

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032123\
 Data File : VX034654.D
 Acq On : 21 Mar 2023 15:03
 Operator : JC/MD
 Sample : 02013-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 217

Quant Time: Mar 22 02:05:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X031023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 13 10:29:32 2023
 Response via : Initial Calibration

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

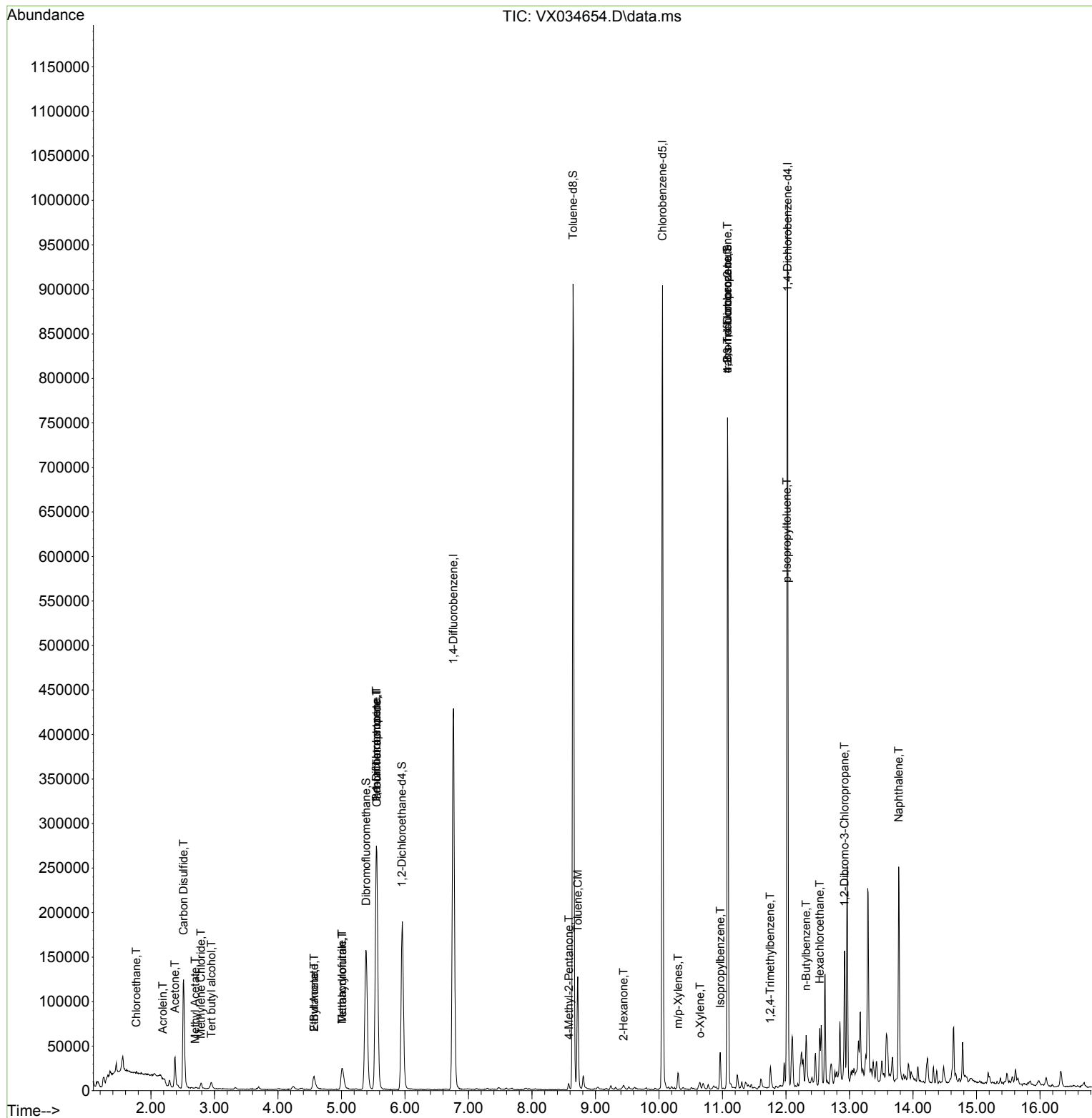
Internal Standards						
1) Pentafluorobenzene	5.550	168	257768	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	431497	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	386522	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	192439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	172035	45.876	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	91.760%
35) Dibromofluoromethane	5.385	113	137185	48.153	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.300%
50) Toluene-d8	8.647	98	524280	49.296	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.600%
62) 4-Bromofluorobenzene	11.079	95	198312	46.164	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	92.320%
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	453	Below Cal	#	58
6) Chloroethane	1.770	64	1172	0.622	ug/l	90
11) Tert butyl alcohol	2.953	59	6442	8.249	ug/l	100
13) Acrolein	2.185	56	304	0.492	ug/l #	1
16) Acetone	2.380	43	36309	20.555	ug/l	99
17) Carbon Disulfide	2.514	76	145417	18.311	ug/l	99
18) Methyl Acetate	2.697	43	1352	0.234	ug/l #	79
20) Methylene Chloride	2.788	84	2786	0.813	ug/l #	94
25) 2-Butanone	4.568	43	21570	8.534	ug/l #	89
29) Tetrahydrofuran	5.013	42	22951	14.716	ug/l	96
36) 1,1-Dichloropropene	5.550	75	20832	4.761	ug/l #	51
37) Ethyl Acetate	4.568	43	21570	4.512	ug/l #	71
38) Carbon Tetrachloride	5.556	117	26017	5.977	ug/l #	16
41) Methacrylonitrile	5.007	41	13189	5.034	ug/l #	46
51) 4-Methyl-2-Pentanone	8.580	43	4500	0.958	ug/l	95
52) Toluene	8.720	92	45472	5.738	ug/l	98
59) 2-Hexanone	9.439	43	2957	0.814	ug/l	99
68) m/p-Xylenes	10.299	106	4287	0.735	ug/l	100
69) o-Xylene	10.647	106	1311	0.224	ug/l	96
73) Isopropylbenzene	10.964	105	21190	1.425	ug/l	96
76) 1,2,3-Trichloropropane	11.079	75	104397	23.627	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	104397	63.917	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.750	105	9325	0.731	ug/l	99
86) p-Isopropyltoluene	12.012	119	13942	1.079	ug/l	97
89) n-Butylbenzene	12.317	91	6934	0.604	ug/l #	24
90) Hexachloroethane	12.530	117	2573	1.076	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	12.921	75	564	0.500	ug/l #	5
95) Naphthalene	13.774	128	136687	9.647	ug/l	99

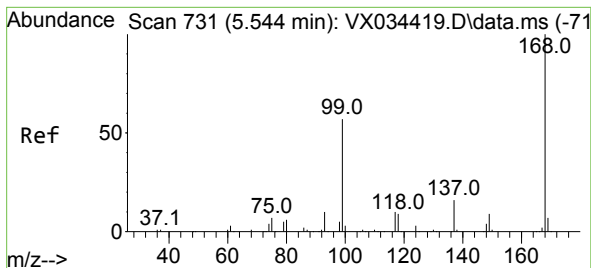
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032123\
Data File : VX034654.D
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X031023W.M
Quant Title : SW846 8260
QLast Update : Mon Mar 13 10:29:32 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 71

Delta R.T. 0.006 min

Lab File: VX034654.D

Acq: 21 Mar 2023 15:03

Instrument :

MSVOA_X

ClientSampleId :

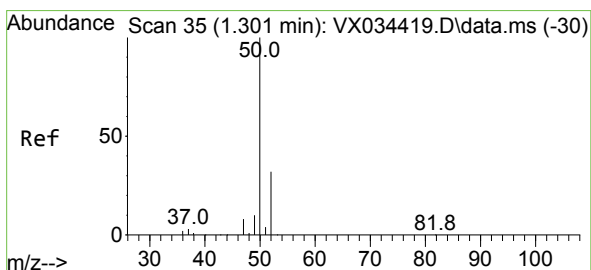
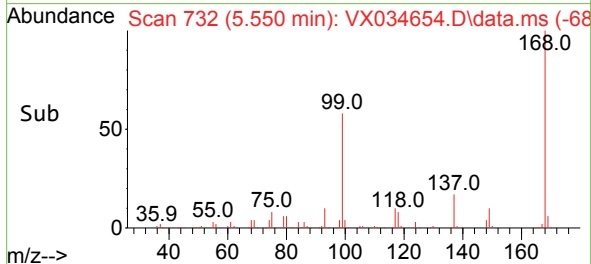
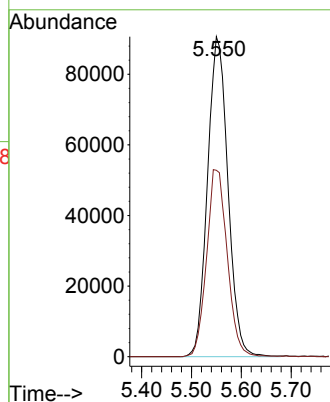
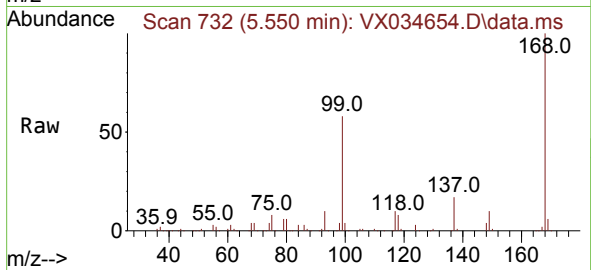
217

Tgt Ion:168 Resp: 257768

Ion Ratio Lower Upper

168 100

99 58.3 45.7 68.5



#3

Chloromethane

Concen: Below Cal

RT: 1.301 min Scan# 35

Delta R.T. -0.000 min

Lab File: VX034654.D

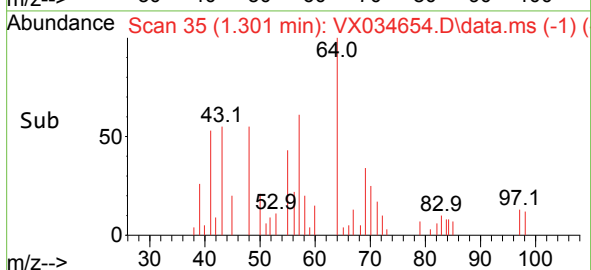
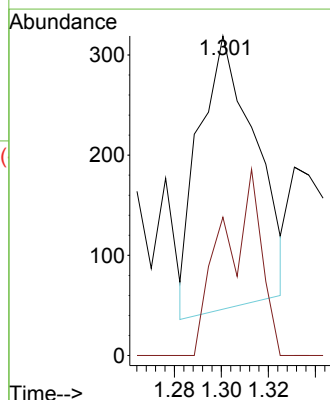
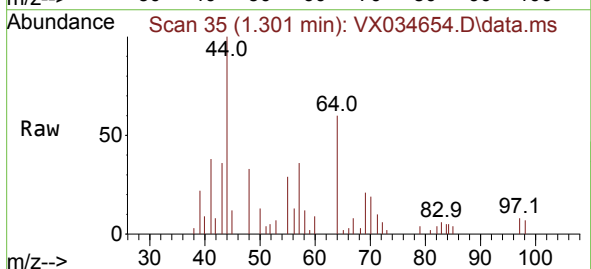
Acq: 21 Mar 2023 15:03

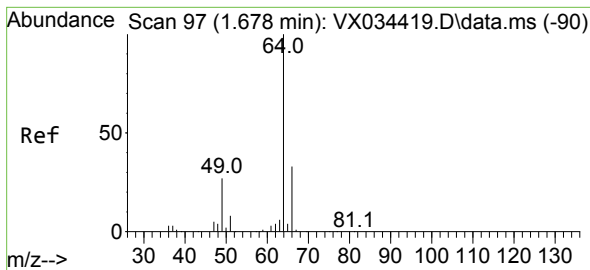
Tgt Ion: 50 Resp: 453

Ion Ratio Lower Upper

50 100

52 56.1 25.9 38.9#





#6

Chloroethane

Concen: 0.622 ug/l

RT: 1.770 min Scan# 11

Delta R.T. 0.092 min

Lab File: VX034654.D

Acq: 21 Mar 2023 15:03

Instrument :

MSVOA_X

ClientSampleId :

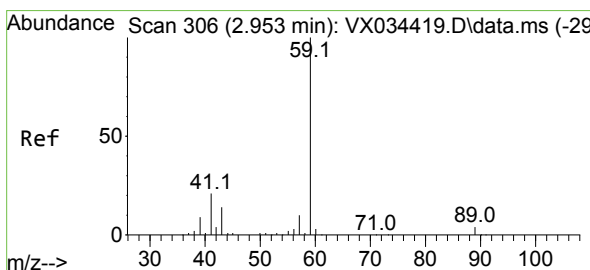
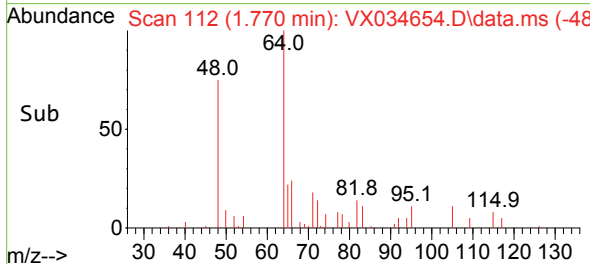
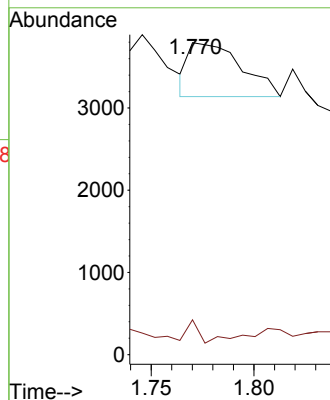
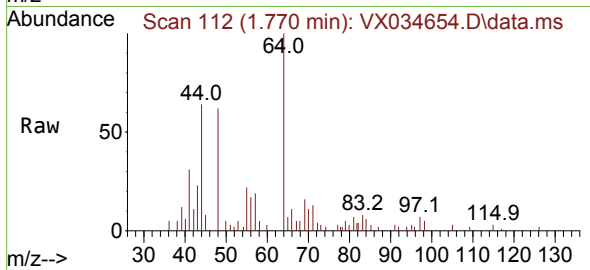
217

Tgt Ion: 64 Resp: 1172

Ion Ratio Lower Upper

64 100

66 38.3 26.2 39.4



#11

Tert butyl alcohol

Concen: 8.249 ug/l

RT: 2.953 min Scan# 306

Delta R.T. 0.000 min

Lab File: VX034654.D

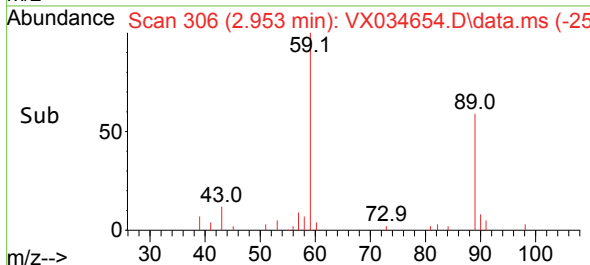
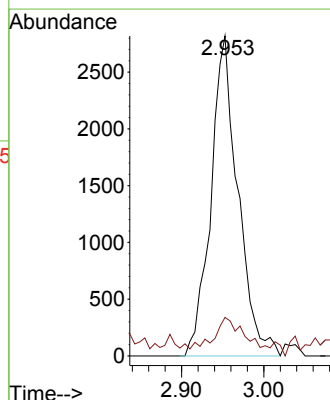
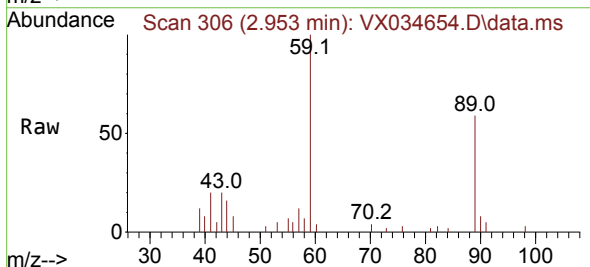
Acq: 21 Mar 2023 15:03

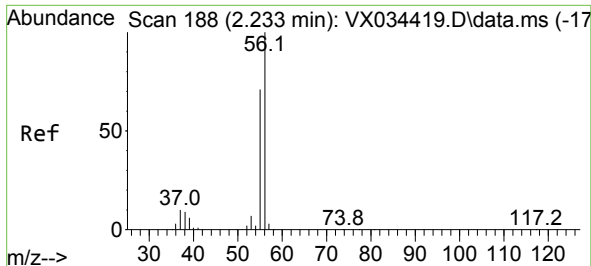
Tgt Ion: 59 Resp: 6442

Ion Ratio Lower Upper

59 100

57 10.0 8.1 12.1

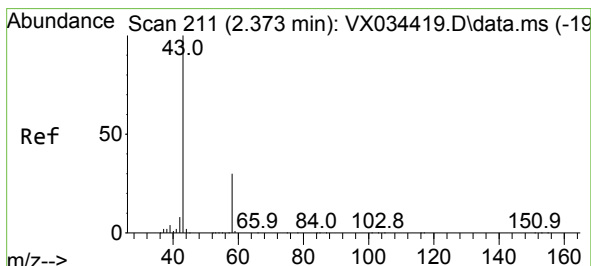
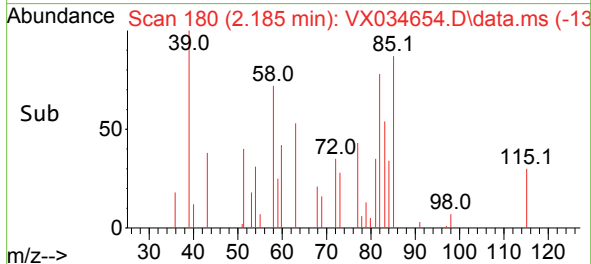
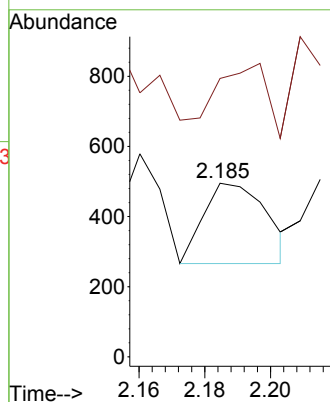
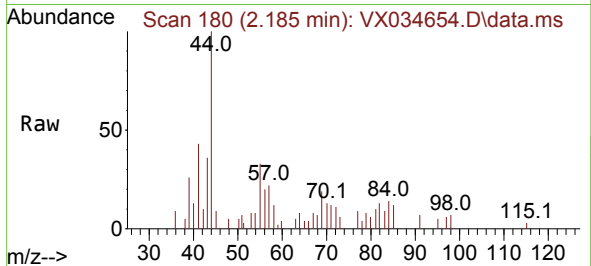




#13
Acrolein
Concen: 0.492 ug/l
RT: 2.185 min Scan# 117
Delta R.T. -0.048 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

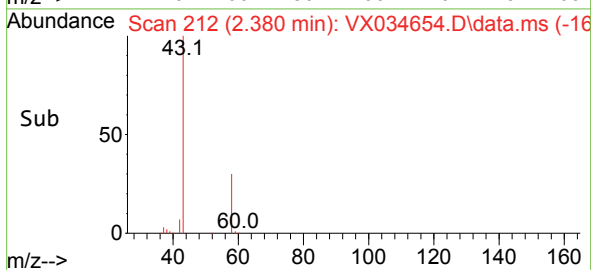
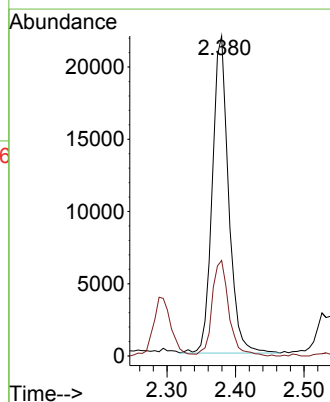
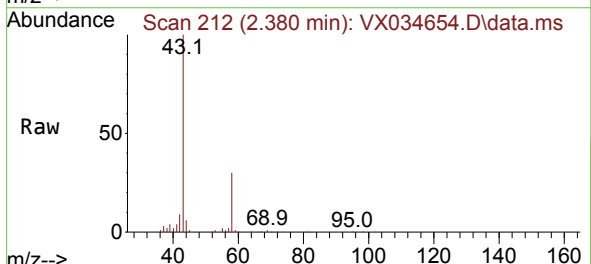
Instrument :
MSVOA_X
ClientSampleId :
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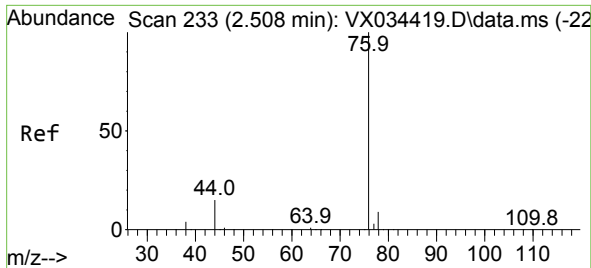
Tgt Ion: 56 Resp: 304
Ion Ratio Lower Upper
56 100
55 157.9 56.6 85.0#



#16
Acetone
Concen: 20.555 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion: 43 Resp: 36309
Ion Ratio Lower Upper
43 100
58 30.1 24.7 37.1

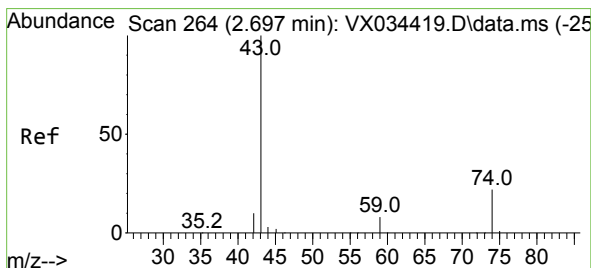
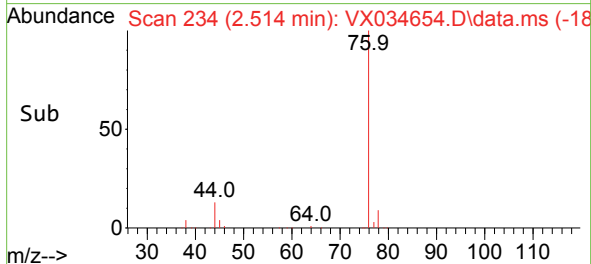
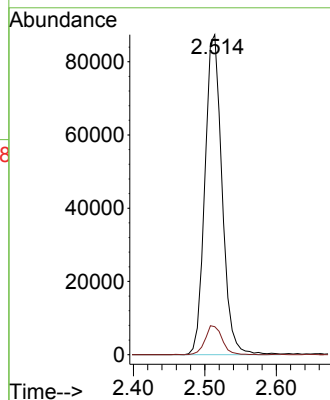
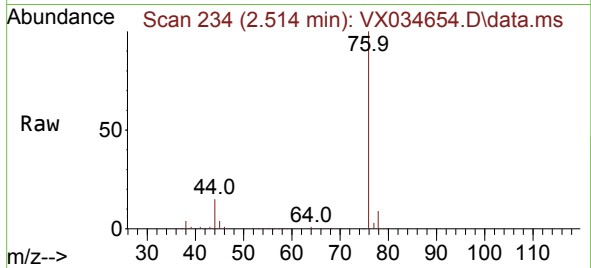




#17
Carbon Disulfide
Concen: 18.311 ug/l
RT: 2.514 min Scan# 217
Delta R.T. 0.006 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

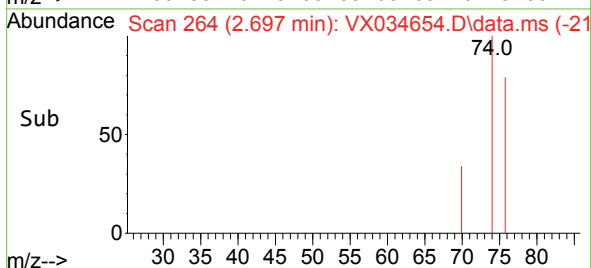
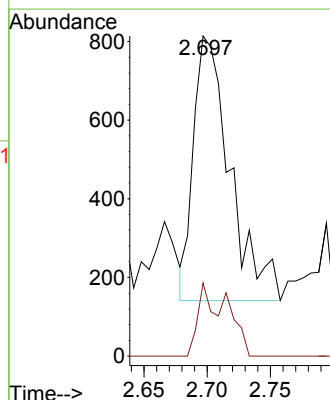
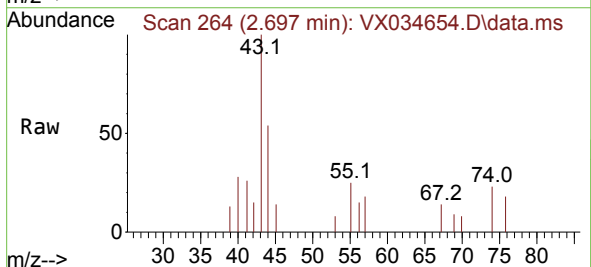
Instrument :
MSVOA_X
ClientSampleId :
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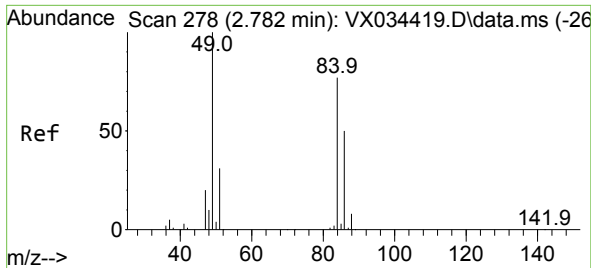
Tgt Ion: 76 Resp: 145417
Ion Ratio Lower Upper
76 100
78 8.7 7.2 10.8



#18
Methyl Acetate
Concen: 0.234 ug/l
RT: 2.697 min Scan# 264
Delta R.T. 0.000 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion: 43 Resp: 1352
Ion Ratio Lower Upper
43 100
74 12.6 18.3 27.5#

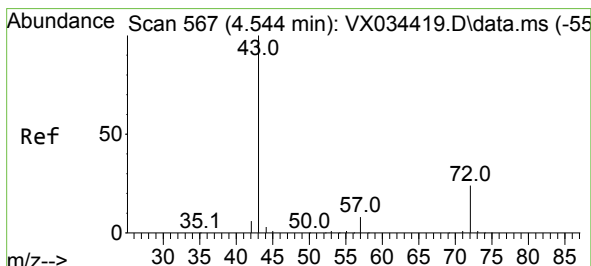
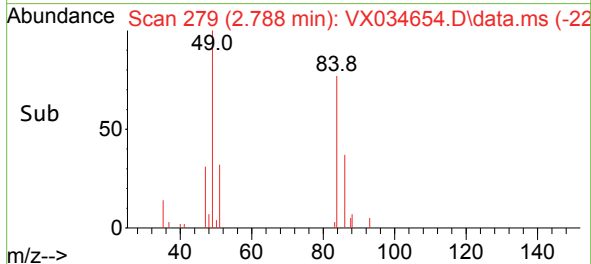
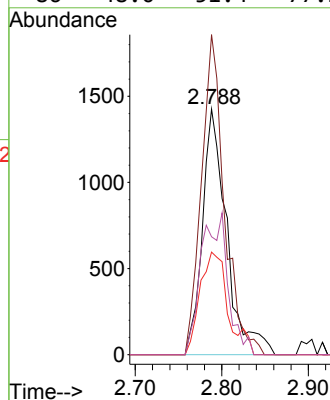
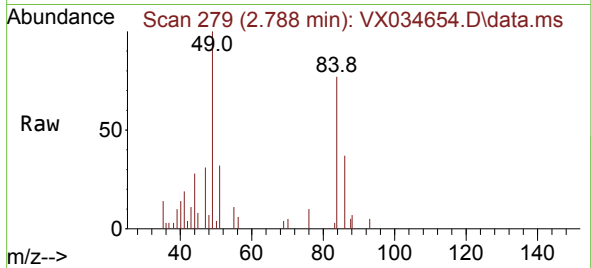




#20
Methylene Chloride
Concen: 0.813 ug/l
RT: 2.788 min Scan# 217
Delta R.T. 0.006 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

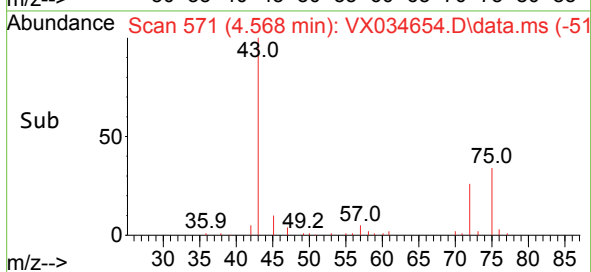
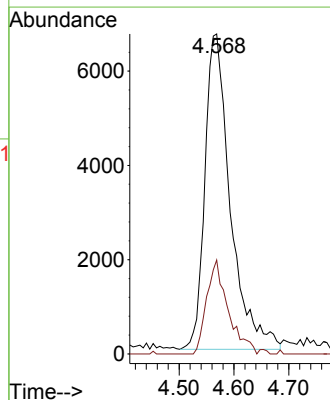
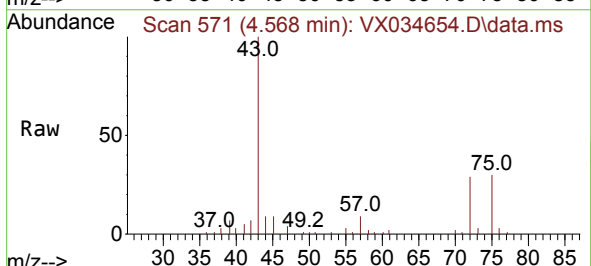
Instrument :
MSVOA_X
ClientSampleId :
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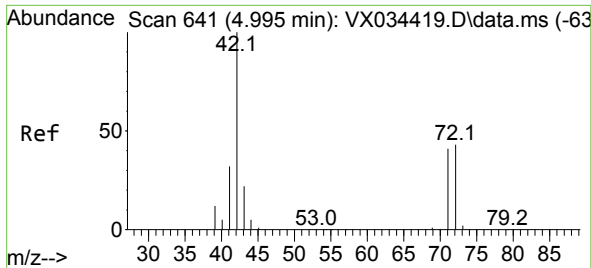
Tgt Ion:	84	Resp:	2786
Ion	Ratio	Lower	Upper
84	100		
49	130.3	103.8	155.8
51	41.7	31.8	47.8
86	48.0	51.4	77.2



#25
2-Butanone
Concen: 8.534 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.025 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion:	43	Resp:	21570
Ion	Ratio	Lower	Upper
43	100		
72	29.8	19.3	28.9





#29

Tetrahydrofuran

Concen: 14.716 ug/l

RT: 5.013 min Scan# 641

Delta R.T. 0.018 min

Lab File: VX034654.D

Acq: 21 Mar 2023 15:03

Instrument :

MSVOA_X

ClientSampleId :

217

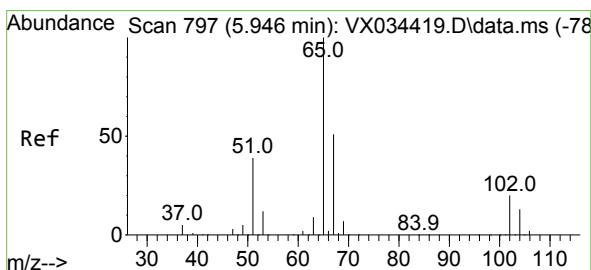
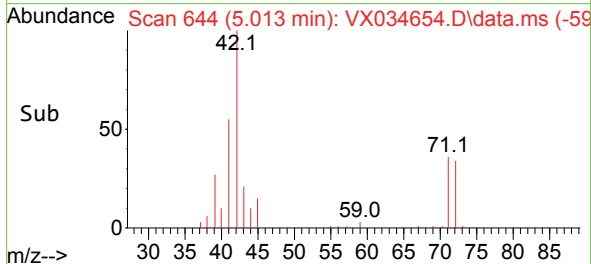
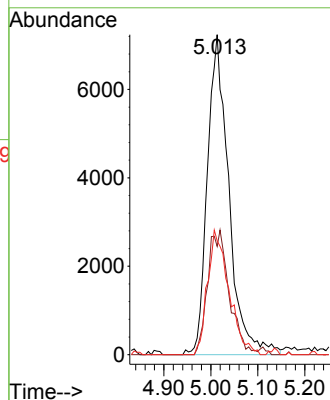
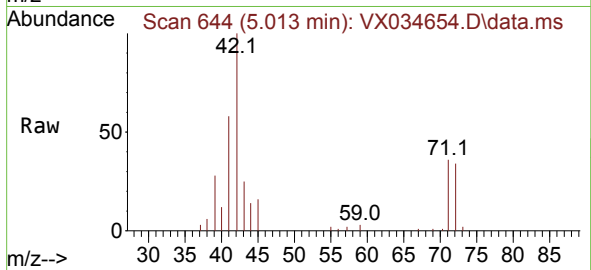
Tgt Ion: 42 Resp: 22951

Ion Ratio Lower Upper

42 100

72 39.3 34.5 51.7

71 38.8 32.1 48.1



#33

1,2-Dichloroethane-d4

Concen: 45.876 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX034654.D

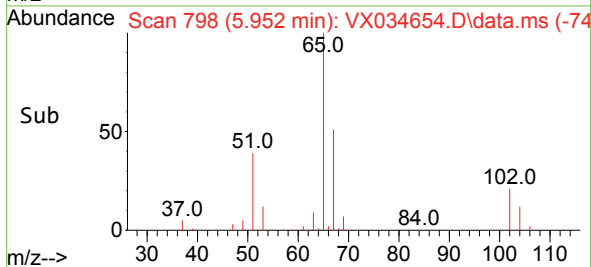
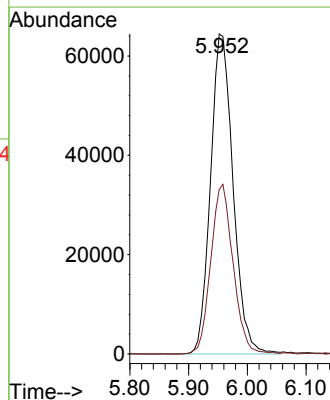
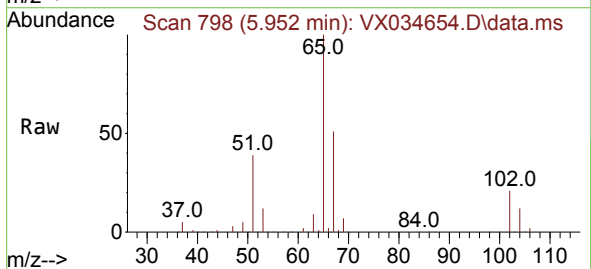
Acq: 21 Mar 2023 15:03

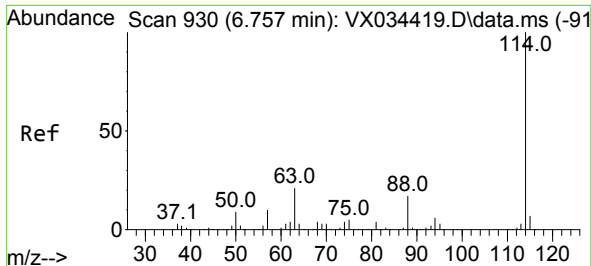
Tgt Ion: 65 Resp: 172035

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.0

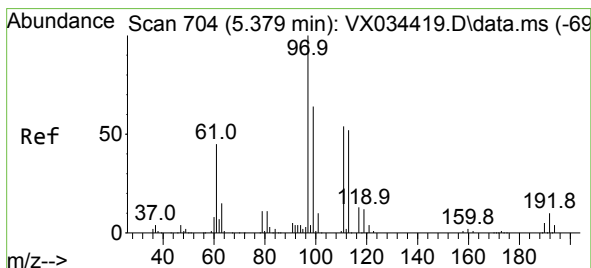
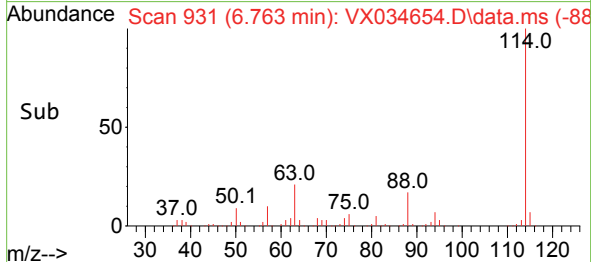
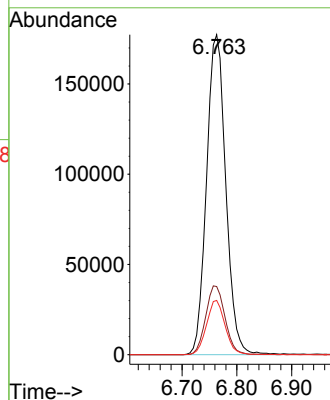
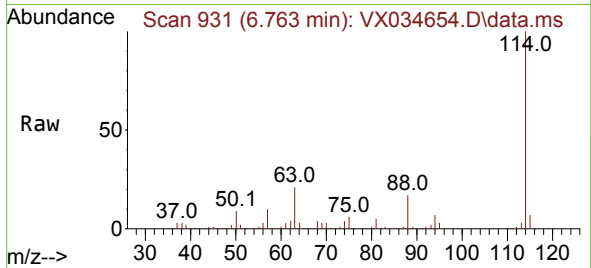




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

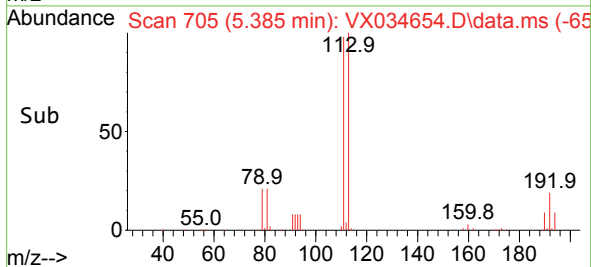
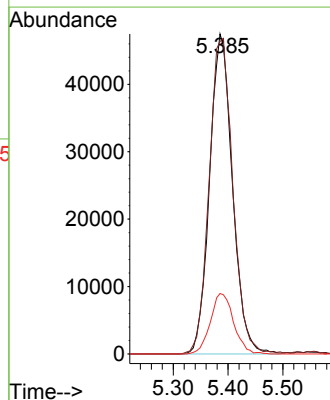
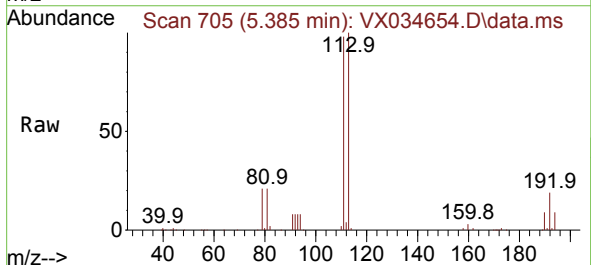
Instrument :
MSVOA_X
ClientSampleId :
217

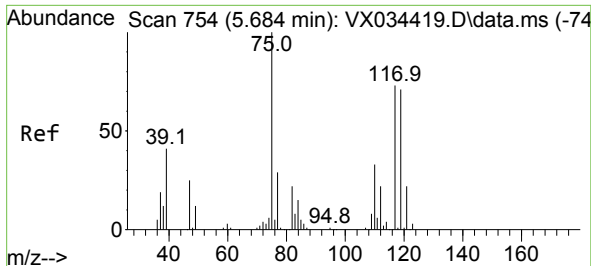
Tgt Ion:114 Resp: 431497
Ion Ratio Lower Upper
114 100
63 21.3 0.0 42.2
88 17.0 0.0 33.2



#35
Dibromofluoromethane
Concen: 48.153 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion:113 Resp: 137185
Ion Ratio Lower Upper
113 100
111 102.3 83.7 125.5
192 19.3 15.4 23.2

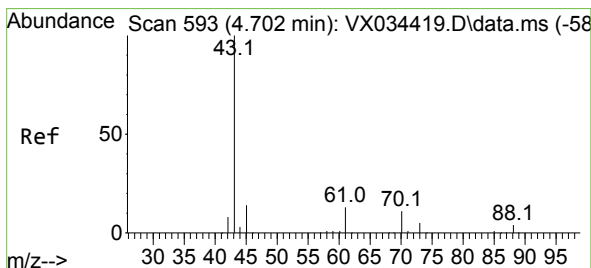
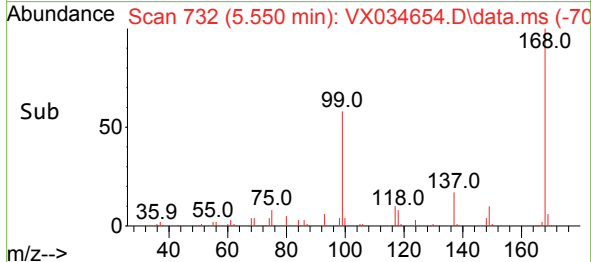
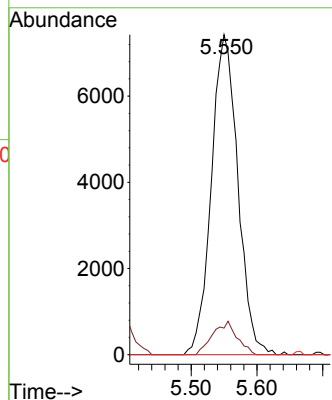
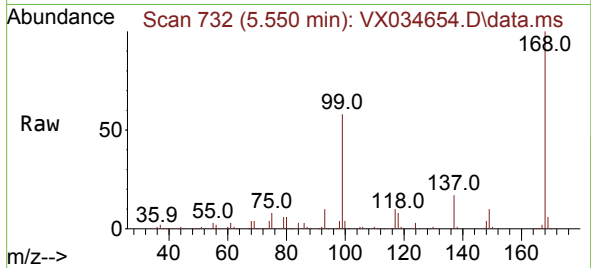




#36
1,1-Dichloropropene
Concen: 4.761 ug/l
RT: 5.550 min Scan# 717
Delta R.T. -0.134 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

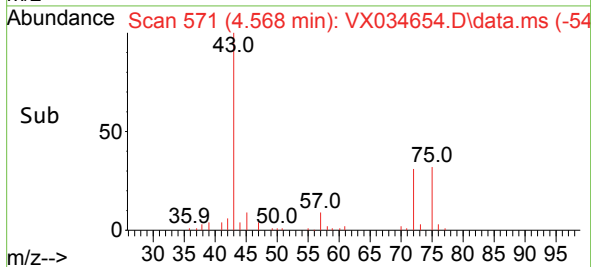
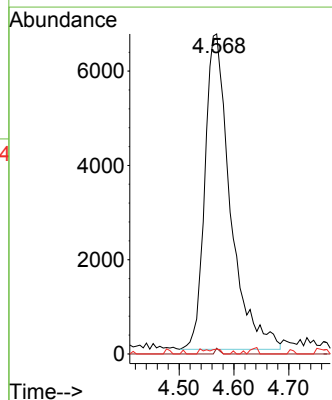
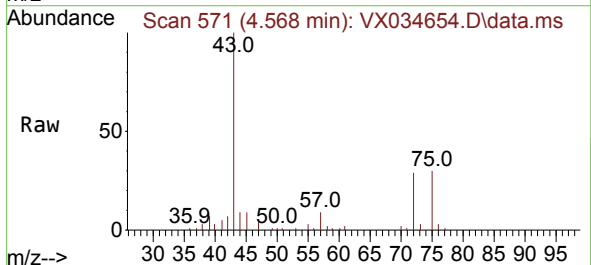
Instrument :
MSVOA_X
ClientSampleId :
217

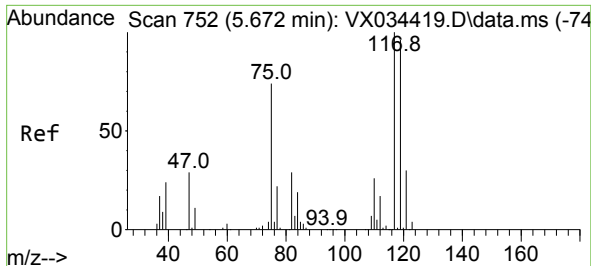
Tgt Ion: 75 Resp: 20832
Ion Ratio Lower Upper
75 100
110 9.6 17.5 52.5#
77 0.0 24.3 36.5#



#37
Ethyl Acetate
Concen: 4.512 ug/l
RT: 4.568 min Scan# 571
Delta R.T. -0.134 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

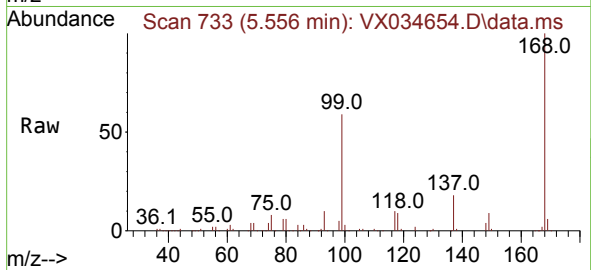
Tgt Ion: 43 Resp: 21570
Ion Ratio Lower Upper
43 100
61 0.3 10.2 15.4#
70 0.5 8.2 12.4#



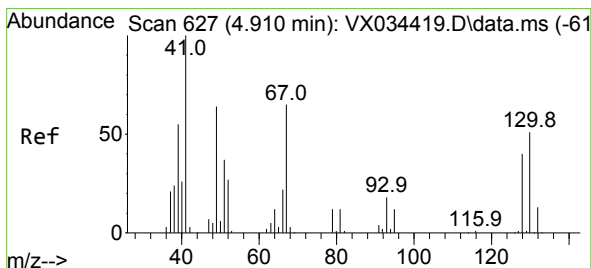
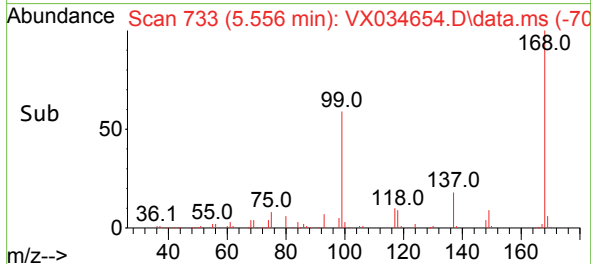
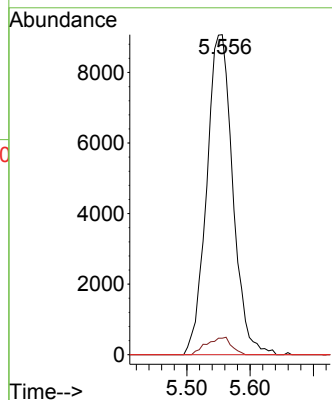


#38
Carbon Tetrachloride
Concen: 5.977 ug/l
RT: 5.556 min Scan# 717
Delta R.T. -0.116 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Instrument :
MSVOA_X
ClientSampleId :
217

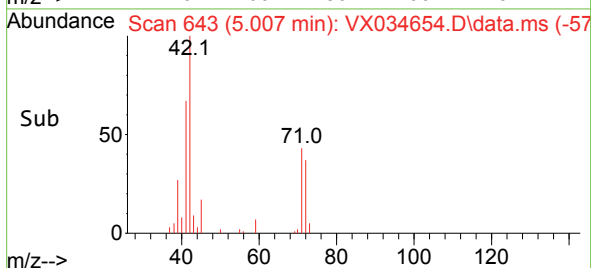
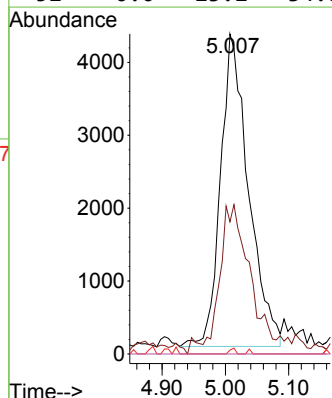
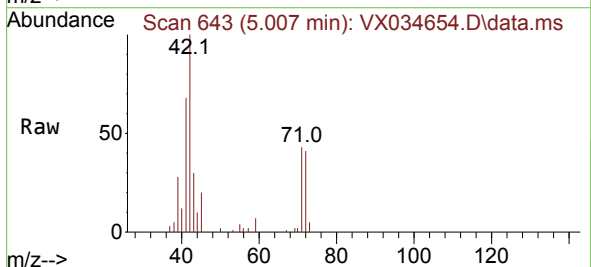


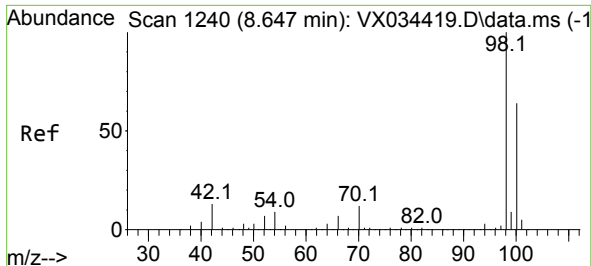
Tgt Ion: 117 Resp: 26017
Ion Ratio Lower Upper
117 100
119 5.1 76.6 114.8#
121 0.0 23.8 35.6#



#41
Methacrylonitrile
Concen: 5.034 ug/l
RT: 5.007 min Scan# 643
Delta R.T. 0.098 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion: 41 Resp: 13189
Ion Ratio Lower Upper
41 100
39 43.6 45.0 67.6#
67 0.4 55.6 83.4#
52 0.0 23.2 34.8#

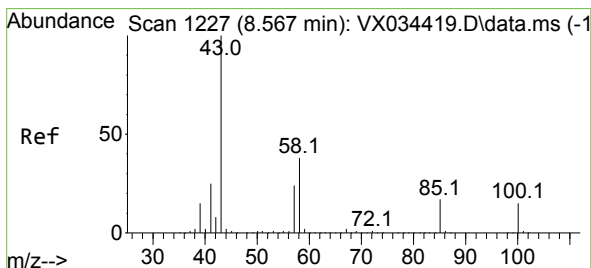
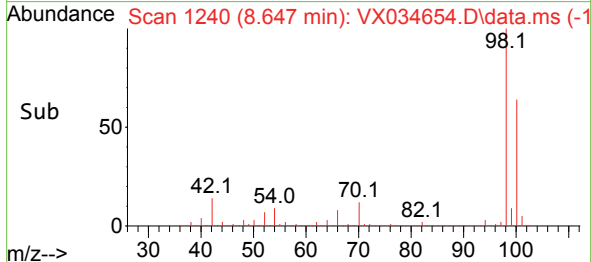
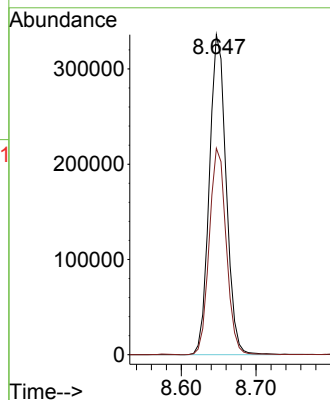
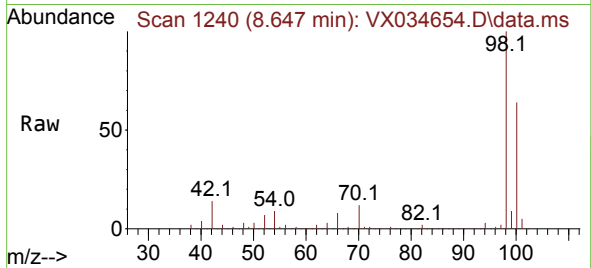




#50
Toluene-d8
Concen: 49.296 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

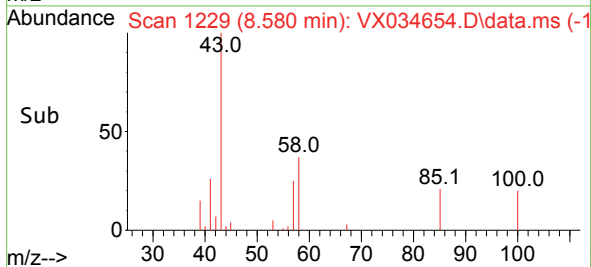
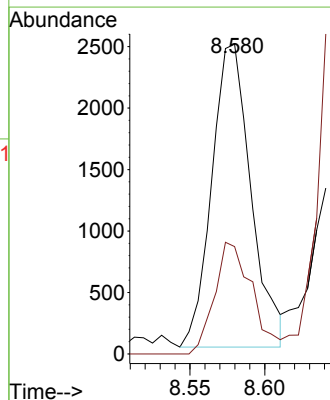
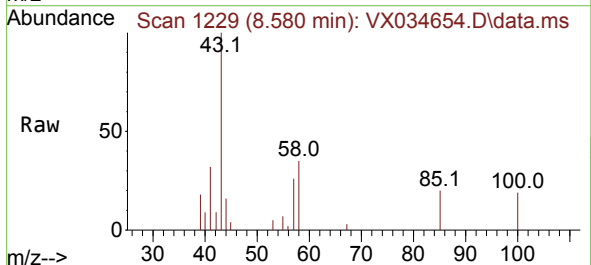
Instrument :
MSVOA_X
ClientSampleId :
217

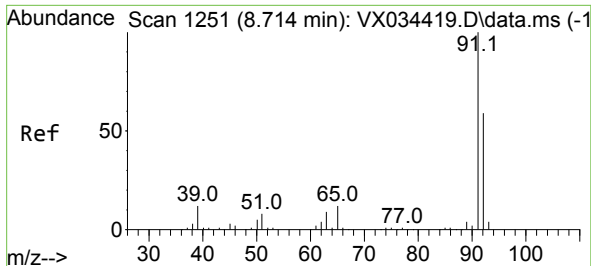
Tgt Ion: 98 Resp: 524280
Ion Ratio Lower Upper
98 100
100 65.2 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.958 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.012 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion: 43 Resp: 4500
Ion Ratio Lower Upper
43 100
58 35.4 30.6 46.0

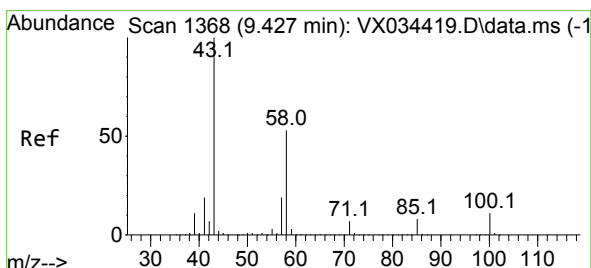
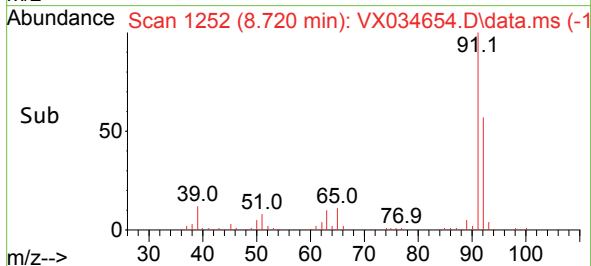
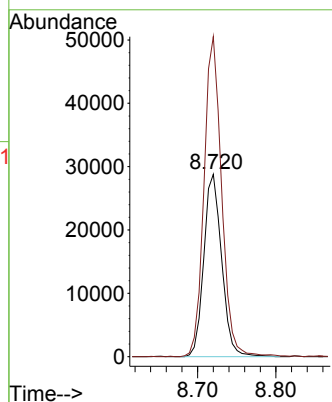
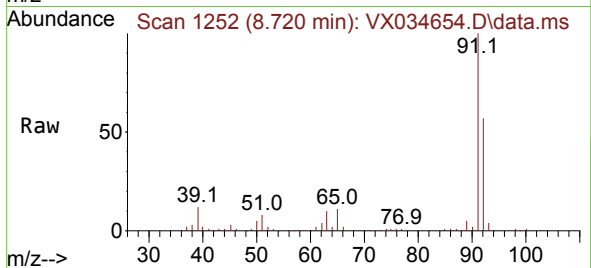




#52
Toluene
Concen: 5.738 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

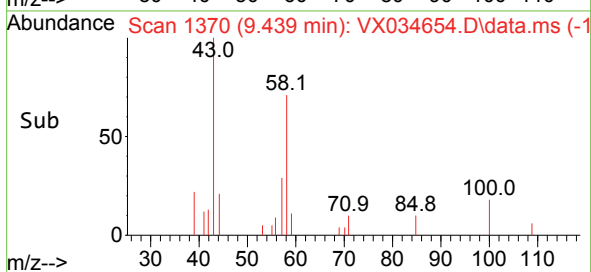
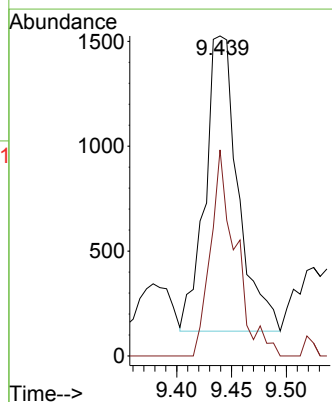
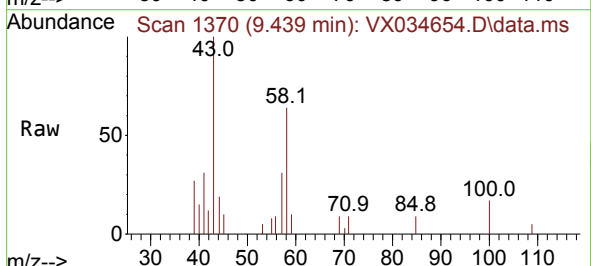
Instrument :
MSVOA_X
ClientSampleId :
217

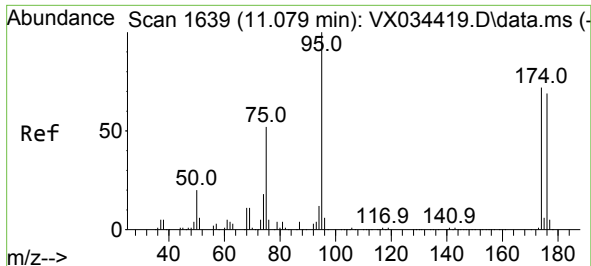
Tgt Ion: 92 Resp: 45472
Ion Ratio Lower Upper
92 100
91 173.8 136.8 205.2



#59
2-Hexanone
Concen: 0.814 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.012 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion: 43 Resp: 2957
Ion Ratio Lower Upper
43 100
58 53.2 26.3 78.9

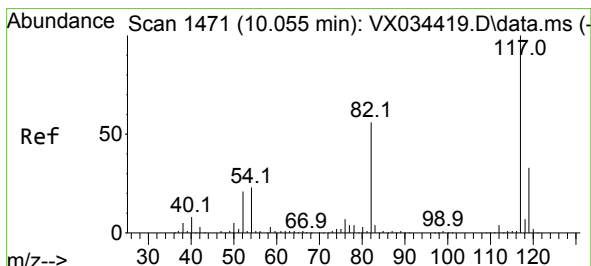
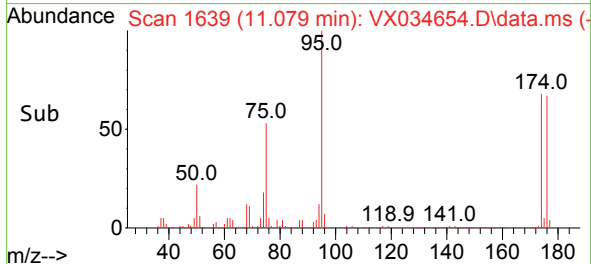
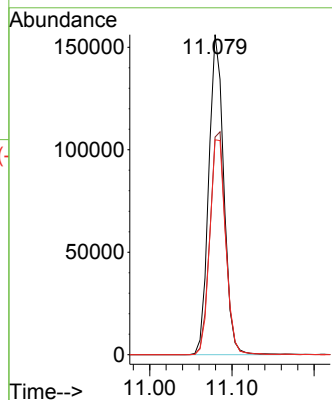
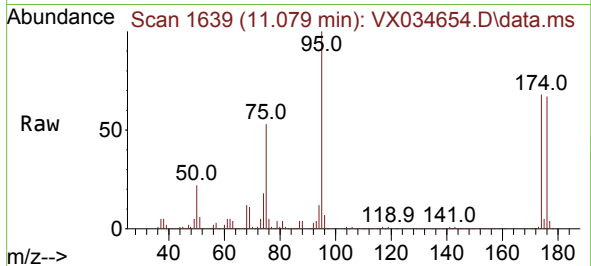




#62
4-Bromofluorobenzene
Concen: 46.164 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

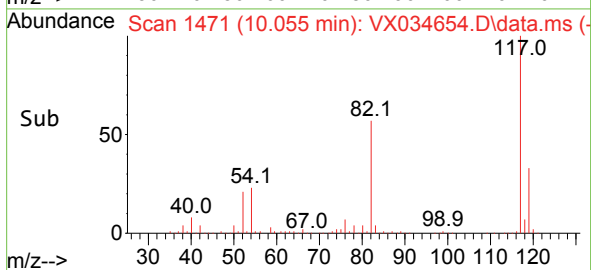
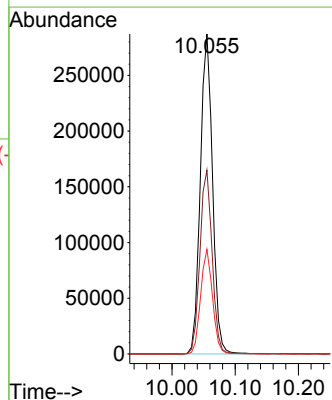
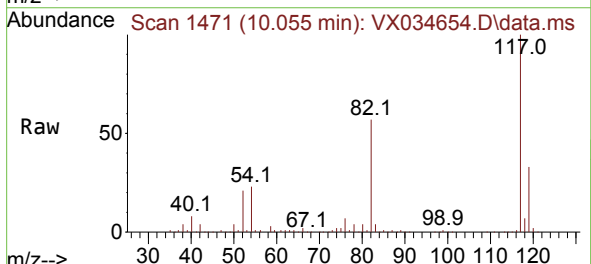
Instrument :
MSVOA_X
ClientSampleId :
217

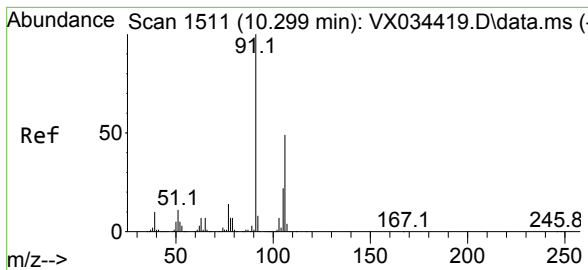
Tgt Ion: 95 Resp: 198312
Ion Ratio Lower Upper
95 100
174 72.6 0.0 147.4
176 70.9 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion: 117 Resp: 386522
Ion Ratio Lower Upper
117 100
82 57.4 45.0 67.4
119 32.7 26.0 39.0

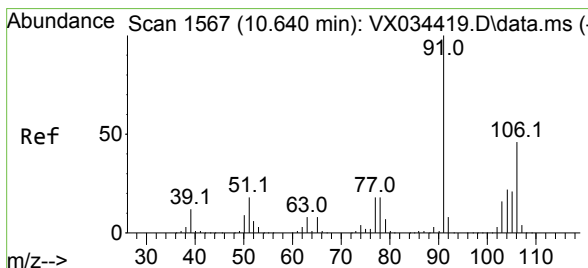
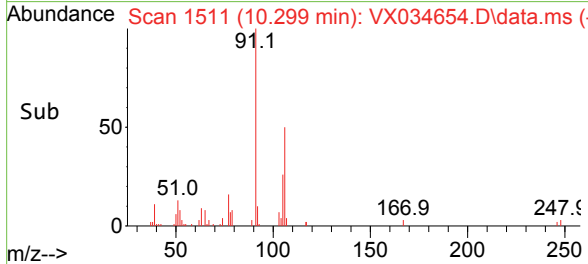
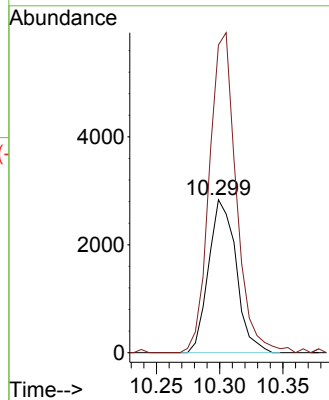
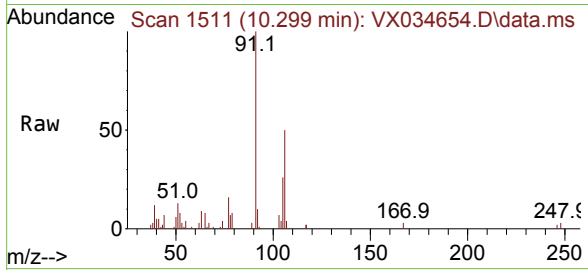




#68
m/p-Xylenes
Concen: 0.735 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

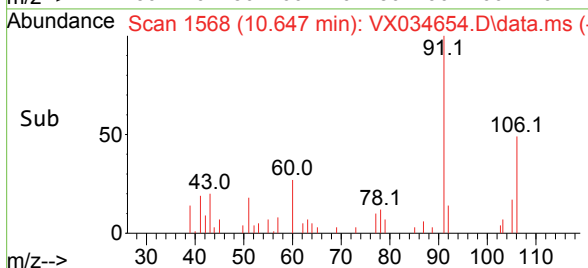
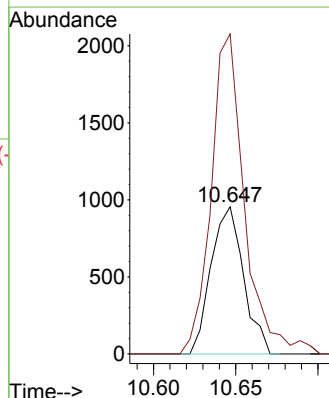
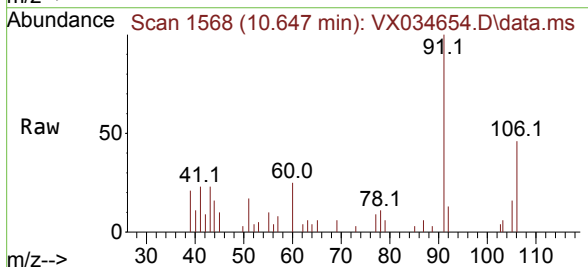
Instrument :
MSVOA_X
ClientSampleId :
217

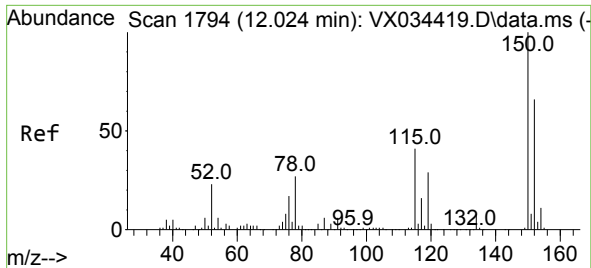
Tgt Ion:106 Resp: 4287
Ion Ratio Lower Upper
106 100
91 204.8 164.0 246.0



#69
o-Xylene
Concen: 0.224 ug/l
RT: 10.647 min Scan# 1568
Delta R.T. 0.006 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion:106 Resp: 1311
Ion Ratio Lower Upper
106 100
91 223.7 108.5 325.3

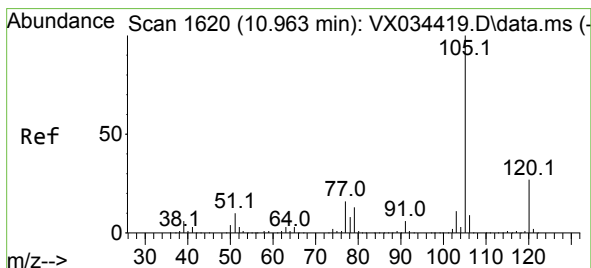
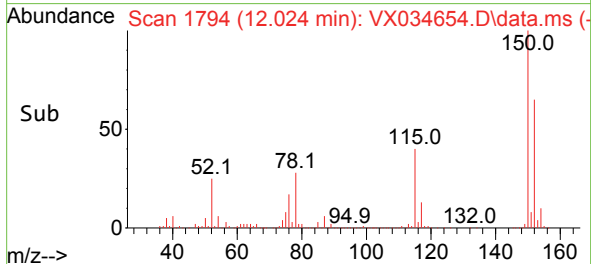
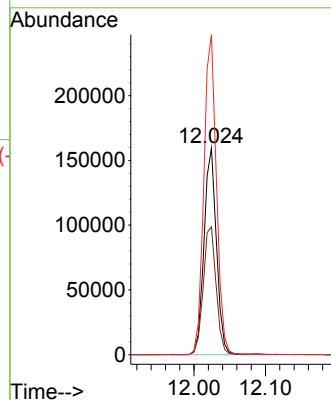
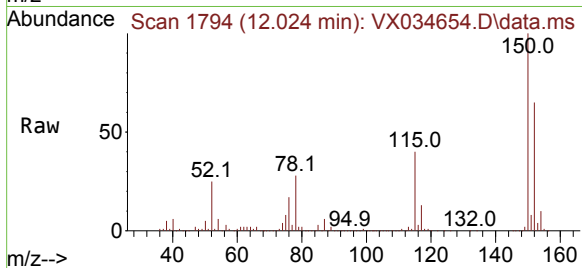




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

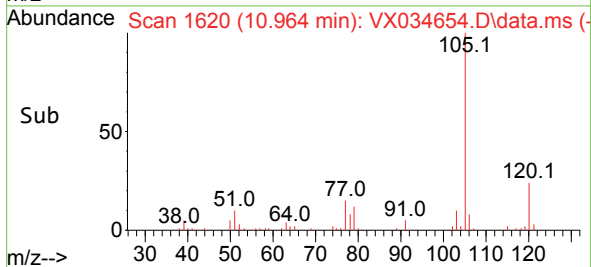
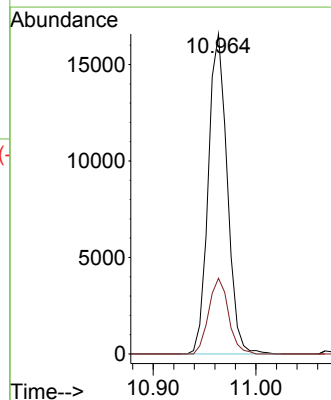
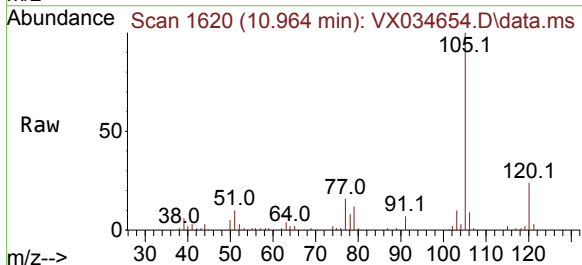
Instrument :
MSVOA_X
ClientSampleId :
217

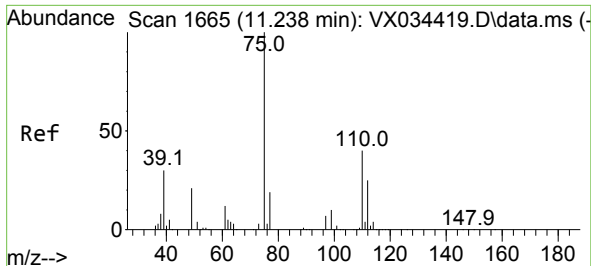
Tgt Ion:152 Resp: 192439
Ion Ratio Lower Upper
152 100
115 64.4 45.0 135.0
150 156.6 0.0 352.4



#73
Isopropylbenzene
Concen: 1.425 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion:105 Resp: 21190
Ion Ratio Lower Upper
105 100
120 24.7 13.3 39.9

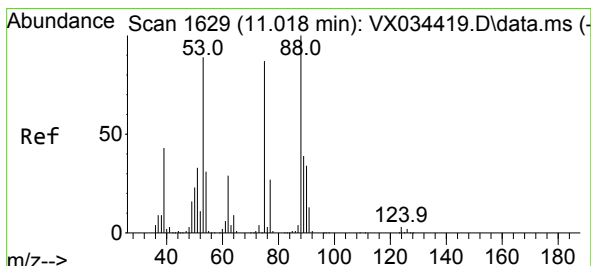
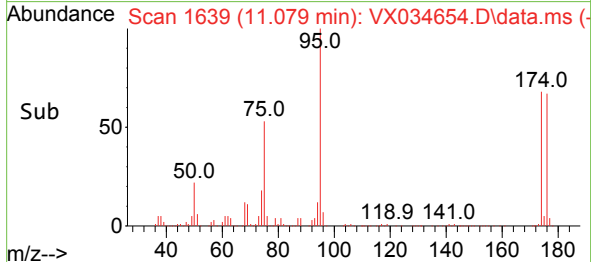
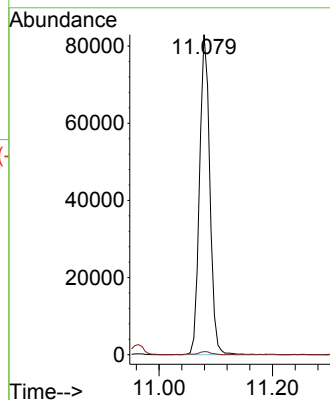
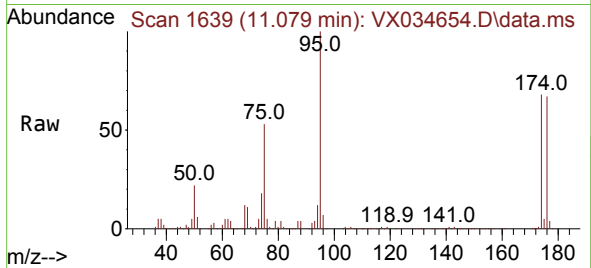




#76
1,2,3-Trichloropropane
Concen: 23.627 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

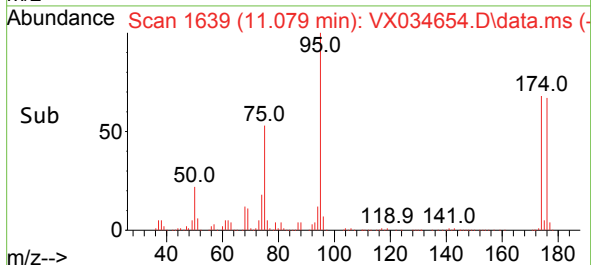
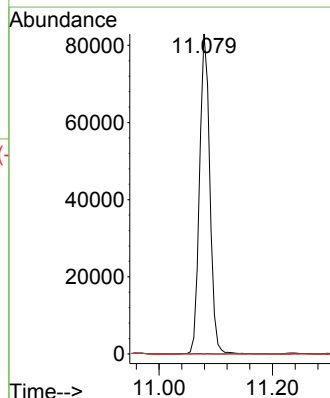
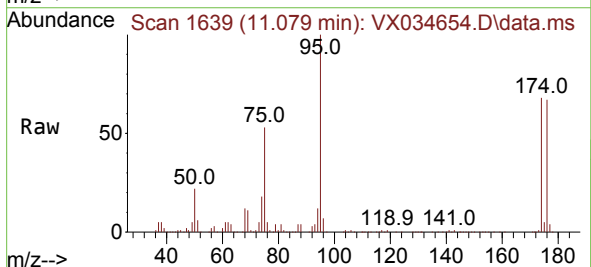
Instrument :
MSVOA_X
ClientSampleId :
217

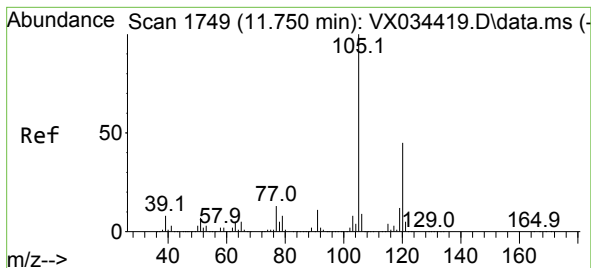
Tgt Ion: 75 Resp: 104397
Ion Ratio Lower Upper
75 100
77 1.3 21.6 64.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.917 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion: 75 Resp: 104397
Ion Ratio Lower Upper
75 100
53 0.1 82.6 124.0#
89 0.0 36.9 55.3#





#84

1,2,4-Trimethylbenzene

Concen: 0.731 ug/l

RT: 11.750 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX034654.D

Acq: 21 Mar 2023 15:03

Instrument :

MSVOA_X

ClientSampleId :

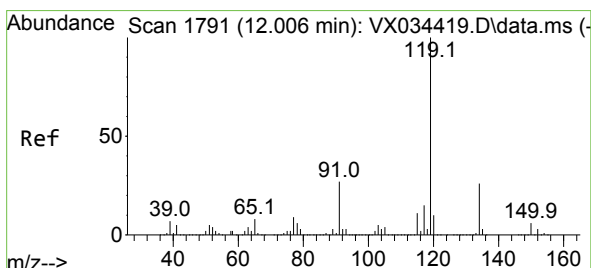
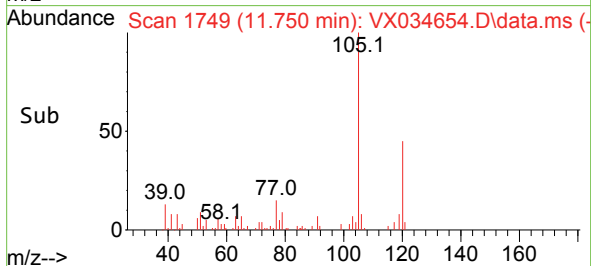
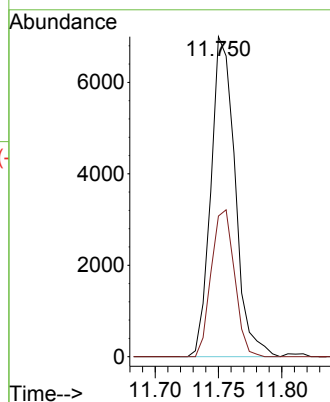
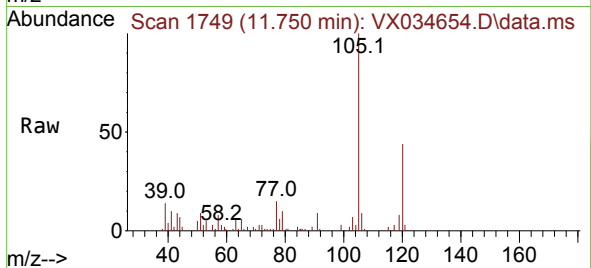
217

Tgt Ion:105 Resp: 9325

Ion Ratio Lower Upper

105 100

120 44.0 22.4 67.0



#86

p-Isopropyltoluene

Concen: 1.079 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX034654.D

Acq: 21 Mar 2023 15:03

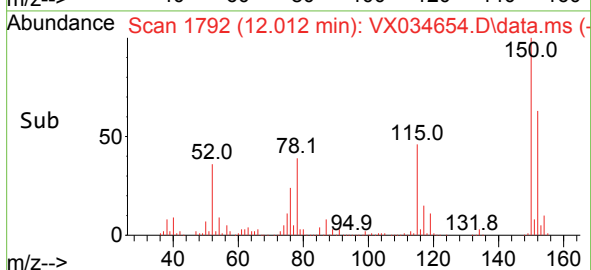
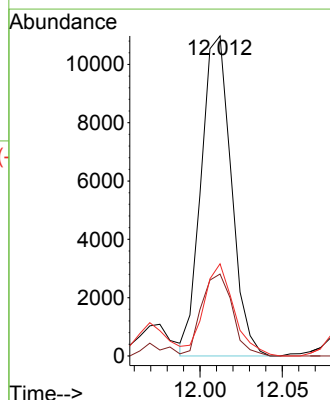
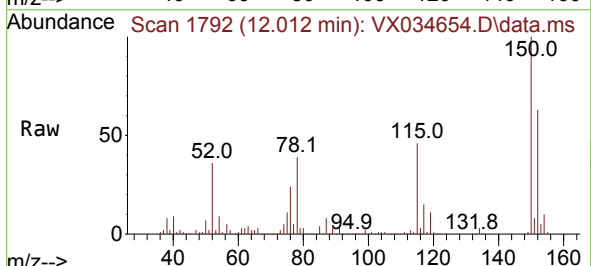
Tgt Ion:119 Resp: 13942

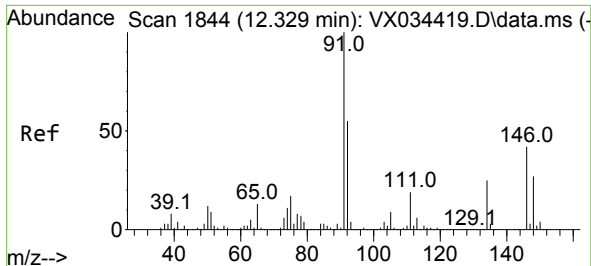
Ion Ratio Lower Upper

119 100

134 26.3 13.2 39.5

91 29.0 12.9 38.7





#89

n-Butylbenzene

Concen: 0.604 ug/l

RT: 12.317 min Scan# 11

Delta R.T. -0.012 min

Lab File: VX034654.D

Acq: 21 Mar 2023 15:03

Instrument :

MSVOA_X

ClientSampleId :

217

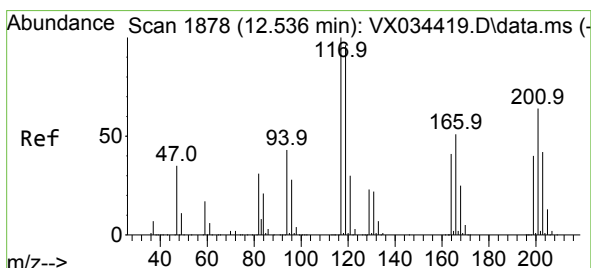
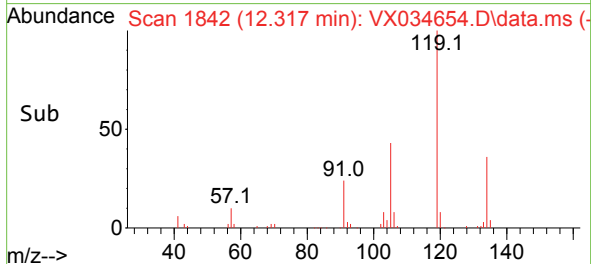
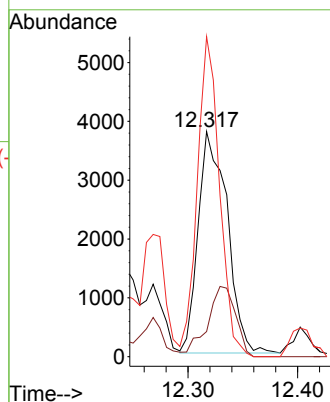
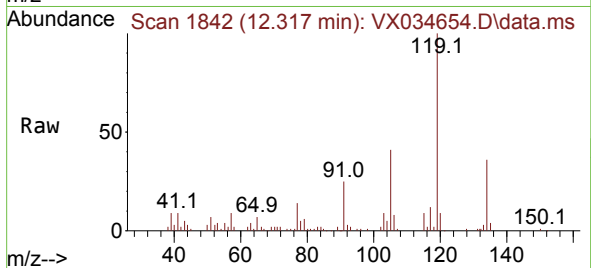
Tgt Ion: 91 Resp: 6934

Ion Ratio Lower Upper

91 100

92 30.8 27.7 83.0

134 110.8 13.0 38.9#



#90

Hexachloroethane

Concen: 1.076 ug/l

RT: 12.530 min Scan# 1877

Delta R.T. -0.006 min

Lab File: VX034654.D

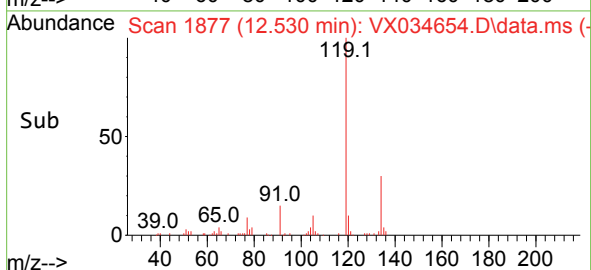
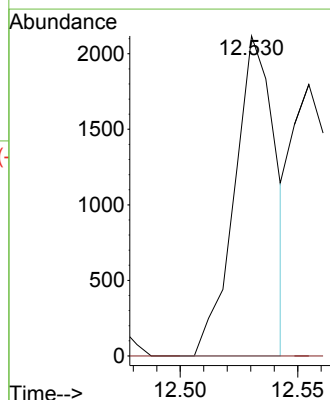
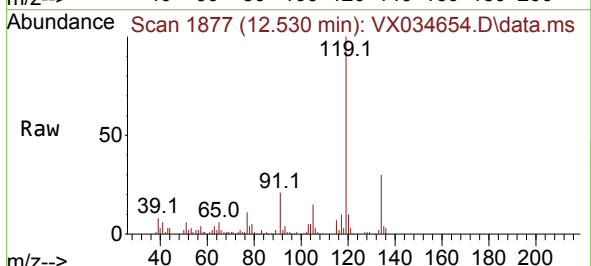
Acq: 21 Mar 2023 15:03

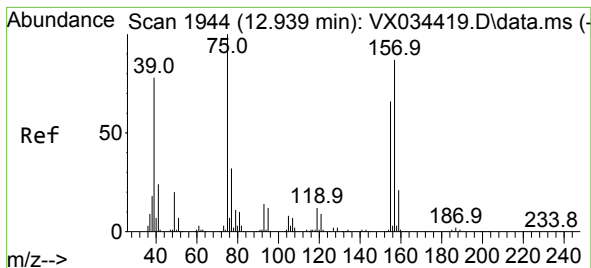
Tgt Ion: 117 Resp: 2573

Ion Ratio Lower Upper

117 100

201 0.0 34.4 103.1#

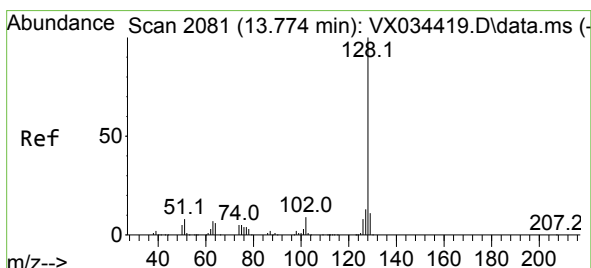
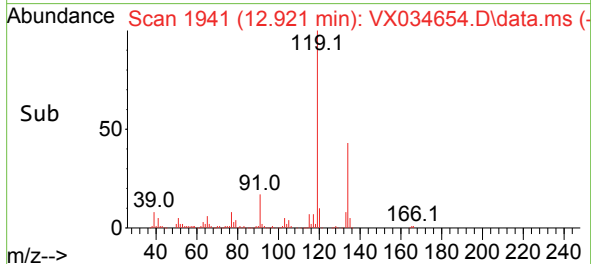
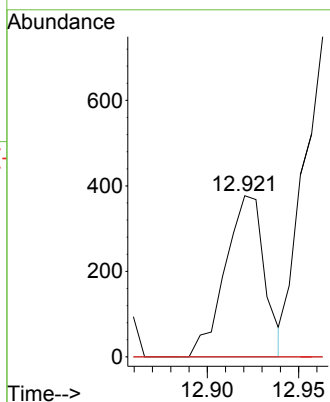
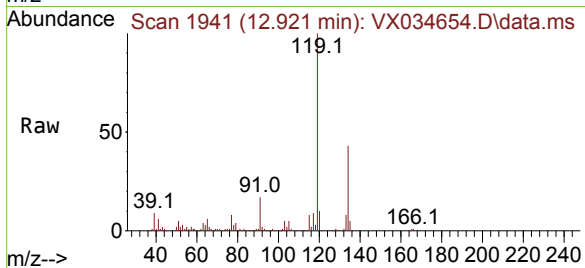




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.500 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. -0.018 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Instrument :
MSVOA_X
ClientSampleId :
217

Tgt Ion: 75 Resp: 564
Ion Ratio Lower Upper
75 100
155 0.0 38.4 115.1#
157 0.0 49.9 149.7#



#95
Naphthalene
Concen: 9.647 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX034654.D
Acq: 21 Mar 2023 15:03

Tgt Ion: 128 Resp: 136687
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.4
129 11.4 8.6 13.0

