

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061022\
 Data File : VN072771.D
 Acq On : 10 Jun 2022 17:48
 Operator : JC\MD
 Sample : N3293-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 52322-C

Quant Time: Jun 11 01:55:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060822W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 09 05:17:31 2022
 Response via : Initial Calibration

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

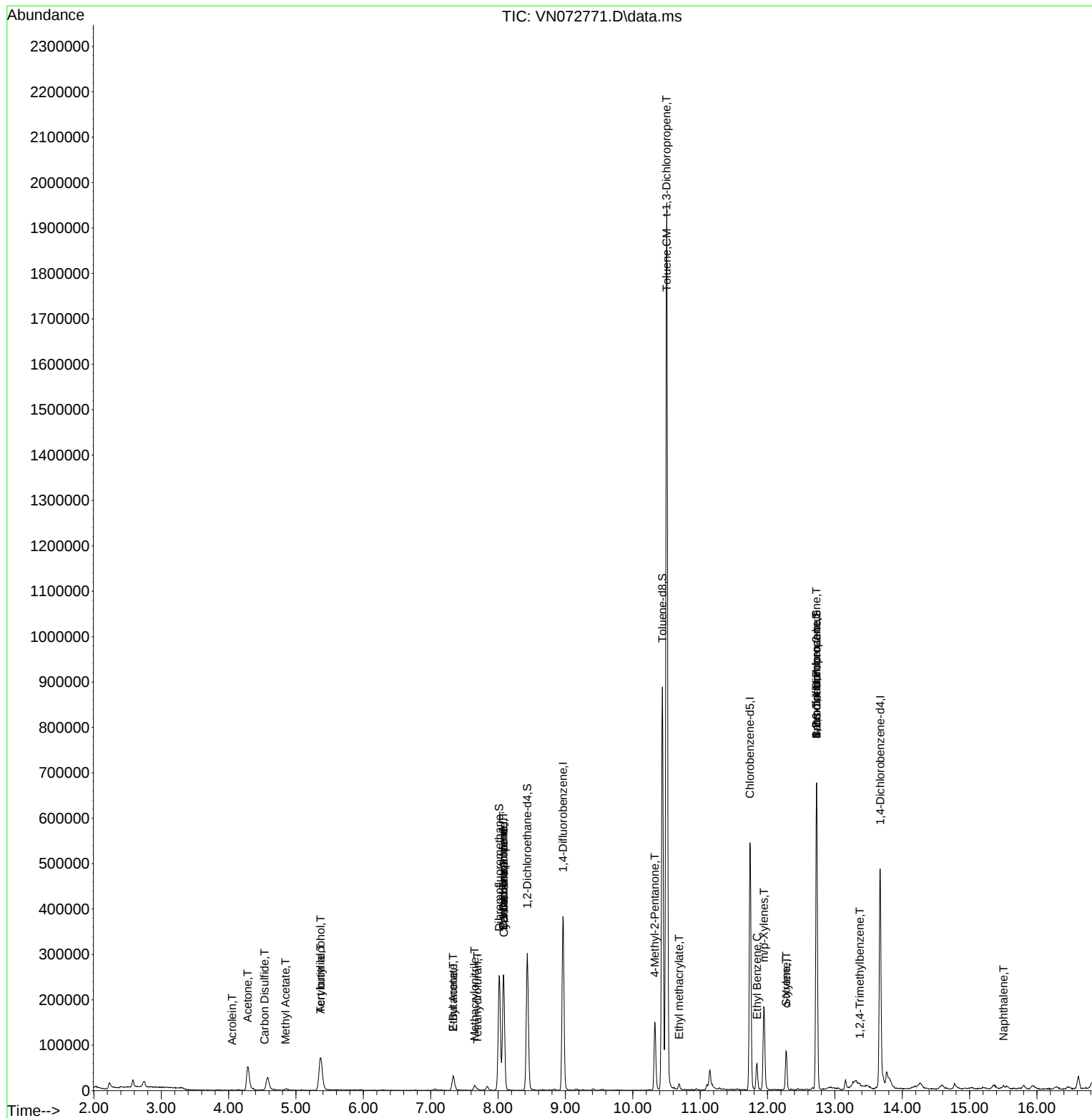
Internal Standards						
1) Pentafluorobenzene	8.081	168	162913	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.963	114	313060	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	290669	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	114595	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	243804	55.759	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 111.520%			
35) Dibromofluoromethane	8.016	113	177134	57.183	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 114.360%			
50) Toluene-d8	10.439	98	578965	46.845	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 93.700%			
62) 4-Bromofluorobenzene	12.727	95	232799	54.893	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 109.780%			
Target Compounds						
						Qvalue
3) Chloromethane	2.293	50	728	Below Cal	#	43
5) Bromomethane	2.852	94	284	Below Cal	#	67
6) Chloroethane	2.952	64	273	Below Cal	#	88
11) Tert butyl alcohol	5.363	59	134671	129.113	ug/l	99
13) Acrolein	4.051	56	767	1.780	ug/l	93
15) Acrylonitrile	5.363	53	1072	0.485	ug/l	# 1
16) Acetone	4.281	43	101067	48.238	ug/l	92
17) Carbon Disulfide	4.534	76	901	0.448	ug/l	# 75
18) Methyl Acetate	4.846	43	5591	1.026	ug/l	# 85
20) Methylene Chloride	5.081	84	176	Below Cal	#	64
25) 2-Butanone	7.334	43	53904	15.994	ug/l	# 84
29) Tetrahydrofuran	7.692	42	1258	0.604	ug/l	# 55
31) Cyclohexane	8.086	56	5378	0.457	ug/l	# 44
36) 1,1-Dichloropropene	8.081	75	16475	3.832	ug/l	# 48
37) Ethyl Acetate	7.334	43	53904	8.069	ug/l	# 67
38) Carbon Tetrachloride	8.081	117	20830	4.533	ug/l	# 17
41) Methacrylonitrile	7.651	41	1919	0.852	ug/l	# 41
51) 4-Methyl-2-Pentanone	10.328	43	104557	15.432	ug/l	91
52) Toluene	10.504	92	814836	100.020	ug/l	100
53) t-1,3-Dichloropropene	10.498	75	10649	1.892	ug/l	# 1
56) Ethyl methacrylate	10.686	69	2076	0.334	ug/l	# 1
67) Ethyl Benzene	11.845	91	42715	2.933	ug/l	92
68) m/p-Xylenes	11.945	106	54340	10.499	ug/l	91
69) o-Xylene	12.280	106	21210	4.077	ug/l	85
70) Styrene	12.274	104	1964	0.240	ug/l	# 1
71) Bromoform	12.727	173	1541	0.711	ug/l	# 28
76) 1,2,3-Trichloropropane	12.727	75	137307	37.131	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.727	75	137307	97.107	ug/l	# 10
84) 1,2,4-Trimethylbenzene	13.369	105	2219	0.238	ug/l	74
95) Naphthalene	15.504	128	7392	0.982	ug/l	# 95

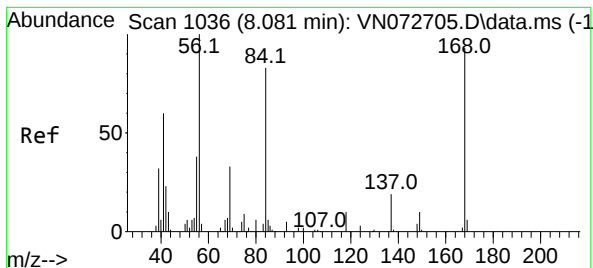
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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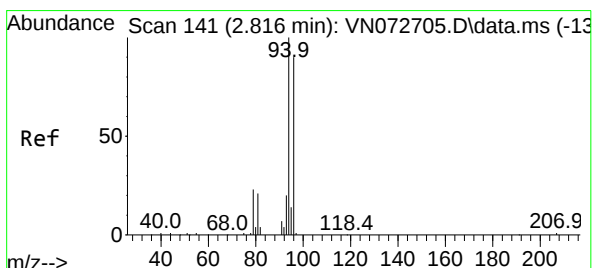
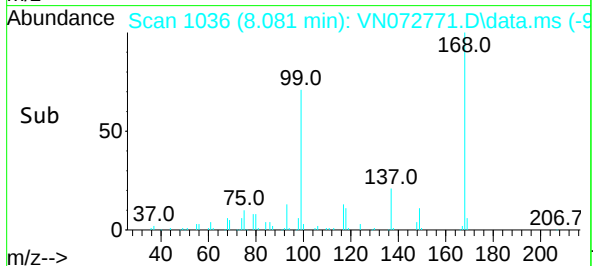
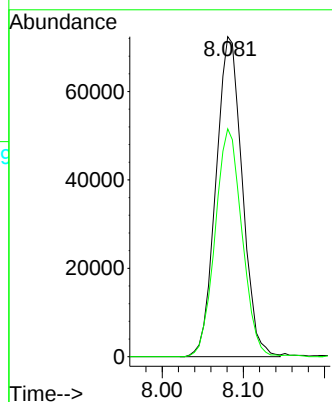
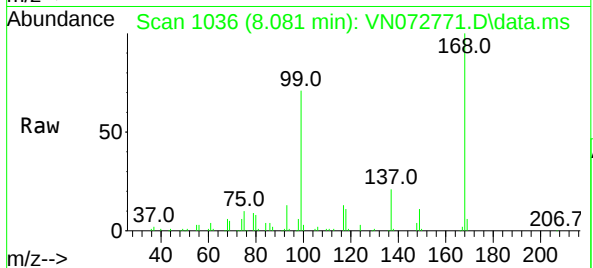




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

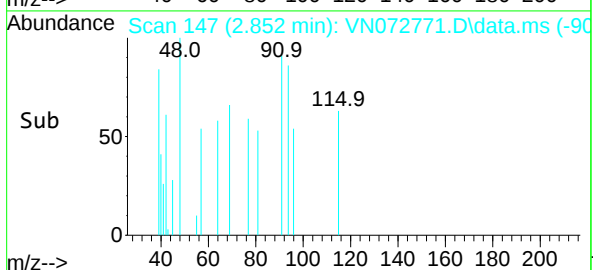
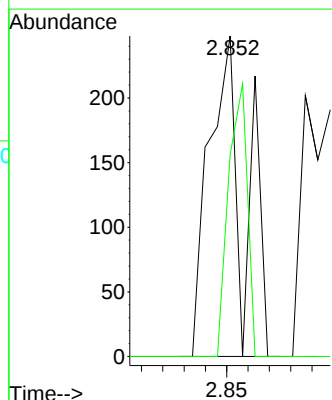
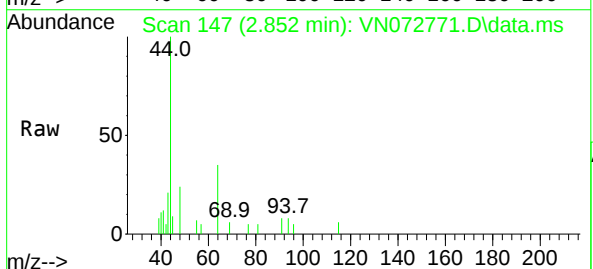
Instrument :
MSVOA_N
ClientSampleId :
52322-C

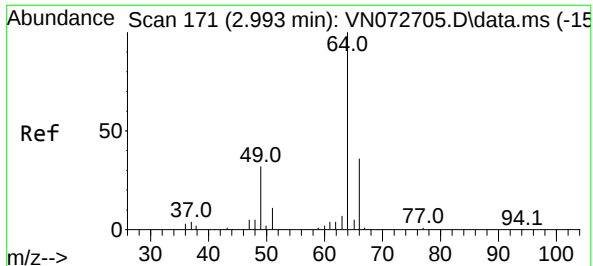
Tgt Ion:168 Resp: 162913
Ion Ratio Lower Upper
168 100
99 71.2 42.3 63.5#



#5
Bromomethane
Concen: Below Cal
RT: 2.852 min Scan# 147
Delta R.T. 0.036 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 94 Resp: 284
Ion Ratio Lower Upper
94 100
96 62.9 76.0 114.0#

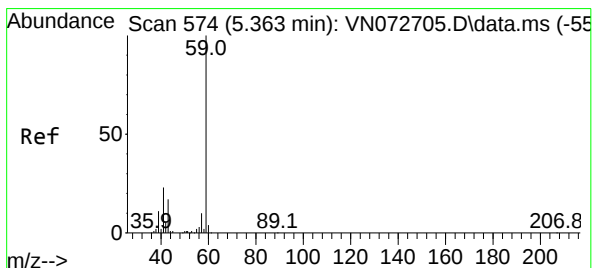
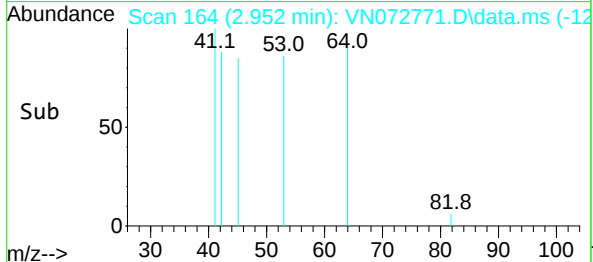
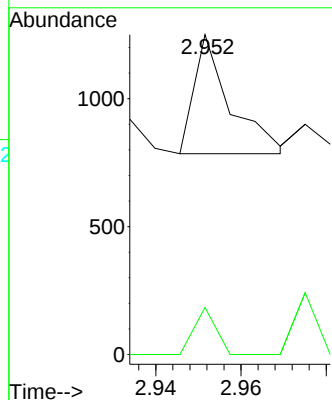
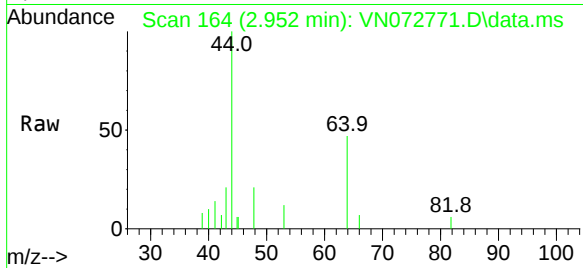




#6
Chloroethane
Concen: Below Cal
RT: 2.952 min Scan# 11
Delta R.T. -0.041 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

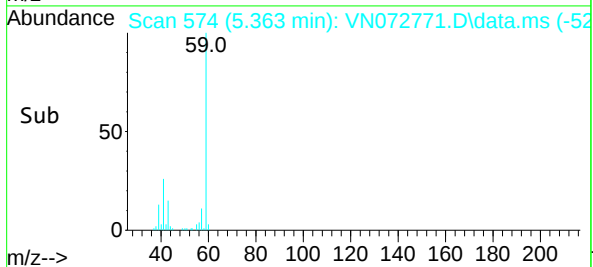
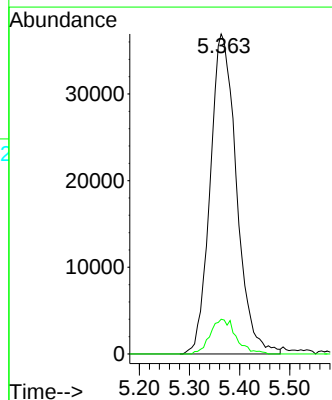
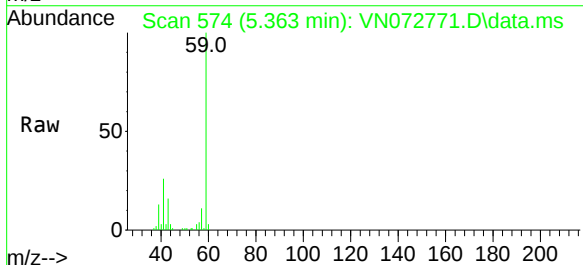
Instrument :
MSVOA_N
ClientSampleId :
52322-C

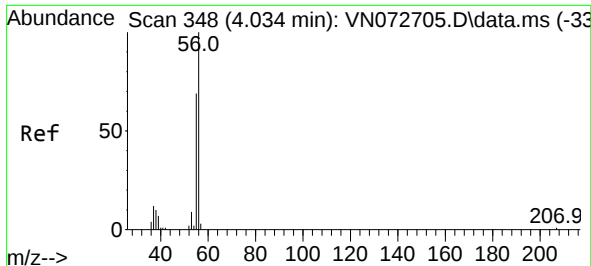
Tgt Ion: 64 Resp: 273
Ion Ratio Lower Upper
64 100
66 39.6 26.2 39.4#



#11
Tert butyl alcohol
Concen: 129.113 ug/l
RT: 5.363 min Scan# 574
Delta R.T. 0.000 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 59 Resp: 134671
Ion Ratio Lower Upper
59 100
57 10.7 8.3 12.5

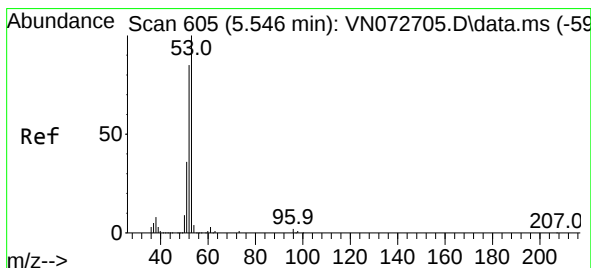
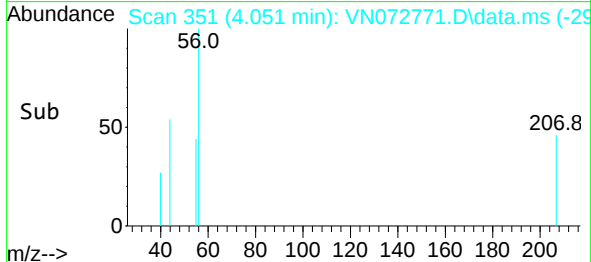
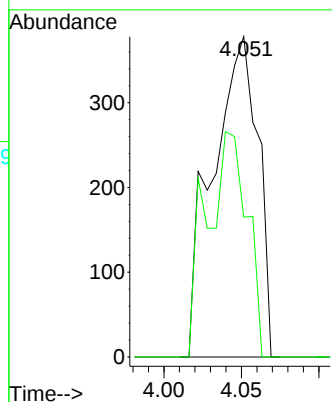
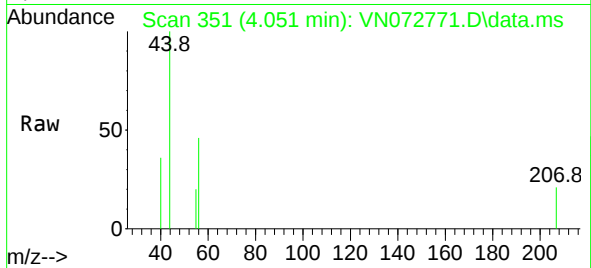




#13
Acrolein
Concen: 1.780 ug/l
RT: 4.051 min Scan# 31
Delta R.T. 0.017 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

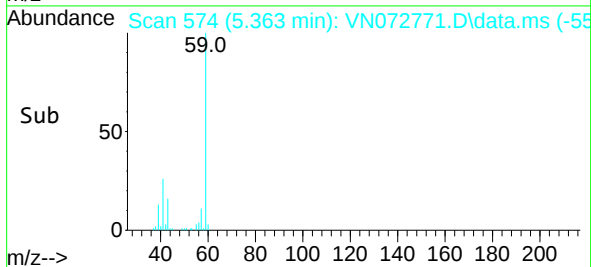
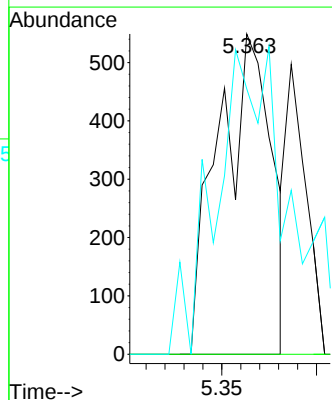
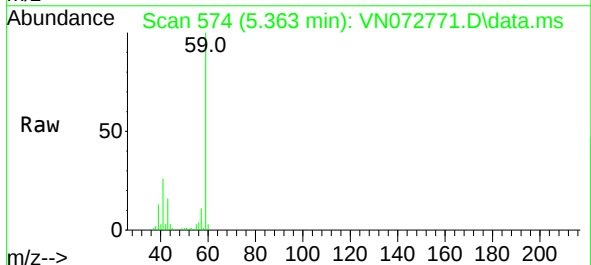
Instrument :
MSVOA_N
ClientSampleId :
52322-C

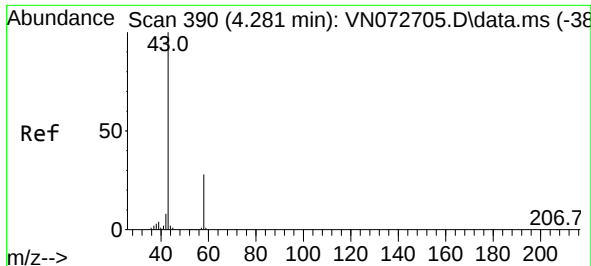
Tgt Ion: 56 Resp: 767
Ion Ratio Lower Upper
56 100
55 63.1 54.8 82.2



#15
Acrylonitrile
Concen: 0.485 ug/l
RT: 5.363 min Scan# 574
Delta R.T. -0.183 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 53 Resp: 1072
Ion Ratio Lower Upper
53 100
52 0.0 66.4 99.6#
51 129.9 28.5 42.7#

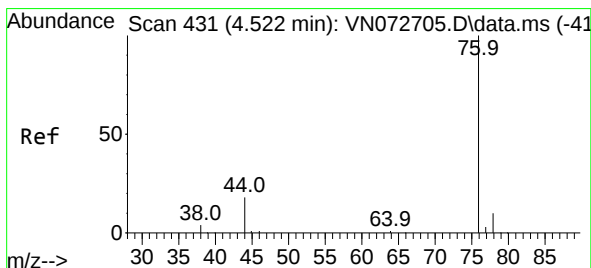
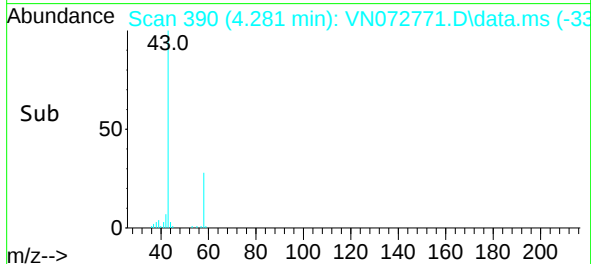
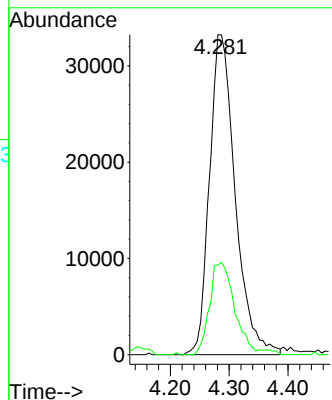
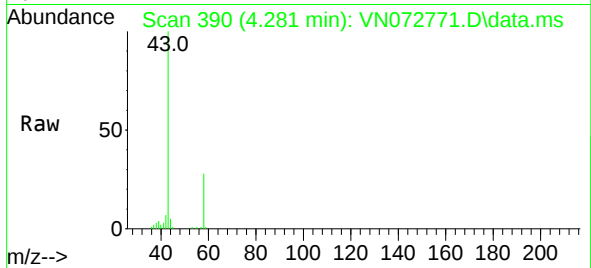




#16
Acetone
Concen: 48.238 ug/l
RT: 4.281 min Scan# 390
Delta R.T. -0.000 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

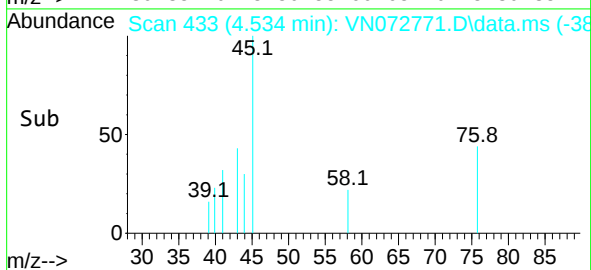
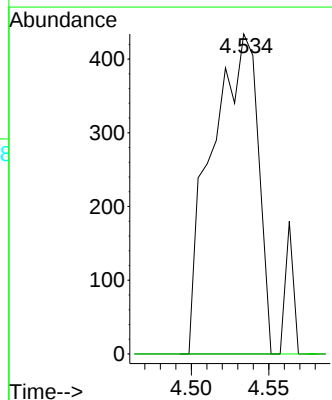
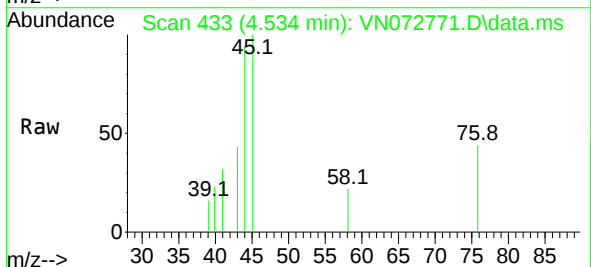
Instrument :
MSVOA_N
ClientSampleId :
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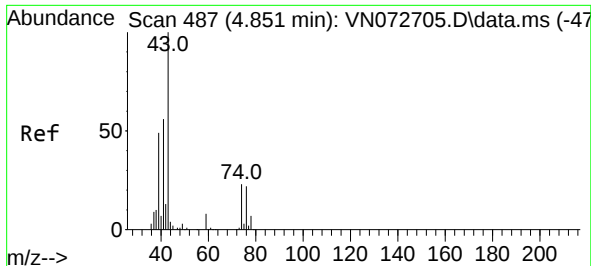
Tgt Ion: 43 Resp: 101067
Ion Ratio Lower Upper
43 100
58 28.1 26.0 39.0



#17
Carbon Disulfide
Concen: 0.448 ug/l
RT: 4.534 min Scan# 433
Delta R.T. 0.012 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 76 Resp: 901
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

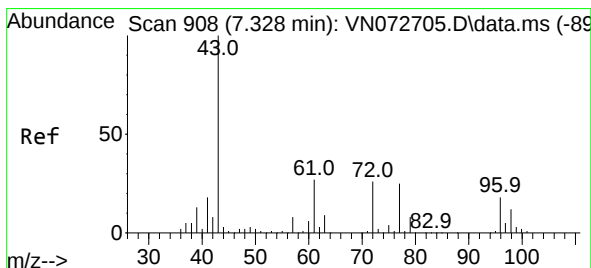
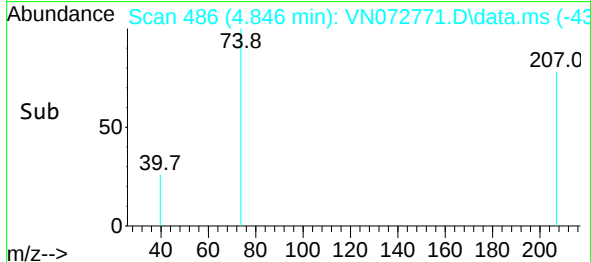
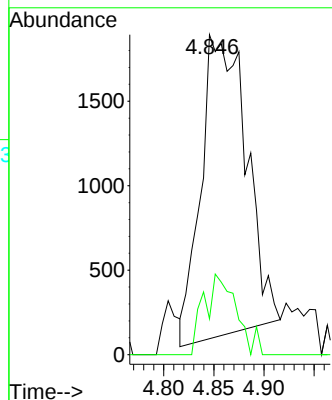
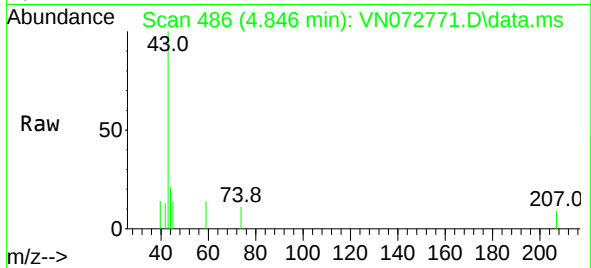




#18
Methyl Acetate
Concen: 1.026 ug/l
RT: 4.846 min Scan# 486
Delta R.T. -0.005 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

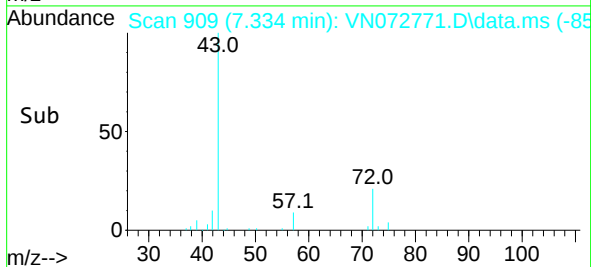
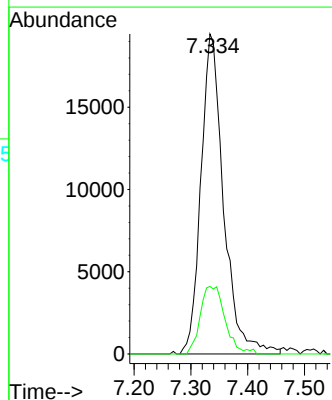
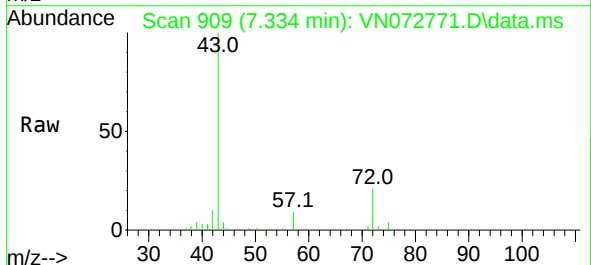
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ClientSampleId :
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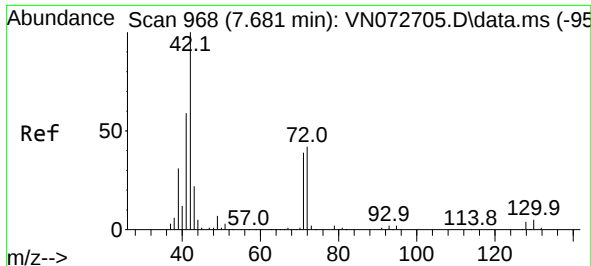
Tgt Ion: 43 Resp: 5591
Ion Ratio Lower Upper
43 100
74 19.1 21.6 32.4#



#25
2-Butanone
Concen: 15.994 ug/l
RT: 7.334 min Scan# 909
Delta R.T. 0.006 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 43 Resp: 53904
Ion Ratio Lower Upper
43 100
72 21.1 23.7 35.5#





#29

Tetrahydrofuran

Concen: 0.604 ug/l

RT: 7.692 min Scan# 91

Delta R.T. 0.011 min

Lab File: VN072771.D

Acq: 10 Jun 2022 17:48

Instrument :

MSVOA_N

ClientSampleId :

52322-C

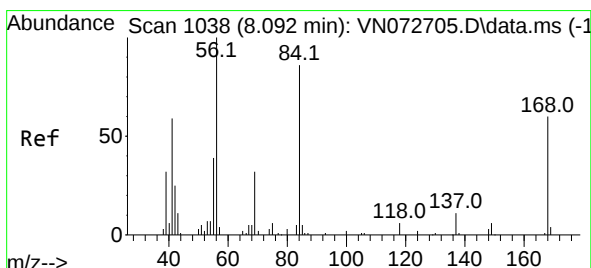
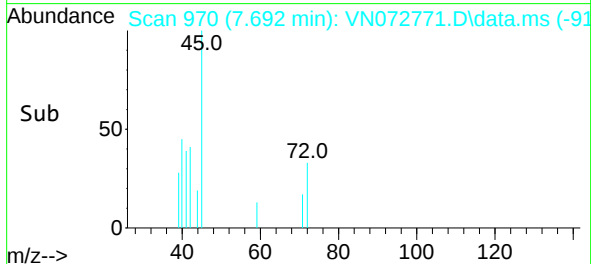
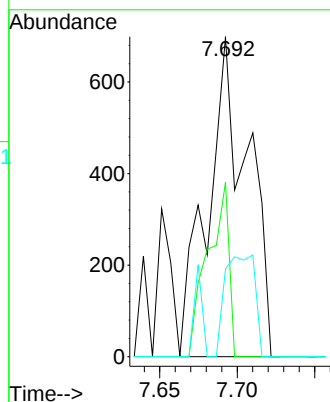
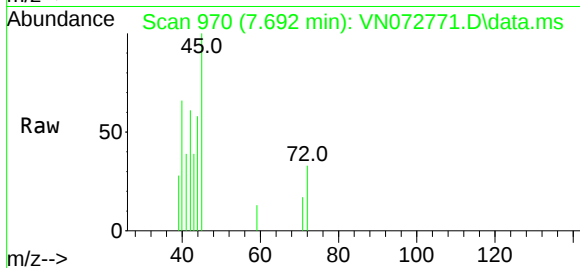
Tgt Ion: 42 Resp: 1258

Ion Ratio Lower Upper

42 100

72 28.6 39.7 59.5#

71 5.6 36.6 55.0#



#31

Cyclohexane

Concen: 0.457 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VN072771.D

Acq: 10 Jun 2022 17:48

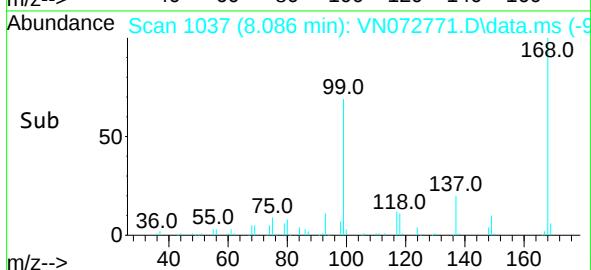
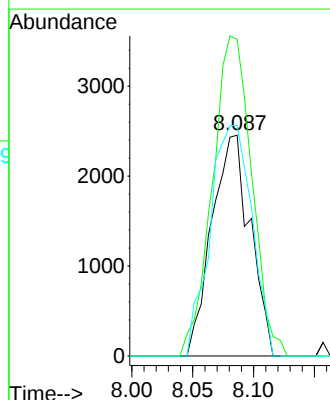
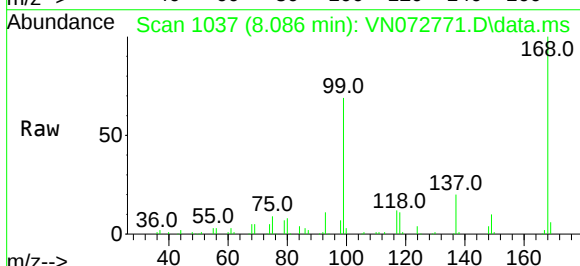
Tgt Ion: 56 Resp: 5378

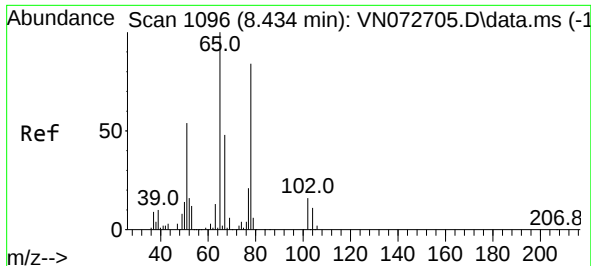
Ion Ratio Lower Upper

56 100

69 143.4 27.8 41.8#

84 104.6 76.9 115.3

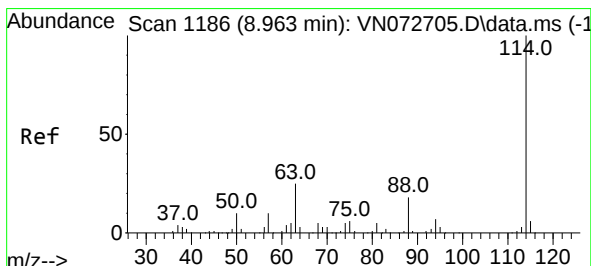
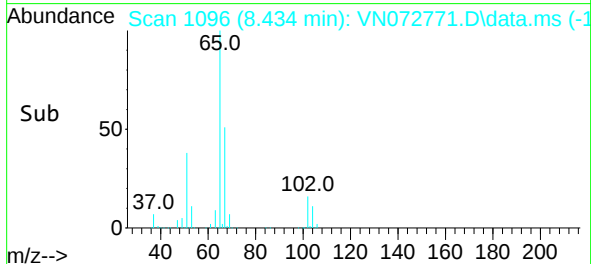
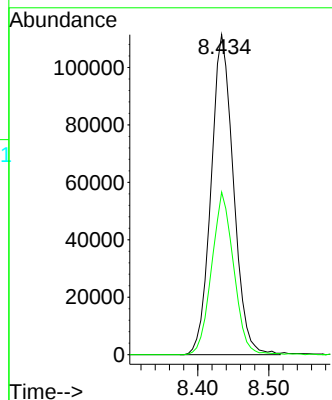
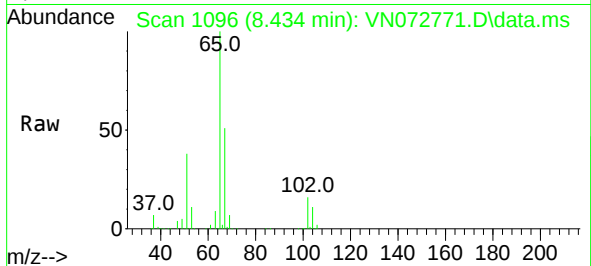




#33
1,2-Dichloroethane-d4
Concen: 55.759 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

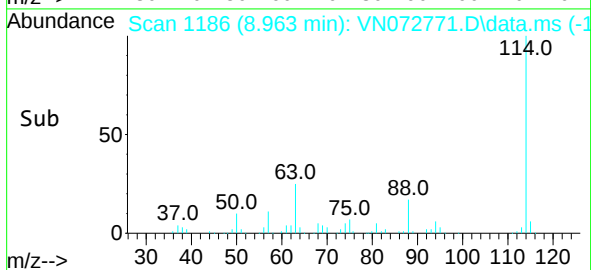
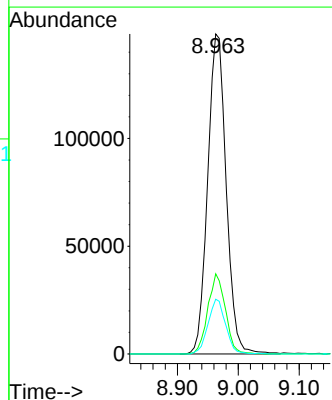
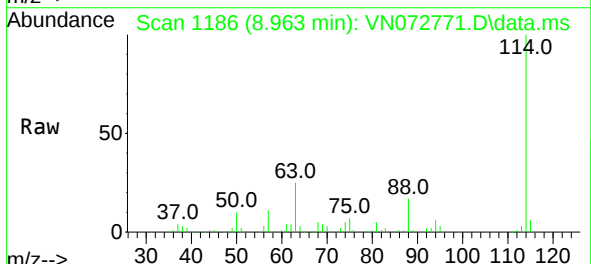
Instrument :
MSVOA_N
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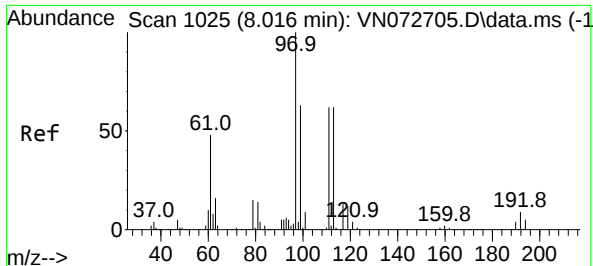
Tgt Ion: 65 Resp: 243804
Ion Ratio Lower Upper
65 100
67 49.9 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 114 Resp: 313060
Ion Ratio Lower Upper
114 100
63 25.0 0.0 40.0
88 17.1 0.0 32.6





#35

Dibromofluoromethane

Concen: 57.183 ug/l

RT: 8.016 min Scan# 1035

Delta R.T. -0.000 min

Lab File: VN072771.D

Acq: 10 Jun 2022 17:48

Instrument :

MSVOA_N

ClientSampleId :

52322-C

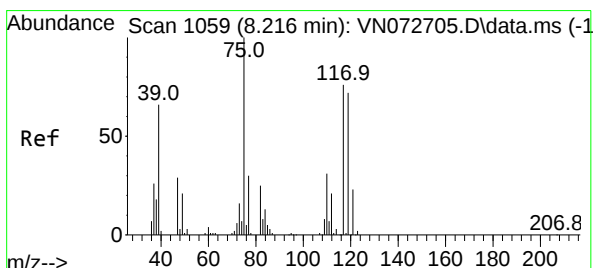
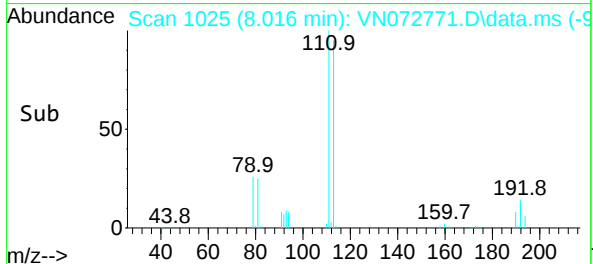
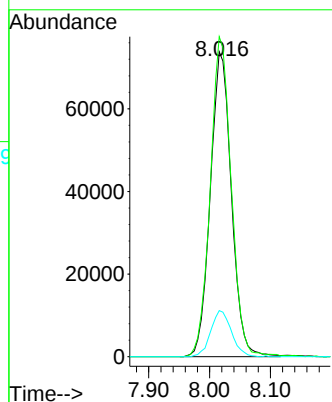
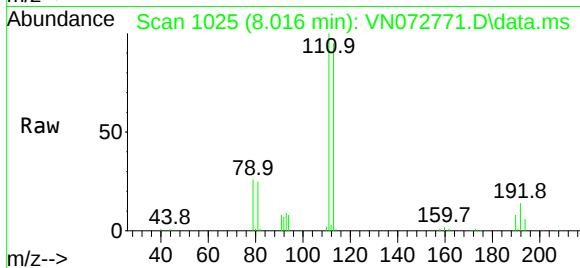
Tgt Ion:113 Resp: 177134

Ion Ratio Lower Upper

113 100

111 104.7 81.4 122.0

192 14.9 17.0 25.6#



#36

1,1-Dichloropropene

Concen: 3.832 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN072771.D

Acq: 10 Jun 2022 17:48

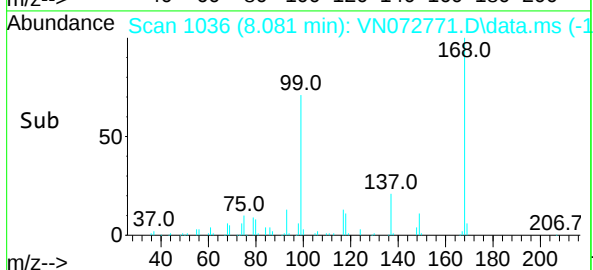
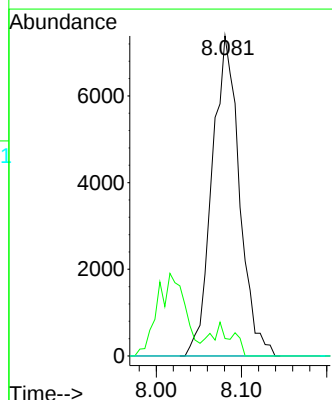
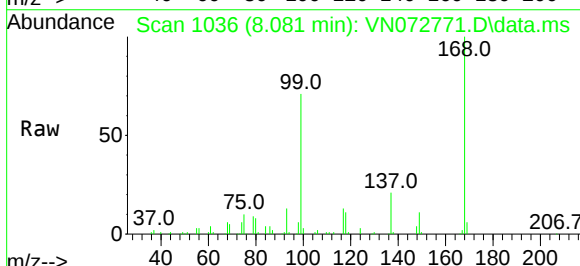
Tgt Ion: 75 Resp: 16475

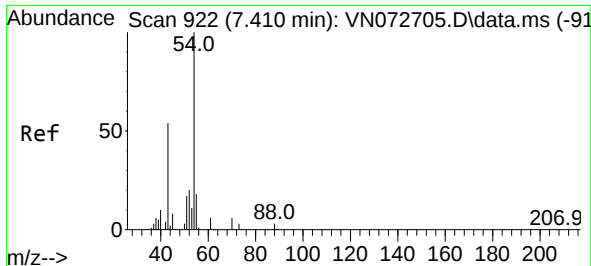
Ion Ratio Lower Upper

75 100

110 8.1 18.3 54.8#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 8.069 ug/l

RT: 7.334 min Scan# 90

Delta R.T. -0.076 min

Lab File: VN072771.D

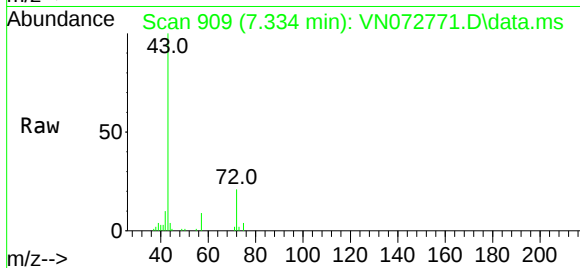
Acq: 10 Jun 2022 17:48

Instrument :

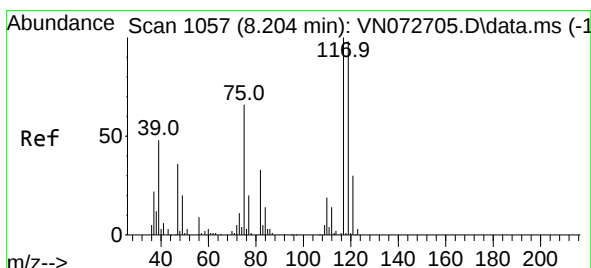
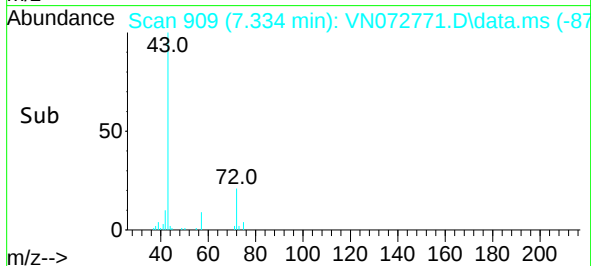
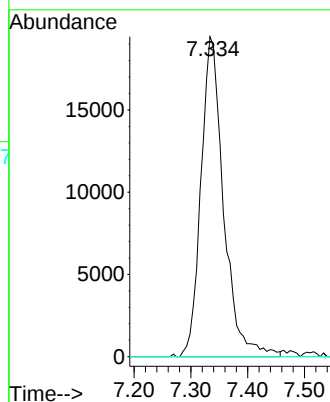
MSVOA_N

ClientSampleId :

52322-C



Tgt Ion:	43	Resp:	53904
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.6#
70	0.0	9.3	13.9#



#38

Carbon Tetrachloride

Concen: 4.533 ug/l

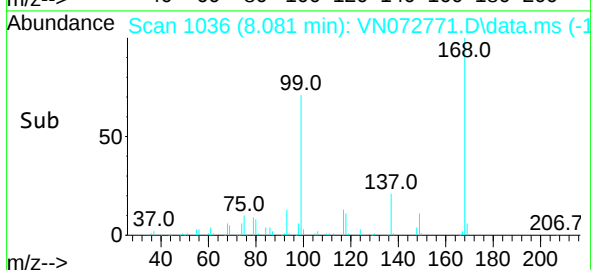
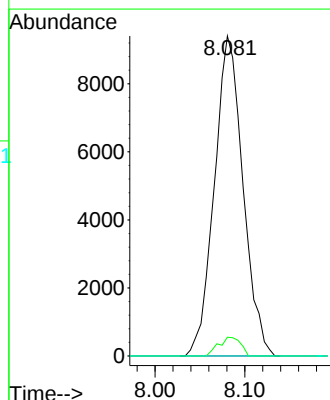
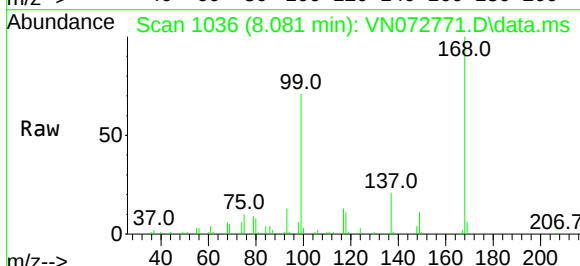
RT: 8.081 min Scan# 1036

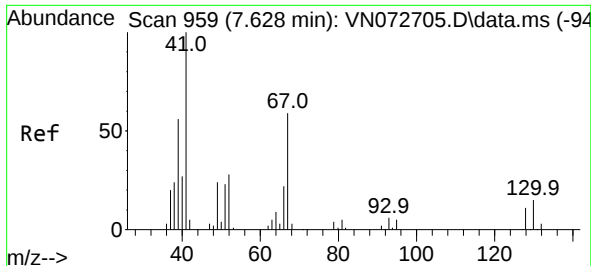
Delta R.T. -0.123 min

Lab File: VN072771.D

Acq: 10 Jun 2022 17:48

Tgt Ion:	117	Resp:	20830
Ion	Ratio	Lower	Upper
117	100		
119	5.8	75.8	113.8#
121	0.0	24.6	37.0#

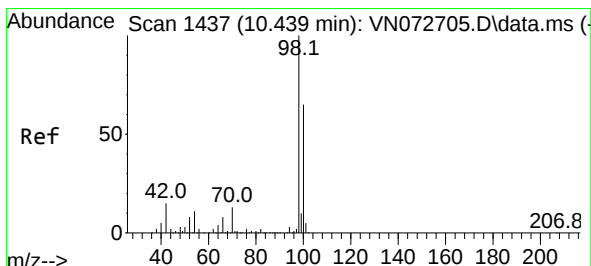
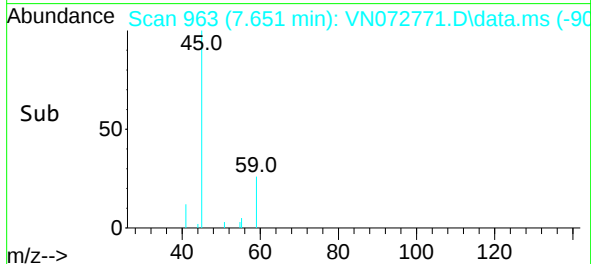
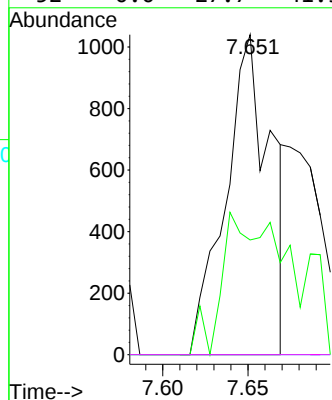
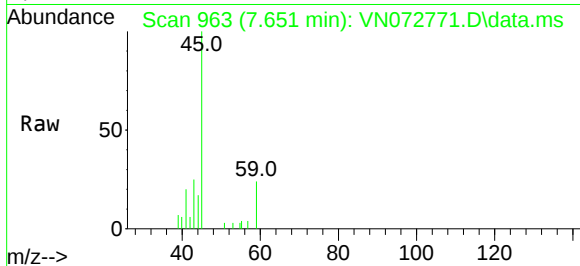




#41
Methacrylonitrile
Concen: 0.852 ug/l
RT: 7.651 min Scan# 91
Delta R.T. 0.023 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

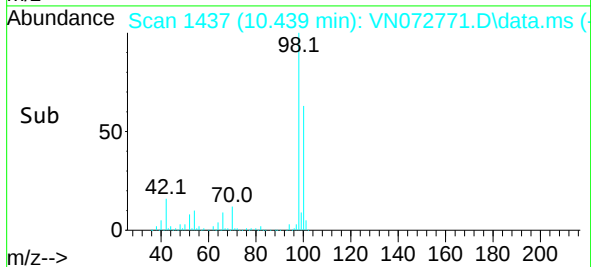
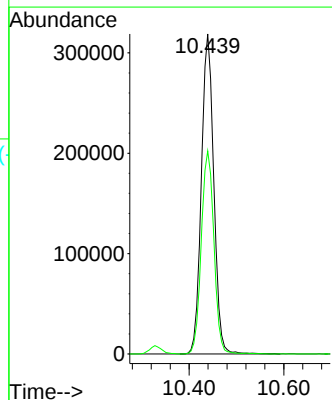
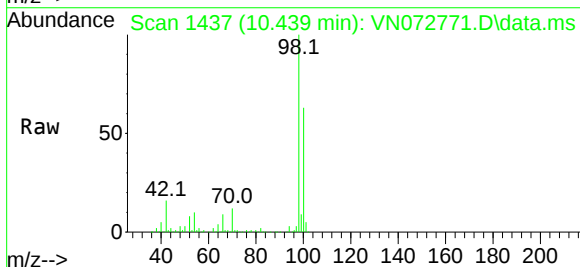
Instrument :
MSVOA_N
ClientSampleId :
52322-C

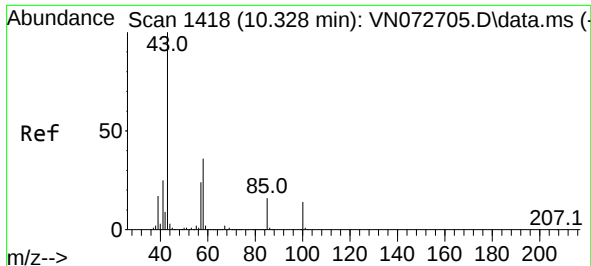
Tgt Ion: 41	Resp: 1919
Ion Ratio	Lower Upper
41 100	
39 58.9	48.6 73.0
67 0.0	73.4 110.2#
52 0.0	27.7 41.5#



#50
Toluene-d8
Concen: 46.845 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 98	Resp: 578965
Ion Ratio	Lower Upper
98 100	
100 64.5	52.6 78.8

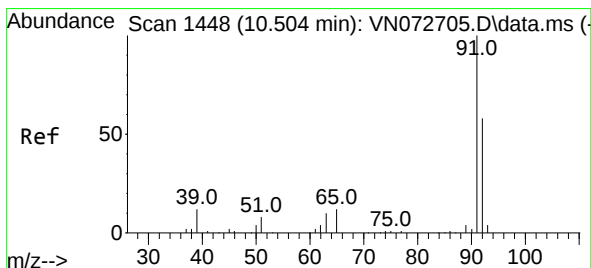
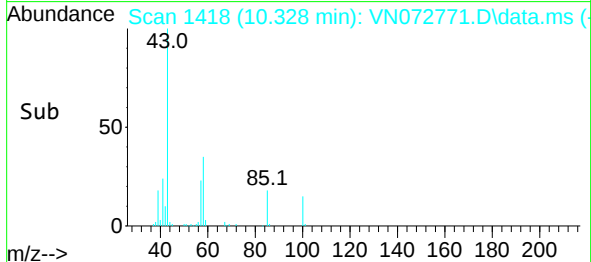
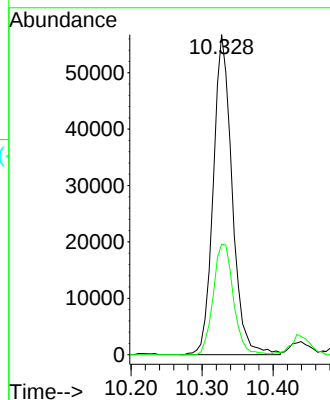
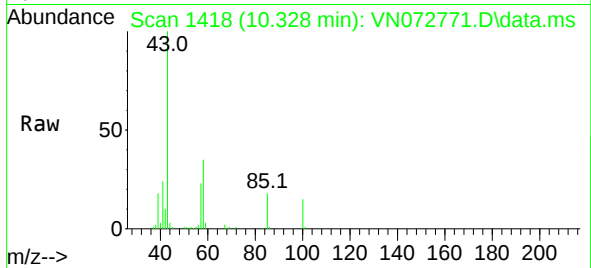




#51
4-Methyl-2-Pentanone
Concen: 15.432 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. -0.000 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

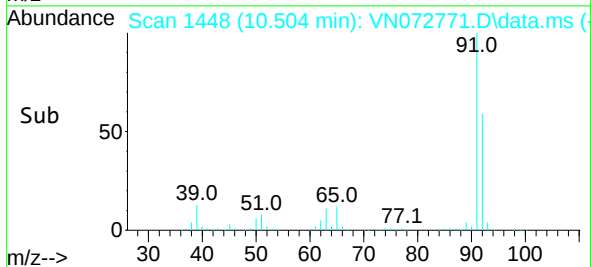
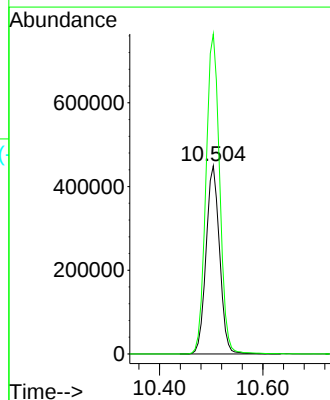
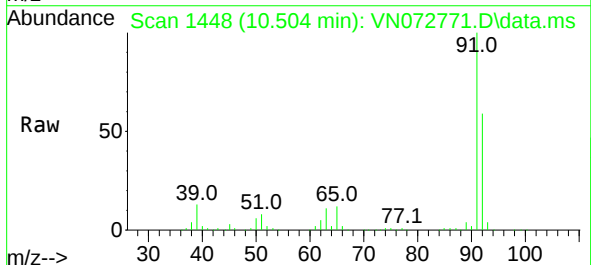
Instrument :
MSVOA_N
ClientSampleId :
52322-C

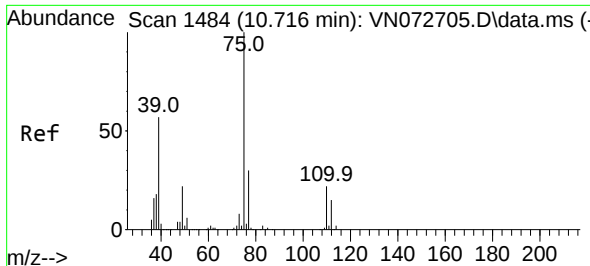
Tgt Ion: 43 Resp: 104557
Ion Ratio Lower Upper
43 100
58 36.9 34.1 51.1



#52
Toluene
Concen: 100.020 ug/l
RT: 10.504 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 92 Resp: 814836
Ion Ratio Lower Upper
92 100
91 172.6 138.6 207.8

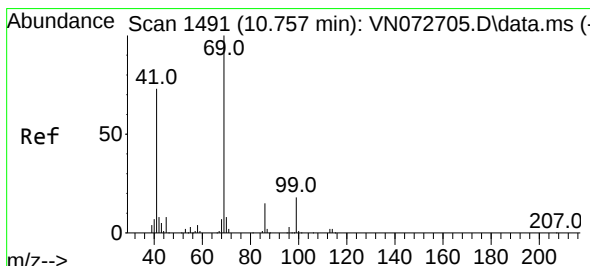
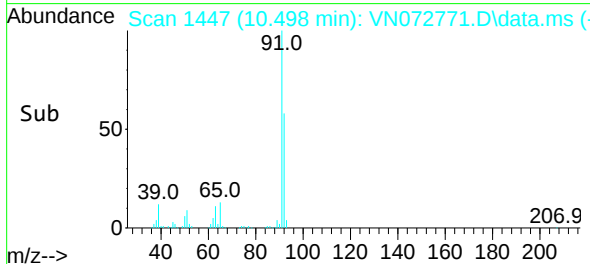
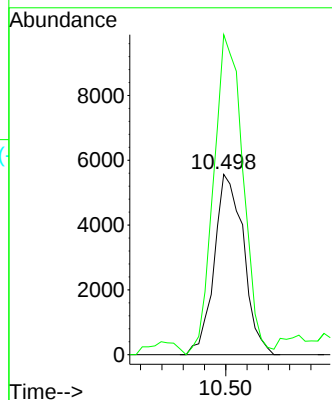
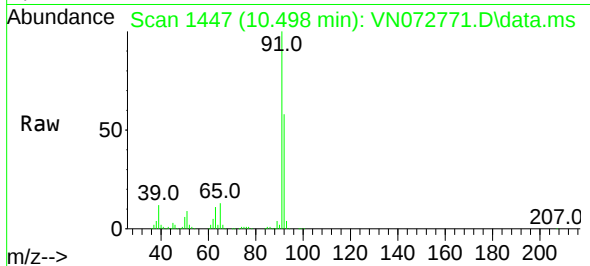




#53
t-1,3-Dichloropropene
Concen: 1.892 ug/l
RT: 10.498 min Scan# 1447
Delta R.T. -0.218 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

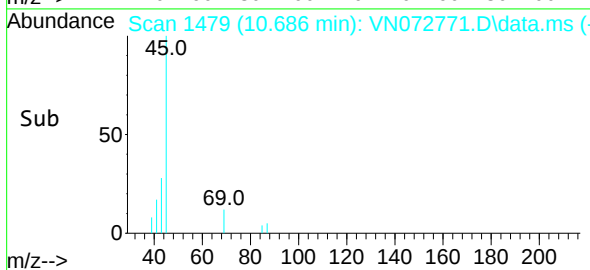
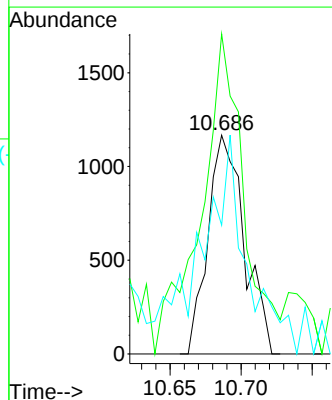
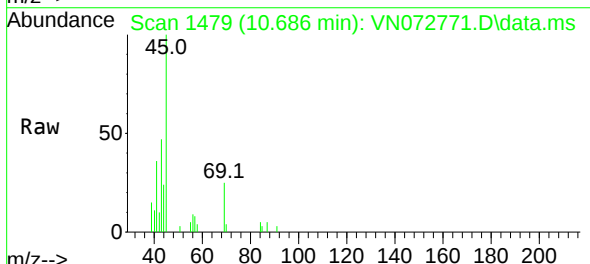
Instrument :
MSVOA_N
ClientSampleId :
52322-C

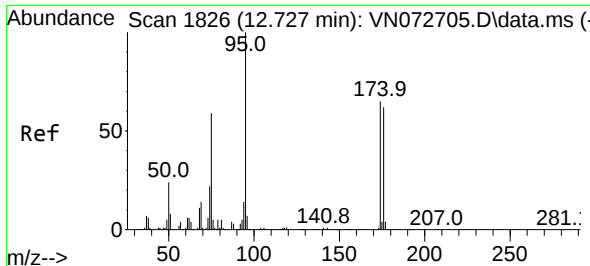
Tgt Ion: 75 Resp: 10649
Ion Ratio Lower Upper
75 100
77 174.2 25.6 38.4#



#56
Ethyl methacrylate
Concen: 0.334 ug/l
RT: 10.686 min Scan# 1479
Delta R.T. -0.071 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 69 Resp: 2076
Ion Ratio Lower Upper
69 100
41 172.6 47.8 71.6#
39 0.0 27.3 40.9#

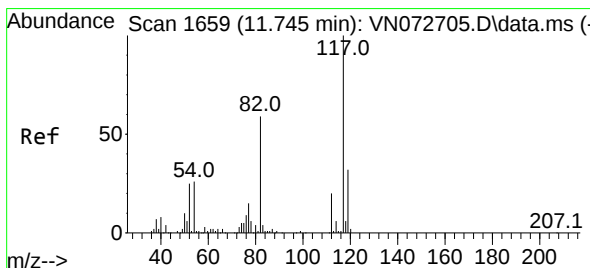
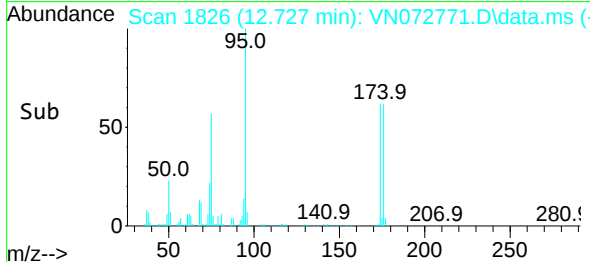
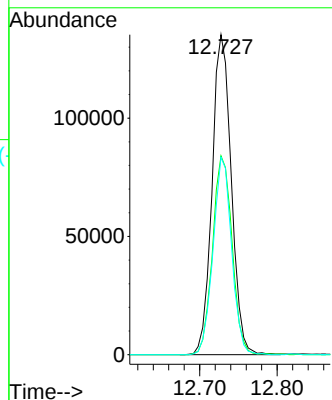
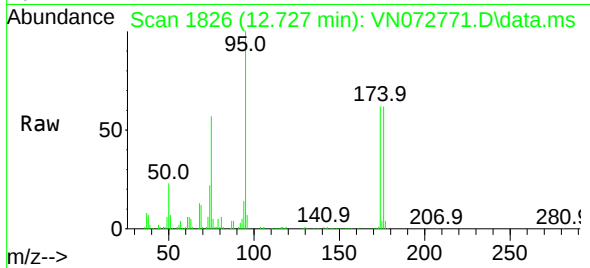




#62
4-Bromofluorobenzene
Concen: 54.893 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

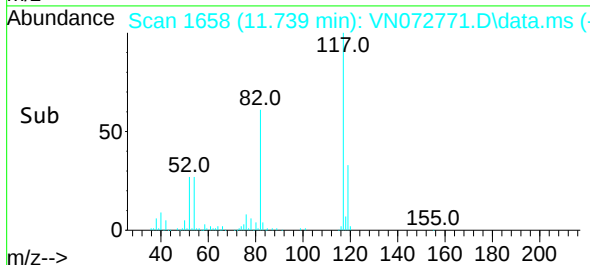
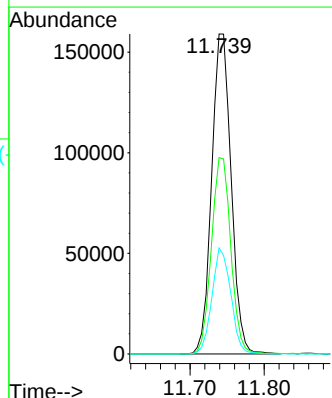
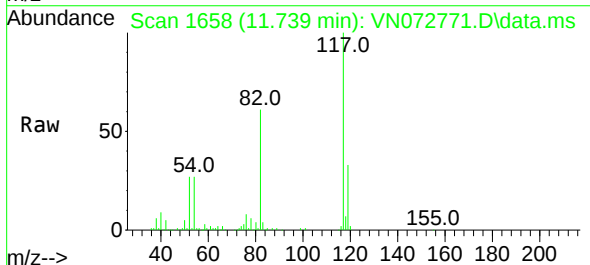
Instrument :
MSVOA_N
ClientSampleId :
52322-C

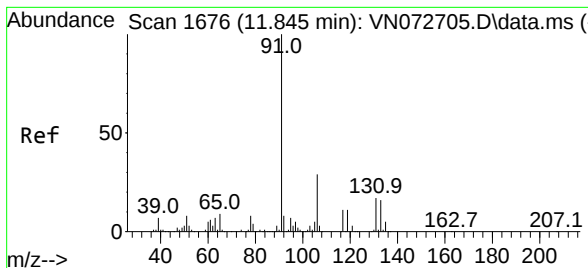
Tgt Ion: 95 Resp: 232799
Ion Ratio Lower Upper
95 100
174 63.2 0.0 167.6
176 59.6 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. -0.006 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 117 Resp: 290669
Ion Ratio Lower Upper
117 100
82 61.4 44.2 66.2
119 33.1 25.4 38.0





#67

Ethyl Benzene

Concen: 2.933 ug/l

RT: 11.845 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VN072771.D

Acq: 10 Jun 2022 17:48

Instrument :

MSVOA_N

ClientSampleId :

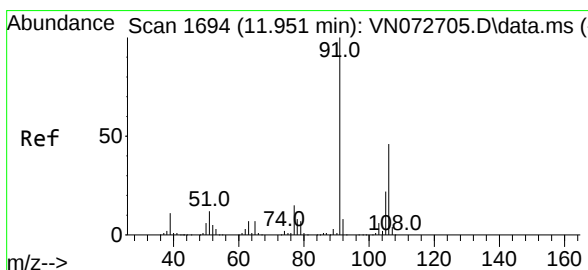
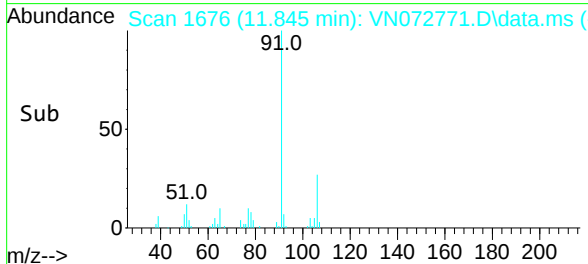
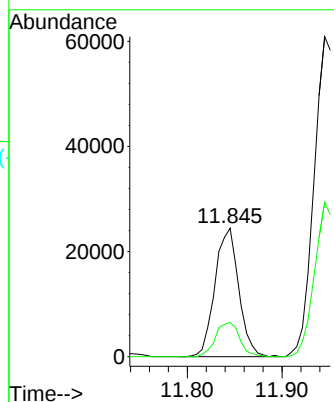
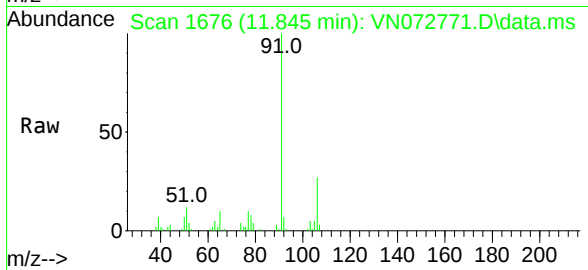
52322-C

Tgt Ion: 91 Resp: 42715

Ion Ratio Lower Upper

91 100

106 26.5 24.9 37.3



#68

m/p-Xylenes

Concen: 10.499 ug/l

RT: 11.945 min Scan# 1693

Delta R.T. -0.006 min

Lab File: VN072771.D

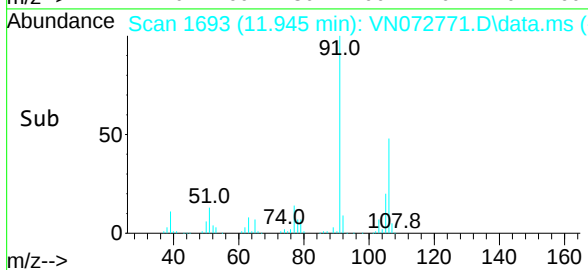
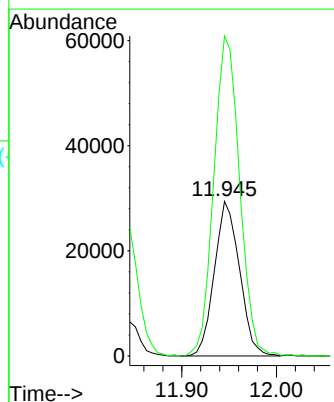
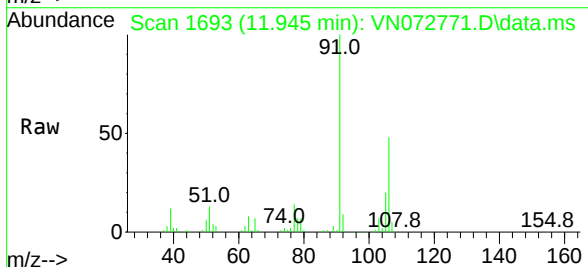
Acq: 10 Jun 2022 17:48

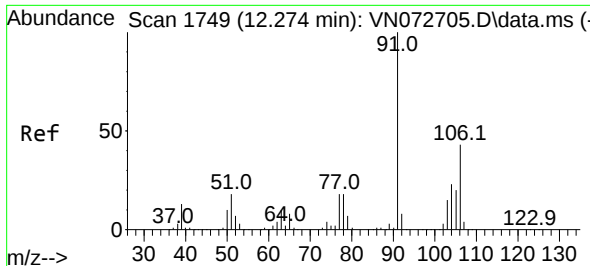
Tgt Ion: 106 Resp: 54340

Ion Ratio Lower Upper

106 100

91 212.6 158.9 238.3

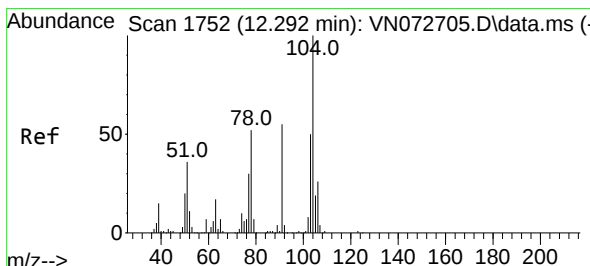
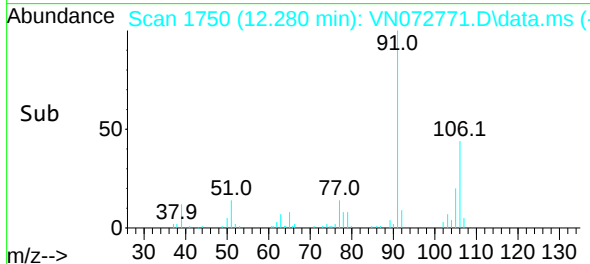
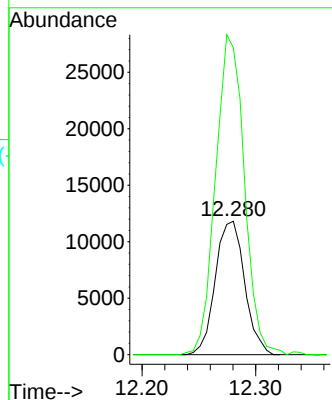
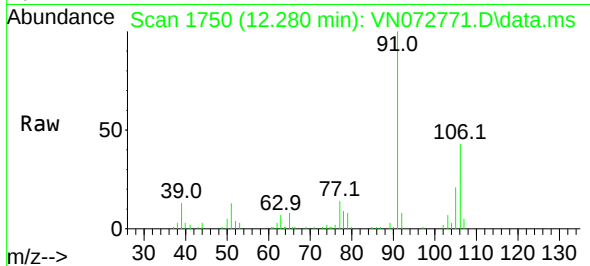




#69
o-Xylene
Concen: 4.077 ug/l
RT: 12.280 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

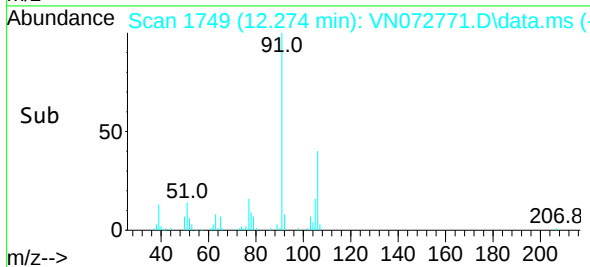
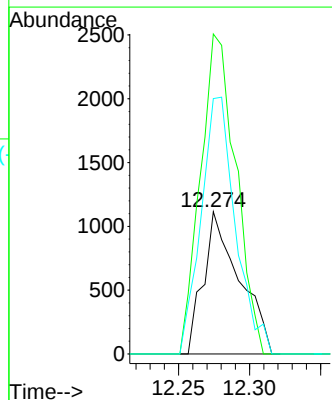
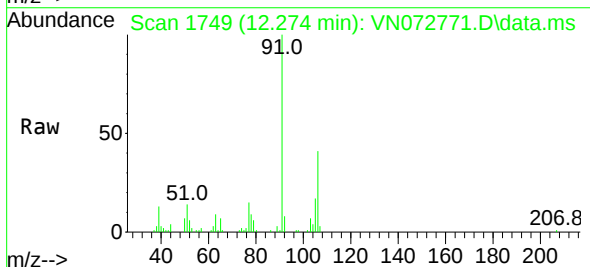
Instrument :
MSVOA_N
ClientSampleId :
52322-C

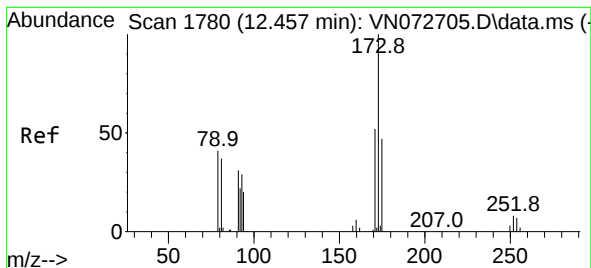
Tgt Ion:106 Resp: 21210
Ion Ratio Lower Upper
106 100
91 234.8 106.0 318.0



#70
Styrene
Concen: 0.240 ug/l
RT: 12.274 min Scan# 1749
Delta R.T. -0.018 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion:104 Resp: 1964
Ion Ratio Lower Upper
104 100
78 221.1 39.5 59.3#
103 172.9 44.0 66.0#





#71

Bromoform

Concen: 0.711 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. 0.270 min

Lab File: VN072771.D

Acq: 10 Jun 2022 17:48

Instrument :

MSVOA_N

ClientSampleId :

52322-C

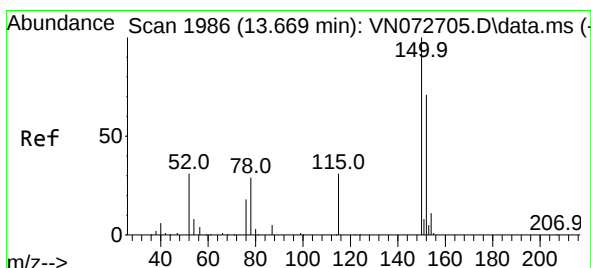
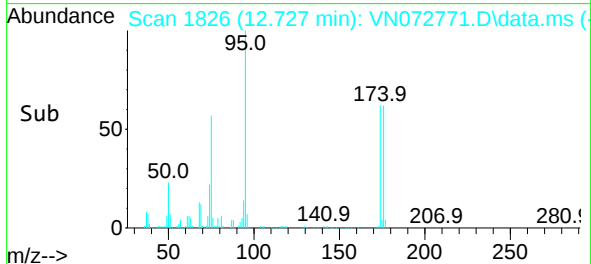
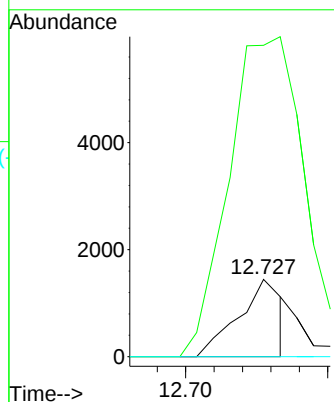
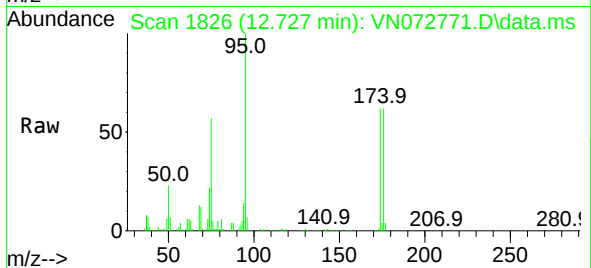
Tgt Ion:173 Resp: 1541

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.6#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.674 min Scan# 1987

Delta R.T. 0.005 min

Lab File: VN072771.D

Acq: 10 Jun 2022 17:48

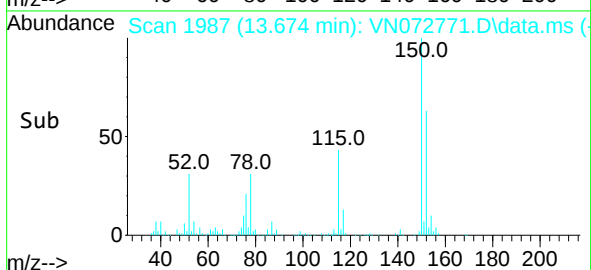
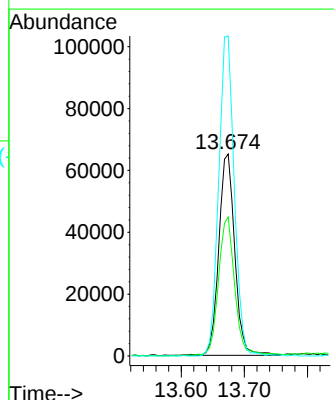
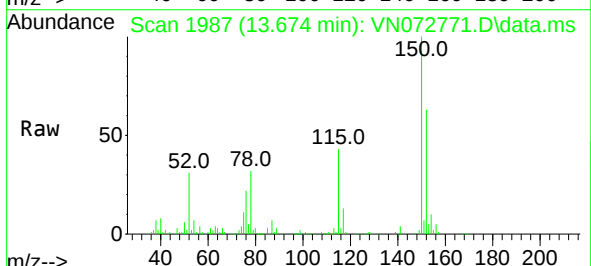
Tgt Ion:152 Resp: 114595

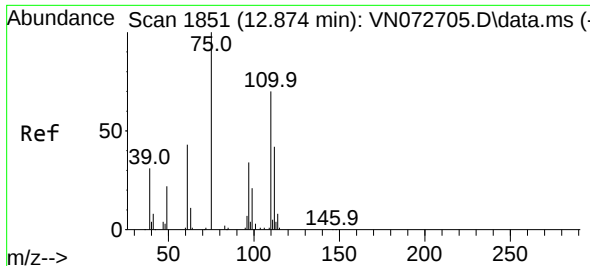
Ion Ratio Lower Upper

152 100

115 71.4 28.9 86.7

150 155.0 0.0 356.2

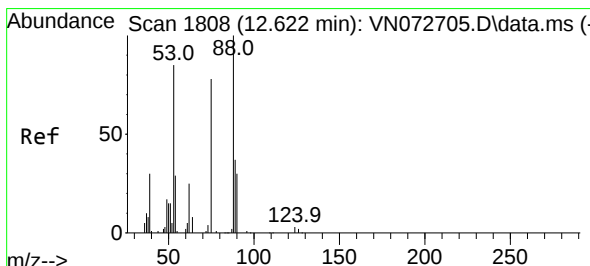
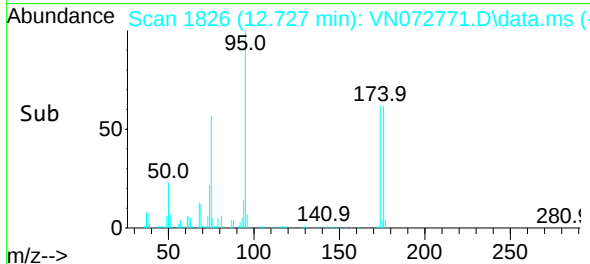
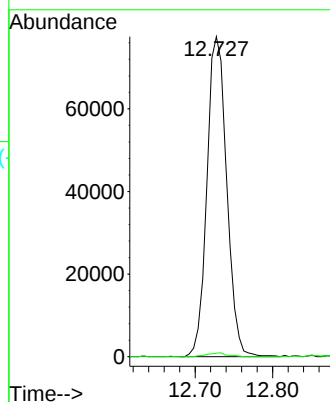
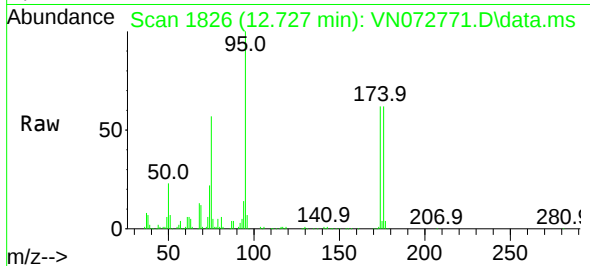




#76
1,2,3-Trichloropropane
Concen: 37.131 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

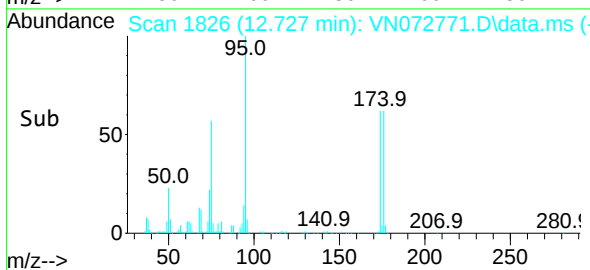
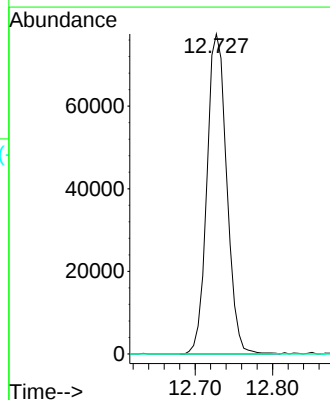
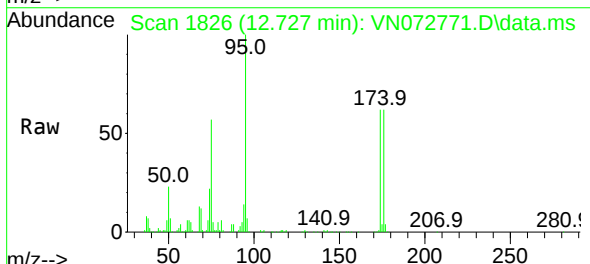
Instrument :
MSVOA_N
ClientSampleId :
52322-C

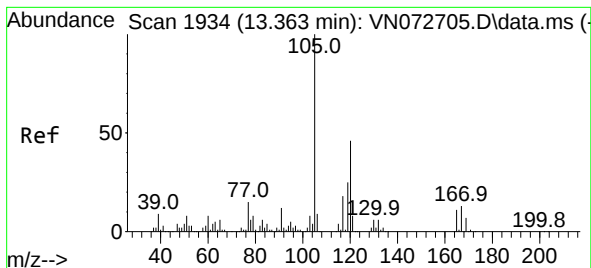
Tgt Ion: 75 Resp: 137307
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 97.107 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.105 min
Lab File: VN072771.D
Acq: 10 Jun 2022 17:48

Tgt Ion: 75 Resp: 137307
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.238 ug/l

RT: 13.369 min Scan# 1934

Delta R.T. 0.006 min

Lab File: VN072771.D

Acq: 10 Jun 2022 17:48

Instrument :

MSVOA_N

ClientSampleId :

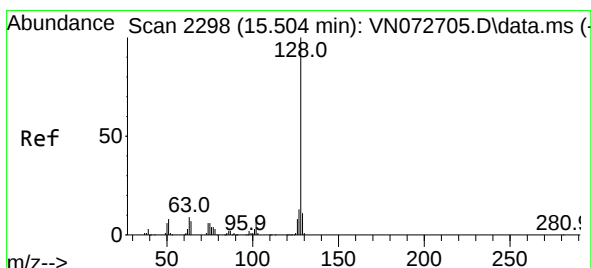
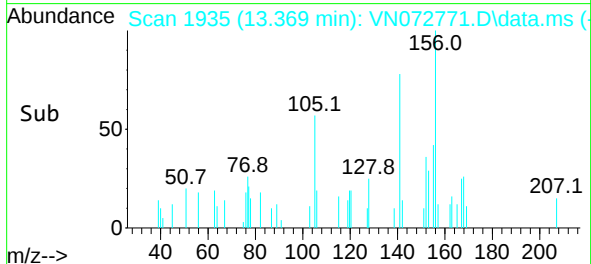
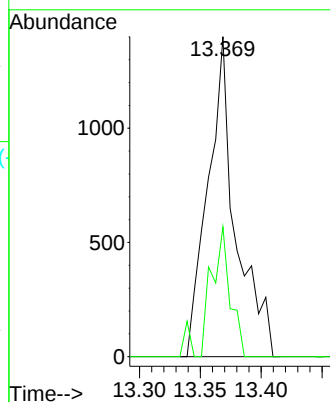
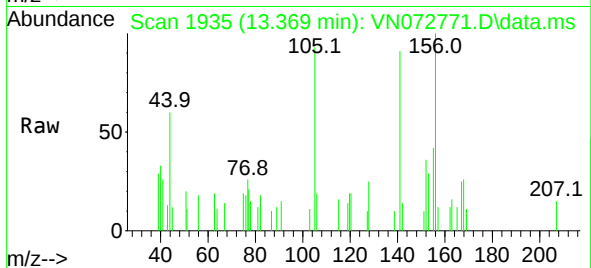
52322-C

Tgt Ion:105 Resp: 2219

Ion Ratio Lower Upper

105 100

120 29.4 23.3 69.8



#95

Naphthalene

Concen: 0.982 ug/l

RT: 15.504 min Scan# 2298

Delta R.T. -0.000 min

Lab File: VN072771.D

Acq: 10 Jun 2022 17:48

Tgt Ion:128 Resp: 7392

Ion Ratio Lower Upper

128 100

127 10.3 10.3 15.5#

129 11.8 8.6 13.0

