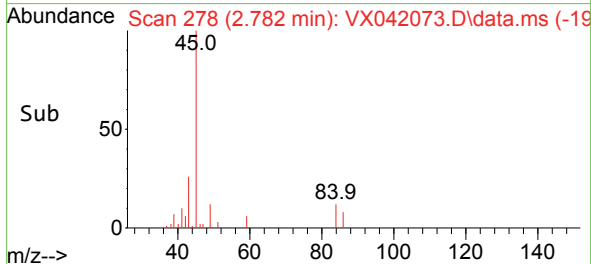
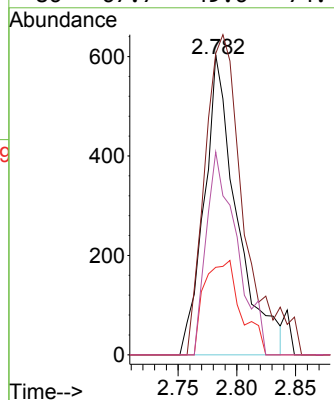
#18
Methylene Chloride
Concen: 0.585 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion: 84 Resp: 1167

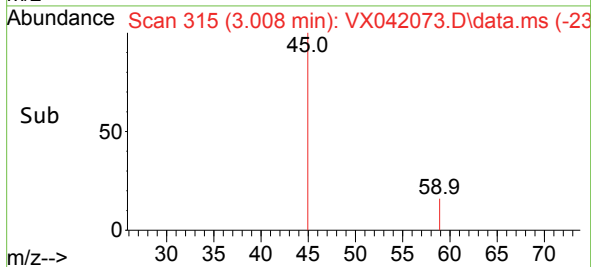
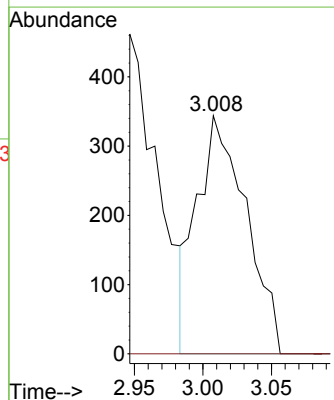
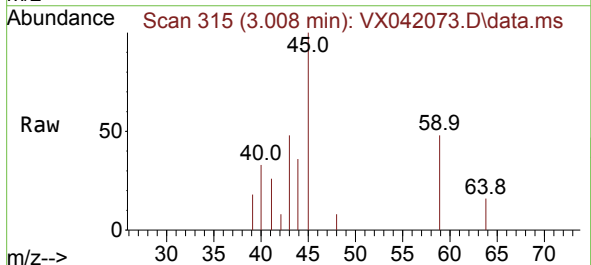
Ion	Ratio	Lower	Upper
84	100		
49	100.5	85.3	127.9
51	29.2	28.5	42.7
86	67.7	49.6	74.4

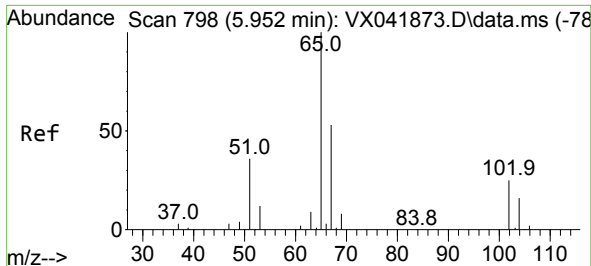


#23
tert-Butyl Alcohol
Concen: 2.186 ug/l
RT: 3.008 min Scan# 315
Delta R.T. 0.012 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

Tgt Ion: 59 Resp: 856

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#27

1,2-Dichloroethane-d4

Concen: 27.512 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

Instrument :

MSVOA_X

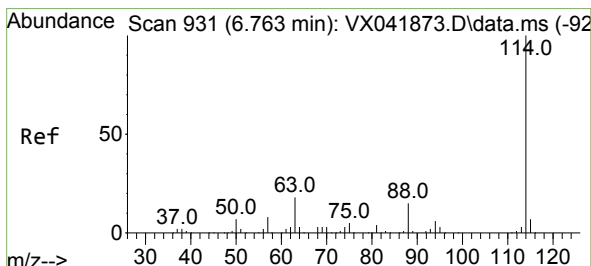
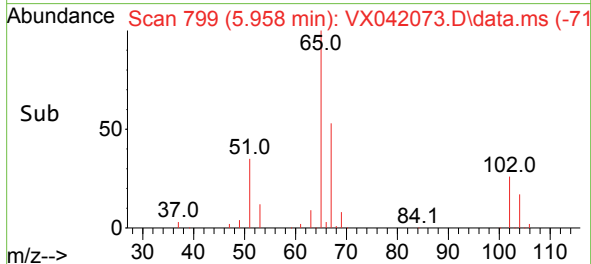
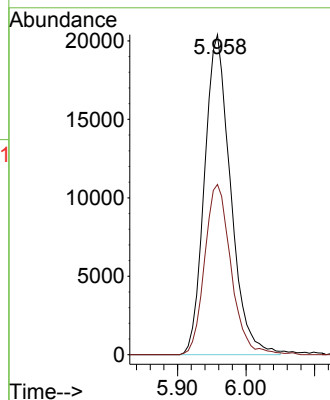
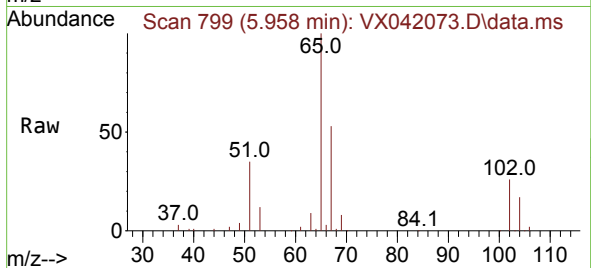
ClientSampleId :

Tgt Ion: 65 Resp: 53928

Ion Ratio Lower Upper

65 100

67 52.8 43.4 65.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

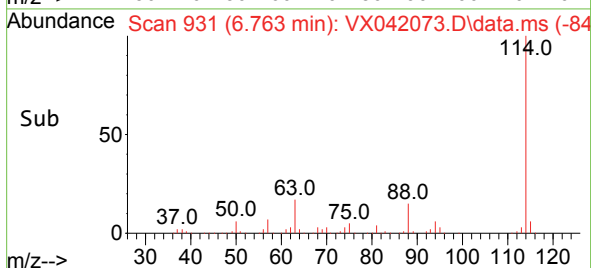
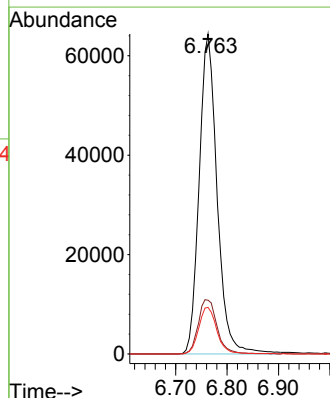
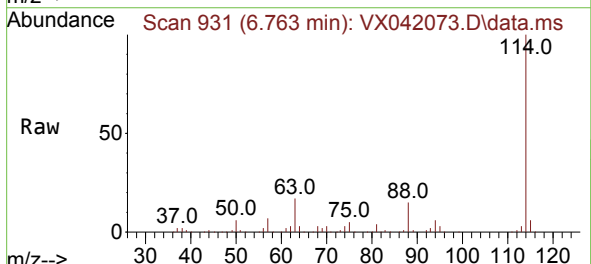
Tgt Ion: 114 Resp: 156247

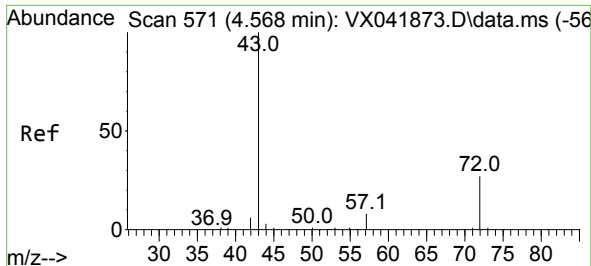
Ion Ratio Lower Upper

114 100

63 17.6 14.6 21.8

88 14.7 11.8 17.8

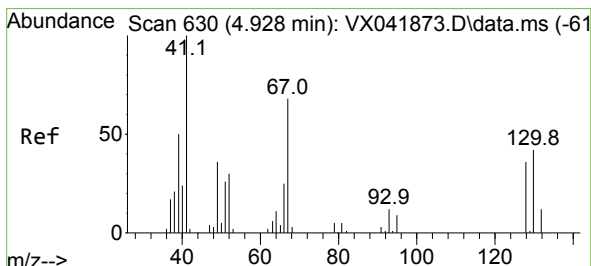
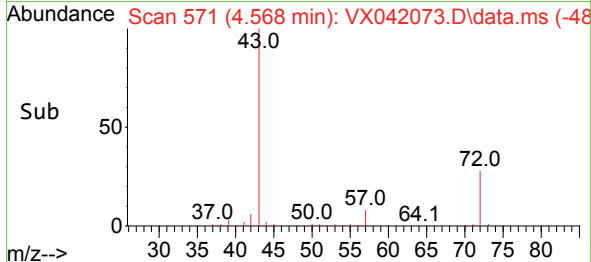
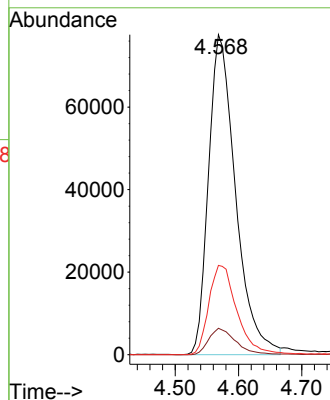
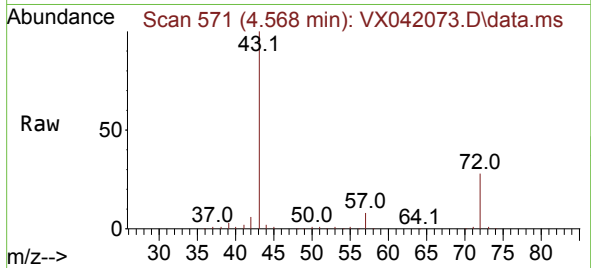




#30
2-Butanone
Concen: 168.925 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.000 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

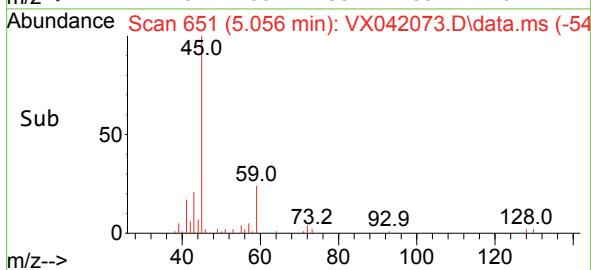
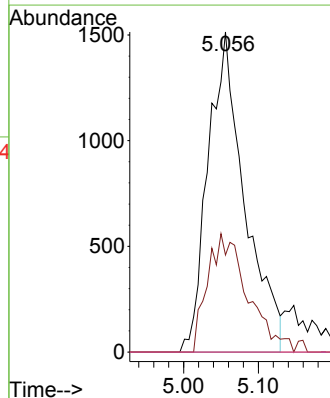
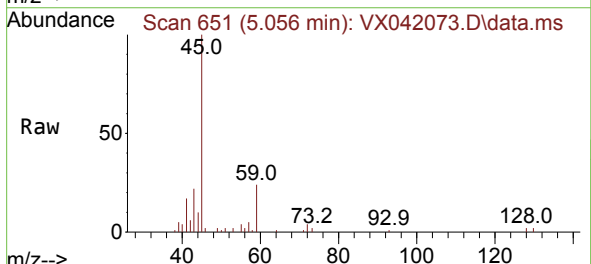
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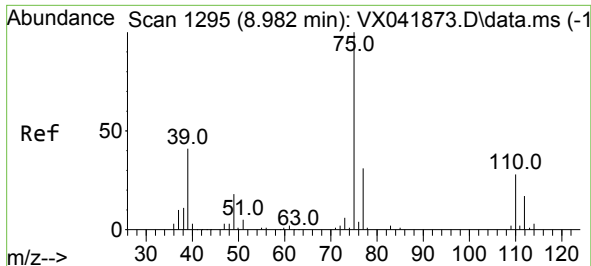
Tgt Ion: 43 Resp: 230177
Ion Ratio Lower Upper
43 100
57 8.4 6.5 9.7
72 29.0 22.0 33.0



#35
Methacrylonitrile
Concen: 3.782 ug/l
RT: 5.056 min Scan# 651
Delta R.T. 0.128 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

Tgt Ion: 41 Resp: 5176
Ion Ratio Lower Upper
41 100
39 30.3 25.2 75.6
67 0.0 34.2 102.5#
52 0.0 15.0 45.1#

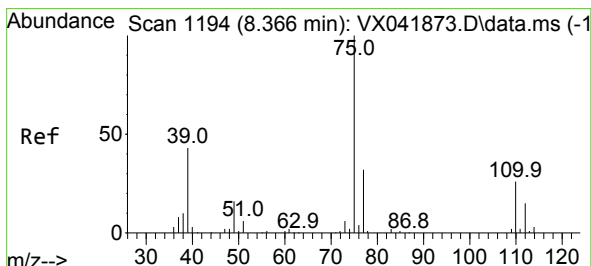
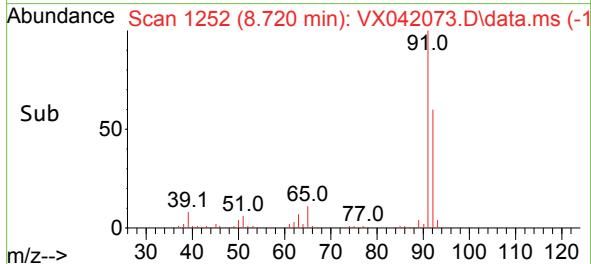
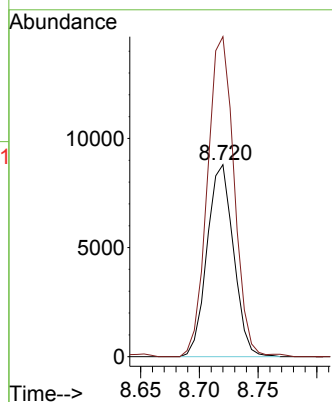
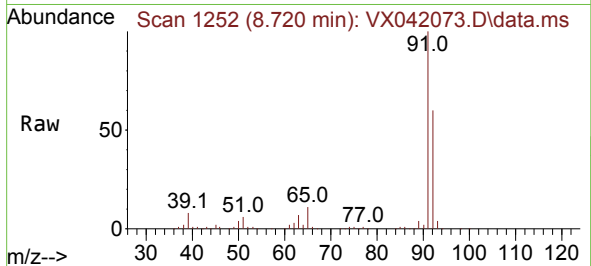




#48
 t-1,3-Dichloropropene
 Concen: 6.243 ug/l
 RT: 8.720 min Scan# 11
 Delta R.T. -0.262 min
 Lab File: VX042073.D
 Acq: 27 Jun 2024 14:38

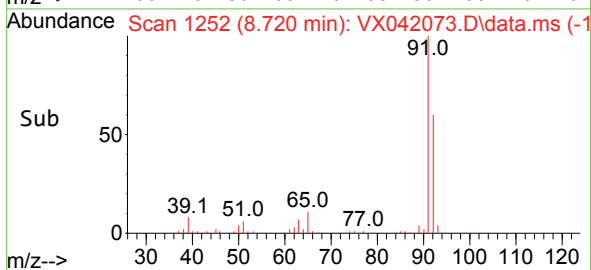
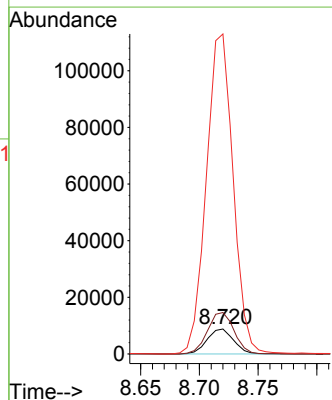
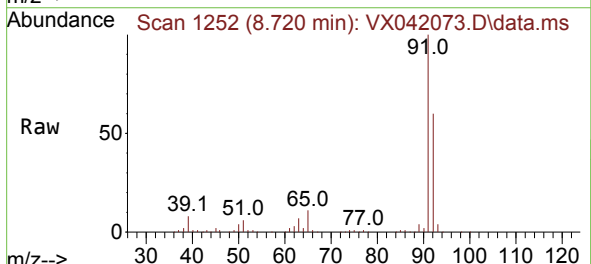
Instrument :
 MSVOA_X
 ClientSampleId :

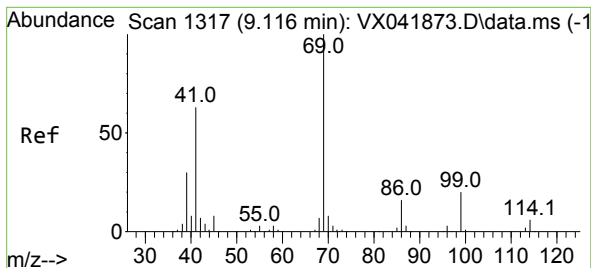
Tgt Ion: 75 Resp: 13785
 Ion Ratio Lower Upper
 75 100
 77 166.6 25.1 37.7#



#49
 cis-1,3-Dichloropropene
 Concen: 5.566 ug/l
 RT: 8.720 min Scan# 1252
 Delta R.T. 0.354 min
 Lab File: VX042073.D
 Acq: 27 Jun 2024 14:38

Tgt Ion: 75 Resp: 13785
 Ion Ratio Lower Upper
 75 100
 77 166.6 25.8 38.8#
 39 1279.8 34.8 52.2#





#51

Ethyl methacrylate

Concen: 0.294 ug/l

RT: 9.043 min Scan# 11

Delta R.T. -0.073 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

Instrument :

MSVOA_X

ClientSampleId :

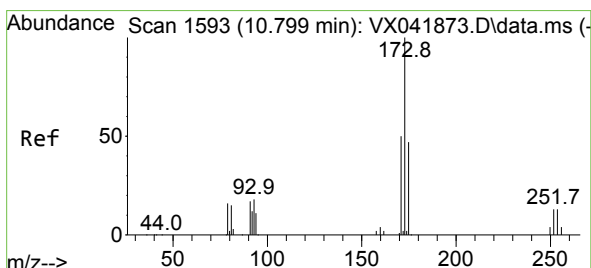
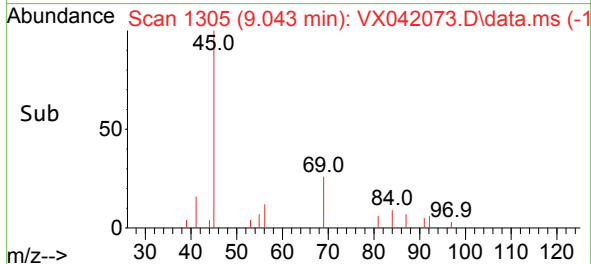
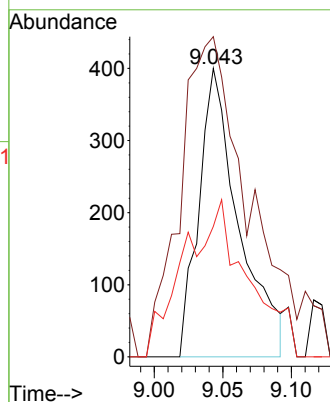
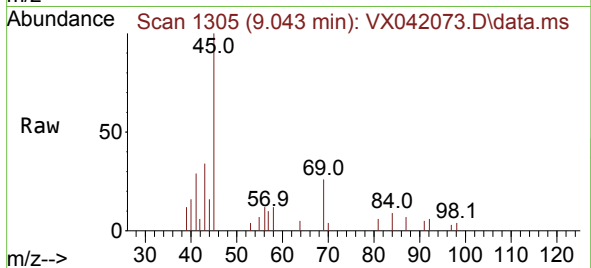
Tgt Ion: 69 Resp: 812

Ion Ratio Lower Upper

69 100

41 80.7 31.6 94.7

39 29.7 15.3 45.8



#56

Bromoform

Concen: 0.204 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.280 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

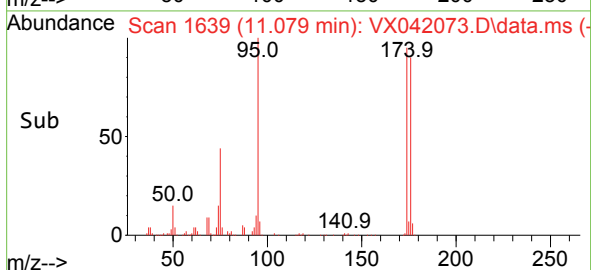
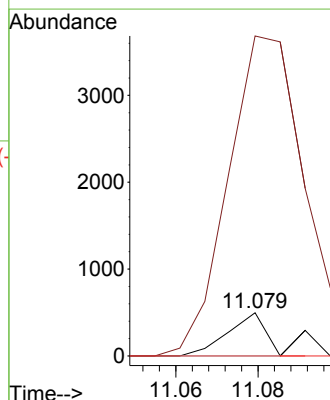
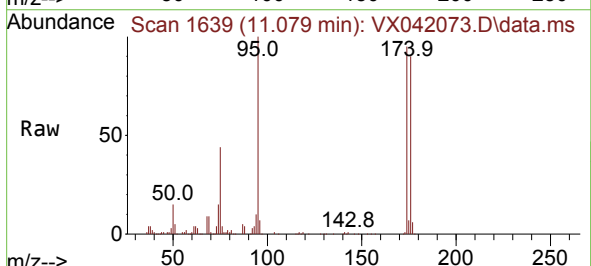
Tgt Ion: 173 Resp: 317

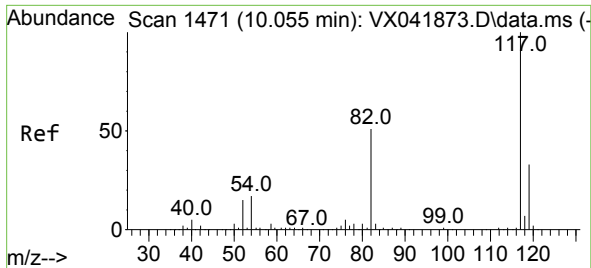
Ion Ratio Lower Upper

173 100

175 1551.1 39.3 58.9#

254 0.0 9.6 14.4#

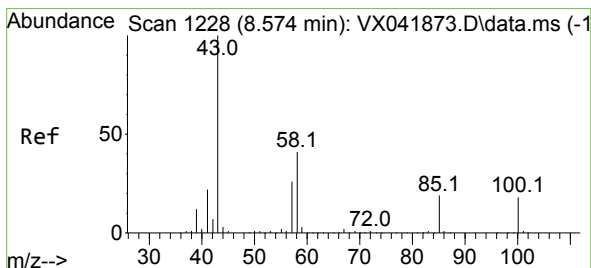
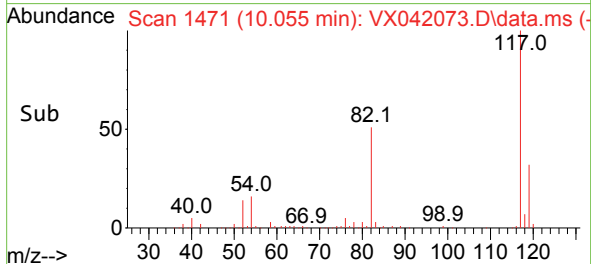
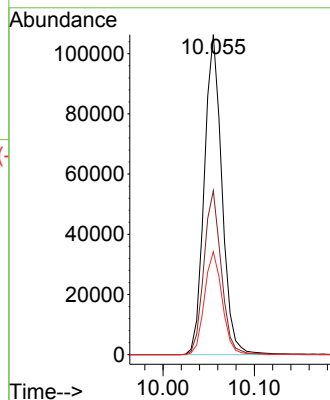
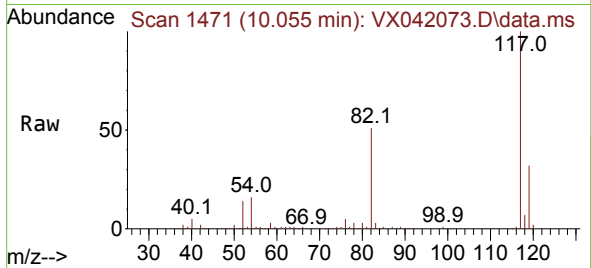




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

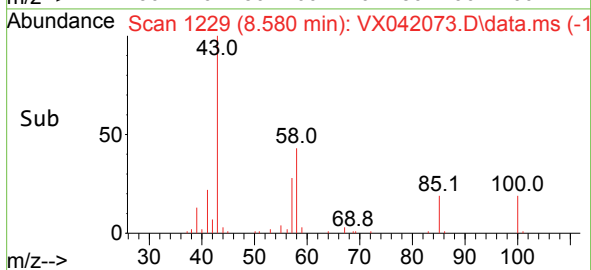
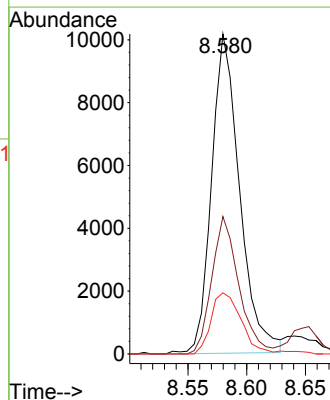
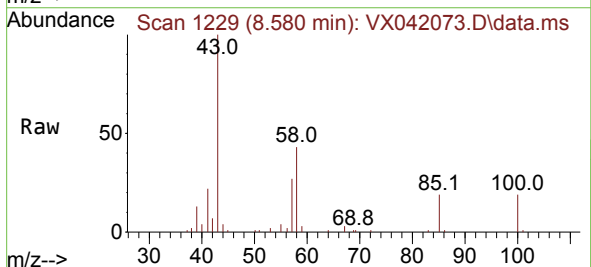
Instrument :
MSVOA_X
ClientSampleId :

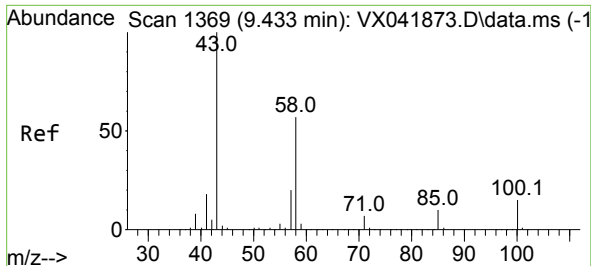
Tgt Ion:117 Resp: 142162
Ion Ratio Lower Upper
117 100
82 50.6 41.1 61.7
119 32.4 26.1 39.1



#58
4-Methyl-2-Pentanone
Concen: 6.622 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

Tgt Ion: 43 Resp: 16870
Ion Ratio Lower Upper
43 100
58 41.6 33.2 49.8
85 20.4 15.5 23.3





#59

2-Hexanone

Concen: 0.689 ug/l

RT: 9.445 min Scan# 11

Delta R.T. 0.012 min

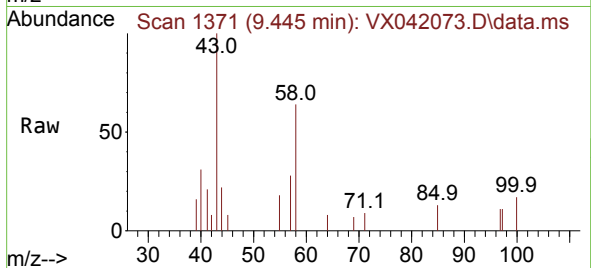
Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

Instrument :

MSVOA_X

ClientSampleId :



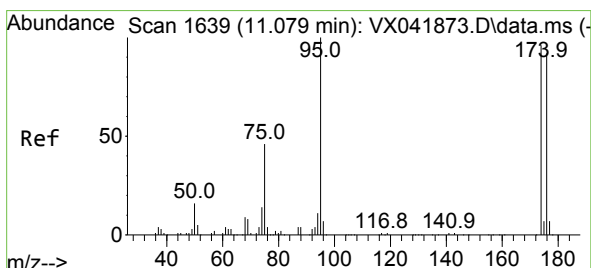
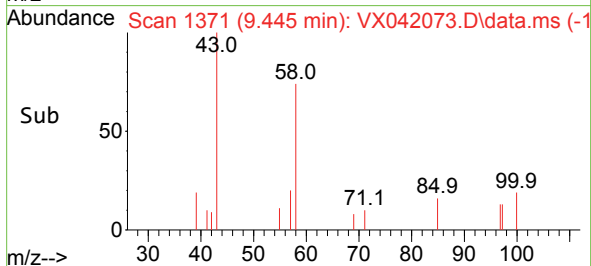
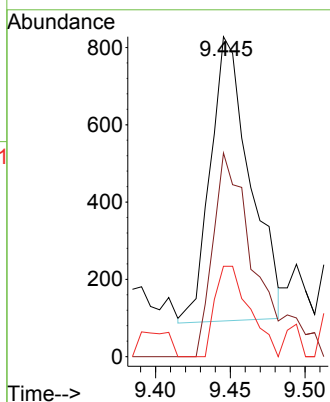
Tgt Ion: 43 Resp: 1354

Ion Ratio Lower Upper

43 100

58 69.2 46.0 69.0#

57 27.5 15.8 23.6#



#60

4-Bromofluorobenzene

Concen: 29.765 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

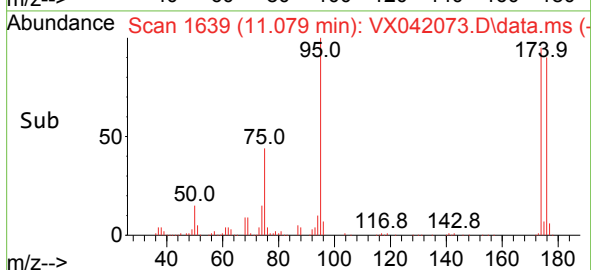
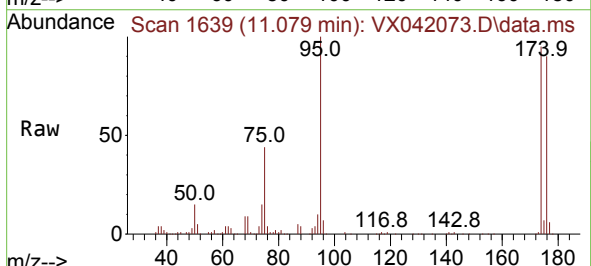
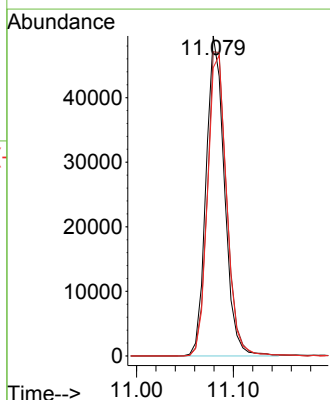
Tgt Ion: 95 Resp: 65499

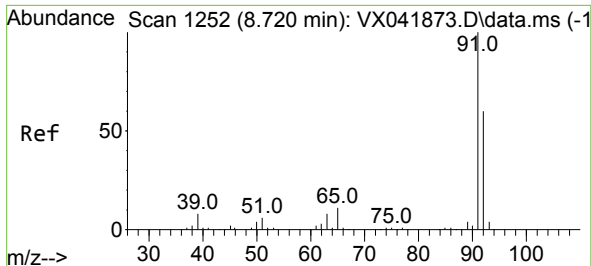
Ion Ratio Lower Upper

95 100

174 99.5 78.9 118.3

176 97.2 77.1 115.7

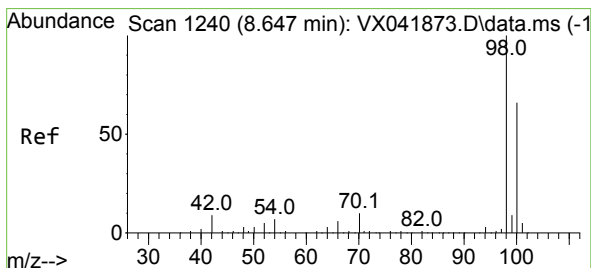
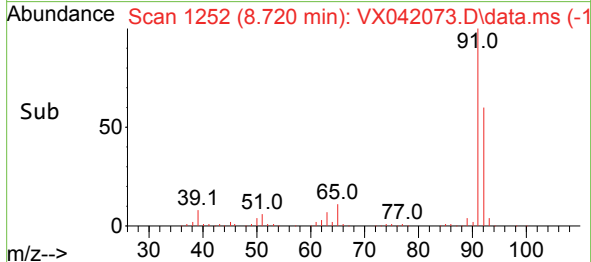
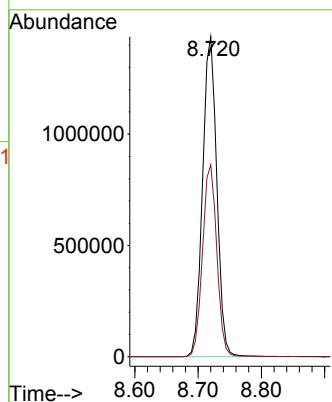
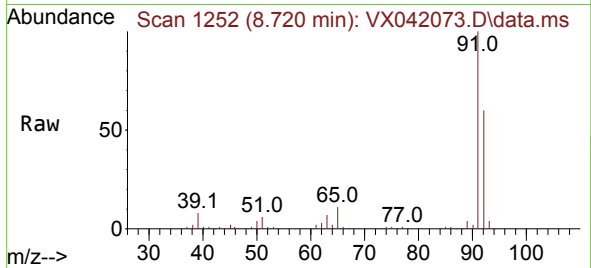




#62
Toluene
Concen: 312.824 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

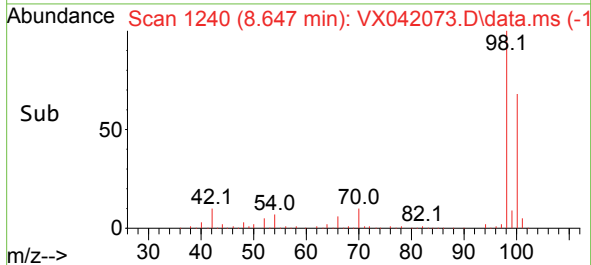
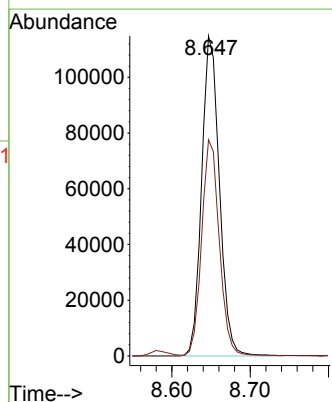
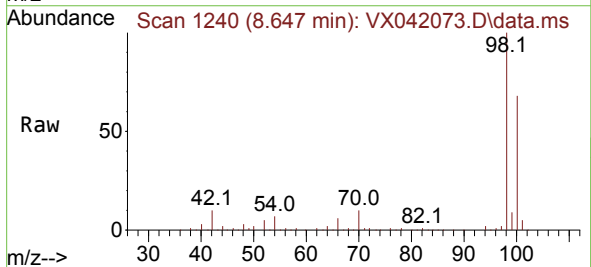
Instrument :
MSVOA_X
ClientSampleId :

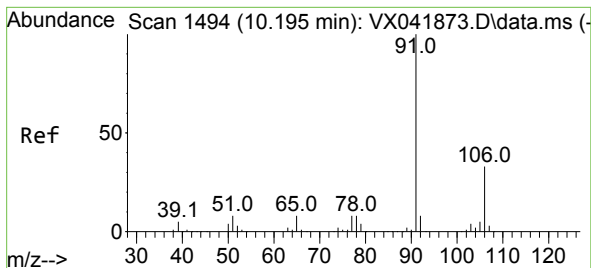
Tgt Ion: 91 Resp: 2250422
Ion Ratio Lower Upper
91 100
92 60.2 47.4 71.2



#63
Toluene-d8
Concen: 29.700 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

Tgt Ion: 98 Resp: 180644
Ion Ratio Lower Upper
98 100
100 67.4 52.7 79.1





#66

Ethyl Benzene

Concen: 0.310 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

Instrument :

MSVOA_X

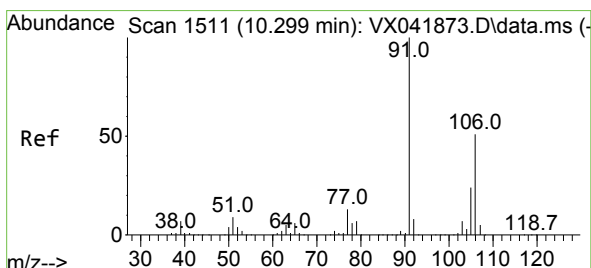
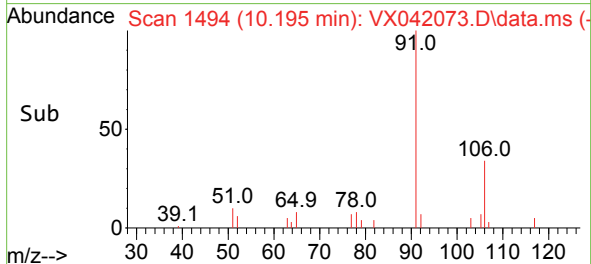
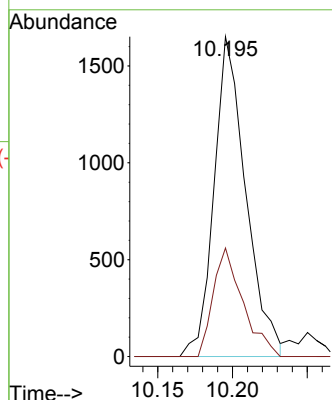
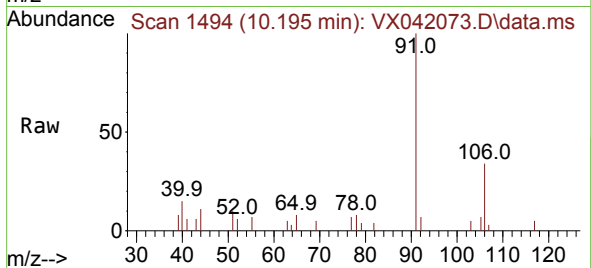
ClientSampleId :

Tgt Ion: 91 Resp: 2440

Ion Ratio Lower Upper

91 100

106 33.9 26.4 39.6



#67

m/p-Xylenes

Concen: 0.761 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX042073.D

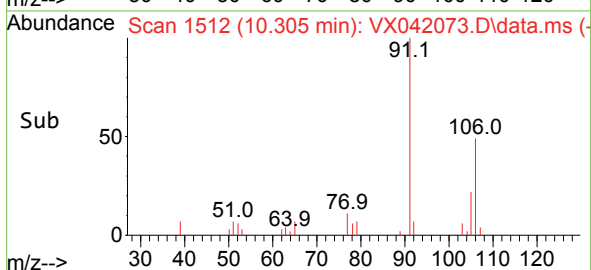
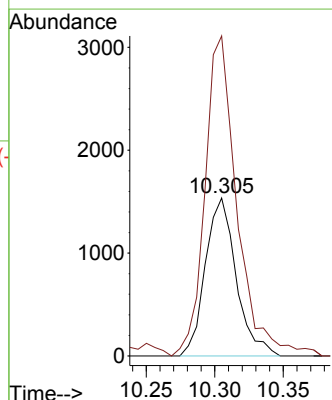
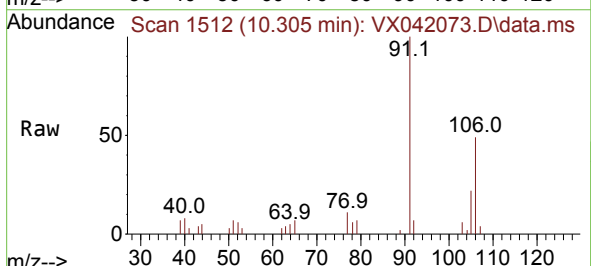
Acq: 27 Jun 2024 14:38

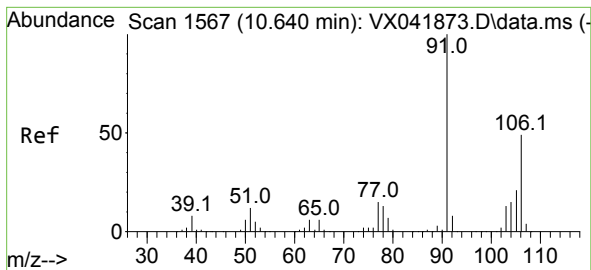
Tgt Ion: 106 Resp: 2407

Ion Ratio Lower Upper

106 100

91 208.3 157.0 235.6





#68

o-Xylene

Concen: 0.360 ug/l

RT: 10.646 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

Instrument :

MSVOA_X

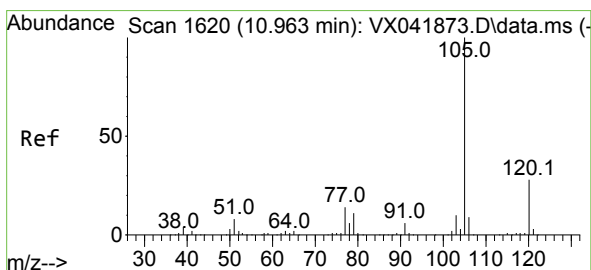
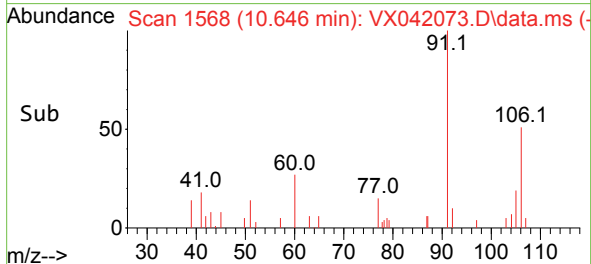
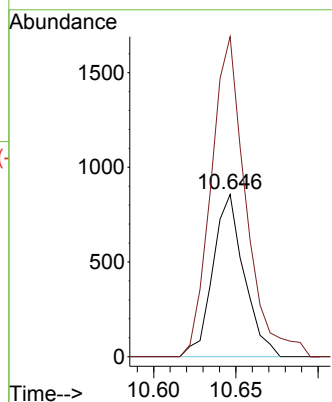
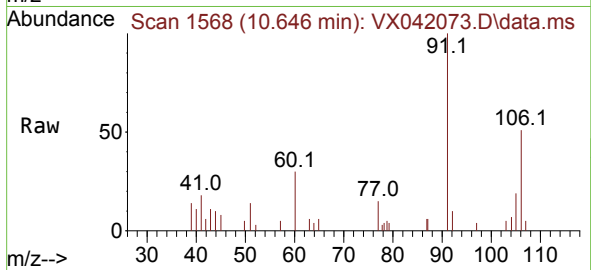
ClientSampleId :

Tgt Ion:106 Resp: 1135

Ion Ratio Lower Upper

106 100

91 219.6 103.2 309.6



#70

Isopropylbenzene

Concen: 0.446 ug/l

RT: 11.378 min Scan# 1688

Delta R.T. 0.415 min

Lab File: VX042073.D

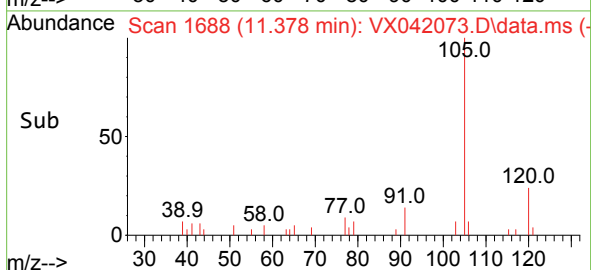
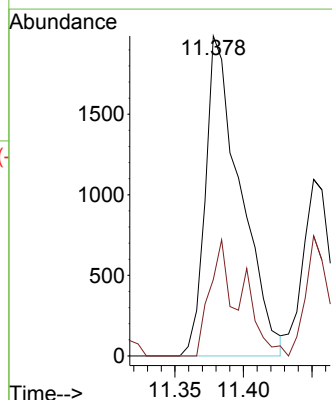
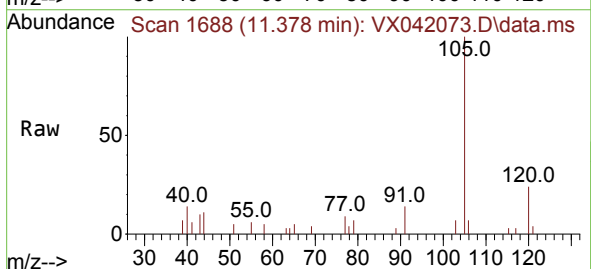
Acq: 27 Jun 2024 14:38

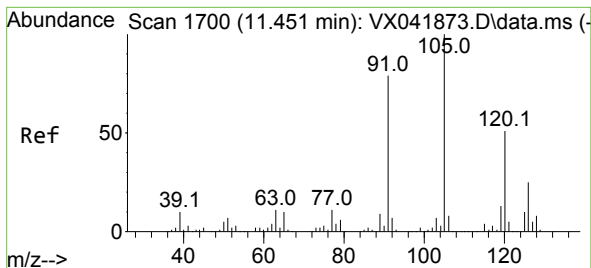
Tgt Ion:105 Resp: 3536

Ion Ratio Lower Upper

105 100

120 21.8 19.2 35.6





#76

1,3,5-Trimethylbenzene

Concen: 0.232 ug/l

RT: 11.451 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

Instrument :

MSVOA_X

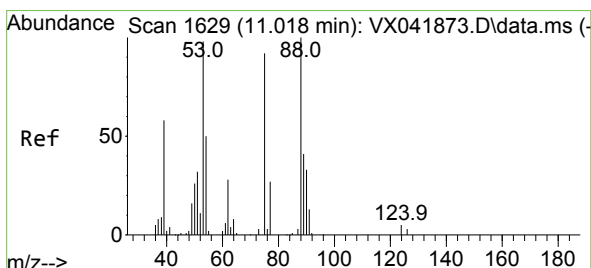
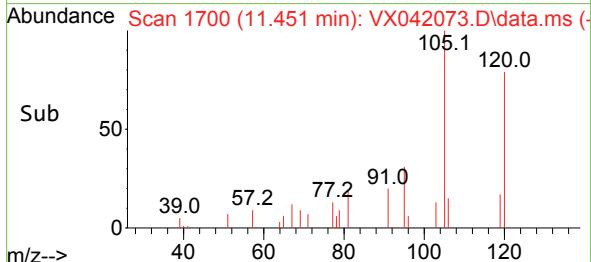
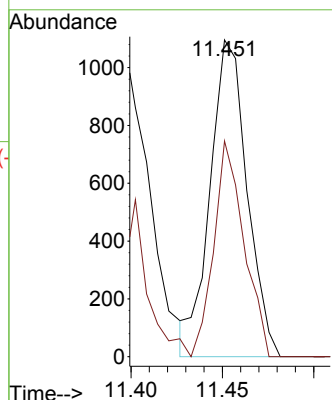
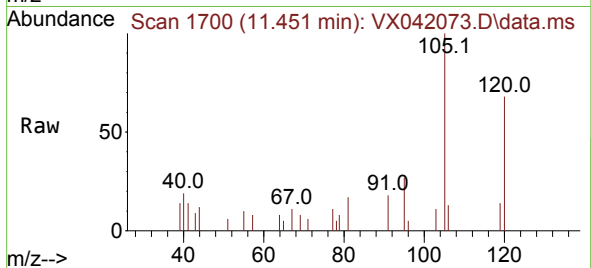
ClientSampleId :

Tgt Ion:105 Resp: 1542

Ion Ratio Lower Upper

105 100

120 55.5 0.0 103.0



#77

t-1,4-Dichloro-2-butene

Concen: 35.380 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

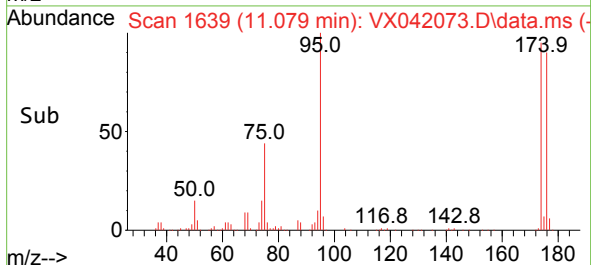
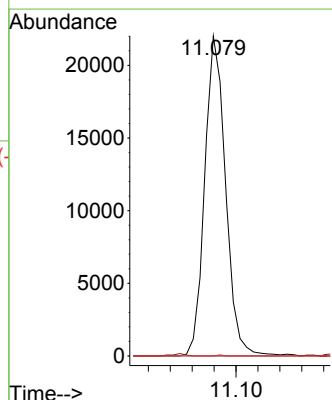
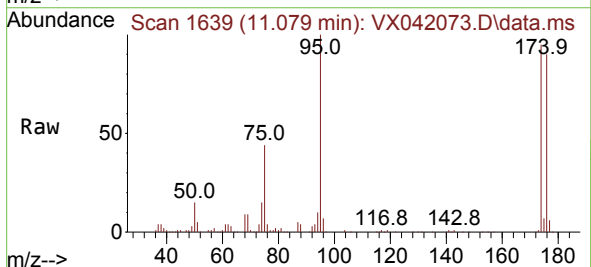
Tgt Ion: 75 Resp: 29095

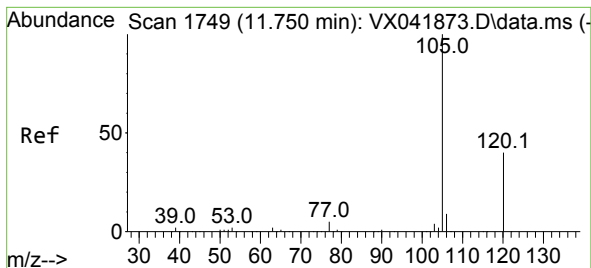
Ion Ratio Lower Upper

75 100

53 0.0 53.4 160.2#

89 0.0 22.5 67.5#





#80

1,2,4-Trimethylbenzene

Concen: 1.615 ug/l

RT: 11.756 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

Instrument :

MSVOA_X

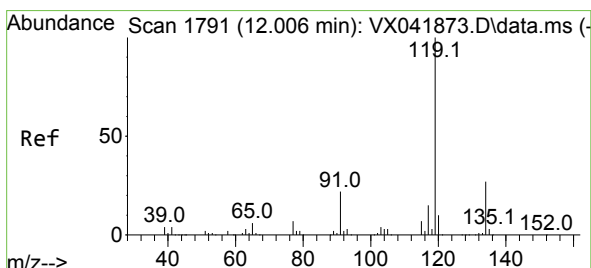
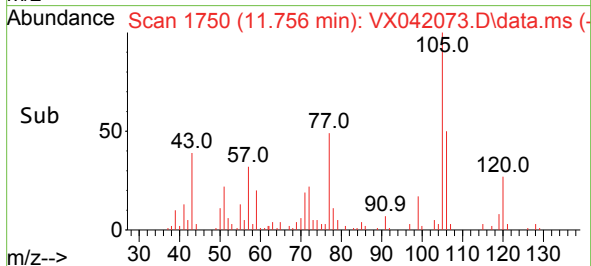
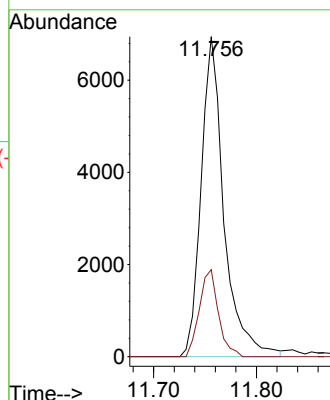
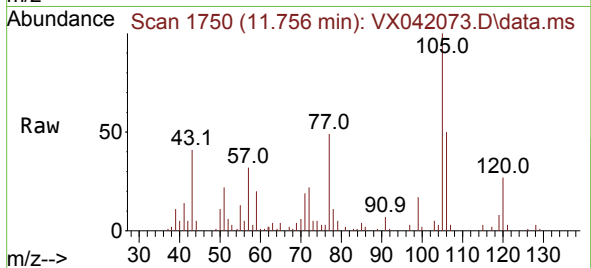
ClientSampleId :

Tgt Ion:105 Resp: 10719

Ion Ratio Lower Upper

105 100

120 22.7 0.0 96.2



#82

p-Isopropyltoluene

Concen: 4.193 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

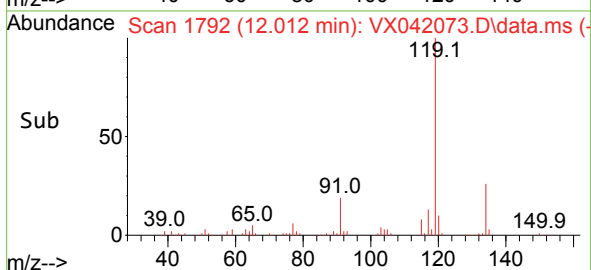
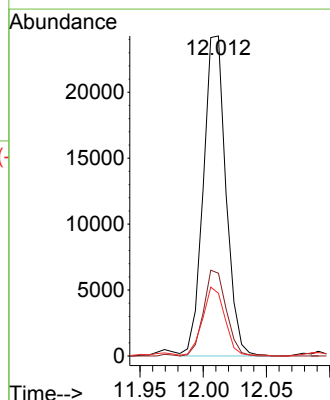
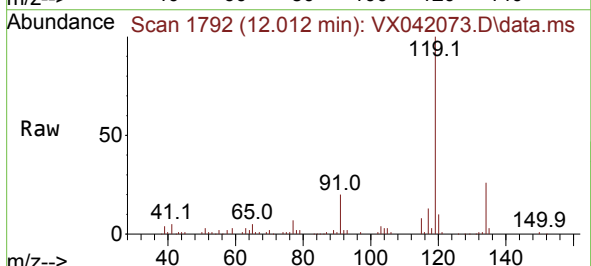
Tgt Ion:119 Resp: 30225

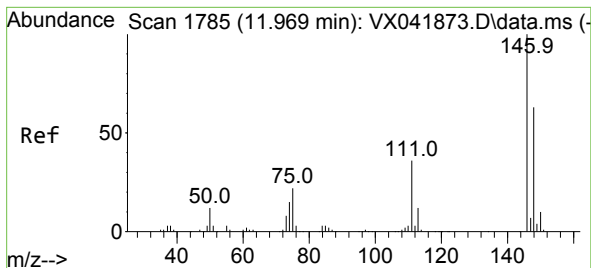
Ion Ratio Lower Upper

119 100

134 26.8 0.0 54.0

91 21.2 0.0 42.2





#83

1,3-Dichlorobenzene

Concen: 0.472 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.073 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

Instrument :

MSVOA_X

ClientSampleId :

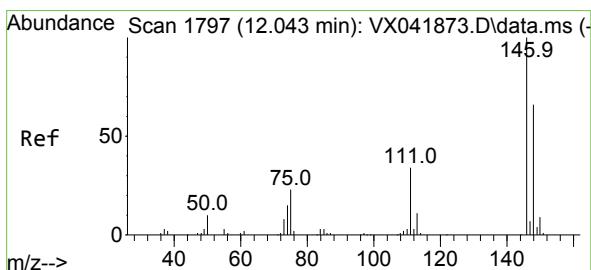
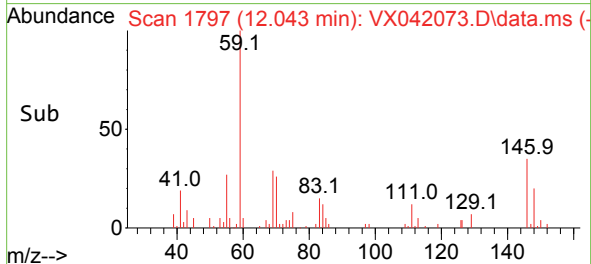
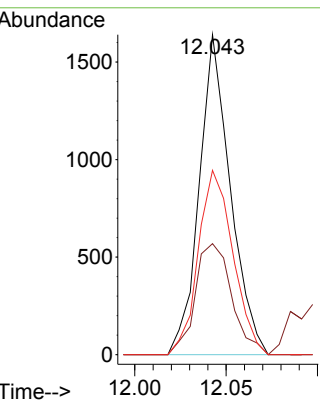
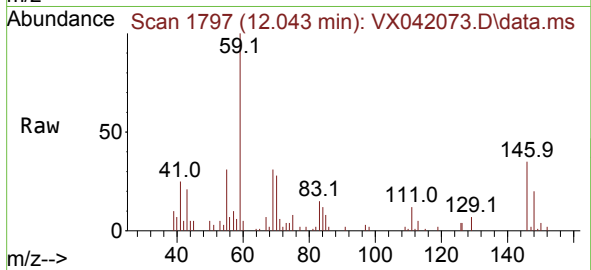
Tgt Ion:146 Resp: 1948

Ion Ratio Lower Upper

146 100

111 40.7 18.0 54.0

148 64.3 31.9 95.7



#84

1,4-Dichlorobenzene

Concen: 0.474 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX042073.D

Acq: 27 Jun 2024 14:38

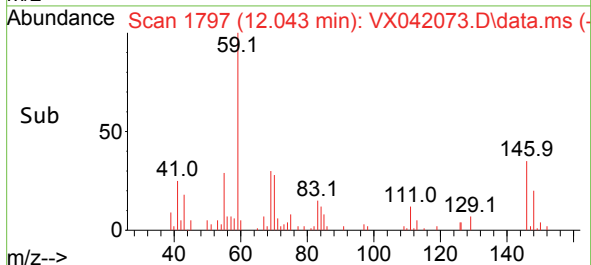
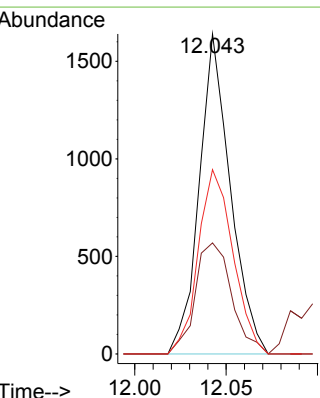
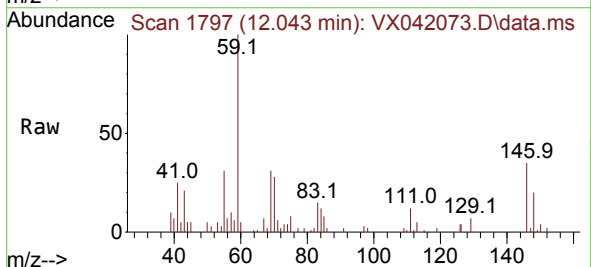
Tgt Ion:146 Resp: 1948

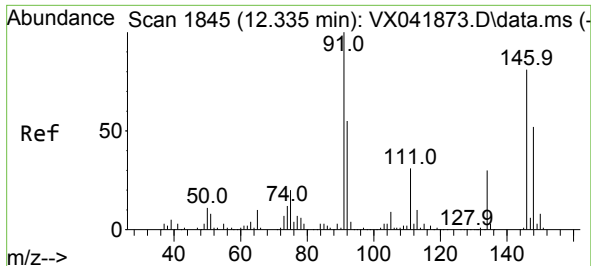
Ion Ratio Lower Upper

146 100

111 40.7 17.4 52.3

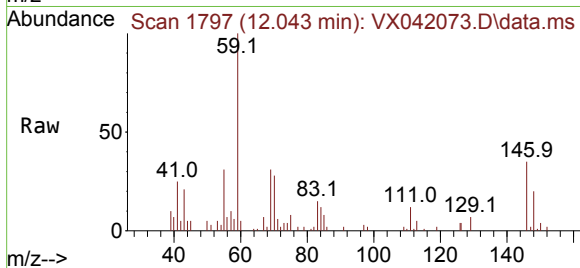
148 64.3 32.3 96.9



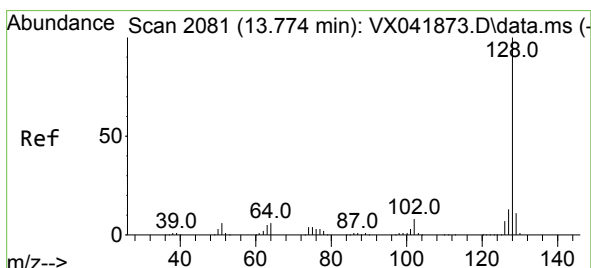
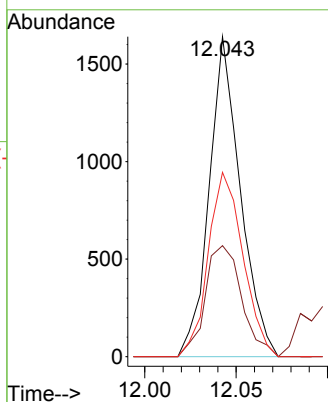
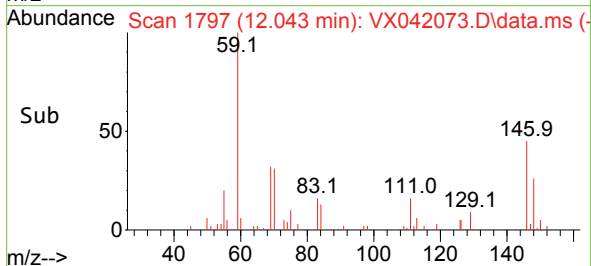


#87
1,2-Dichlorobenzene
Concen: 0.467 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.293 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:146 Resp: 1948
Ion Ratio Lower Upper
146 100
111 40.7 19.1 57.3
148 64.3 32.4 97.0



#91
Naphthalene
Concen: 1.055 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX042073.D
Acq: 27 Jun 2024 14:38

Tgt Ion:128 Resp: 8999
Ion Ratio Lower Upper
128 100
127 13.2 10.4 15.6
129 10.7 8.7 13.1

