

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042122\
 Data File : VN072125.D
 Acq On : 21 Apr 2022 15:09
 Operator : JC\MD
 Sample : N2482-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-23RRE

Quant Time: Apr 22 01:23:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 31 01:57:54 2022
 Response via : Initial Calibration

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

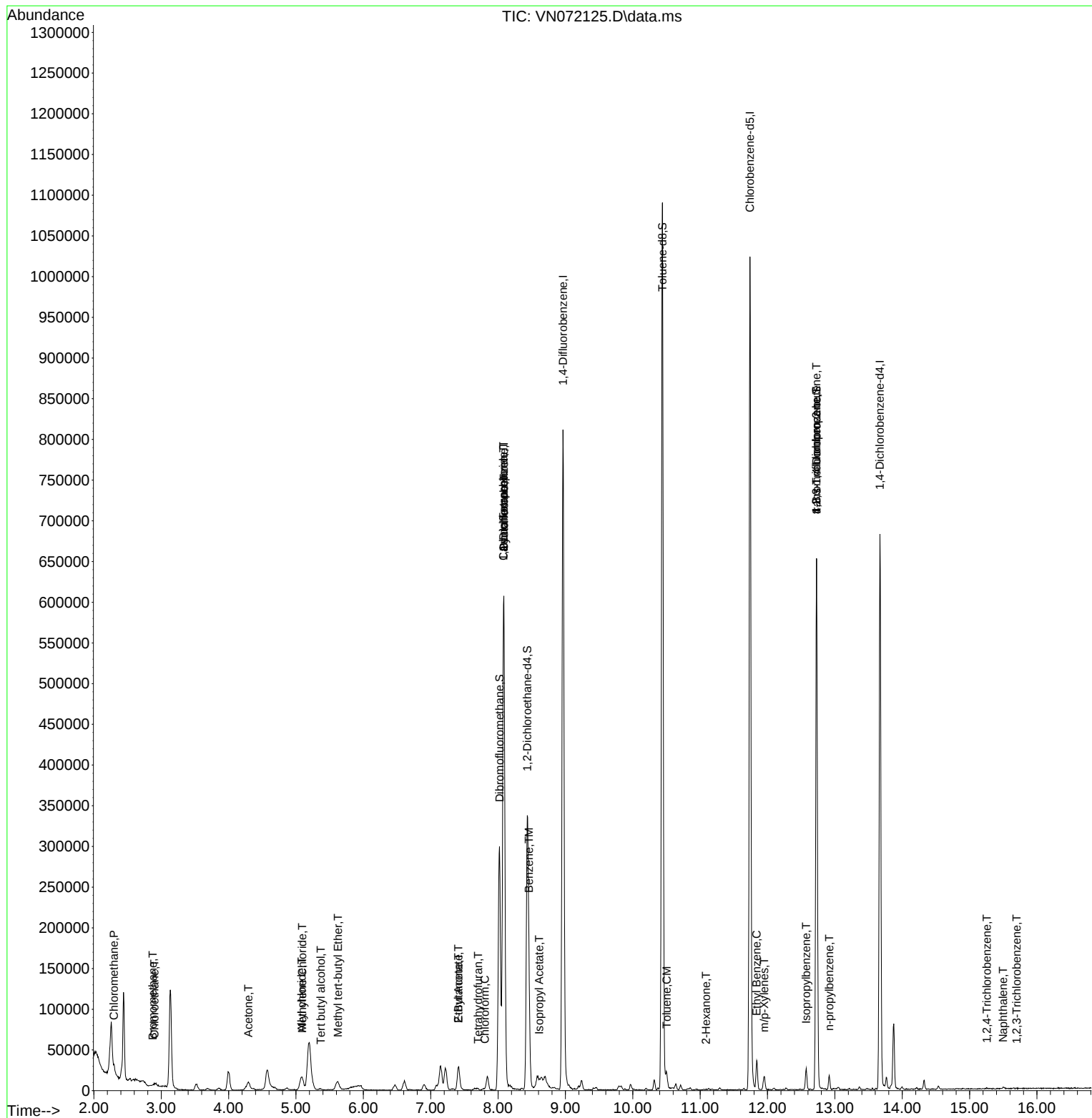
Internal Standards						
1) Pentafluorobenzene	8.087	168	478347	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	752538	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	643796	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	206465	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	263936	48.332	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.660%
35) Dibromofluoromethane	8.022	113	224368	50.667	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	101.340%
50) Toluene-d8	10.439	98	803015	44.329	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	88.660%
62) 4-Bromofluorobenzene	12.727	95	236124	40.303	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	80.600%
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	1623	0.337	ug/l	91
5) Bromomethane	2.875	94	882	0.256	ug/l #	78
6) Chloroethane	2.899	64	1007	0.265	ug/l #	42
11) Tert butyl alcohol	5.369	59	3379	3.813	ug/l #	84
14) Allyl chloride	5.087	41	7652	1.194	ug/l #	56
16) Acetone	4.293	43	15650	6.706	ug/l	99
18) Methyl Acetate	4.857	43	5046	Below Cal		90
19) Methyl tert-butyl Ether	5.622	73	12365	0.843	ug/l #	65
20) Methylene Chloride	5.093	84	2449	0.498	ug/l #	65
25) 2-Butanone	7.410	43	46875	13.932	ug/l #	45
29) Tetrahydrofuran	7.704	42	1291	0.593	ug/l #	50
30) Chloroform	7.804	83	1939	0.224	ug/l #	58
31) Cyclohexane	8.087	56	40198	5.413	ug/l #	74
36) 1,1-Dichloropropene	8.081	75	31052	5.021	ug/l #	50
37) Ethyl Acetate	7.410	43	46875	6.925	ug/l	97
38) Carbon Tetrachloride	8.081	117	42049	6.938	ug/l #	17
40) Benzene	8.457	78	86181	4.412	ug/l	98
43) Isopropyl Acetate	8.610	43	12714	1.129	ug/l #	53
52) Toluene	10.504	92	6632	0.537	ug/l	87
59) 2-Hexanone	11.086	43	968	0.212	ug/l #	30
67) Ethyl Benzene	11.839	91	26851	1.230	ug/l #	85
68) m/p-Xylenes	11.951	106	6604	0.788	ug/l	94
73) Isopropylbenzene	12.574	105	17310	0.995	ug/l	97
76) 1,2,3-Trichloropropane	12.727	75	108532	22.692	ug/l #	1
78) n-propylbenzene	12.916	91	14010	0.766	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.727	75	108532	70.320	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.257	180	299	2.173	ug/l #	47
95) Naphthalene	15.498	128	2824	4.080	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.698	180	57	2.431	ug/l #	1

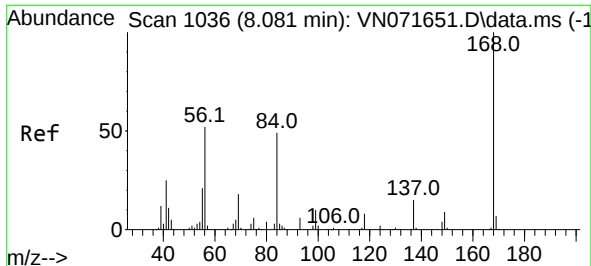
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

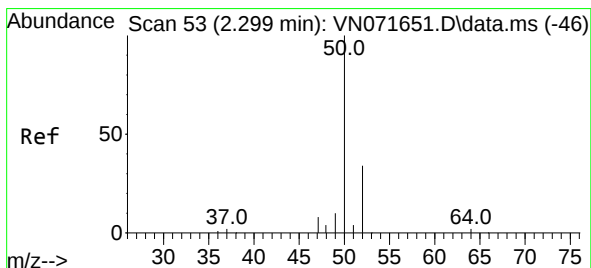
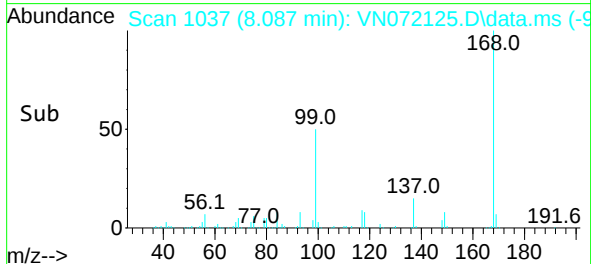
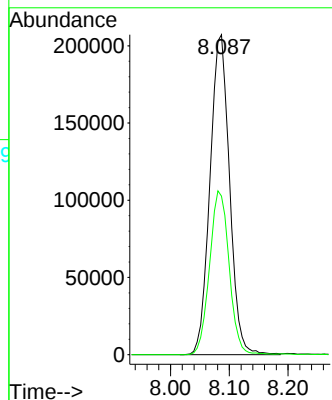
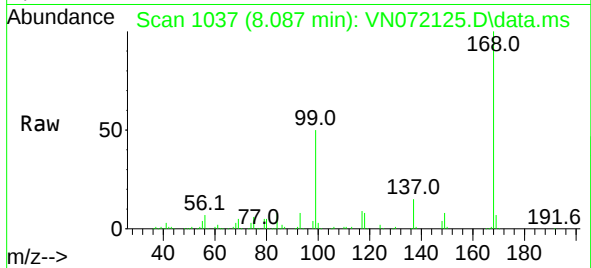




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.087 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

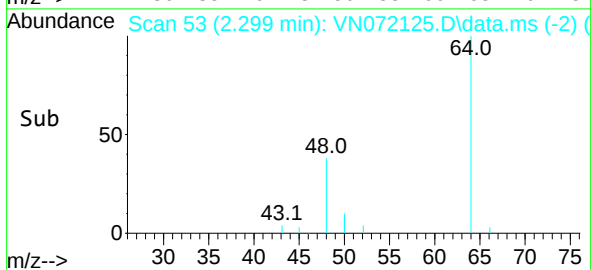
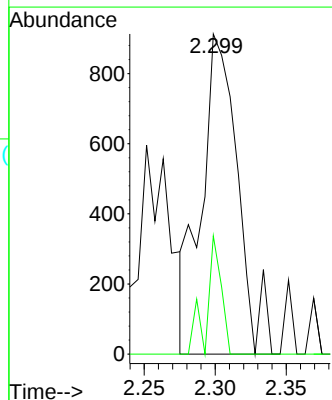
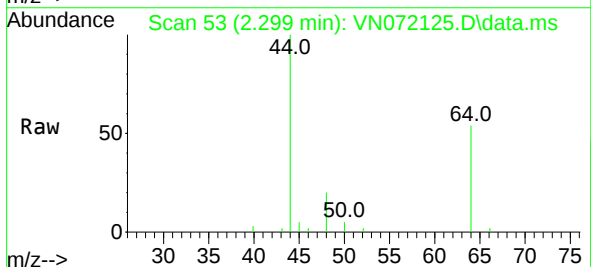
Instrument :
MSVOA_N
ClientSampleId :
MW-23RRE

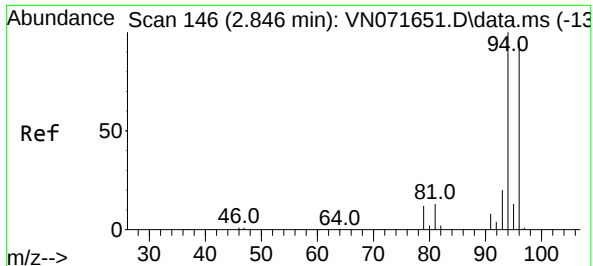
Tgt Ion:168 Resp: 478347
Ion Ratio Lower Upper
168 100
99 49.6 42.3 63.5



#3
Chloromethane
Concen: 0.337 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion: 50 Resp: 1623
Ion Ratio Lower Upper
50 100
52 36.9 25.7 38.5





#5

Bromomethane

Concen: 0.256 ug/l

RT: 2.875 min Scan# 11

Delta R.T. 0.029 min

Lab File: VN072125.D

Acq: 21 Apr 2022 15:09

Instrument :

MSVOA_N

ClientSampleId :

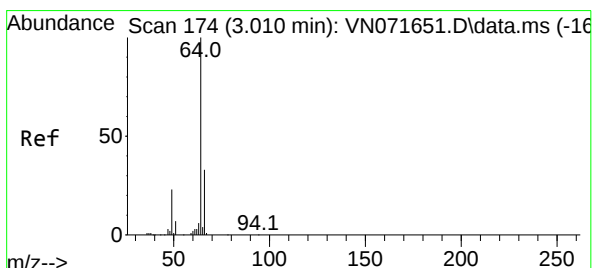
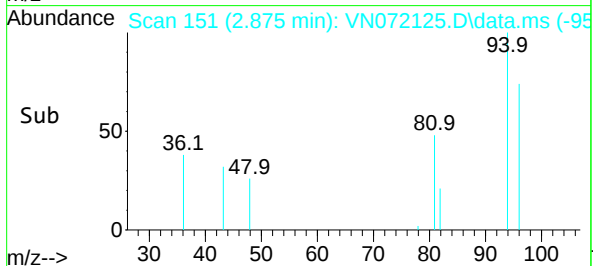
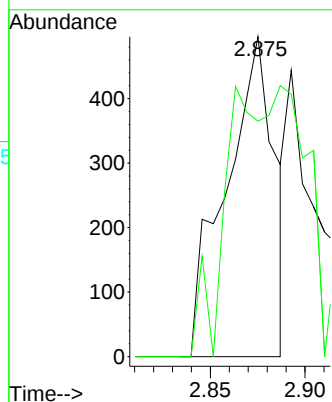
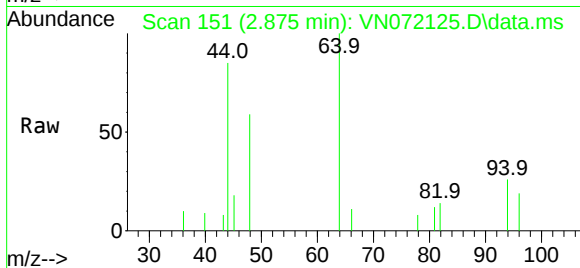
MW-23RRE

Tgt Ion: 94 Resp: 882

Ion Ratio Lower Upper

94 100

96 73.6 76.0 114.0#



#6

Chloroethane

Concen: 0.265 ug/l

RT: 2.899 min Scan# 155

Delta R.T. -0.111 min

Lab File: VN072125.D

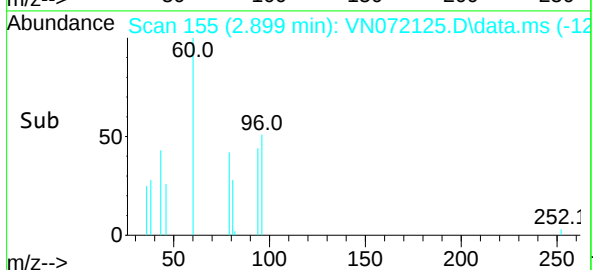
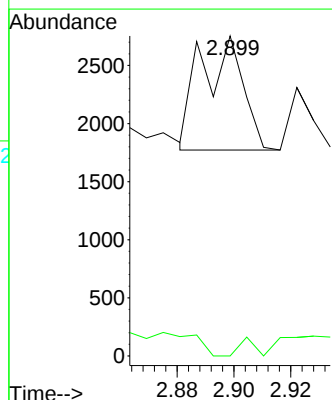
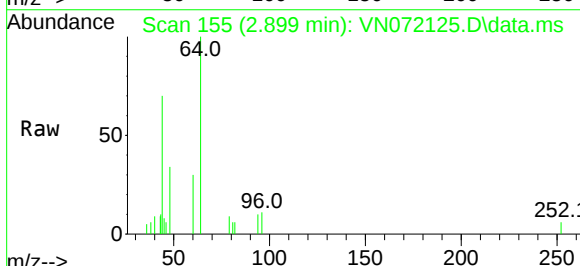
Acq: 21 Apr 2022 15:09

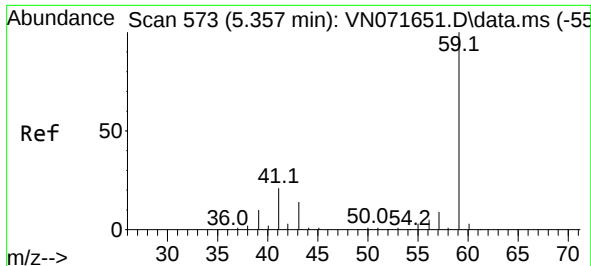
Tgt Ion: 64 Resp: 1007

Ion Ratio Lower Upper

64 100

66 0.0 26.2 39.4#

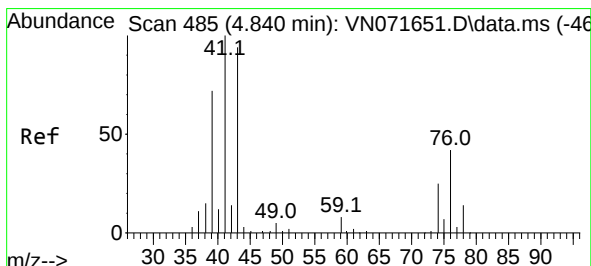
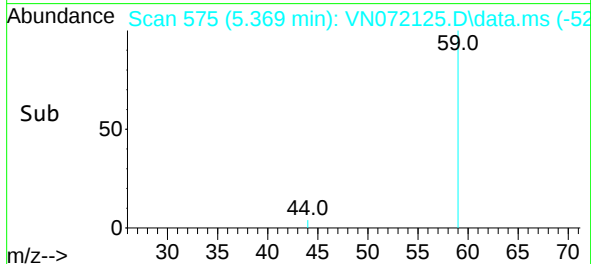
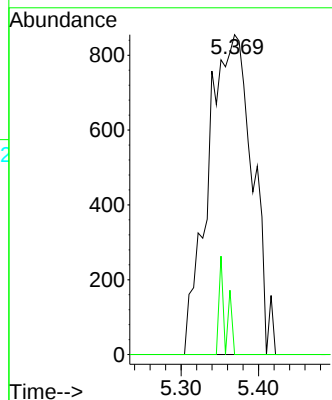
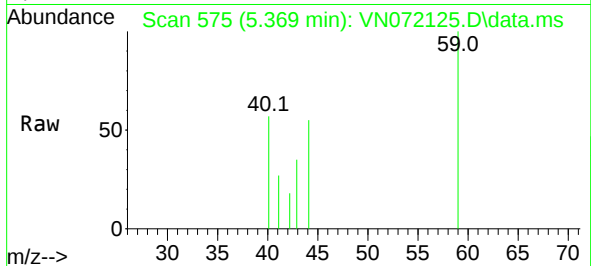




#11
Tert butyl alcohol
Concen: 3.813 ug/l
RT: 5.369 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

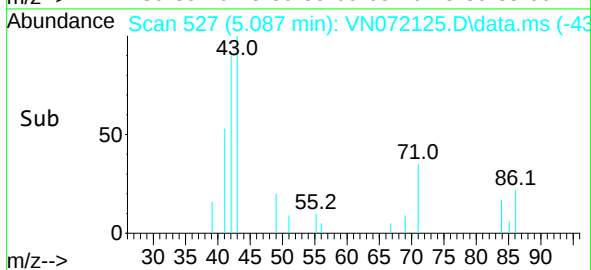
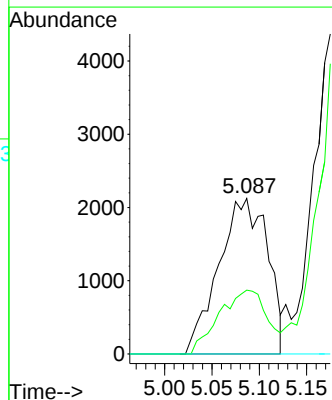
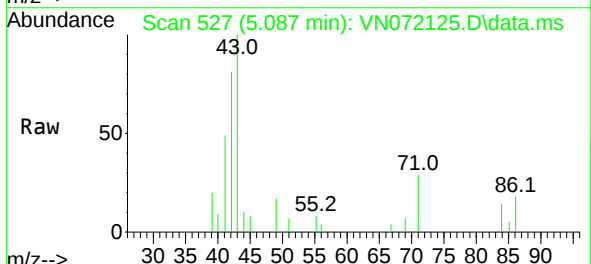
Instrument :
MSVOA_N
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MW-23RRE

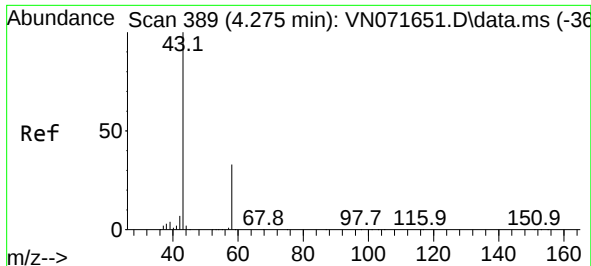
Tgt Ion: 59 Resp: 3379
Ion Ratio Lower Upper
59 100
57 4.5 8.3 12.5#



#14
Allyl chloride
Concen: 1.194 ug/l
RT: 5.087 min Scan# 527
Delta R.T. 0.247 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion: 41 Resp: 7652
Ion Ratio Lower Upper
41 100
39 40.3 53.2 79.8#
76 0.0 29.9 44.9#

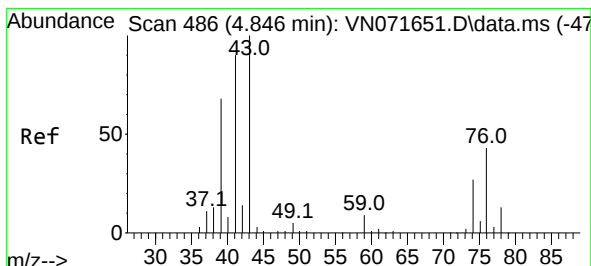
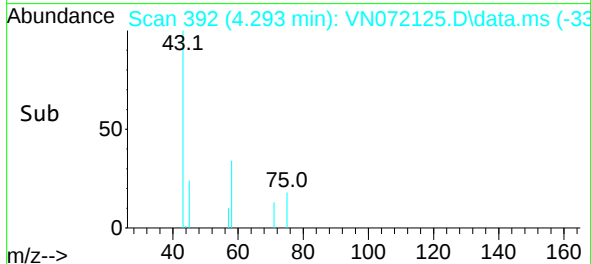
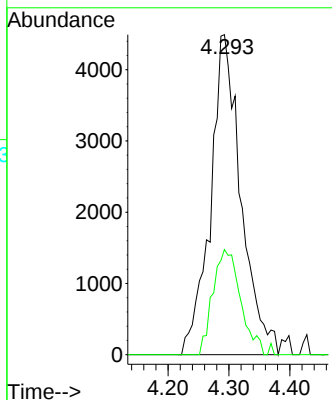
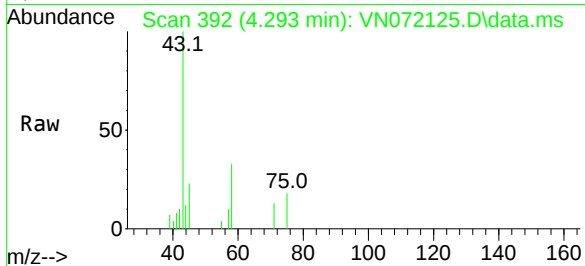




#16
Acetone
Concen: 6.706 ug/l
RT: 4.293 min Scan# 392
Delta R.T. 0.018 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

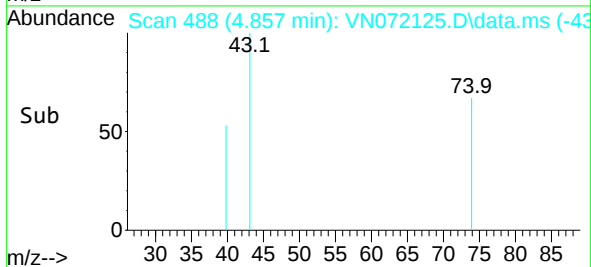
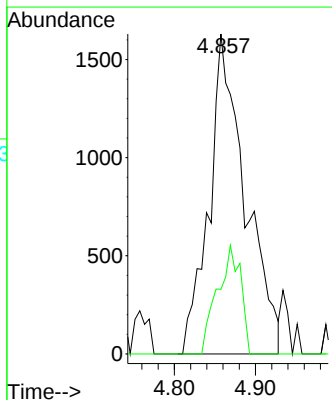
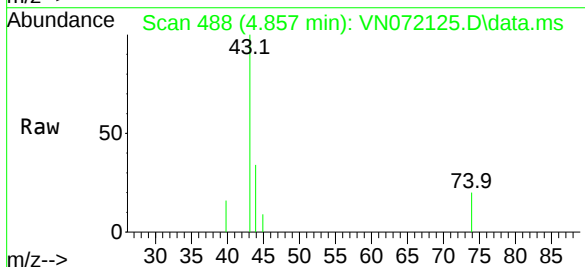
Instrument :
MSVOA_N
ClientSampleId :
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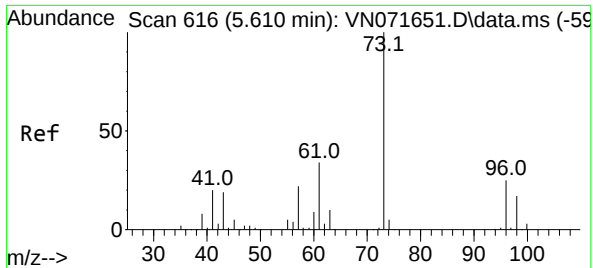
Tgt Ion: 43 Resp: 15650
Ion Ratio Lower Upper
43 100
58 32.8 26.0 39.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.857 min Scan# 488
Delta R.T. 0.011 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion: 43 Resp: 5046
Ion Ratio Lower Upper
43 100
74 21.7 21.6 32.4

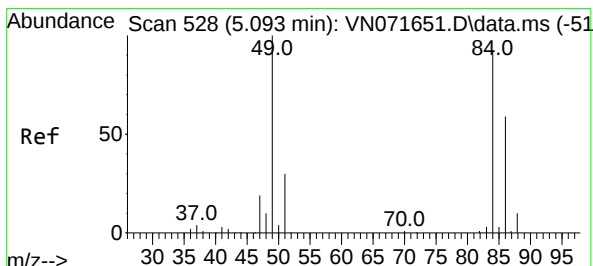
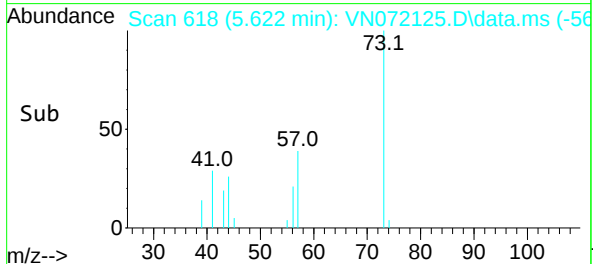
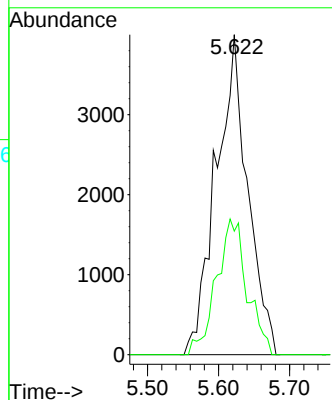
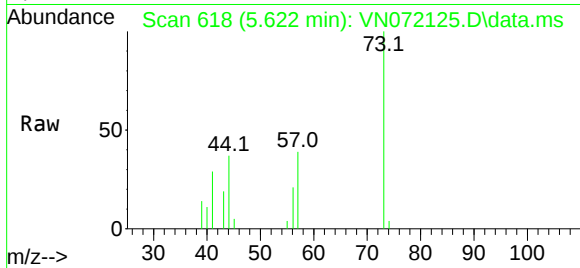




#19
Methyl tert-butyl Ether
Concen: 0.843 ug/l
RT: 5.622 min Scan# 616
Delta R.T. 0.012 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

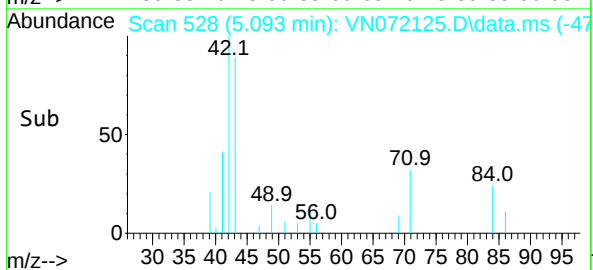
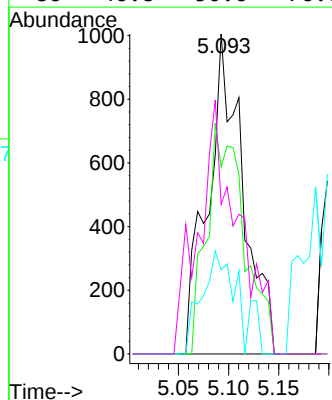
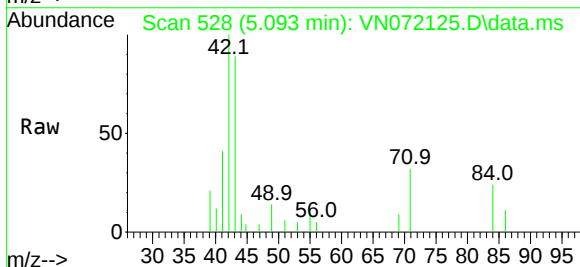
Instrument :
MSVOA_N
ClientSampleId :
MW-23RRE

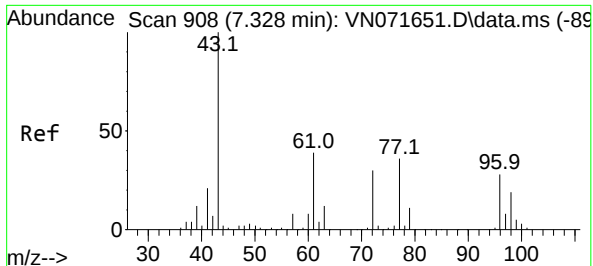
Tgt Ion: 73 Resp: 12365
Ion Ratio Lower Upper
73 100
57 38.6 17.6 26.4#



#20
Methylene Chloride
Concen: 0.498 ug/l
RT: 5.093 min Scan# 528
Delta R.T. -0.000 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion: 84 Resp: 2449
Ion Ratio Lower Upper
84 100
49 58.4 88.3 132.5#
51 26.3 28.2 42.2#
86 46.8 50.6 76.0#

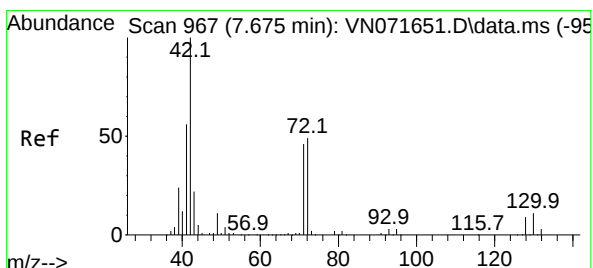
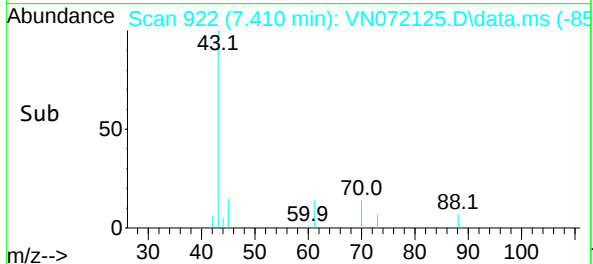
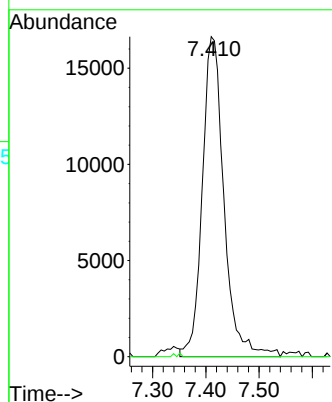
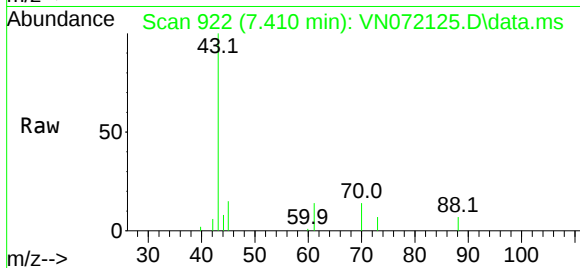




#25
2-Butanone
Concen: 13.932 ug/l
RT: 7.410 min Scan# 910
Delta R.T. 0.082 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

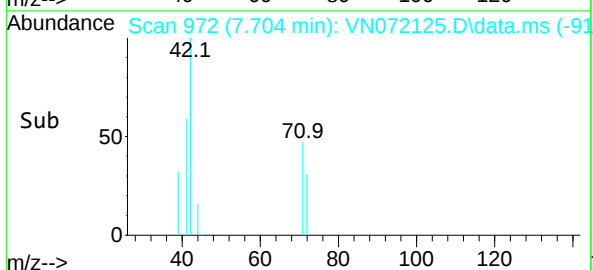
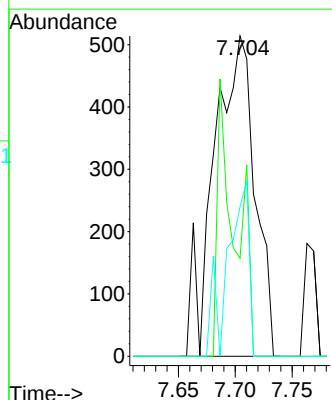
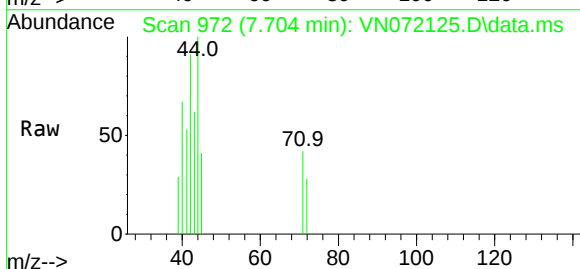
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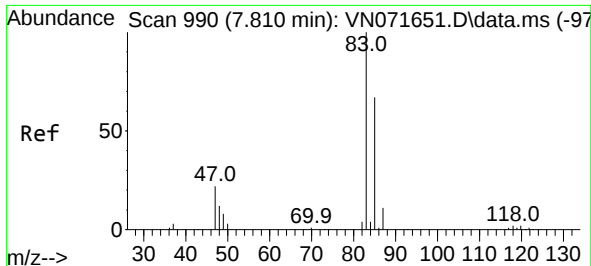
Tgt Ion: 43 Resp: 46875
Ion Ratio Lower Upper
43 100
72 0.0 23.7 35.5#



#29
Tetrahydrofuran
Concen: 0.593 ug/l
RT: 7.704 min Scan# 972
Delta R.T. 0.029 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion: 42 Resp: 1291
Ion Ratio Lower Upper
42 100
72 0.0 39.7 59.5#
71 28.5 36.6 55.0#





#30

Chloroform

Concen: 0.224 ug/l

RT: 7.804 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN072125.D

Acq: 21 Apr 2022 15:09

Instrument :

MSVOA_N

ClientSampleId :

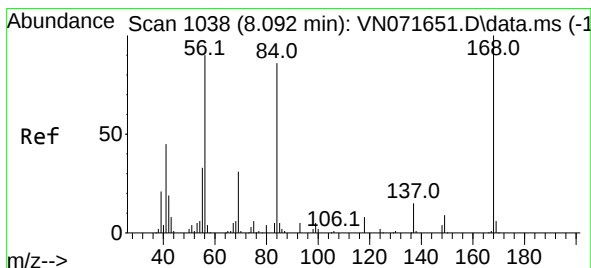
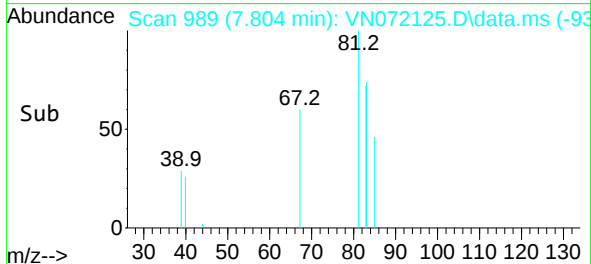
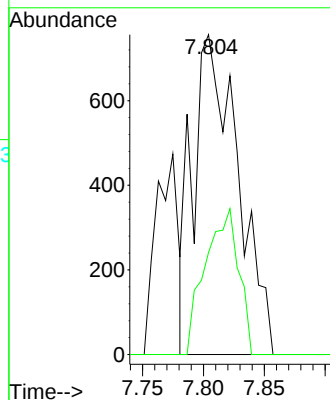
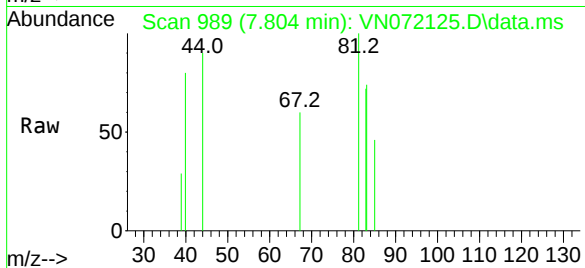
MW-23RRE

Tgt Ion: 83 Resp: 1939

Ion Ratio Lower Upper

83 100

85 31.9 51.8 77.8#



#31

Cyclohexane

Concen: 5.413 ug/l

RT: 8.087 min Scan# 1037

Delta R.T. -0.005 min

Lab File: VN072125.D

Acq: 21 Apr 2022 15:09

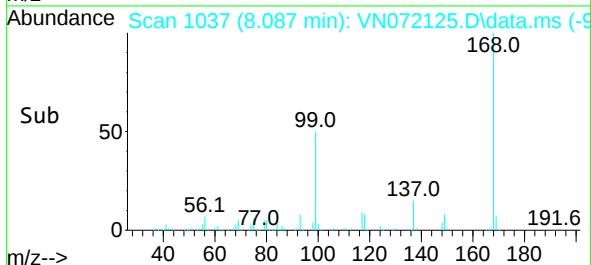
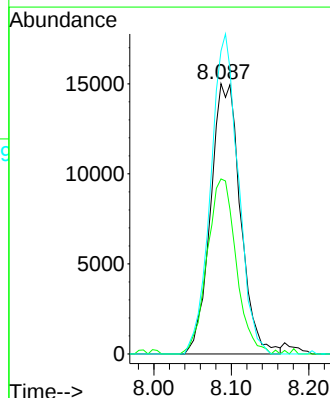
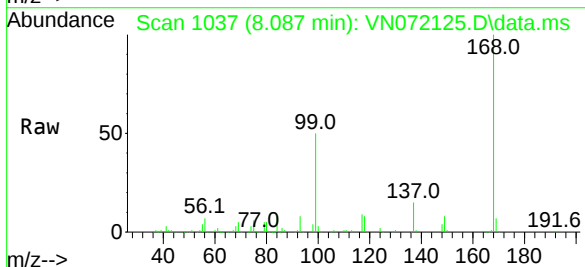
Tgt Ion: 56 Resp: 40198

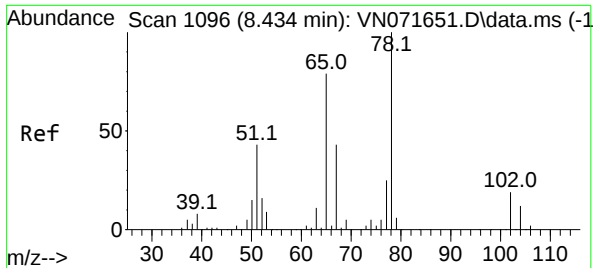
Ion Ratio Lower Upper

56 100

69 64.8 27.8 41.8#

84 112.1 76.9 115.3





#33

1,2-Dichloroethane-d4

Concen: 48.332 ug/l

RT: 8.434 min Scan# 1109

Delta R.T. -0.000 min

Lab File: VN072125.D

Acq: 21 Apr 2022 15:09

Instrument :

MSVOA_N

ClientSampleId :

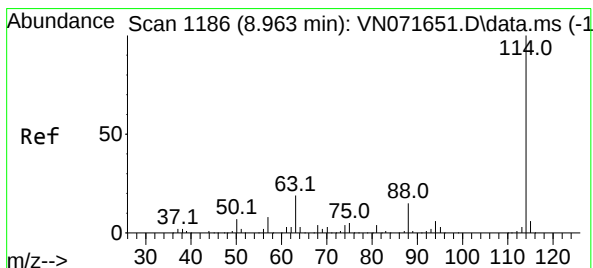
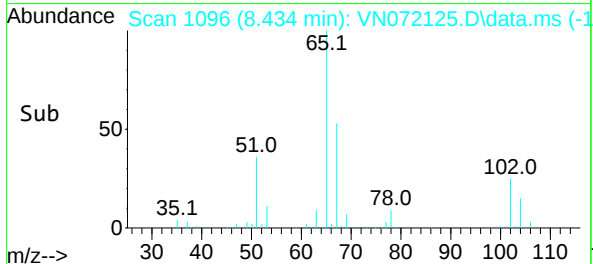
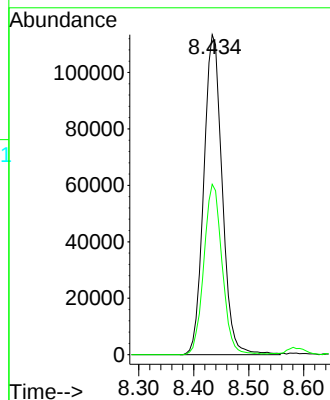
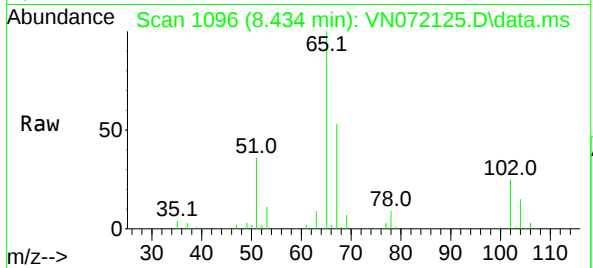
MW-23RRE

Tgt Ion: 65 Resp: 263936

Ion Ratio Lower Upper

65 100

67 52.9 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: VN072125.D

Acq: 21 Apr 2022 15:09

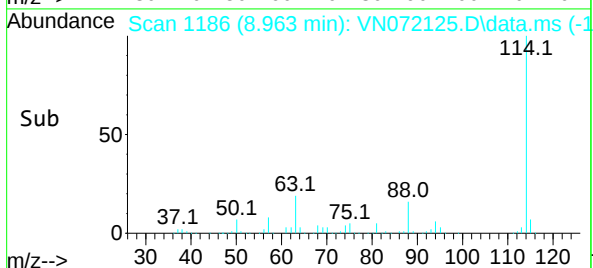
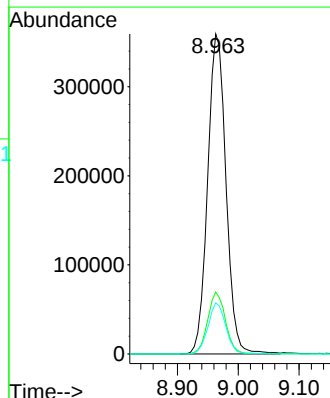
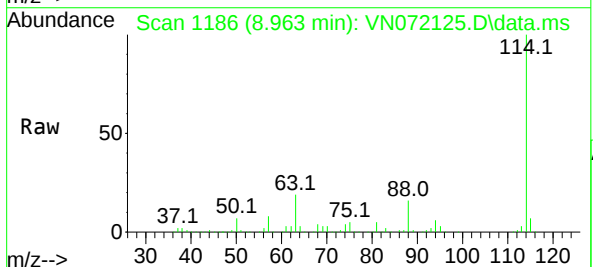
Tgt Ion: 114 Resp: 752538

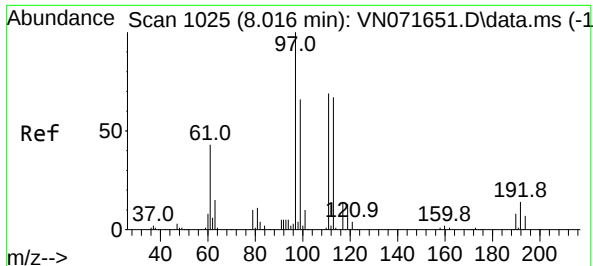
Ion Ratio Lower Upper

114 100

63 19.3 0.0 40.0

88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.667 ug/l

RT: 8.022 min Scan# 1036

Delta R.T. 0.006 min

Lab File: VN072125.D

Acq: 21 Apr 2022 15:09

Instrument :

MSVOA_N

ClientSampleId :

MW-23RRE

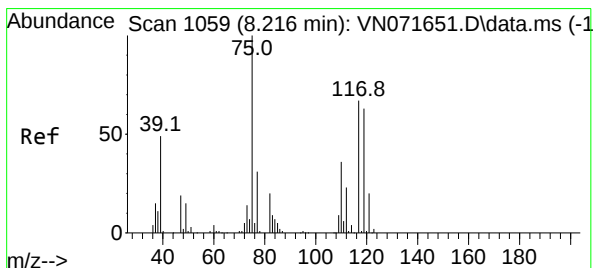
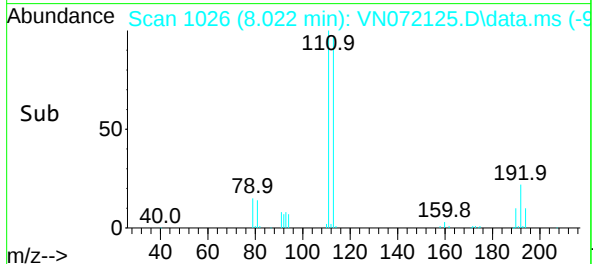
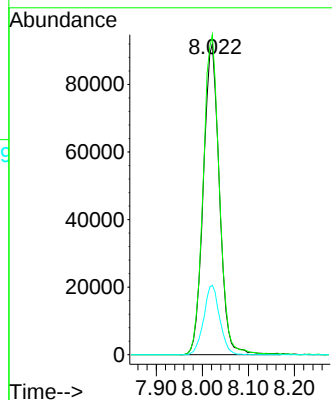
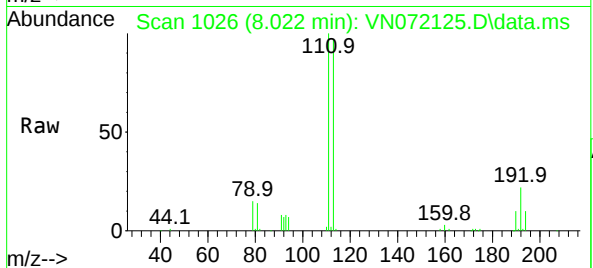
Tgt Ion:113 Resp: 224368

Ion Ratio Lower Upper

113 100

111 103.3 81.4 122.0

192 22.1 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.021 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN072125.D

Acq: 21 Apr 2022 15:09

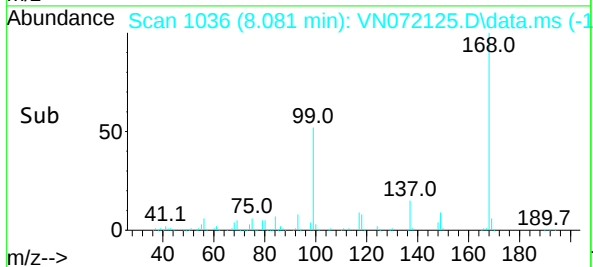
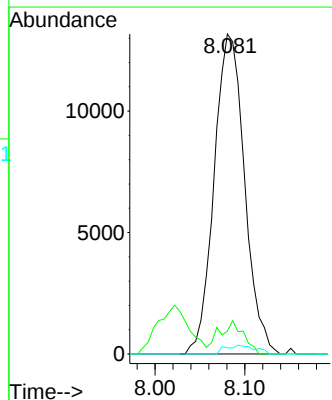
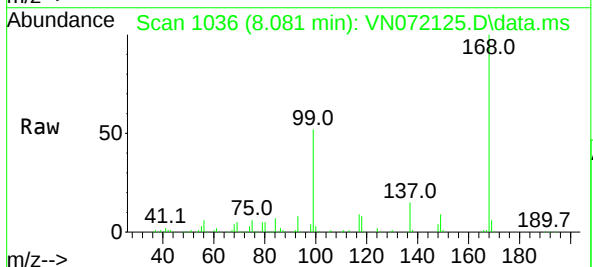
Tgt Ion: 75 Resp: 31052

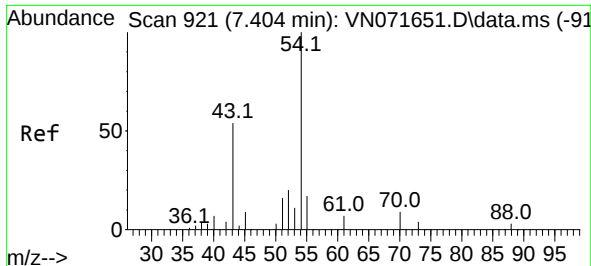
Ion Ratio Lower Upper

75 100

110 8.3 18.3 54.8#

77 2.7 25.1 37.7#

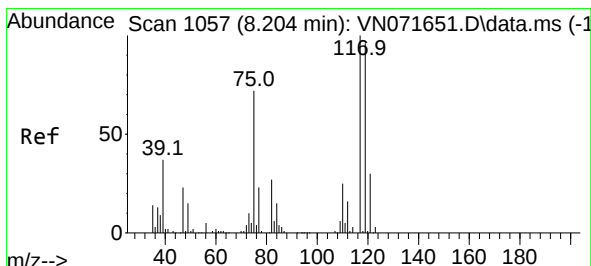
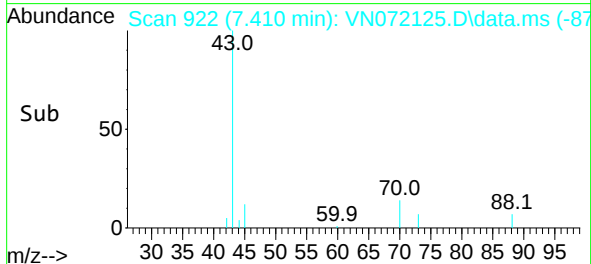
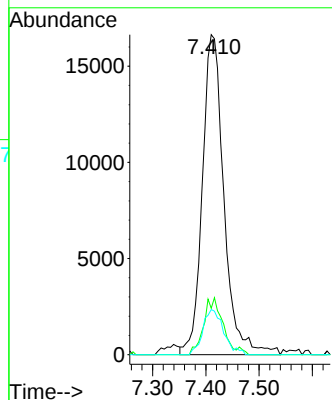
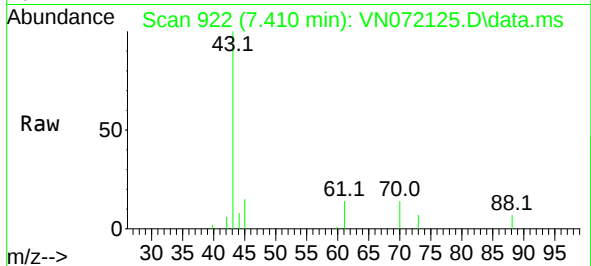




#37
Ethyl Acetate
Concen: 6.925 ug/l
RT: 7.410 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

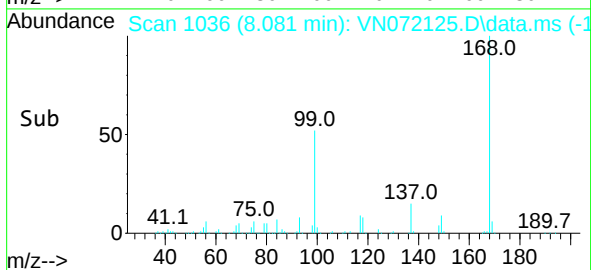
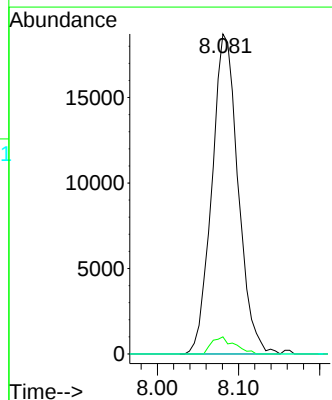
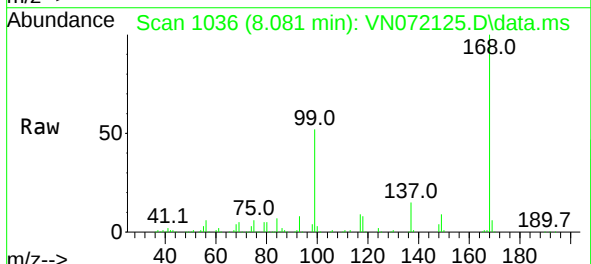
Instrument :
MSVOA_N
ClientSampleId :
MW-23RRE

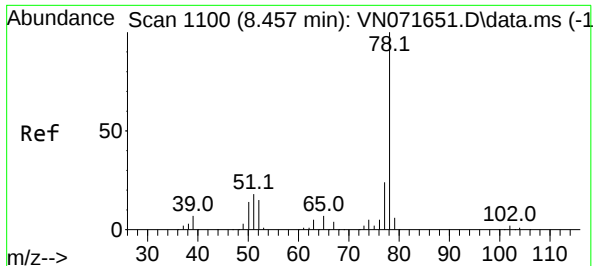
Tgt Ion:	43	Resp:	46875
Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.8	17.6
70	13.6	9.3	13.9



#38
Carbon Tetrachloride
Concen: 6.938 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.123 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion:	117	Resp:	42049
Ion	Ratio	Lower	Upper
117	100		
119	5.3	75.8	113.8#
121	0.0	24.6	37.0#

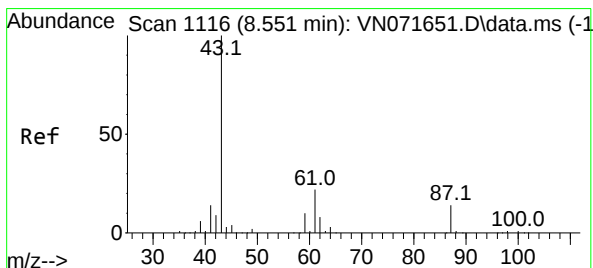
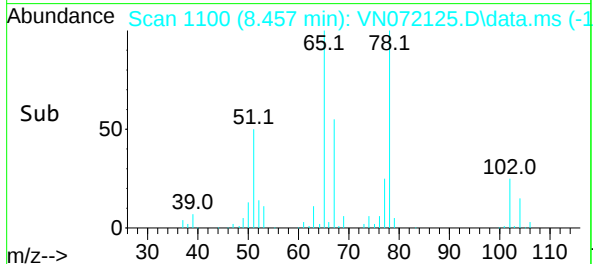
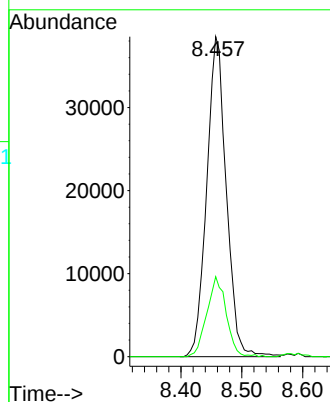
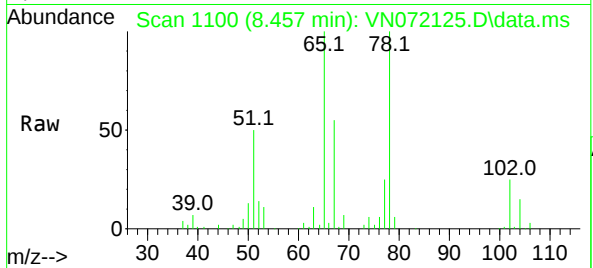




#40
Benzene
Concen: 4.412 ug/l
RT: 8.457 min Scan# 1100
Delta R.T. 0.000 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

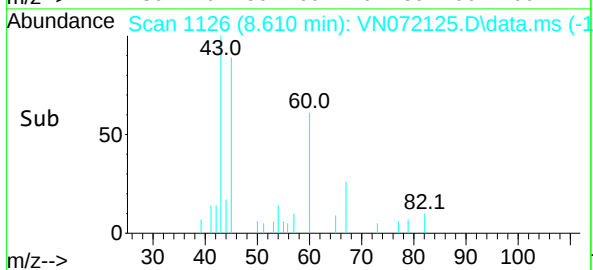
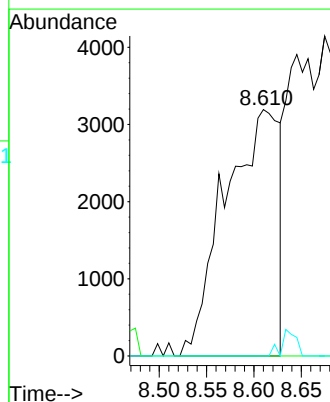
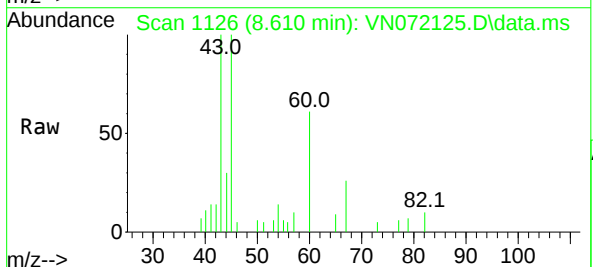
Instrument :
MSVOA_N
ClientSampleId :
MW-23RRE

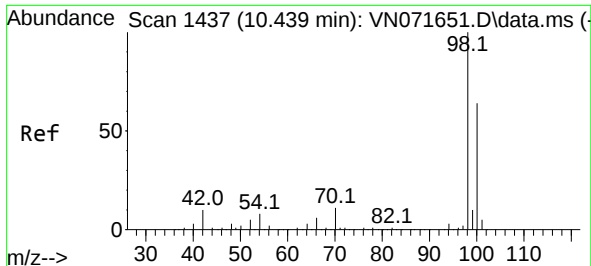
Tgt Ion: 78 Resp: 86181
Ion Ratio Lower Upper
78 100
77 25.0 19.4 29.0



#43
Isopropyl Acetate
Concen: 1.129 ug/l
RT: 8.610 min Scan# 1126
Delta R.T. 0.059 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion: 43 Resp: 12714
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 12.0 18.0#

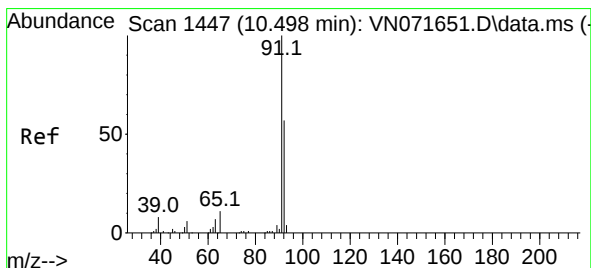
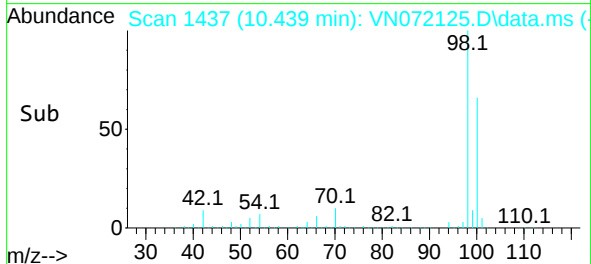
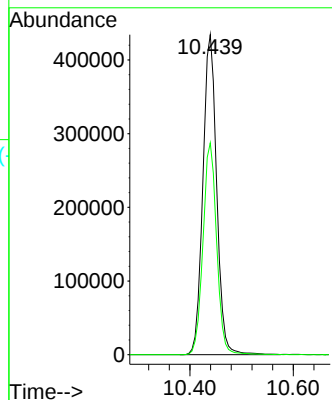
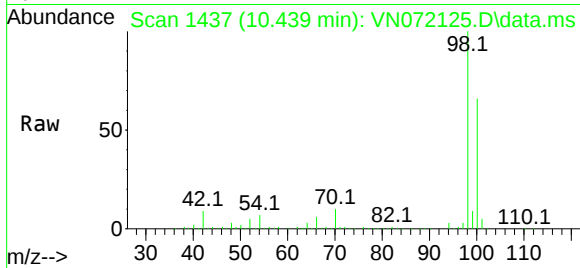




#50
Toluene-d8
Concen: 44.329 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

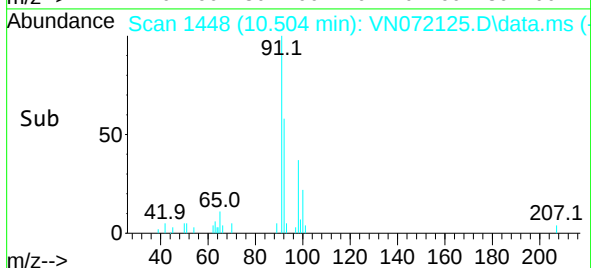
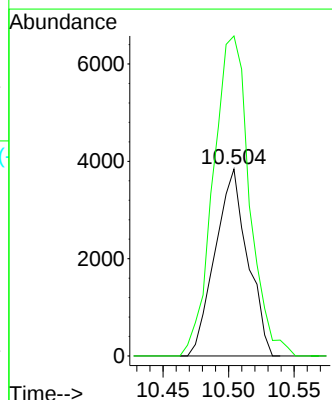
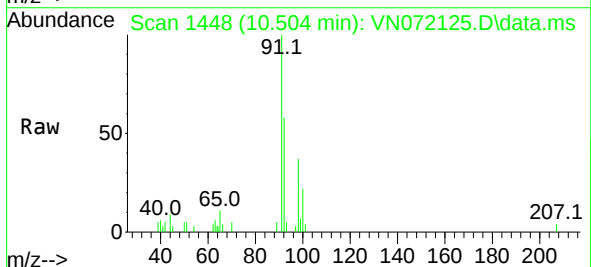
Instrument :
MSVOA_N
ClientSampleId :
MW-23RRE

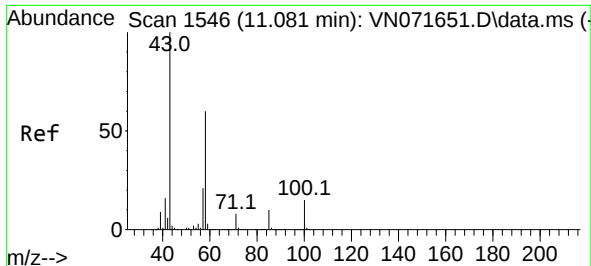
Tgt Ion: 98 Resp: 803015
Ion Ratio Lower Upper
98 100
100 65.6 52.6 78.8



#52
Toluene
Concen: 0.537 ug/l
RT: 10.504 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion: 92 Resp: 6632
Ion Ratio Lower Upper
92 100
91 190.8 138.6 207.8

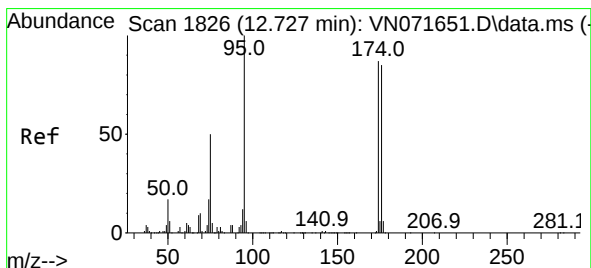
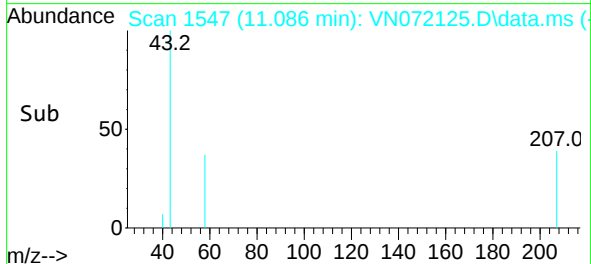
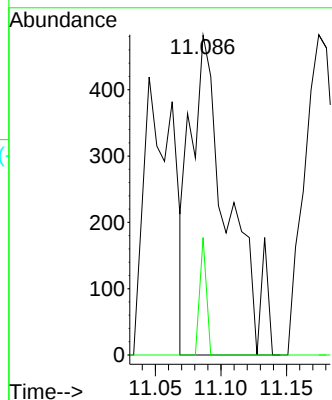
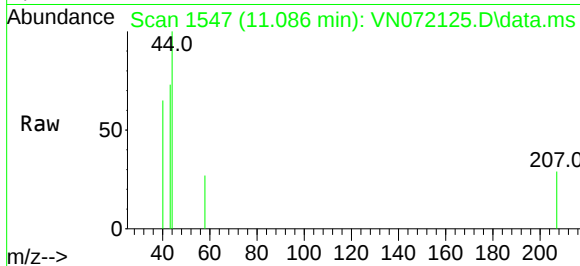




#59
2-Hexanone
Concen: 0.212 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

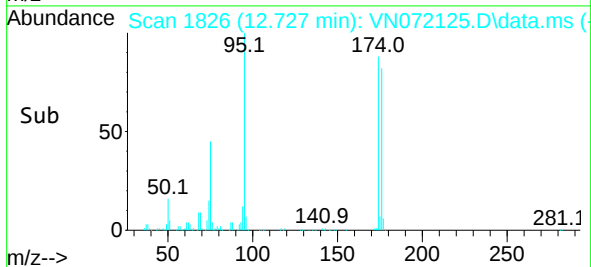
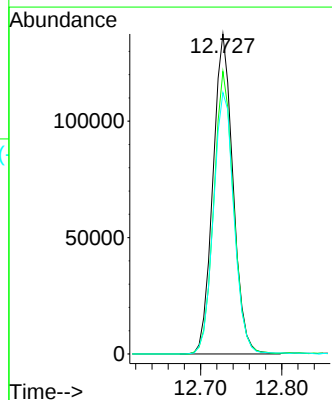
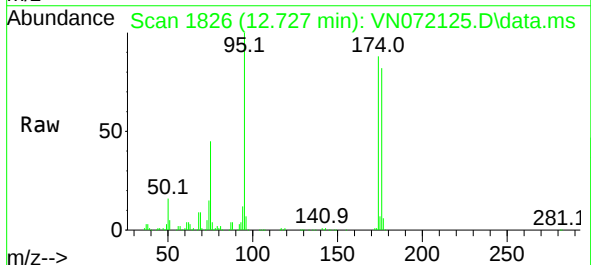
Instrument :
MSVOA_N
ClientSampleId :
MW-23RRE

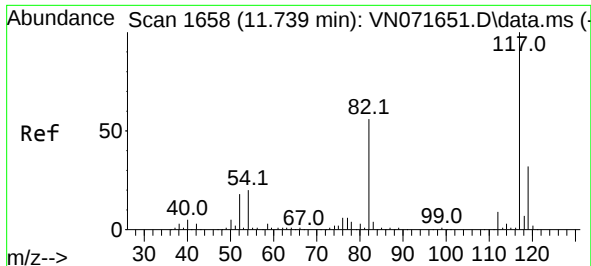
Tgt Ion: 43 Resp: 968
Ion Ratio Lower Upper
43 100
58 6.4 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 40.303 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion: 95 Resp: 236124
Ion Ratio Lower Upper
95 100
174 86.7 0.0 167.6
176 83.5 0.0 163.4

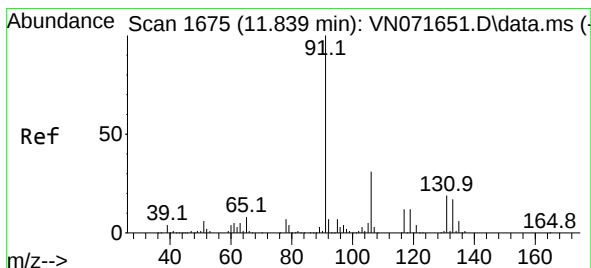
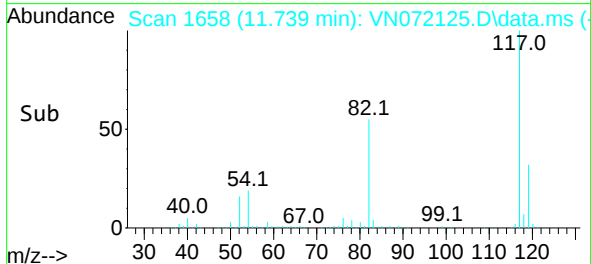
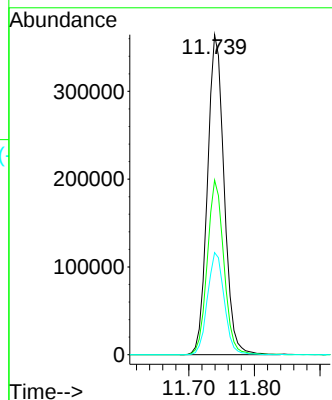
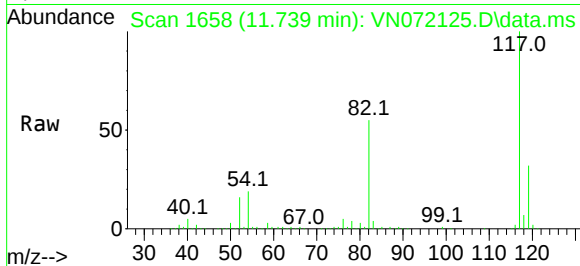




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

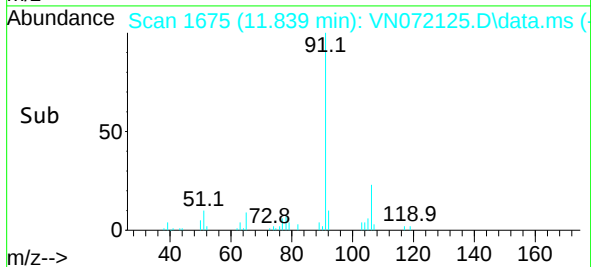
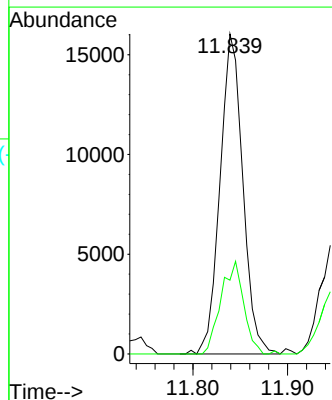
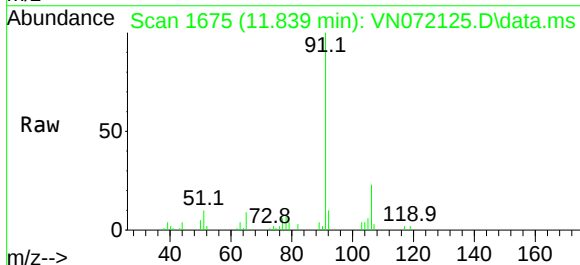
Instrument :
MSVOA_N
ClientSampleId :
MW-23RRE

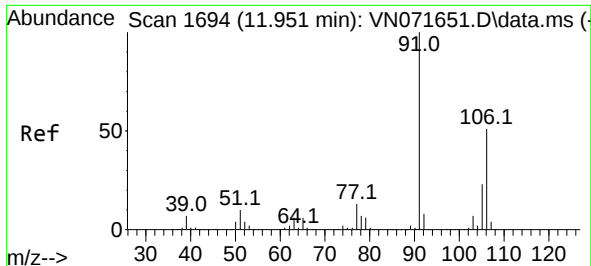
Tgt Ion:117 Resp: 643796
Ion Ratio Lower Upper
117 100
82 54.5 44.2 66.2
119 31.9 25.4 38.0



#67
Ethyl Benzene
Concen: 1.230 ug/l
RT: 11.839 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion: 91 Resp: 26851
Ion Ratio Lower Upper
91 100
106 23.1 24.9 37.3#

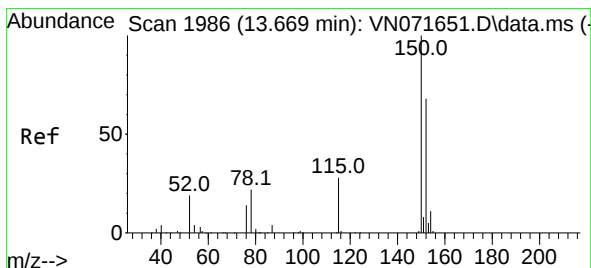
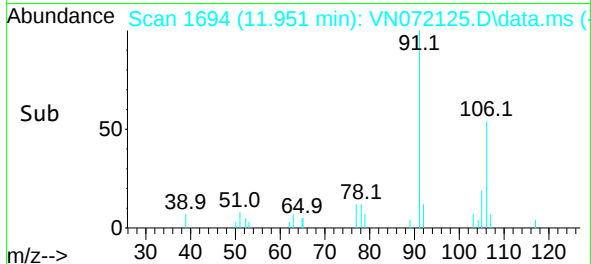
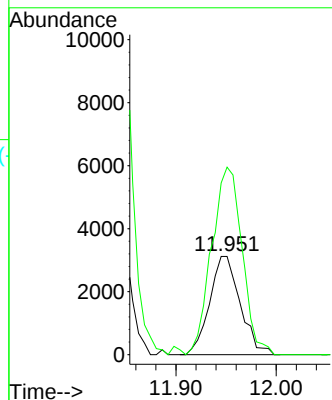
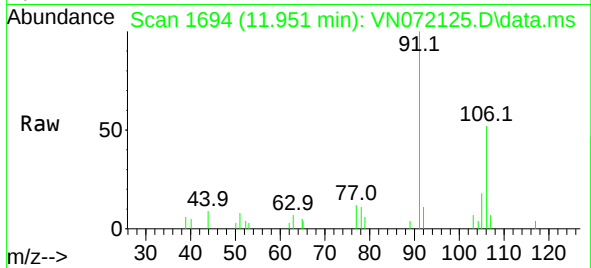




#68
m/p-Xylenes
Concen: 0.788 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

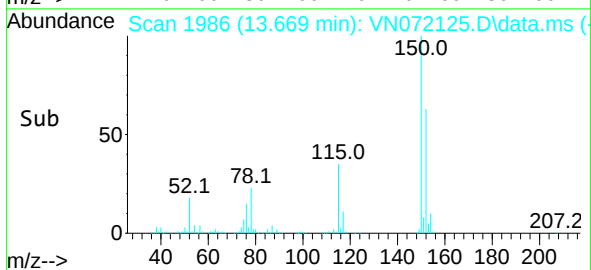
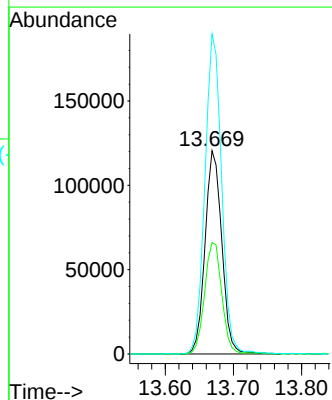
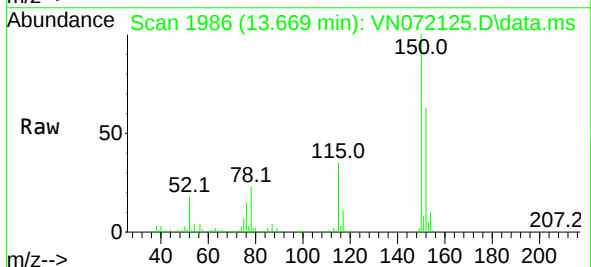
Instrument :
MSVOA_N
ClientSampleId :
MW-23RRE

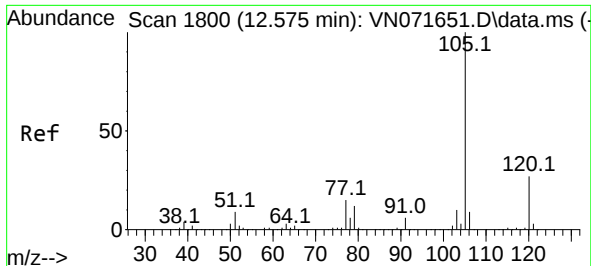
Tgt Ion:106 Resp: 6604
Ion Ratio Lower Upper
106 100
91 190.0 158.9 238.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. -0.001 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion:152 Resp: 206465
Ion Ratio Lower Upper
152 100
115 56.4 28.9 86.7
150 156.8 0.0 356.2

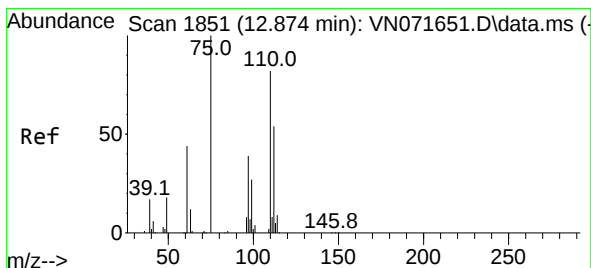
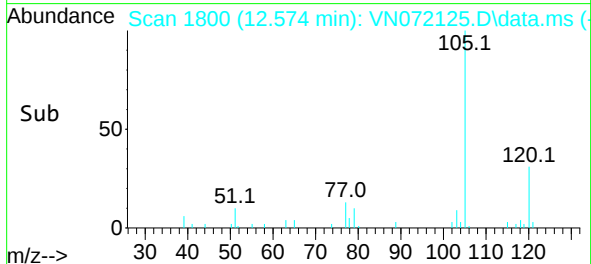
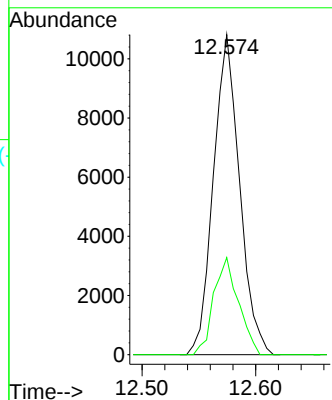
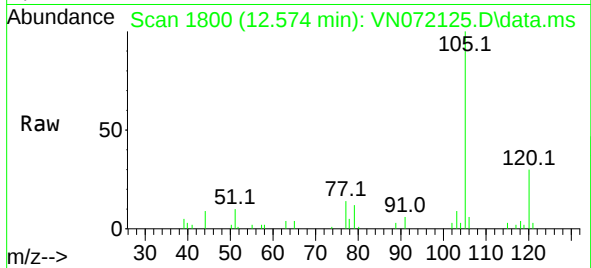




#73
Isopropylbenzene
Concen: 0.995 ug/l
RT: 12.574 min Scan# 1800
Delta R.T. -0.001 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

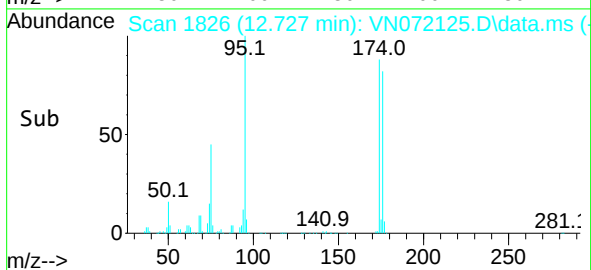
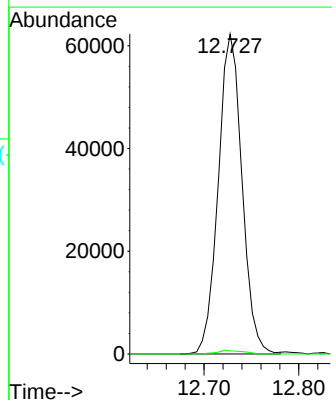
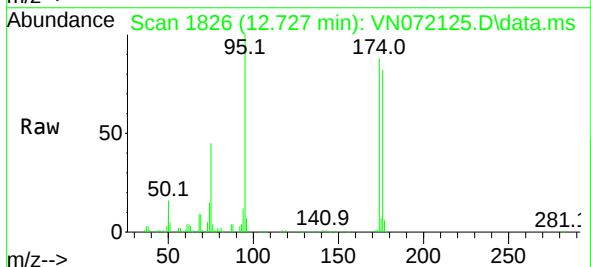
Instrument :
MSVOA_N
ClientSampleId :
MW-23RRE

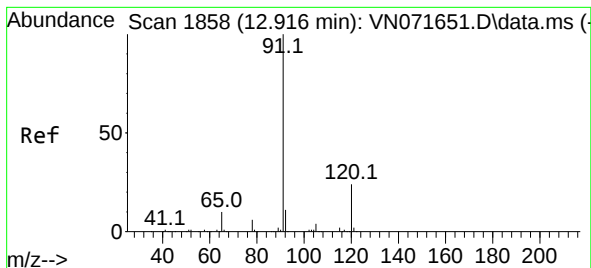
Tgt Ion:105 Resp: 17310
Ion Ratio Lower Upper
105 100
120 28.7 13.5 40.4



#76
1,2,3-Trichloropropane
Concen: 22.692 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

Tgt Ion: 75 Resp: 108532
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#





#78

n-propylbenzene

Concen: 0.766 ug/l

RT: 12.916 min Scan# 1858

Delta R.T. -0.000 min

Lab File: VN072125.D

Acq: 21 Apr 2022 15:09

Instrument :

MSVOA_N

ClientSampleId :

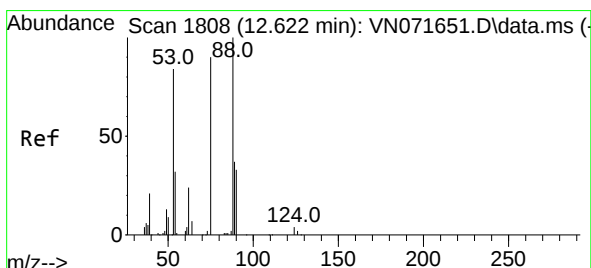
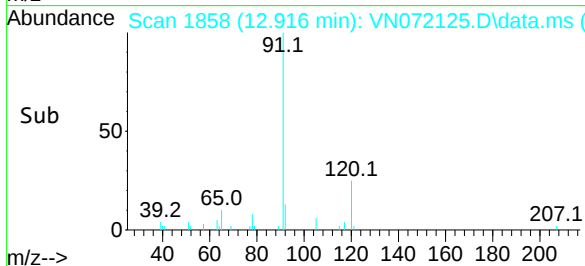
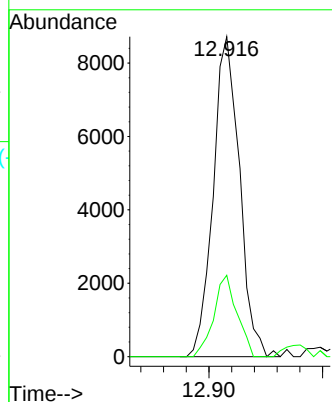
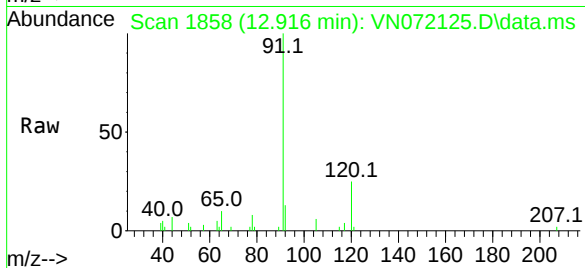
MW-23RRE

Tgt Ion: 91 Resp: 14010

Ion Ratio Lower Upper

91 100

120 22.4 11.9 35.5



#81

trans-1,4-Dichloro-2-butene

Concen: 70.320 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. 0.105 min

Lab File: VN072125.D

Acq: 21 Apr 2022 15:09

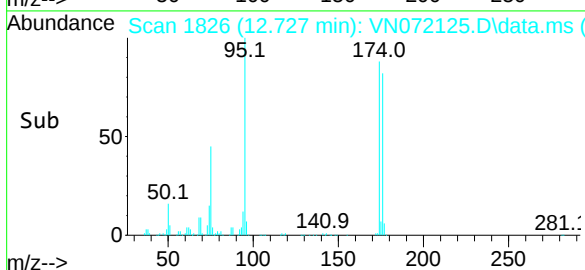
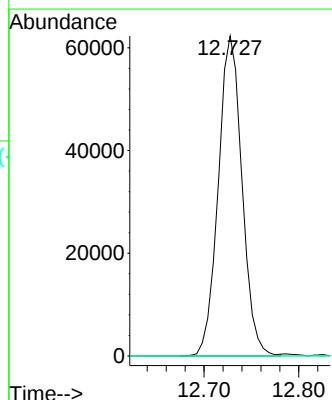
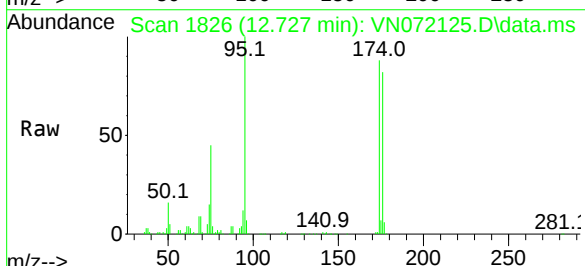
Tgt Ion: 75 Resp: 108532

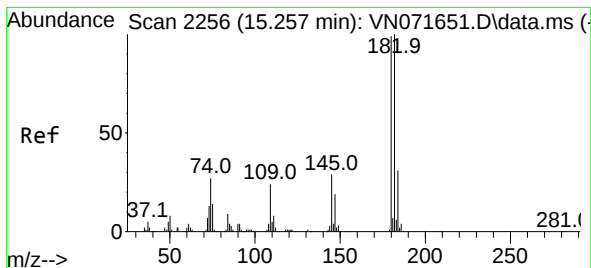
Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 37.2 55.8#

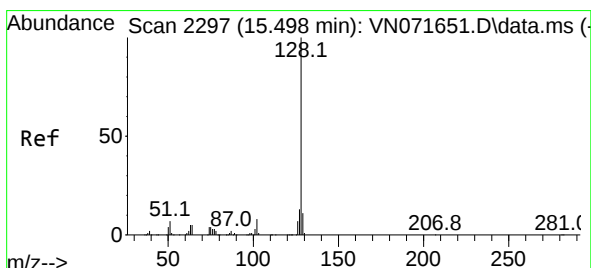
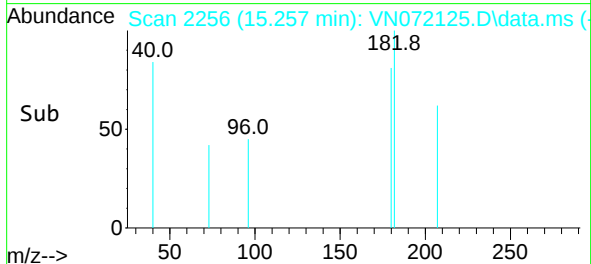
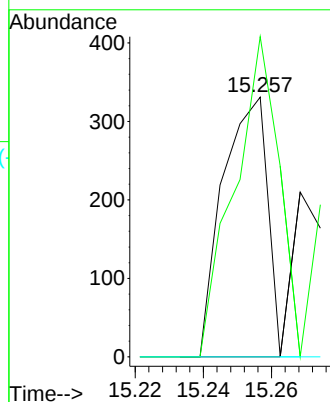
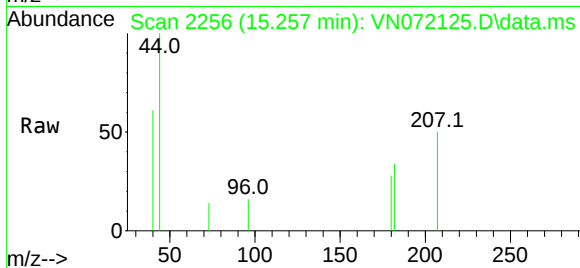




#93
1,2,4-Trichlorobenzene
Concen: 2.173 ug/l
RT: 15.257 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

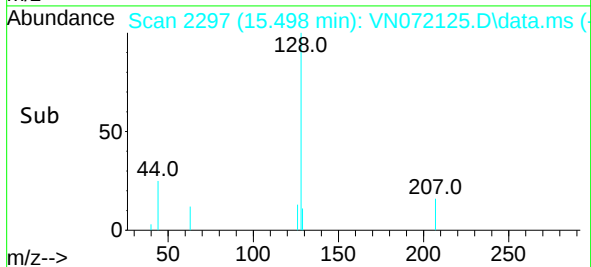
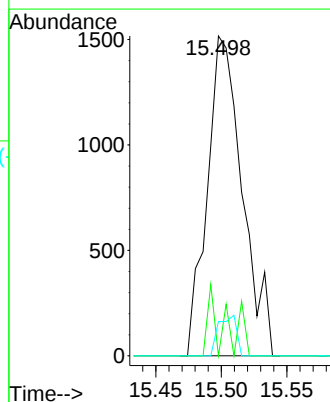
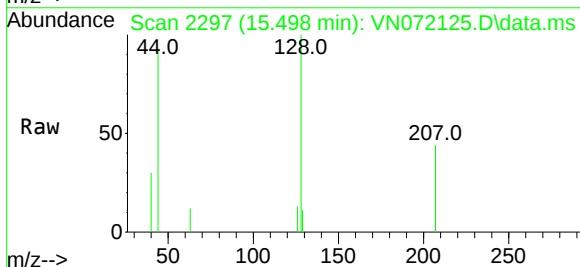
Instrument :
MSVOA_N
ClientSampleId :
MW-23RRE

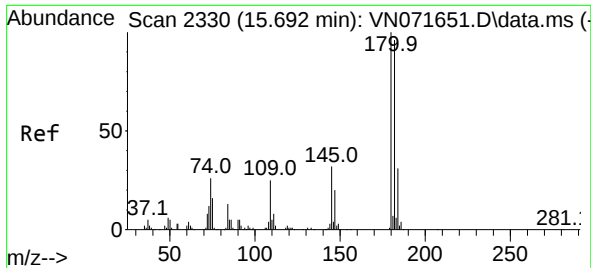
Tgt Ion:180 Resp: 299
Ion Ratio Lower Upper
180 100
182 146.5 47.5 142.5#
145 0.0 14.5 43.5#



#95
Naphthalene
Concen: 4.080 ug/l
RT: 15.498 min Scan# 2297
Delta R.T. -0.000 min
Lab File: VN072125.D
Acq: 21 Apr 2022 15:09

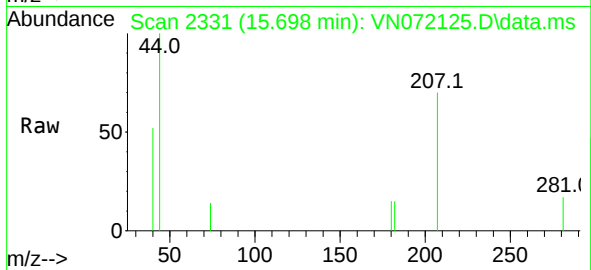
Tgt Ion:128 Resp: 2824
Ion Ratio Lower Upper
128 100
127 4.2 10.3 15.5#
129 6.5 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.431 ug/l
 RT: 15.698 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN072125.D
 Acq: 21 Apr 2022 15:09

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-23RRE



Tgt Ion:	180	Resp:	57
Ion	Ratio	Lower	Upper
180	100		
182	328.1	47.8	143.3#
145	0.0	15.5	46.5#

