

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX073123\
 Data File : VX036721.D
 Acq On : 31 Jul 2023 15:35
 Operator : JC/MD
 Sample : 03808-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1714

Quant Time: Aug 01 04:38:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072123W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 21 12:14:12 2023
 Response via : Initial Calibration

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

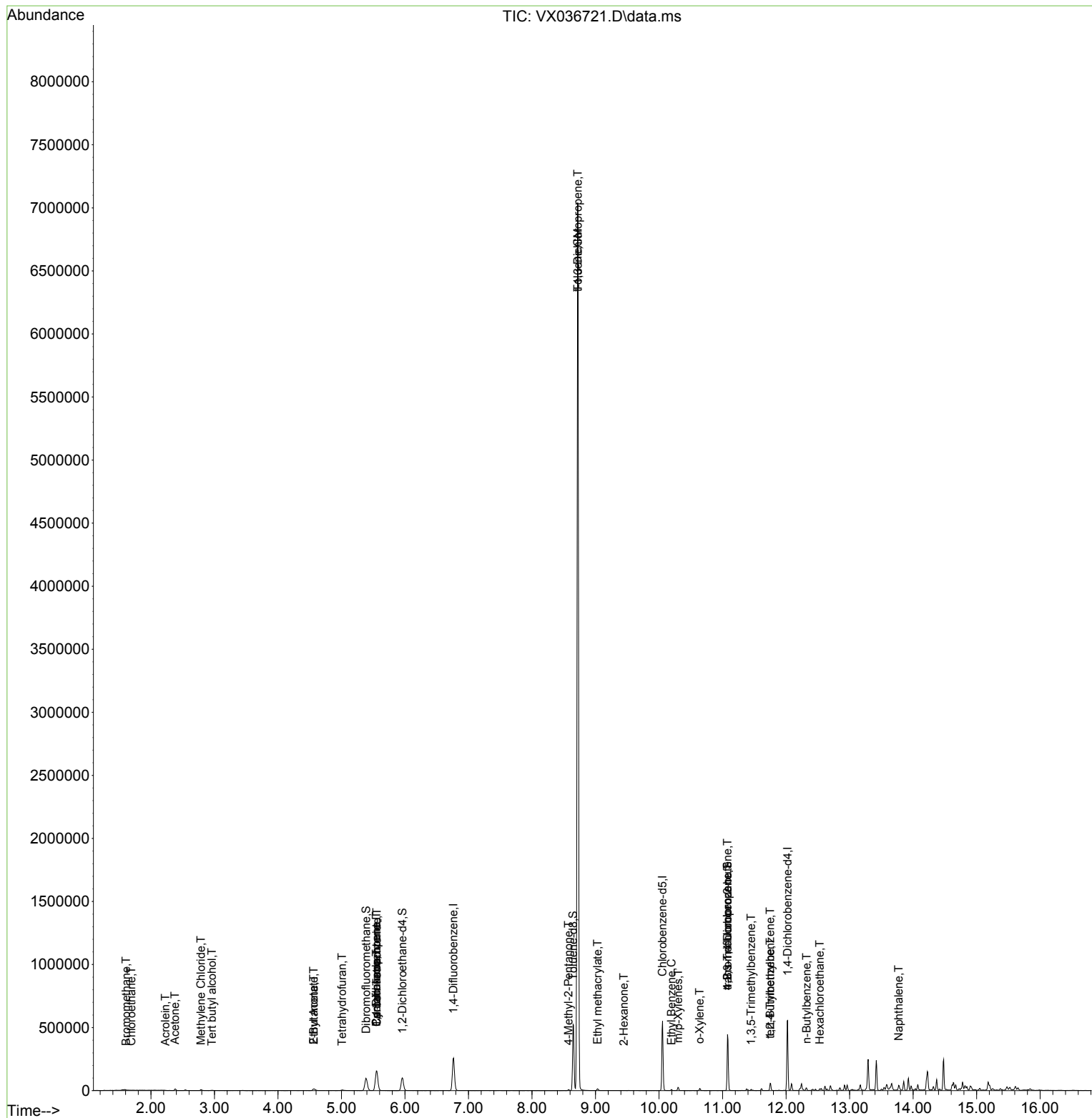
Internal Standards						
1) Pentafluorobenzene	5.549	168	146230	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	264773	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	245226	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	114256	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	97607	45.111	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	90.220%		
35) Dibromofluoromethane	5.385	113	84913	46.658	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.320%		
50) Toluene-d8	8.646	98	316559	49.050	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.100%		
62) 4-Bromofluorobenzene	11.079	95	119763	49.186	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.380%		
Target Compounds						Qvalue
5) Bromomethane	1.605	94	433	0.405	ug/l #	61
6) Chloroethane	1.690	64	226	0.260	ug/l #	43
11) Tert butyl alcohol	2.958	59	3166	6.181	ug/l	97
13) Acrolein	2.227	56	66	0.226	ug/l #	14
16) Acetone	2.379	43	13584	15.130	ug/l #	88
20) Methylene Chloride	2.788	84	4113	2.060	ug/l #	93
25) 2-Butanone	4.562	43	24445	16.781	ug/l	99
29) Tetrahydrofuran	5.007	42	420	0.447	ug/l #	34
31) Cyclohexane	5.549	56	3368	1.124	ug/l #	1
36) 1,1-Dichloropropene	5.549	75	12283	4.528	ug/l #	50
37) Ethyl Acetate	4.562	43	24445	7.962	ug/l #	69
38) Carbon Tetrachloride	5.556	117	15736	5.457	ug/l #	14
51) 4-Methyl-2-Pentanone	8.573	43	4998	1.709	ug/l	97
52) Toluene	8.720	92	2720747	550.196	ug/l	97
53) t-1,3-Dichloropropene	8.720	75	34312	10.029	ug/l #	1
56) Ethyl methacrylate	9.031	69	2316	0.684	ug/l #	72
59) 2-Hexanone	9.445	43	478	0.220	ug/l #	62
67) Ethyl Benzene	10.195	91	5387	0.546	ug/l	99
68) m/p-Xylenes	10.299	106	6135	1.665	ug/l	100
69) o-Xylene	10.640	106	3624	0.985	ug/l	93
76) 1,2,3-Trichloropropane	11.079	75	62318	23.189	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.451	105	4111	0.520	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.079	75	62318	52.559	ug/l #	5
83) tert-Butylbenzene	11.750	119	2126	0.274	ug/l #	53
84) 1,2,4-Trimethylbenzene	11.750	105	23830	3.012	ug/l	86
89) n-Butylbenzene	12.323	91	2832	0.397	ug/l #	22
90) Hexachloroethane	12.530	117	573	0.354	ug/l #	17
95) Naphthalene	13.774	128	24370	2.949	ug/l	97

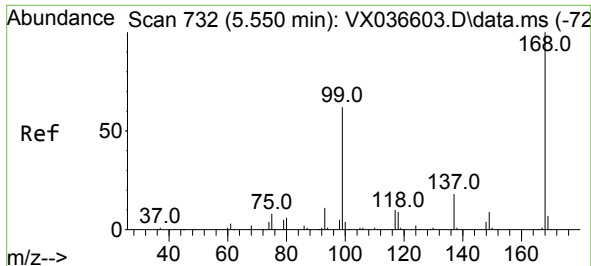
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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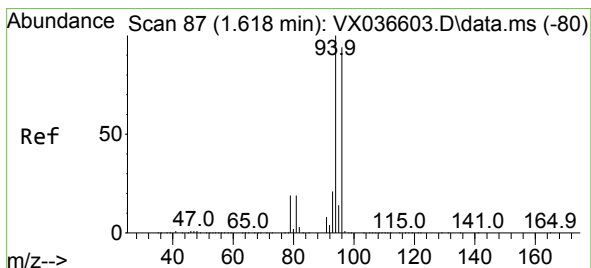
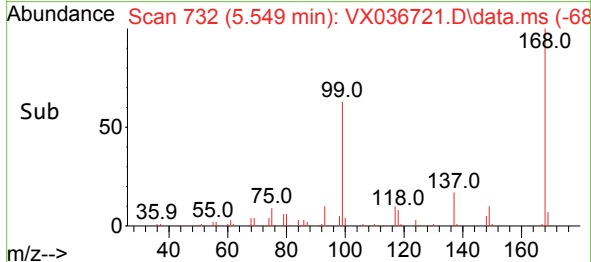
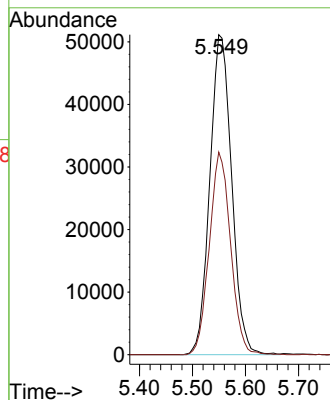
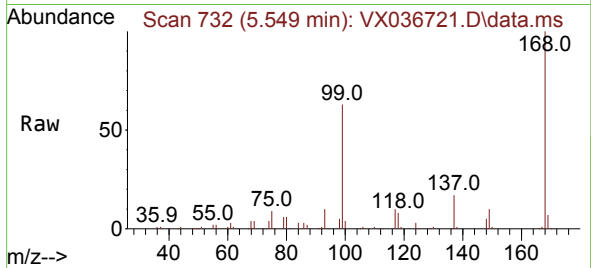




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

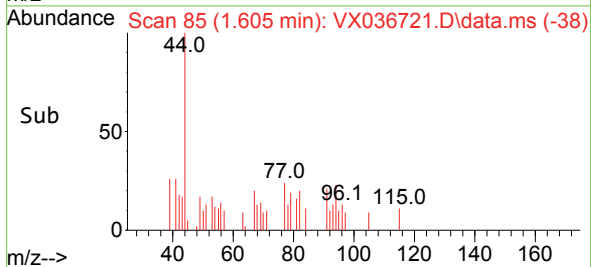
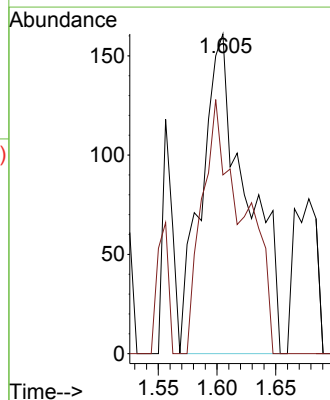
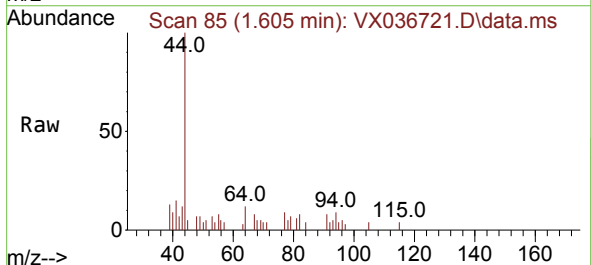
Instrument :
MSVOA_X
ClientSampleId :
1714

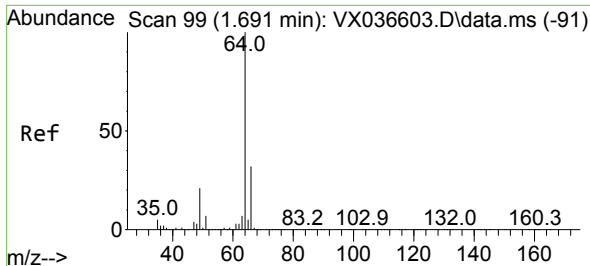
Tgt Ion:168 Resp: 146230
Ion Ratio Lower Upper
168 100
99 63.3 56.6 85.0



#5
Bromomethane
Concen: 0.405 ug/l
RT: 1.605 min Scan# 85
Delta R.T. -0.013 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

Tgt Ion: 94 Resp: 433
Ion Ratio Lower Upper
94 100
96 55.9 74.6 111.8#

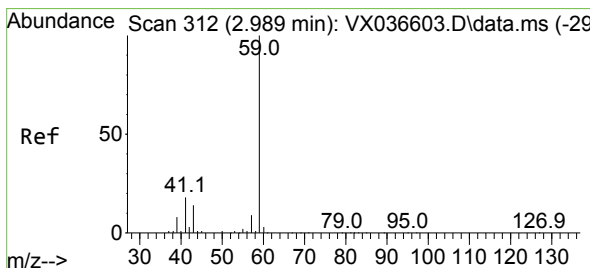
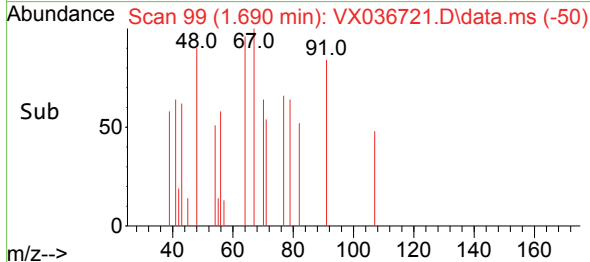
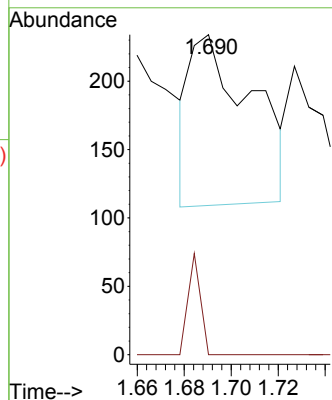
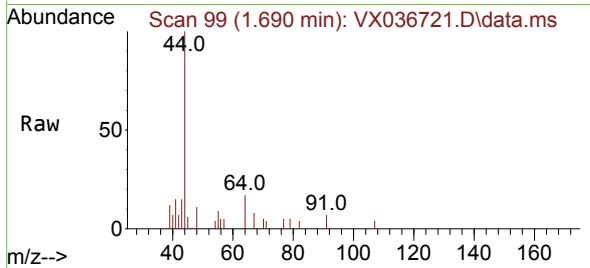




#6
Chloroethane
Concen: 0.260 ug/l
RT: 1.690 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

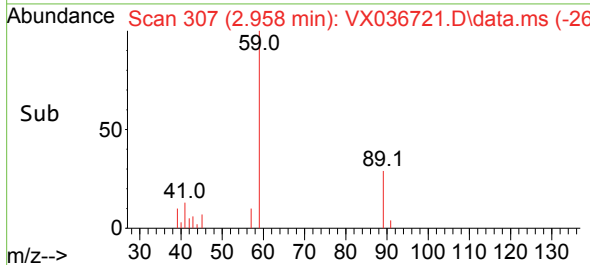
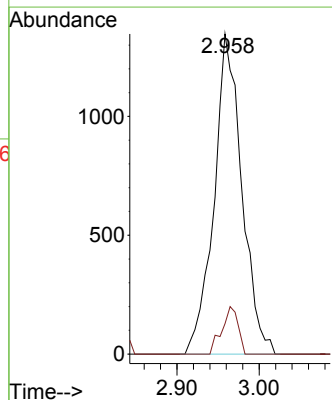
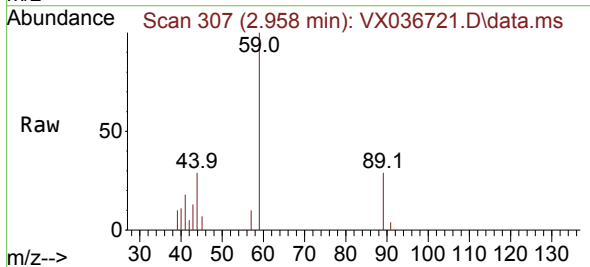
Instrument :
MSVOA_X
ClientSampleId :
1714

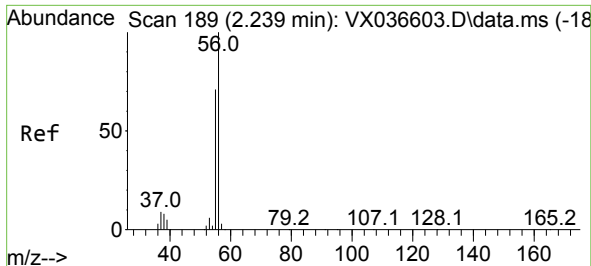
Tgt Ion: 64 Resp: 226
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#



#11
Tert butyl alcohol
Concen: 6.181 ug/l
RT: 2.958 min Scan# 307
Delta R.T. -0.031 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

Tgt Ion: 59 Resp: 3166
Ion Ratio Lower Upper
59 100
57 8.6 6.0 9.0

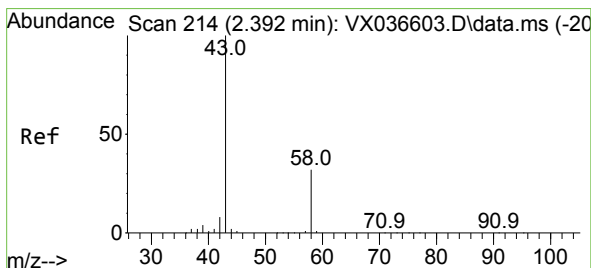
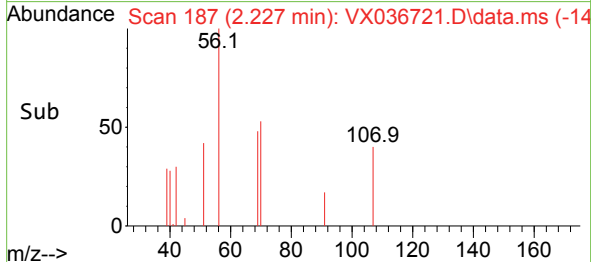
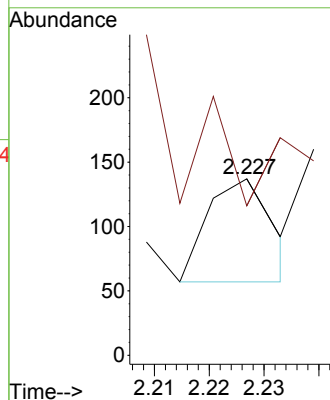
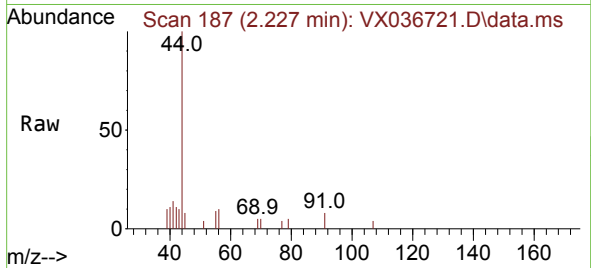




#13
Acrolein
Concen: 0.226 ug/l
RT: 2.227 min Scan# 11
Delta R.T. -0.012 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

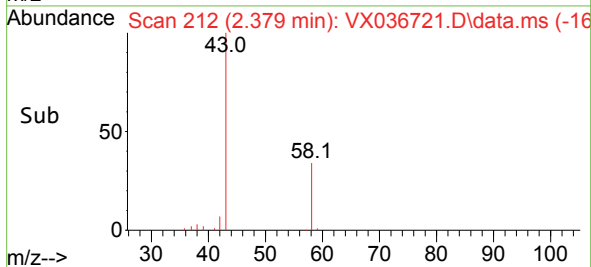
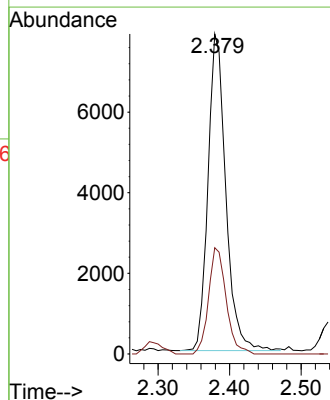
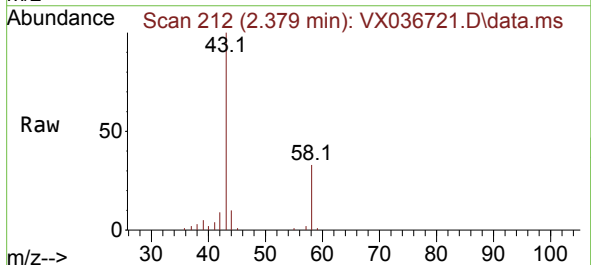
Instrument :
MSVOA_X
ClientSampleId :
1714

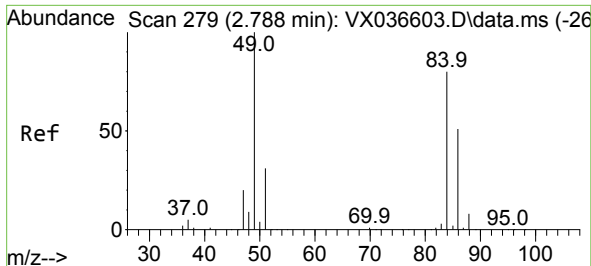
Tgt Ion: 56 Resp: 66
Ion Ratio Lower Upper
56 100
55 0.0 57.1 85.7#



#16
Acetone
Concen: 15.130 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.013 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

Tgt Ion: 43 Resp: 13584
Ion Ratio Lower Upper
43 100
58 33.6 21.9 32.9#

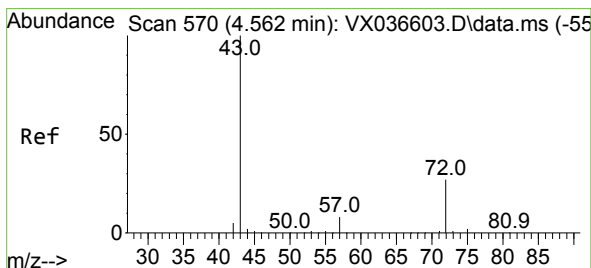
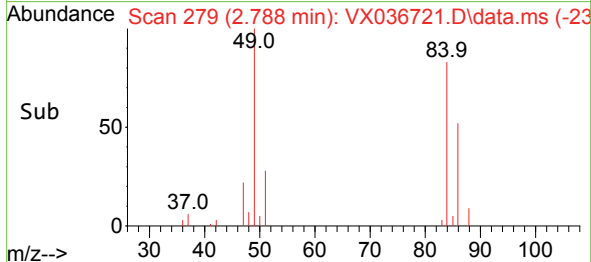
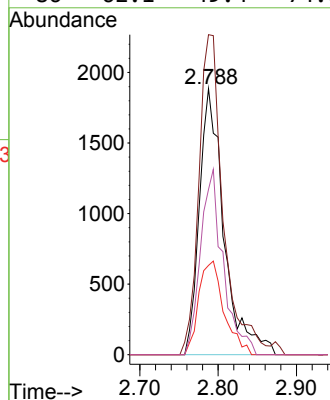
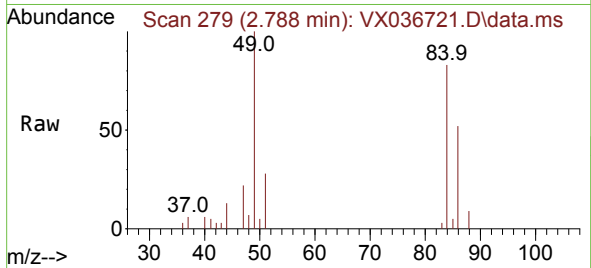




#20
Methylene Chloride
Concen: 2.060 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

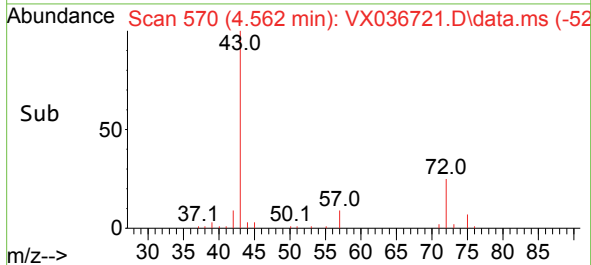
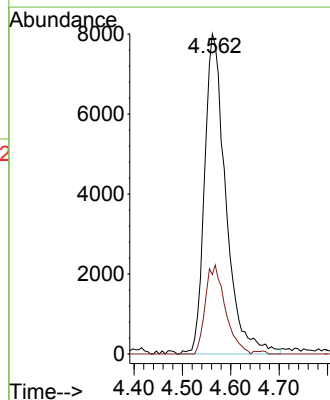
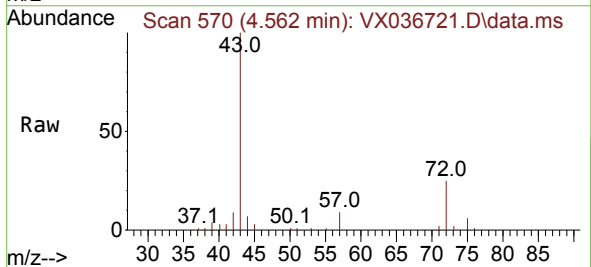
Instrument :
MSVOA_X
ClientSampleId :
1714

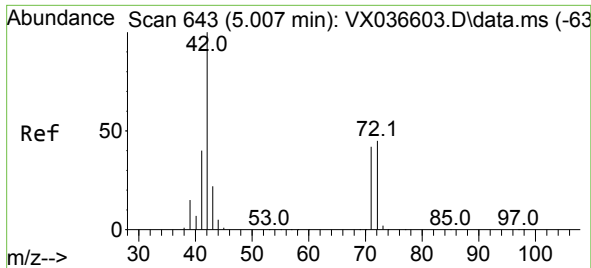
Tgt Ion:	84	Resp:	4113
Ion	Ratio	Lower	Upper
84	100		
49	120.3	103.6	155.4
51	33.6	33.8	50.6#
86	62.1	49.4	74.0



#25
2-Butanone
Concen: 16.781 ug/l
RT: 4.562 min Scan# 570
Delta R.T. -0.000 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

Tgt Ion:	43	Resp:	24445
Ion	Ratio	Lower	Upper
43	100		
72	24.8	19.4	29.2





#29

Tetrahydrofuran

Concen: 0.447 ug/l

RT: 5.007 min Scan# 64

Delta R.T. -0.000 min

Lab File: VX036721.D

Acq: 31 Jul 2023 15:35

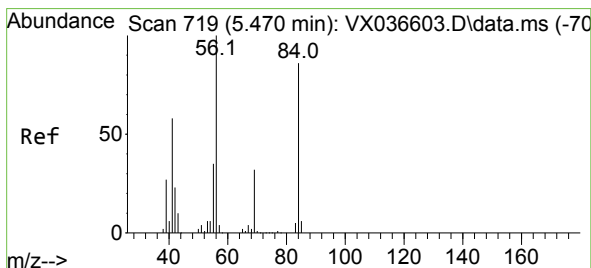
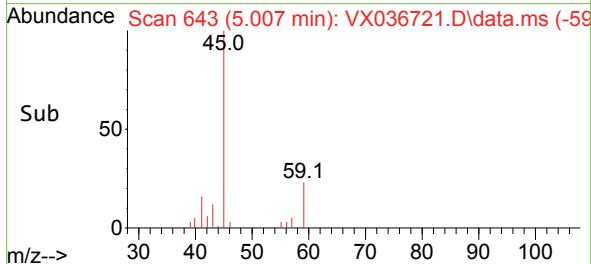
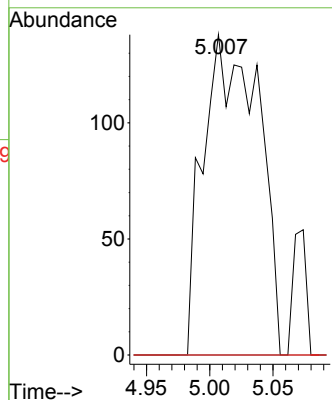
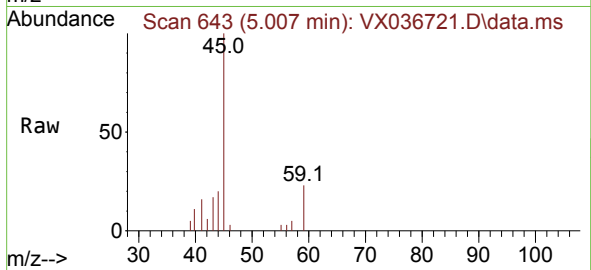
Instrument :

MSVOA_X

ClientSampleId :

1714

Tgt Ion:	42	Resp:	420
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.2	51.4#
71	0.0	32.2	48.2#



#31

Cyclohexane

Concen: 1.124 ug/l

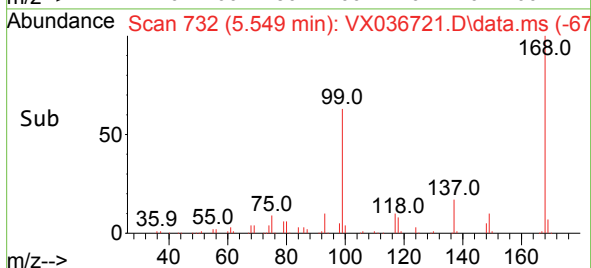
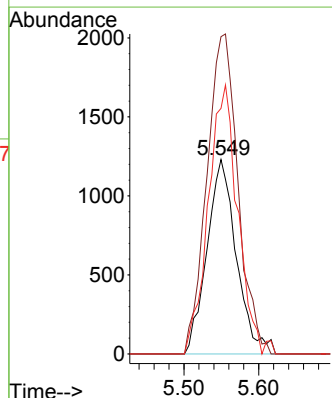
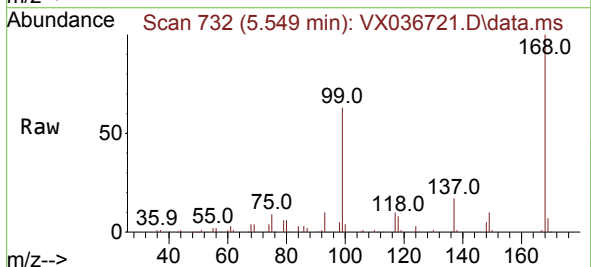
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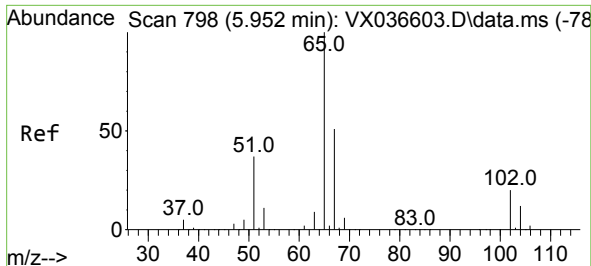
Delta R.T. 0.079 min

Lab File: VX036721.D

Acq: 31 Jul 2023 15:35

Tgt Ion:	56	Resp:	3368
Ion	Ratio	Lower	Upper
56	100		
69	163.3	23.4	35.2#
84	126.3	65.9	98.9#

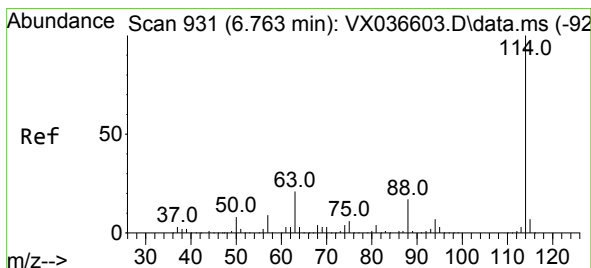
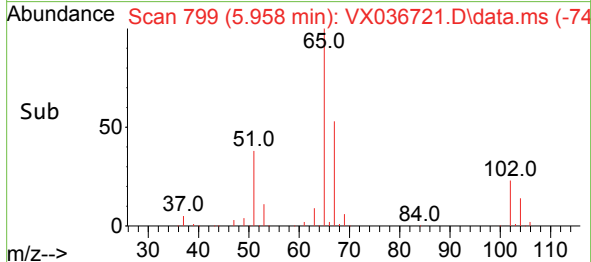
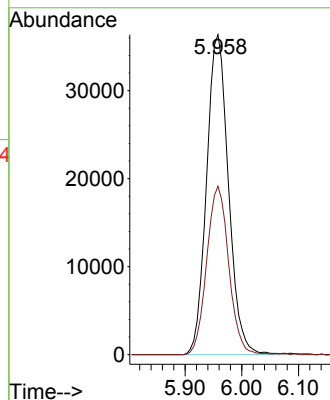
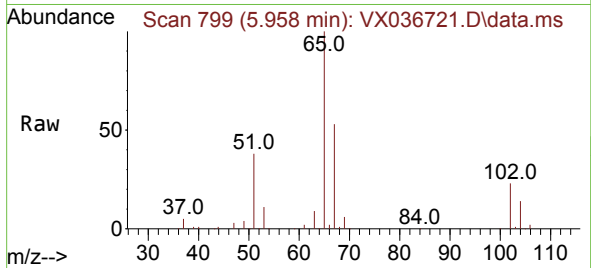




#33
 1,2-Dichloroethane-d4
 Concen: 45.111 ug/l
 RT: 5.958 min Scan# 798
 Delta R.T. 0.006 min
 Lab File: VX036721.D
 Acq: 31 Jul 2023 15:35

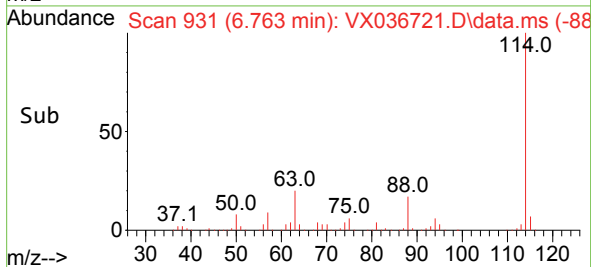
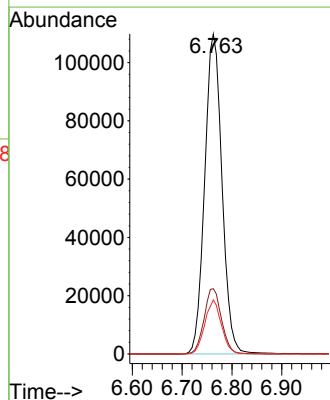
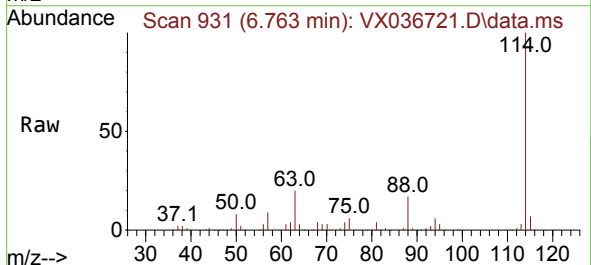
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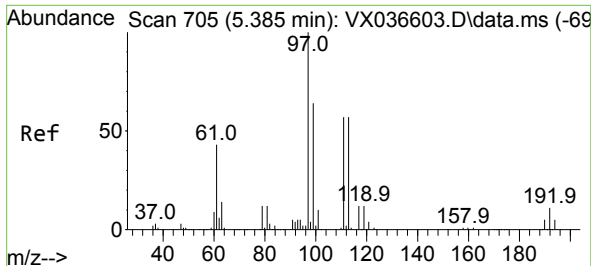
Tgt Ion: 65 Resp: 97607
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. -0.000 min
 Lab File: VX036721.D
 Acq: 31 Jul 2023 15:35

Tgt Ion: 114 Resp: 264773
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 45.0
 88 16.9 0.0 36.6

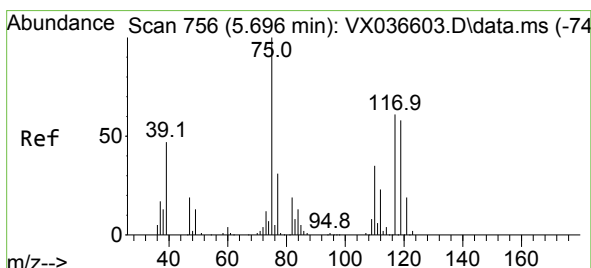
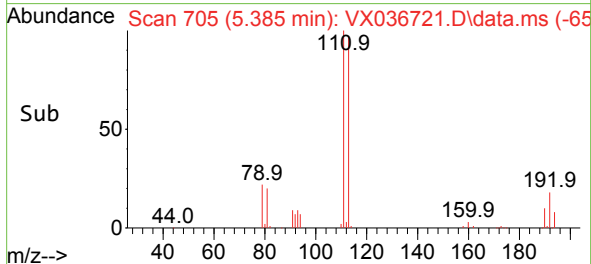
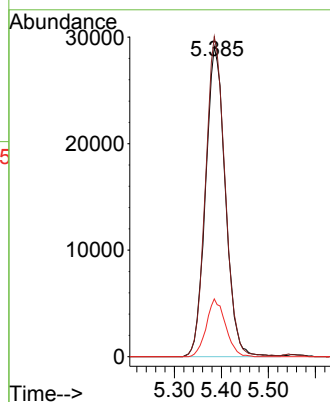
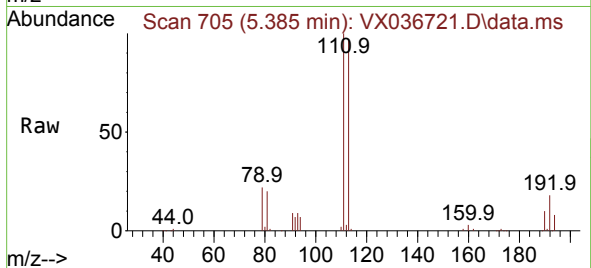




#35
 Dibromofluoromethane
 Concen: 46.658 ug/l
 RT: 5.385 min Scan# 705
 Delta R.T. -0.000 min
 Lab File: VX036721.D
 Acq: 31 Jul 2023 15:35

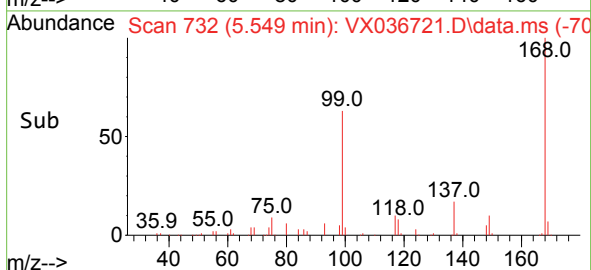
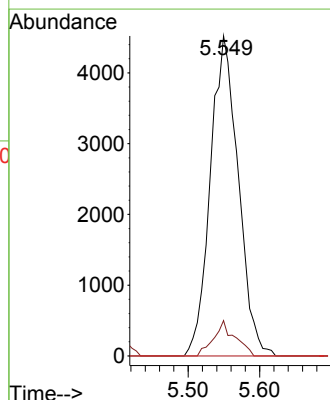
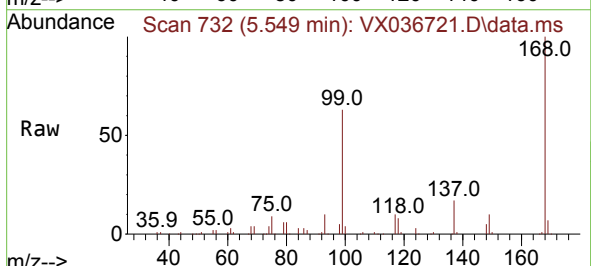
Instrument :
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 ClientSampleId :
 1714

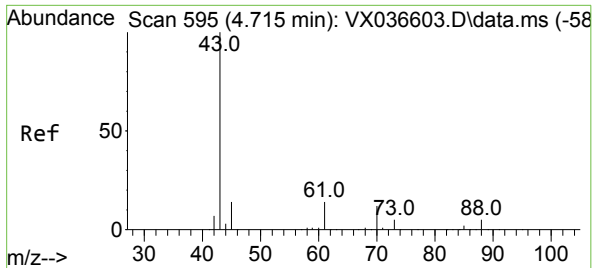
Tgt Ion:113 Resp: 84913
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.9 124.3
 192 18.1 13.3 19.9



#36
 1,1-Dichloropropene
 Concen: 4.528 ug/l
 RT: 5.549 min Scan# 732
 Delta R.T. -0.147 min
 Lab File: VX036721.D
 Acq: 31 Jul 2023 15:35

Tgt Ion: 75 Resp: 12283
 Ion Ratio Lower Upper
 75 100
 110 8.4 17.0 50.9#
 77 0.0 24.7 37.1#

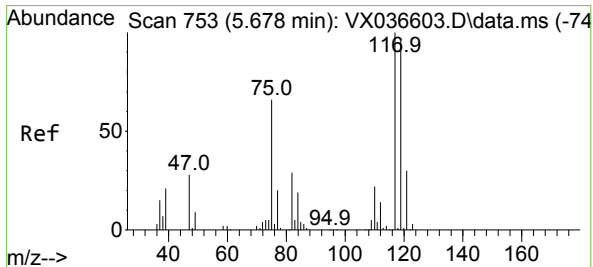
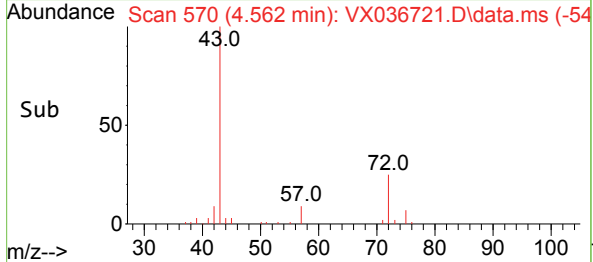
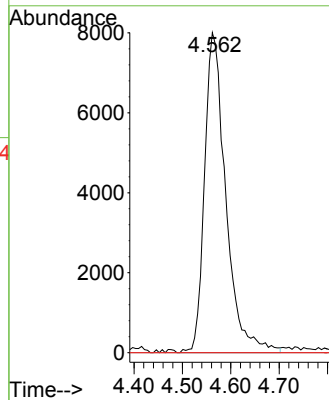
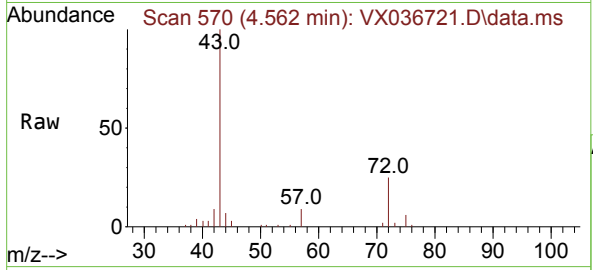




#37
Ethyl Acetate
Concen: 7.962 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.153 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

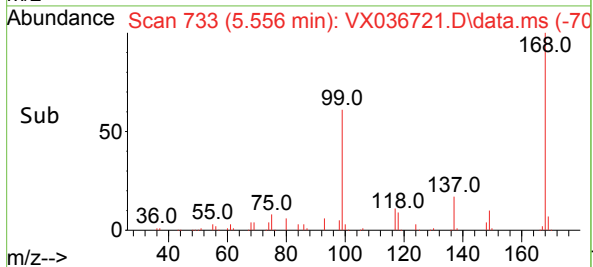
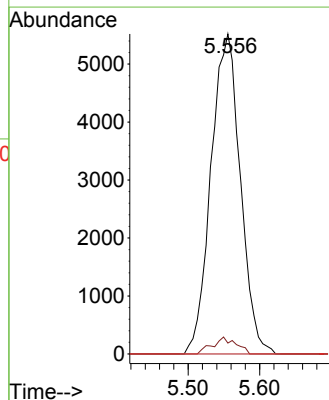
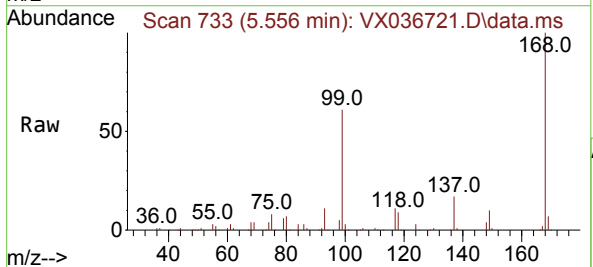
Instrument :
MSVOA_X
ClientSampleId :
1714

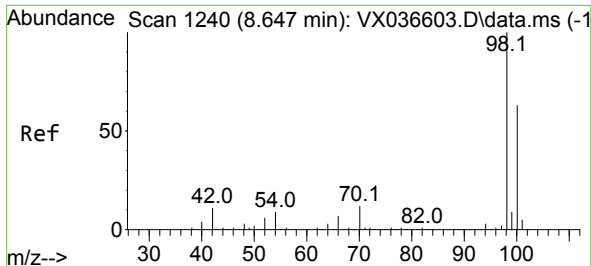
Tgt Ion: 43 Resp: 24445
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 0.0 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 5.457 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.122 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

Tgt Ion: 117 Resp: 15736
Ion Ratio Lower Upper
117 100
119 3.4 78.2 117.2#
121 0.0 24.4 36.6#

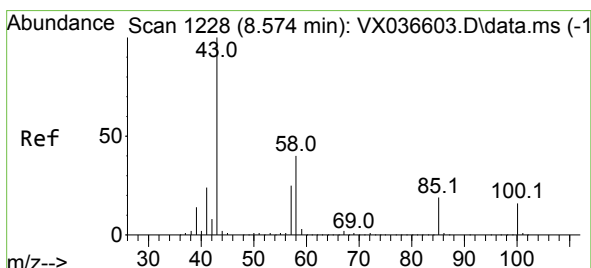
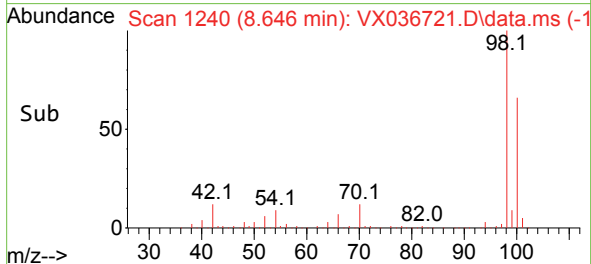
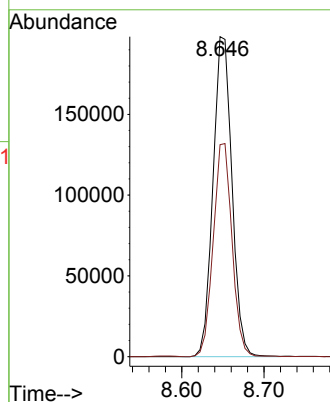
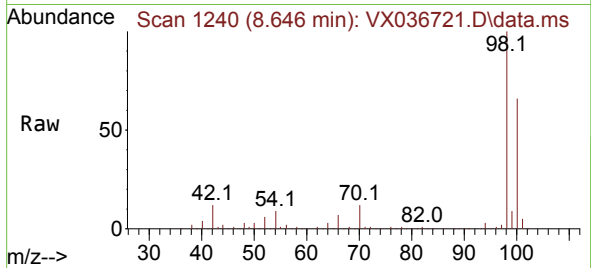




#50
Toluene-d8
Concen: 49.050 ug/l
RT: 8.646 min Scan# 11714
Delta R.T. -0.000 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

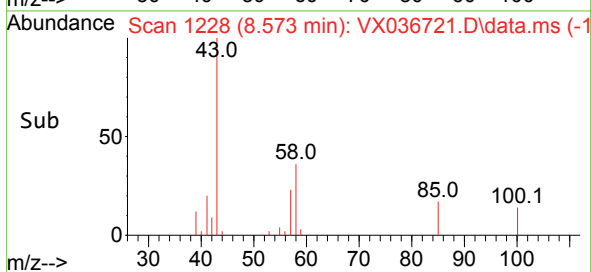
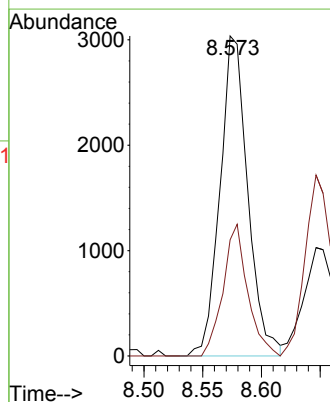
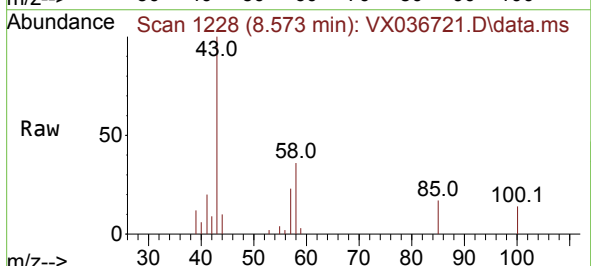
Instrument :
MSVOA_X
ClientSampleId :
1714

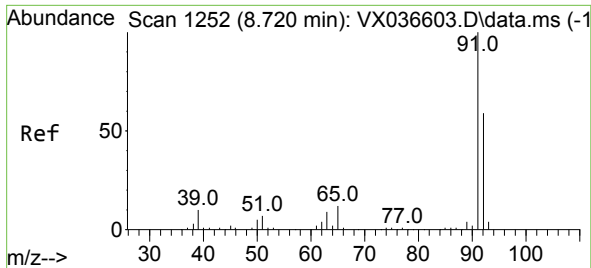
Tgt Ion: 98 Resp: 316559
Ion Ratio Lower Upper
98 100
100 66.2 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 1.709 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

Tgt Ion: 43 Resp: 4998
Ion Ratio Lower Upper
43 100
58 36.5 30.4 45.6

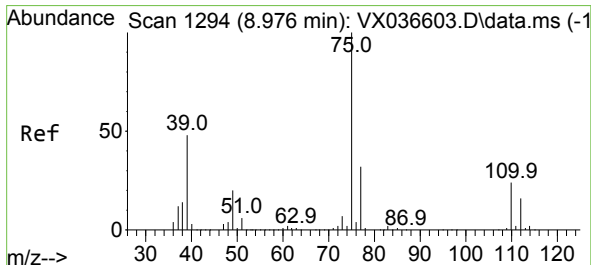
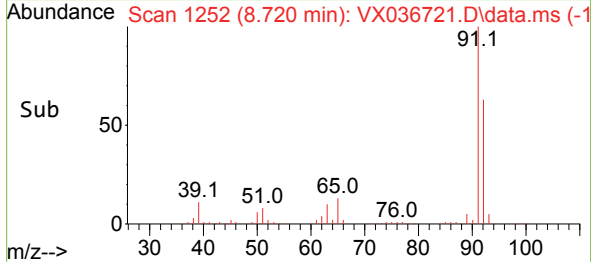
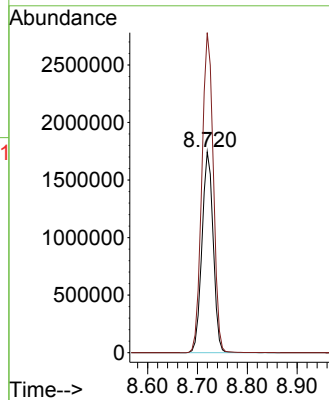
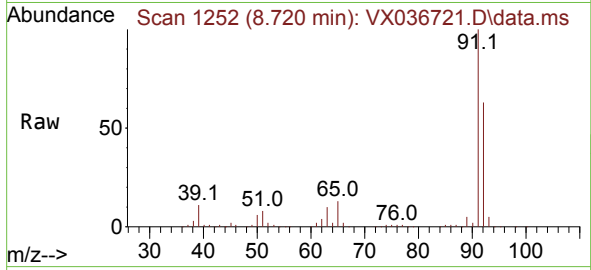




#52
Toluene
Concen: 550.196 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

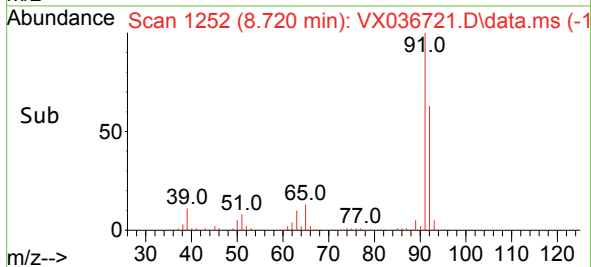
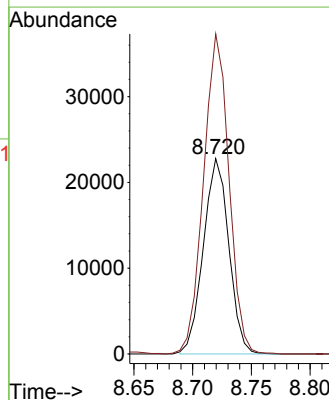
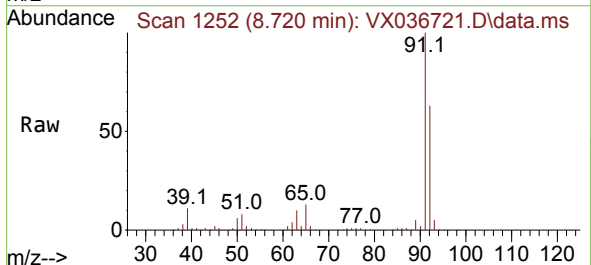
Instrument :
MSVOA_X
ClientSampleId :
1714

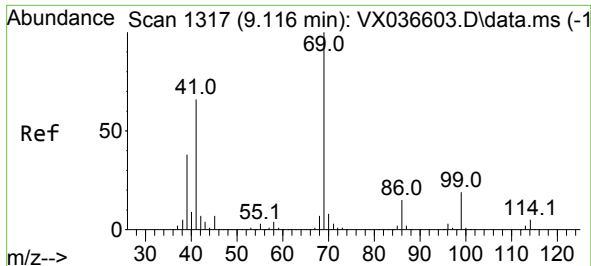
Tgt Ion: 92 Resp: 2720747
Ion Ratio Lower Upper
92 100
91 163.3 134.2 201.2



#53
t-1,3-Dichloropropene
Concen: 10.029 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.256 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

Tgt Ion: 75 Resp: 34312
Ion Ratio Lower Upper
75 100
77 163.8 25.7 38.5#

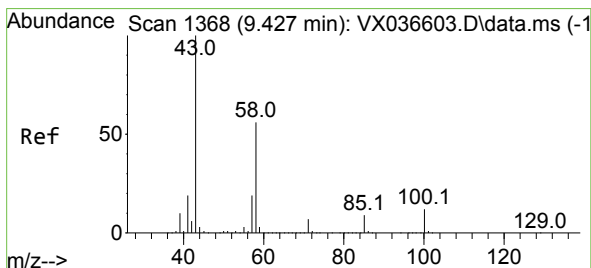
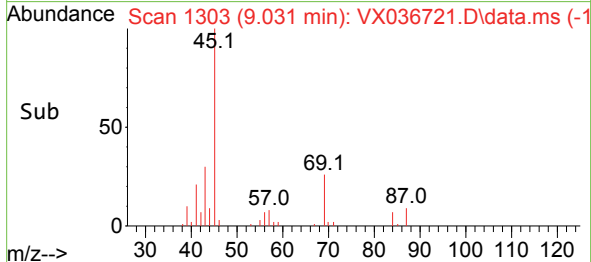
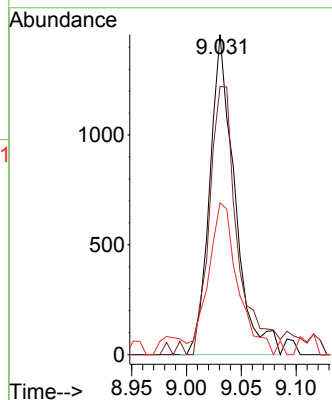
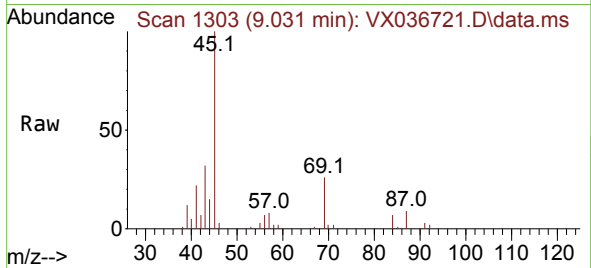




#56
Ethyl methacrylate
Concen: 0.684 ug/l
RT: 9.031 min Scan# 11
Delta R.T. -0.086 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

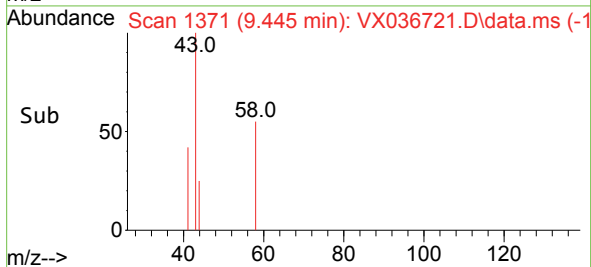
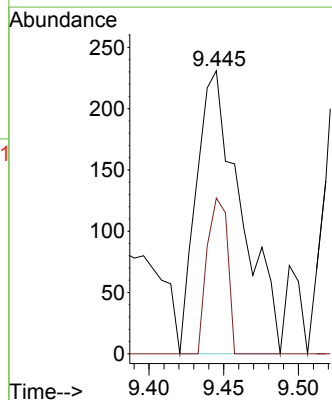
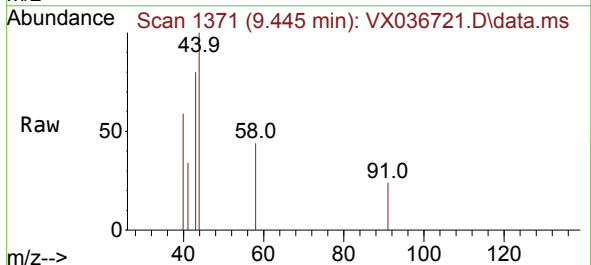
Instrument :
MSVOA_X
ClientSampleId :
1714

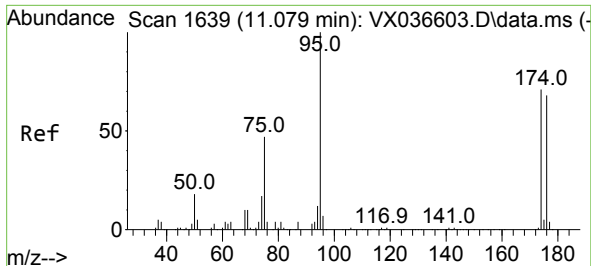
Tgt Ion: 69 Resp: 2316
Ion Ratio Lower Upper
69 100
41 94.1 56.8 85.2#
39 56.6 32.0 48.0#



#59
2-Hexanone
Concen: 0.220 ug/l
RT: 9.445 min Scan# 1371
Delta R.T. 0.018 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

Tgt Ion: 43 Resp: 478
Ion Ratio Lower Upper
43 100
58 25.3 26.2 78.5#

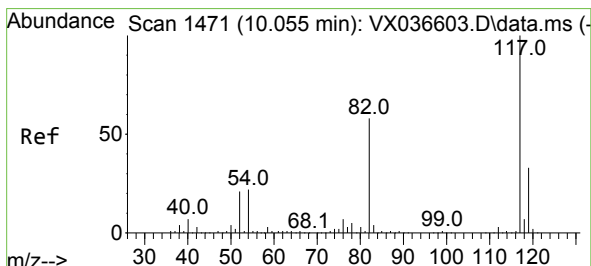
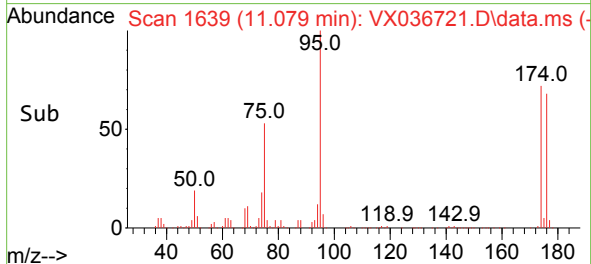
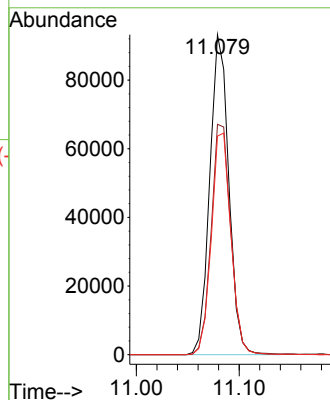
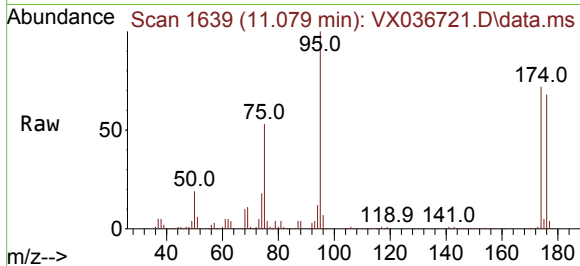




#62
4-Bromofluorobenzene
Concen: 49.186 ug/l
RT: 11.079 min Scan# 1714
Delta R.T. -0.000 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

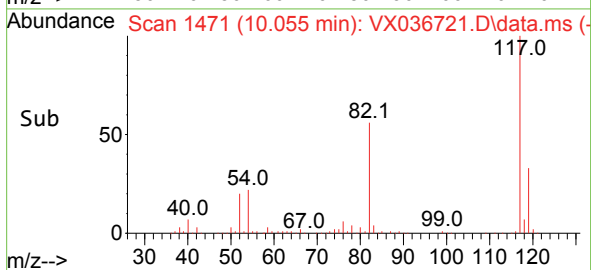
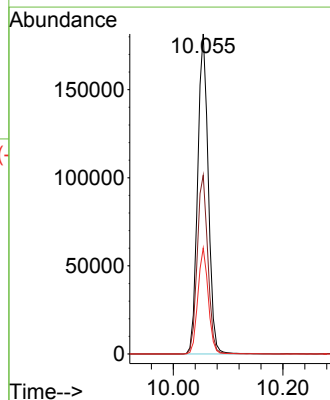
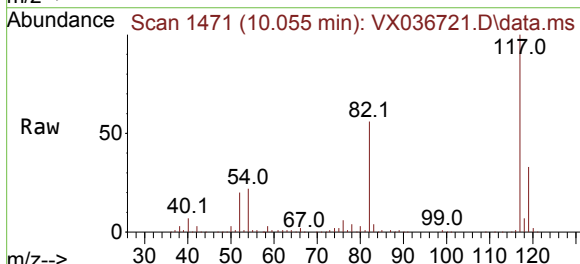
Instrument :
MSVOA_X
ClientSampleId :
1714

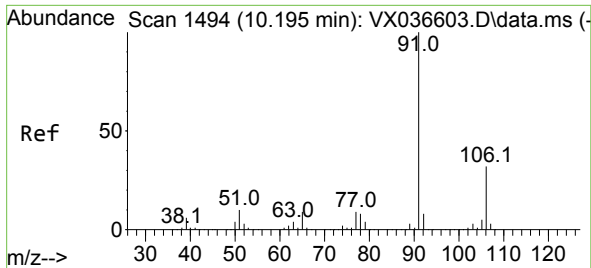
Tgt Ion: 95 Resp: 119763
Ion Ratio Lower Upper
95 100
174 74.2 0.0 135.6
176 71.1 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

Tgt Ion: 117 Resp: 245226
Ion Ratio Lower Upper
117 100
82 55.8 46.2 69.4
119 33.1 25.5 38.3

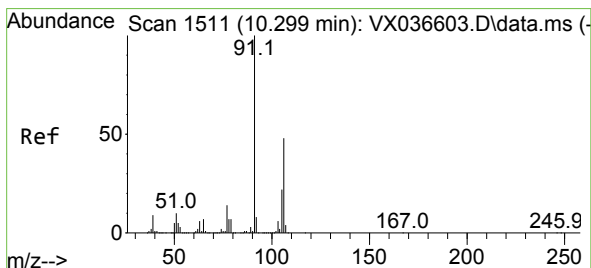
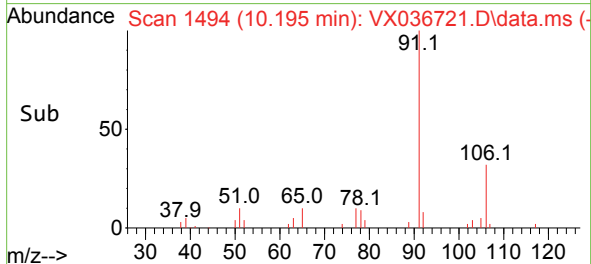
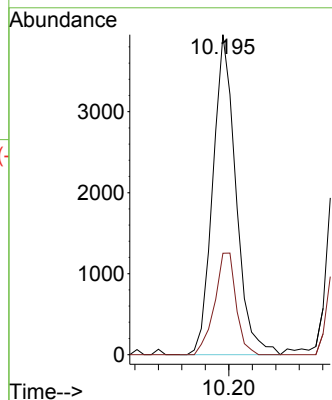
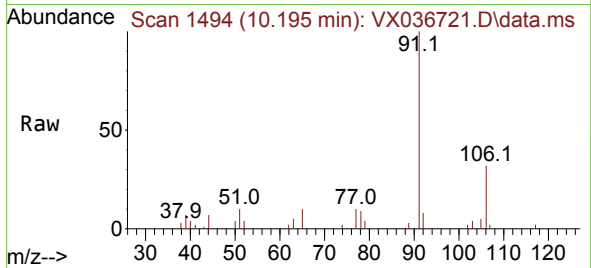




#67
Ethyl Benzene
Concen: 0.546 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

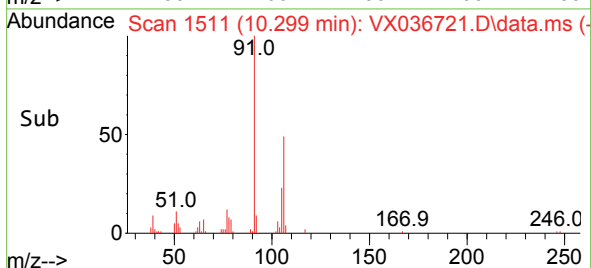
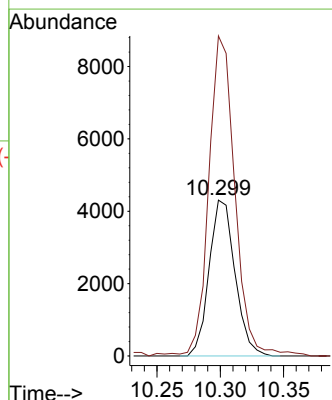
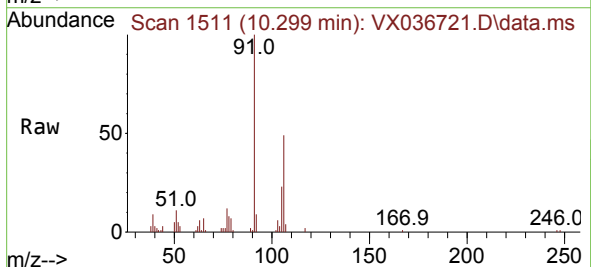
Instrument :
MSVOA_X
ClientSampleId :
1714

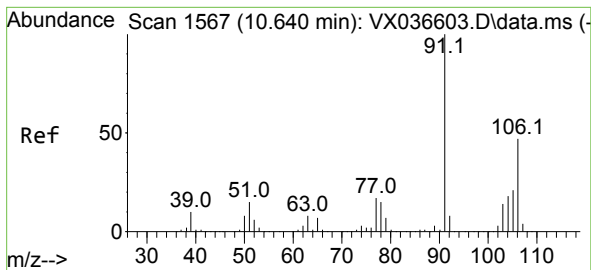
Tgt Ion: 91 Resp: 5387
Ion Ratio Lower Upper
91 100
106 31.7 24.9 37.3



#68
m/p-Xylenes
Concen: 1.665 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX036721.D
Acq: 31 Jul 2023 15:35

Tgt Ion: 106 Resp: 6135
Ion Ratio Lower Upper
106 100
91 207.3 165.5 248.3





#69

o-Xylene

Concen: 0.985 ug/l

RT: 10.640 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX036721.D

Acq: 31 Jul 2023 15:35

Instrument :

MSVOA_X

ClientSampleId :

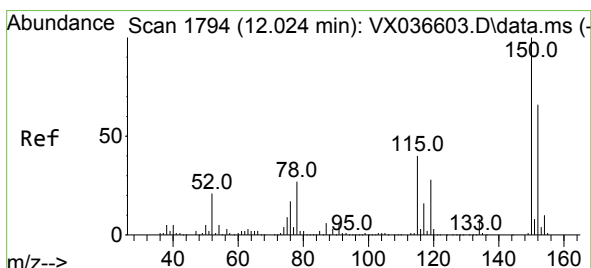
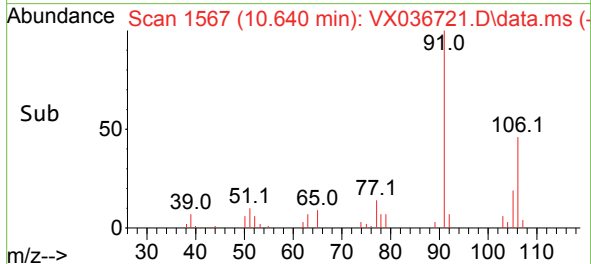
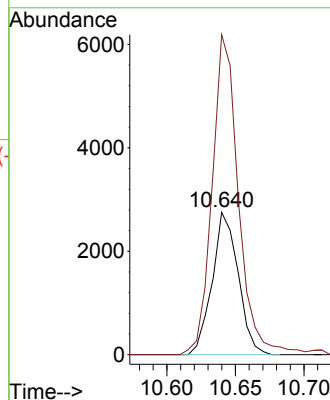
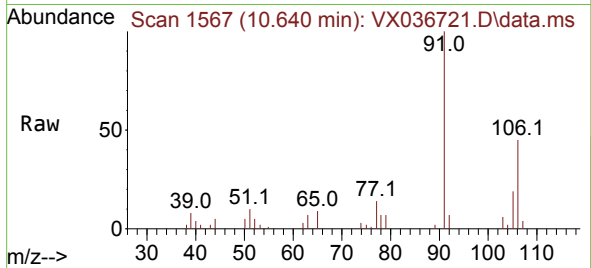
1714

Tgt Ion:106 Resp: 3624

Ion Ratio Lower Upper

106 100

91 229.4 108.9 326.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX036721.D

Acq: 31 Jul 2023 15:35

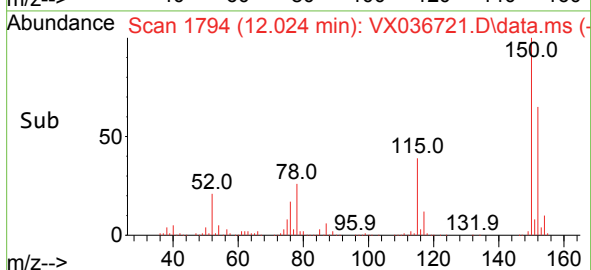
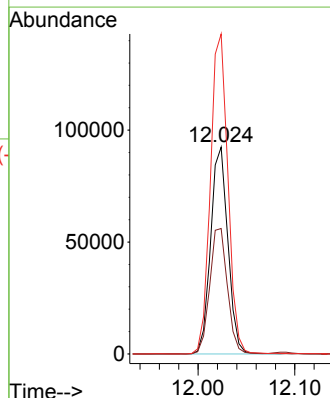
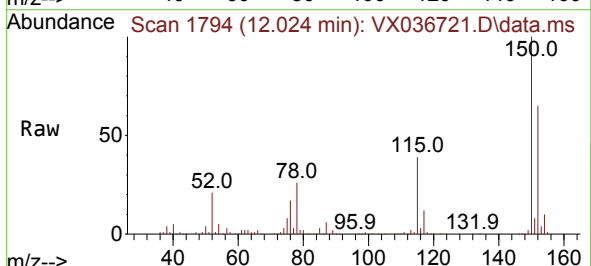
Tgt Ion:152 Resp: 114256

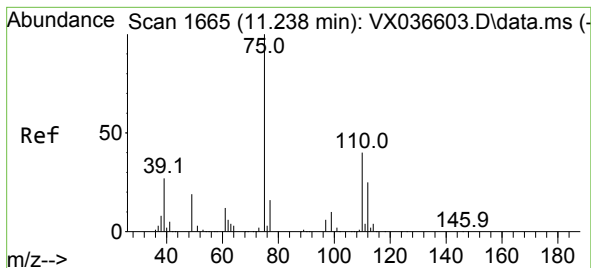
Ion Ratio Lower Upper

152 100

115 62.3 43.3 129.9

150 157.1 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 23.189 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX036721.D

Acq: 31 Jul 2023 15:35

Instrument :

MSVOA_X

ClientSampleId :

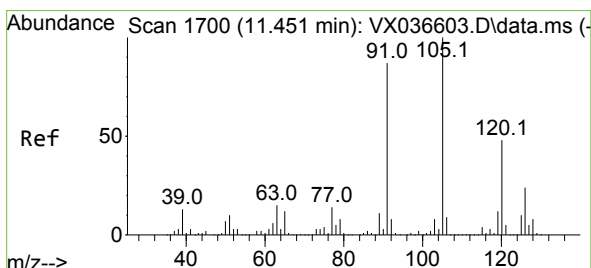
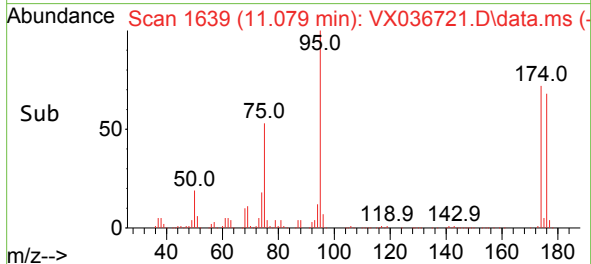
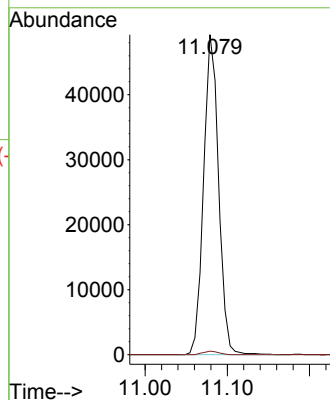
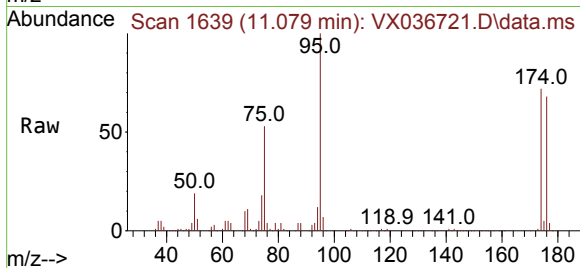
1714

Tgt Ion: 75 Resp: 62318

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.520 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX036721.D

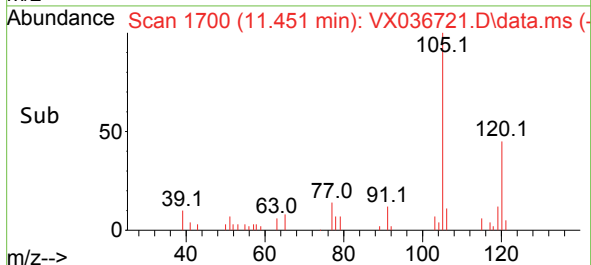
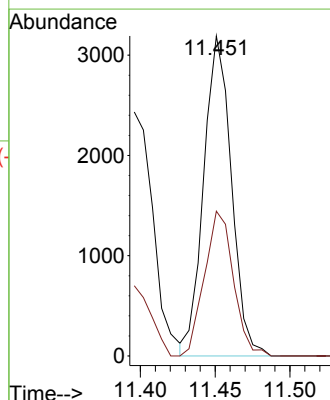
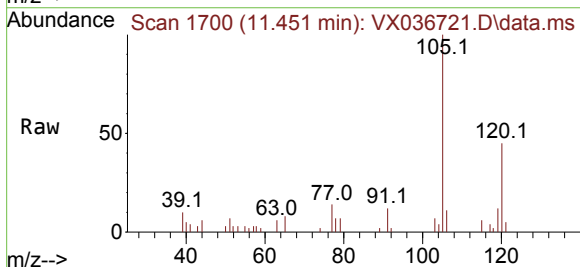
Acq: 31 Jul 2023 15:35

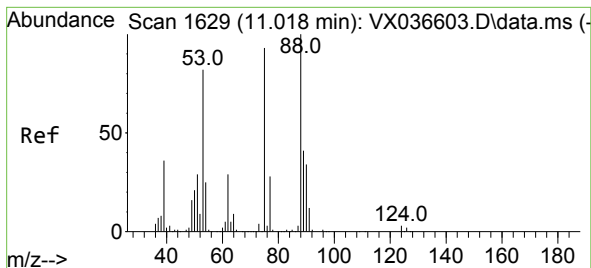
Tgt Ion:105 Resp: 4111

Ion Ratio Lower Upper

105 100

120 47.3 24.1 72.3

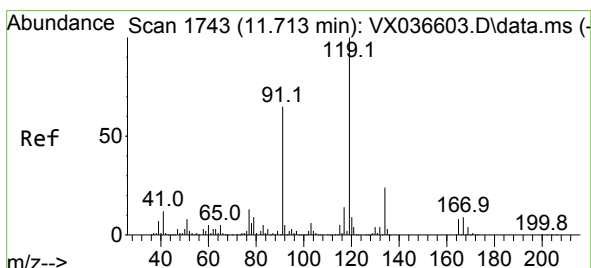
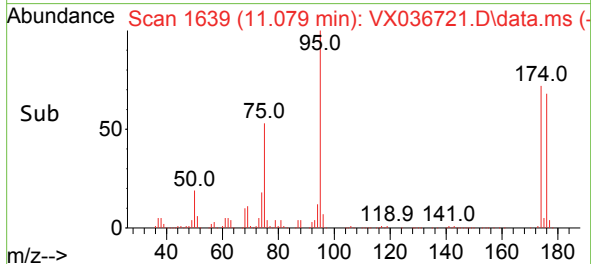
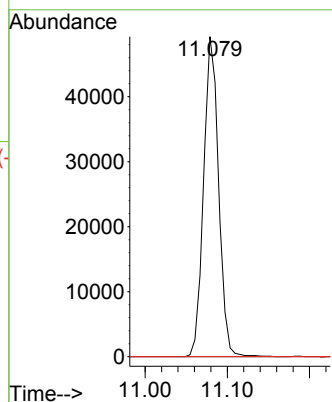
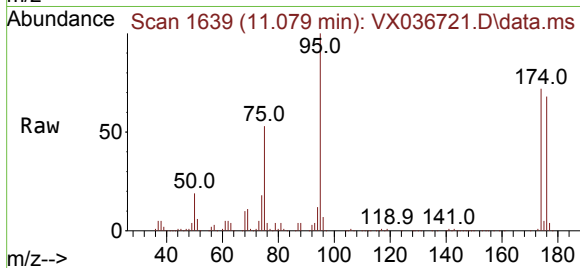




#81
 trans-1,4-Dichloro-2-butene
 Concen: 52.559 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.061 min
 Lab File: VX036721.D
 Acq: 31 Jul 2023 15:35

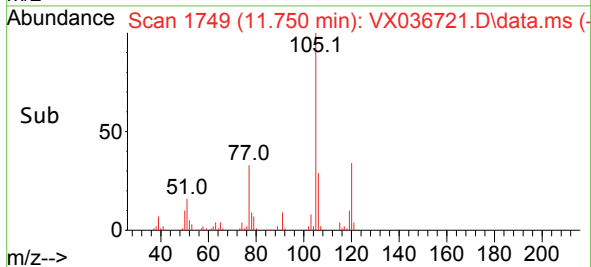
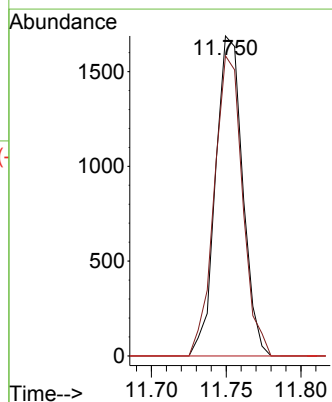
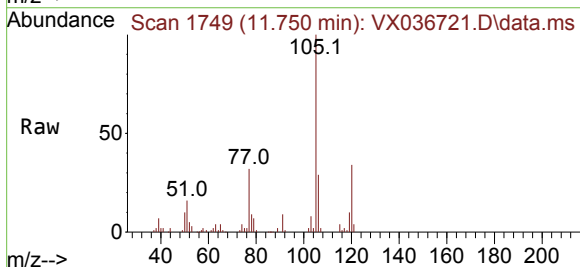
Instrument :
 MSVOA_X
 ClientSampleId :
 1714

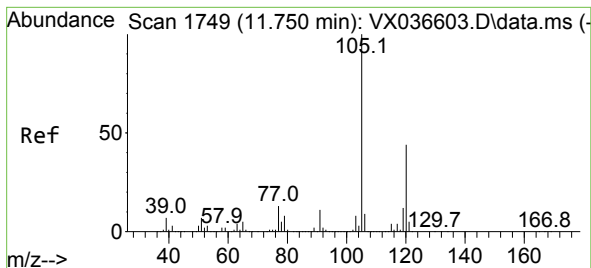
Tgt Ion: 75 Resp: 62318
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.5 135.7#
 89 0.0 36.9 55.3#



#83
 tert-Butylbenzene
 Concen: 0.274 ug/l
 RT: 11.750 min Scan# 1749
 Delta R.T. 0.036 min
 Lab File: VX036721.D
 Acq: 31 Jul 2023 15:35

Tgt Ion: 119 Resp: 2126
 Ion Ratio Lower Upper
 119 100
 91 98.1 31.2 93.6#
 134 0.0 11.7 35.0#





#84

1,2,4-Trimethylbenzene

Concen: 3.012 ug/l

RT: 11.750 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX036721.D

Acq: 31 Jul 2023 15:35

Instrument :

MSVOA_X

ClientSampleId :

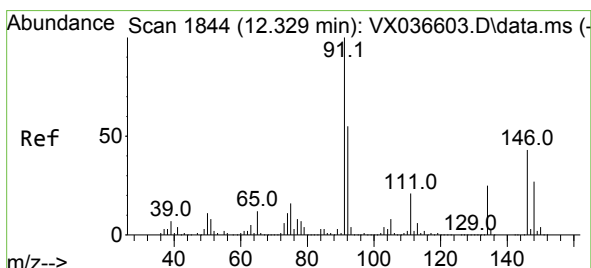
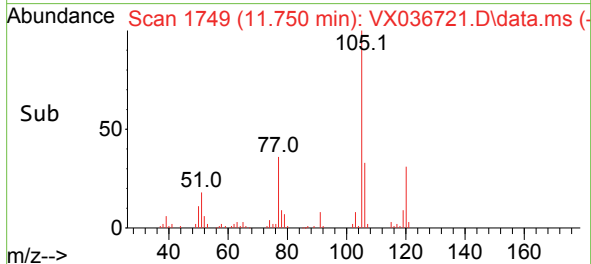
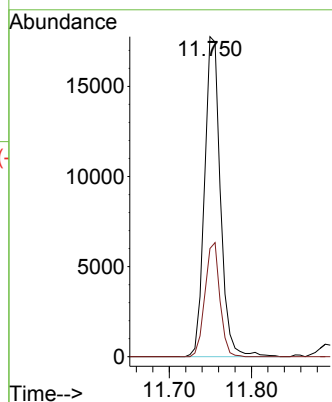
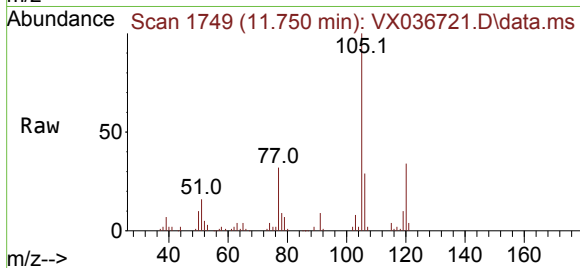
1714

Tgt Ion:105 Resp: 23830

Ion Ratio Lower Upper

105 100

120 33.4 21.2 63.6



#89

n-Butylbenzene

Concen: 0.397 ug/l

RT: 12.323 min Scan# 1843

Delta R.T. -0.006 min

Lab File: VX036721.D

Acq: 31 Jul 2023 15:35

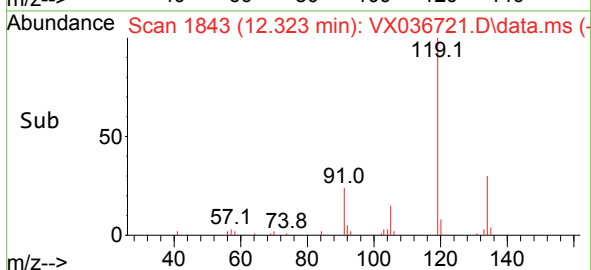
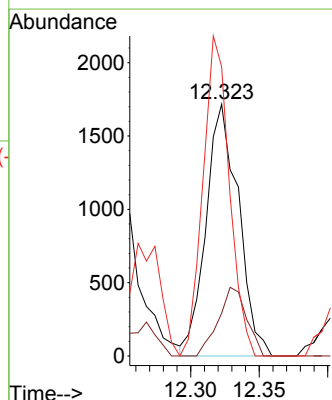
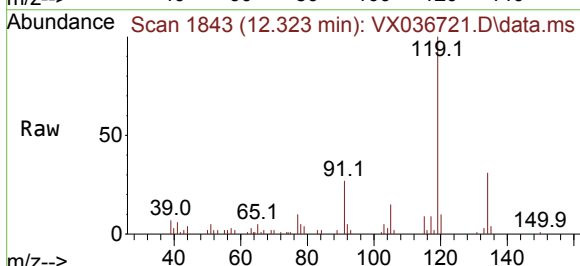
Tgt Ion: 91 Resp: 2832

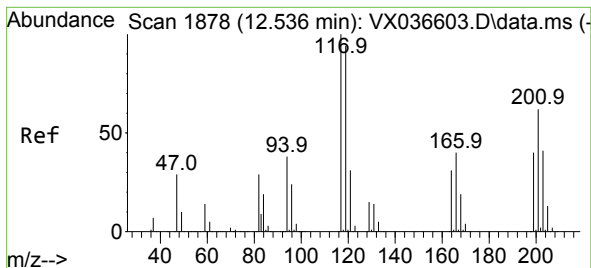
Ion Ratio Lower Upper

91 100

92 23.7 27.4 82.0#

134 103.2 12.6 37.8#





#90

Hexachloroethane

Concen: 0.354 ug/l

RT: 12.530 min Scan# 117

Delta R.T. -0.006 min

Lab File: VX036721.D

Acq: 31 Jul 2023 15:35

Instrument :

MSVOA_X

ClientSampleId :

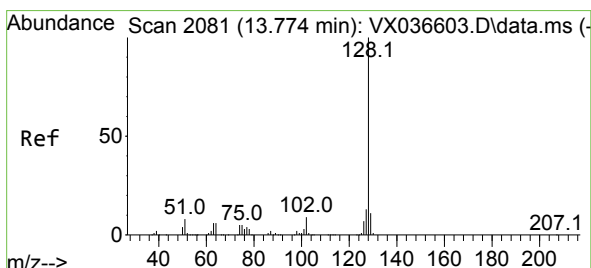
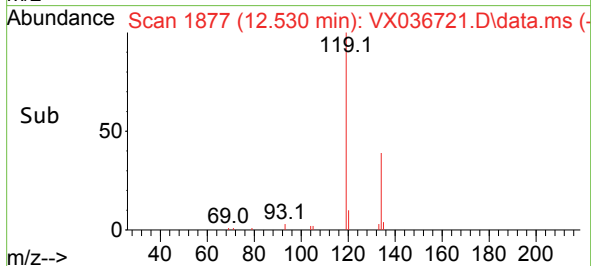
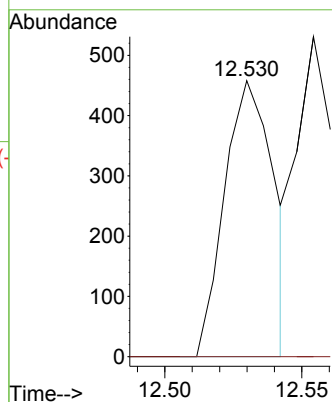
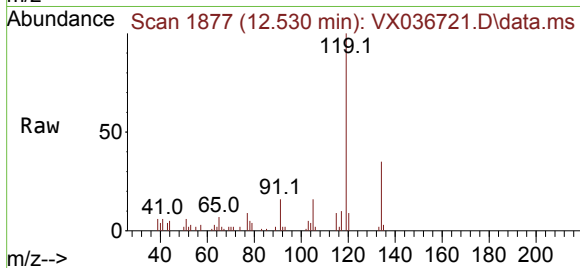
1714

Tgt Ion:117 Resp: 573

Ion Ratio Lower Upper

117 100

201 0.0 32.9 98.6#



#95

Naphthalene

Concen: 2.949 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX036721.D

Acq: 31 Jul 2023 15:35

Tgt Ion:128 Resp: 24370

Ion Ratio Lower Upper

128 100

127 13.5 10.3 15.5

129 12.6 8.8 13.2

