

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112420\
 Data File : VN064805.D
 Acq On : 24 Nov 2020 13:02
 Operator : JC/MD
 Sample : L4829-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17

Quant Time: Nov 25 04:03:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	168439	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	304294	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	316465	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	148880	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		7.99	65	100565	51.36	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	102.72%	
35) Dibromofluoromethane		7.55	113	93472	51.34	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	102.68%	
50) Toluene-d8		10.06	98	374765	50.37	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.74%	
62) 4-Bromofluorobenzene		12.37	95	154693	58.10	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	116.20%	

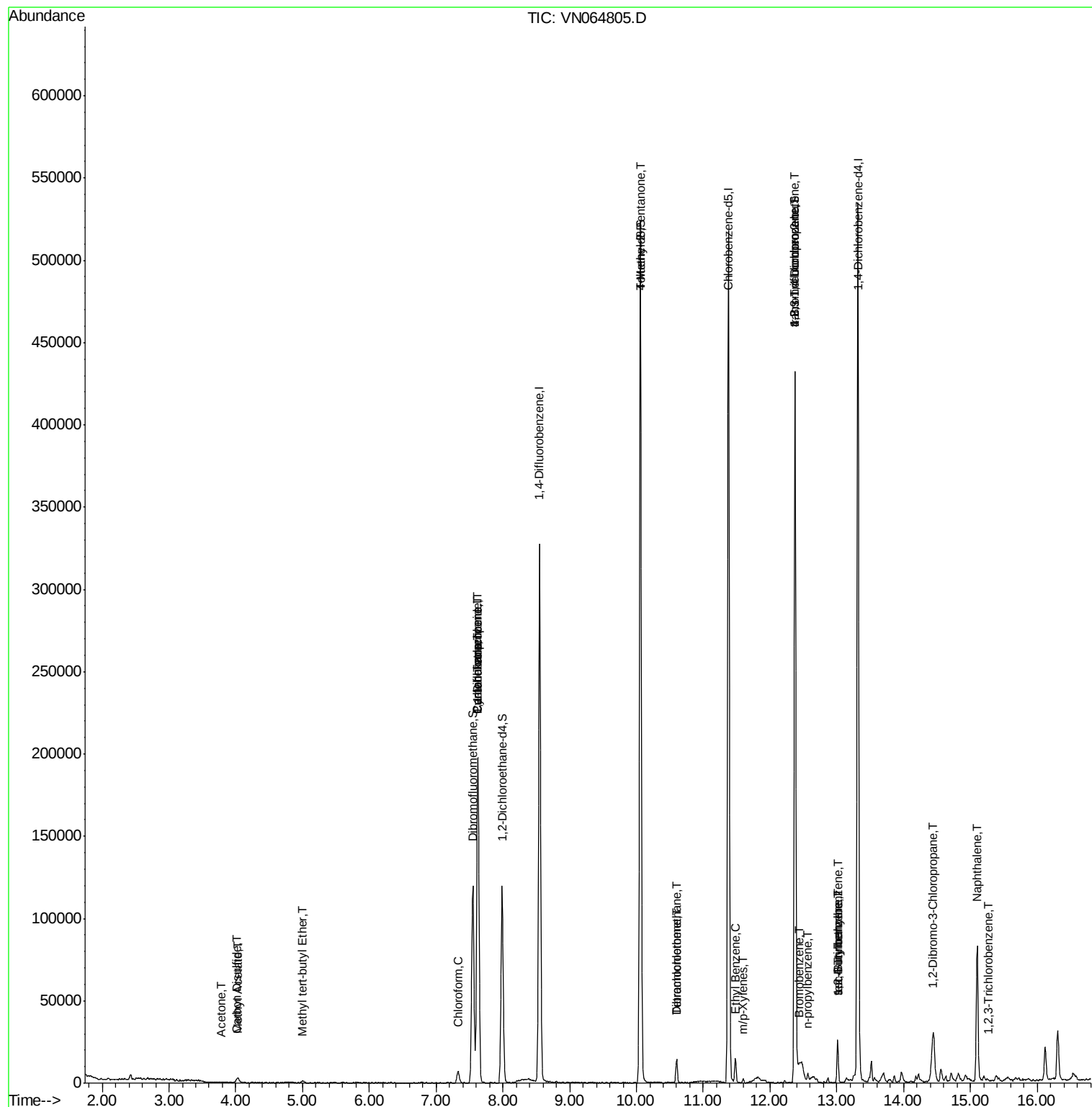
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	523	0.812	ug/l #	43
17) Carbon Disulfide	4.01	76	1804	0.433	ug/l #	75
18) Methyl Acetate	4.03	43	473	0.244	ug/l #	50
19) Methyl tert-butyl Ether	5.00	73	2105	0.402	ug/l #	91
30) Chloroform	7.33	83	8497	2.557	ug/l	100
31) Cyclohexane	7.62	56	3111	1.140	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11781	4.177	ug/l #	50
38) Carbon Tetrachloride	7.63	117	15681	5.343	ug/l #	16
51) 4-Methyl-2-Pentanone	10.06	43	1728	0.658	ug/l #	1
60) Dibromochloromethane	10.60	129	3243	1.333	ug/l #	10
64) Tetrachloroethene	10.60	164	3594	1.167	ug/l	94
67) Ethyl Benzene	11.48	91	11407	1.005	ug/l	95
68) m/p-Xylenes	11.60	106	936	0.218	ug/l #	72
76) 1,2,3-Trichloropropane	12.37	75	74507	23.238	ug/l #	100
77) Bromobenzene	12.45	156	1839	0.659	ug/l #	1
78) n-propylbenzene	12.57	91	3062	0.260	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.37	75	74507	63.690	ug/l #	15
83) tert-Butylbenzene	13.02	119	2042	0.283	ug/l #	71
84) 1,2,4-Trimethylbenzene	13.01	105	15599	1.792	ug/l	99
85) sec-Butylbenzene	13.01	105	15599	1.628	ug/l #	56
92) 1,2-Dibromo-3-Chloropropan	14.44	75	1915	2.804	ug/l #	21
95) Naphthalene	15.10	128	76172	8.439	ug/l	99
96) 1,2,3-Trichlorobenzene	15.28	180	79	1.419	ug/l #	12

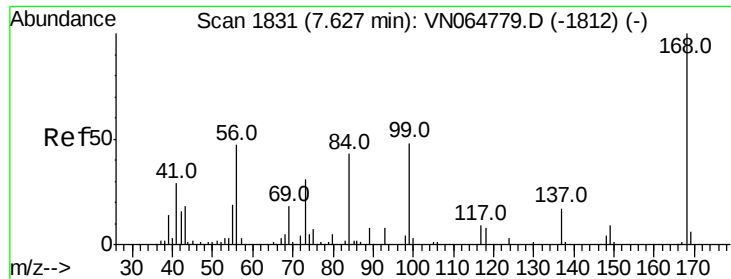
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 25 04:03:17 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

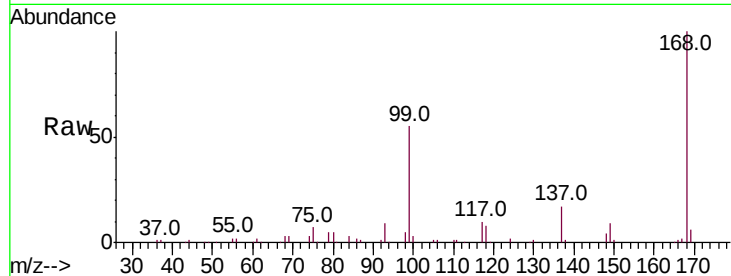
MW-17

Tot Ion:168 Resp: 168439

Ion Ratio Lower Upper

168 100

99 55.2 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

60000

40000

20000

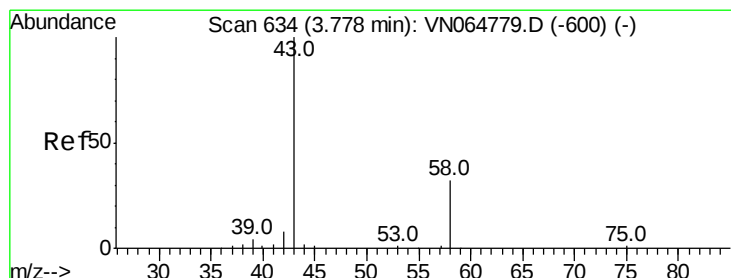
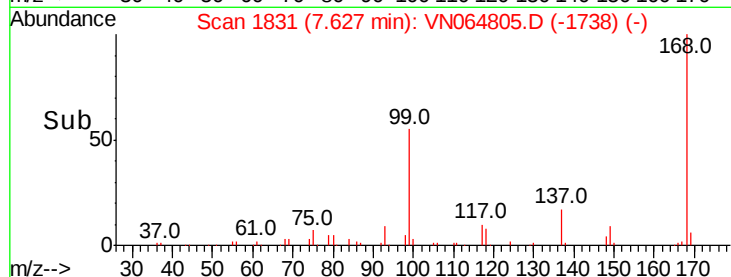
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Time-->

7.50

7.60

7.70



#16

Acetone

Concen: 0.812 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064805.D

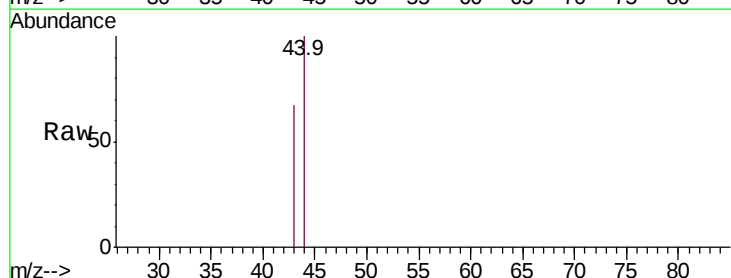
Acq: 24 Nov 2020 13:02

Tgt Ion: 43 Resp: 523

Ion Ratio Lower Upper

43 100

58 0.0 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

300

200

100

0

Time-->

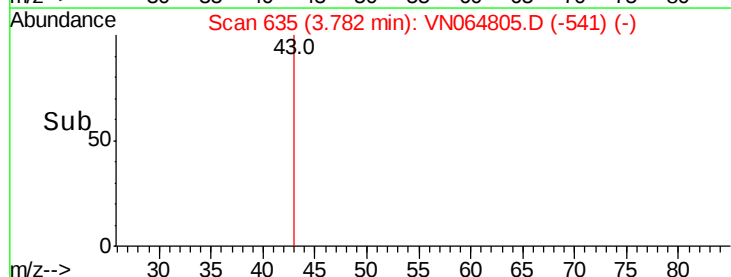
3.74

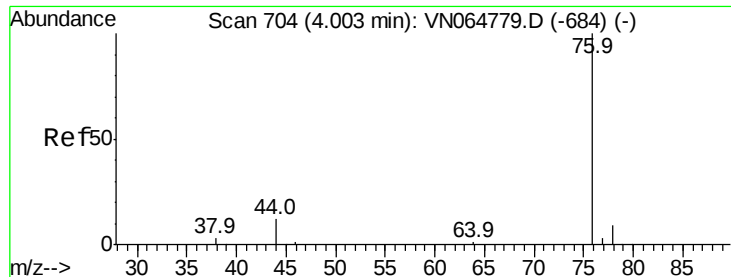
3.76

3.78

3.80

3.82

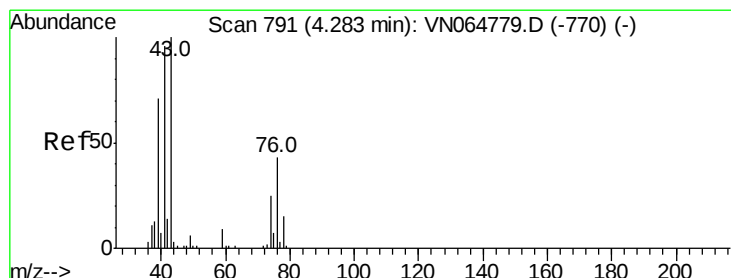
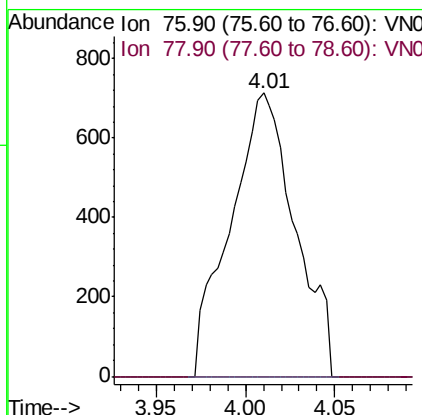
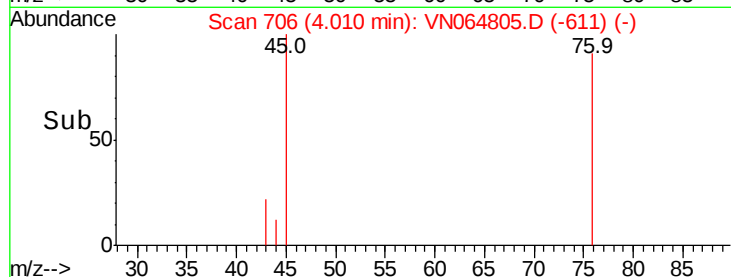
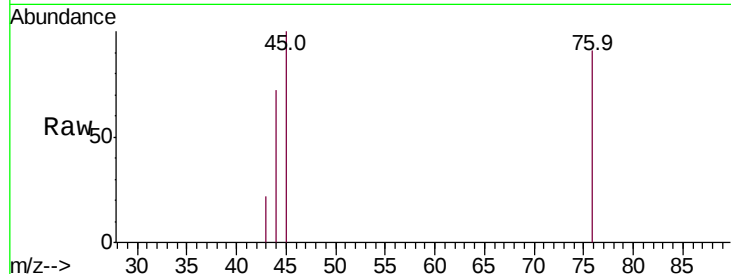




#17
Carbon Disulfide
Concen: 0.433 ug/l
RT: 4.01 min Scan# 706
Delta R.T. 0.01 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

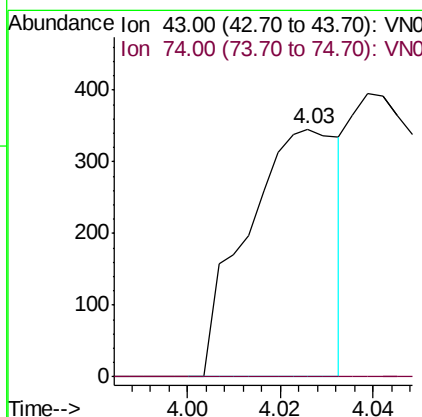
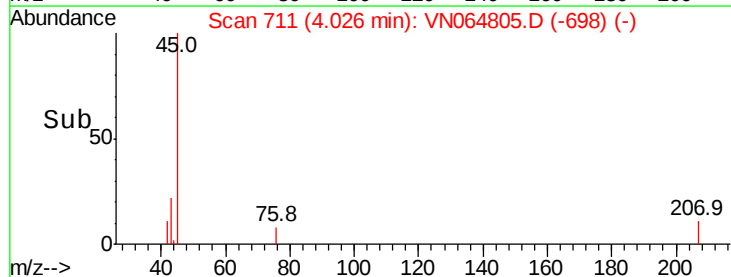
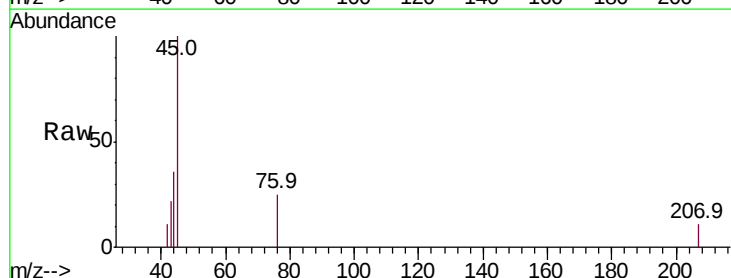
Instrument :
MSVOA_N
ClientSampled :
MW-17

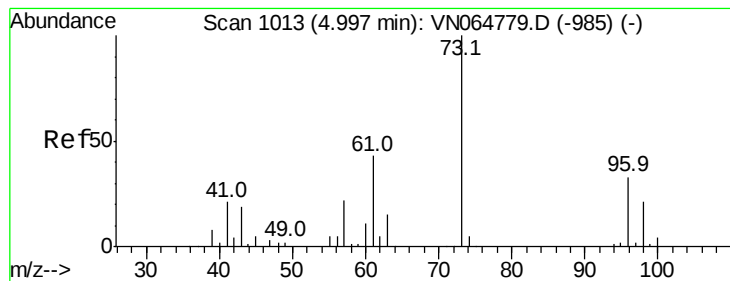
Tot Ion: 76 Resp: 1804
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.244 ug/l
RT: 4.03 min Scan# 711
Delta R.T. -0.26 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

Tgt Ion: 43 Resp: 473
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



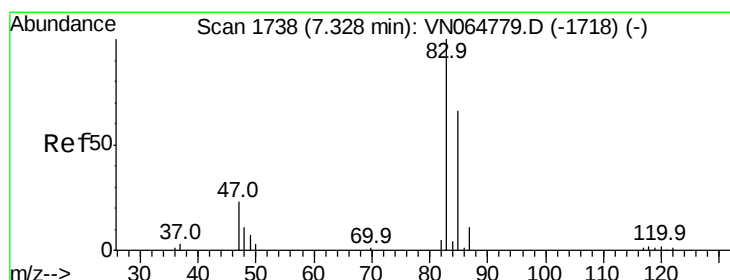
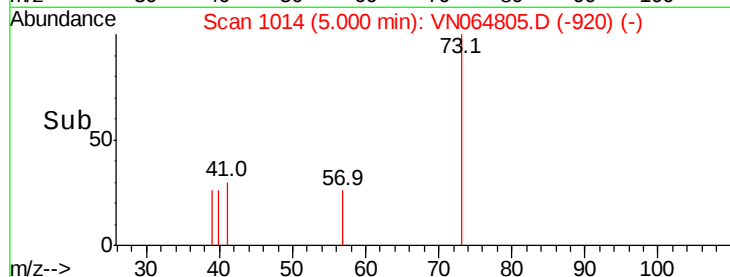
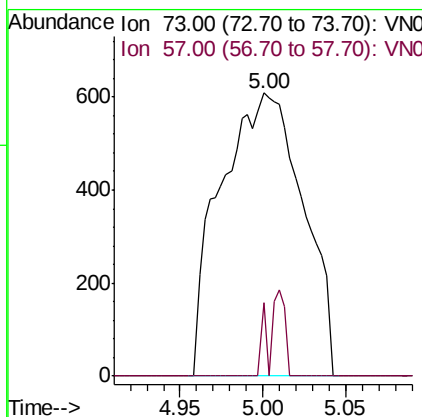
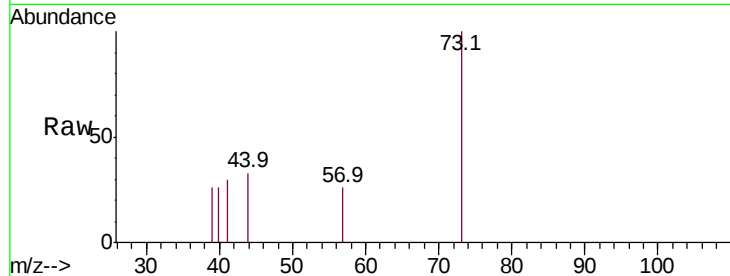


#19

Methvl tert-butvl Ether
 Concen: 0.402 ug/l
 RT: 5.00 min Scan# 1014
 Delta R.T. 0.00 min
 Lab File: VN064805.D
 Acq: 24 Nov 2020 13:02

Instrument :
 MSVOA_N
 ClientSampled :
 MW-17

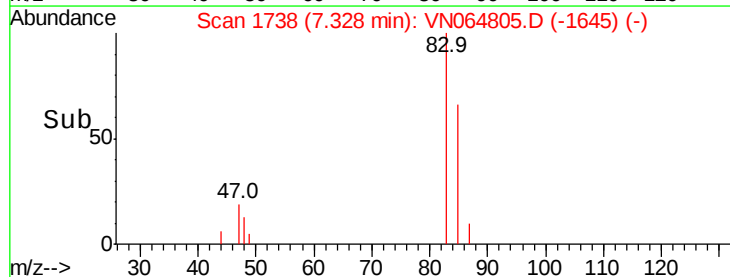
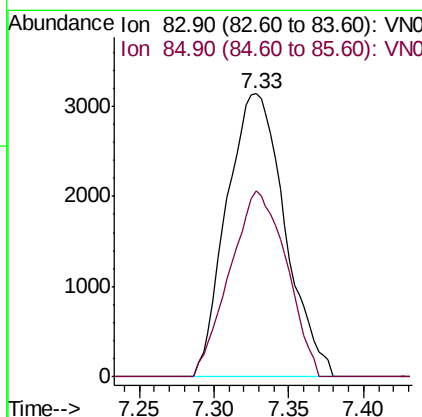
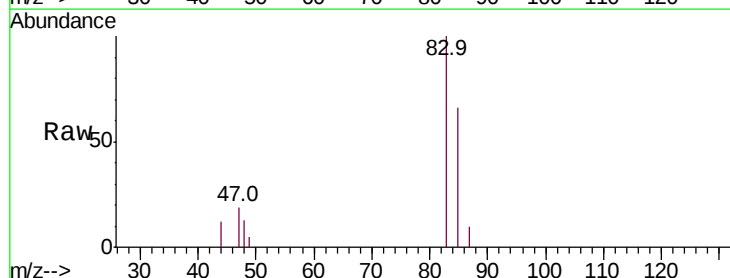
Tot Ion: 73 Resp: 2105
 Ion Ratio Lower Upper
 73 100
 57 26.2 17.4 26.0#

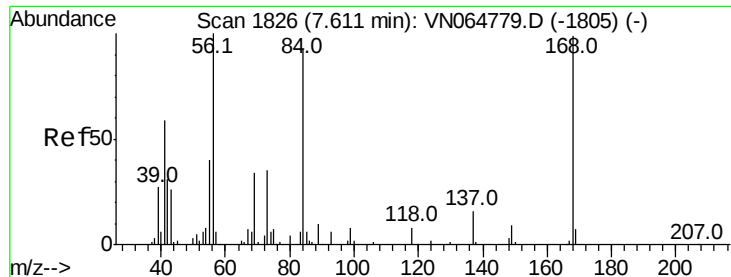


#30

Chloroform
 Concen: 2.557 ug/l
 RT: 7.33 min Scan# 1738
 Delta R.T. 0.00 min
 Lab File: VN064805.D
 Acq: 24 Nov 2020 13:02

Tgt Ion: 83 Resp: 8497
 Ion Ratio Lower Upper
 83 100
 85 65.7 52.6 78.8

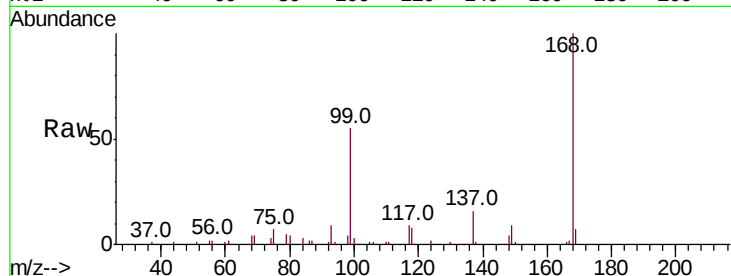




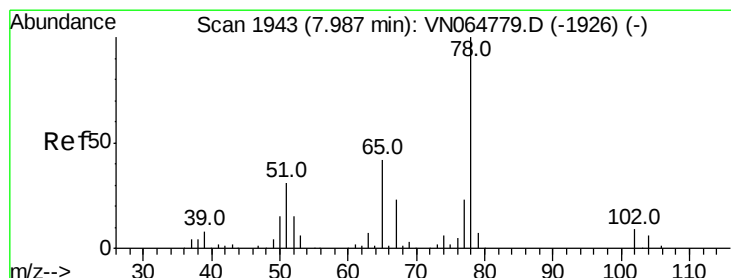
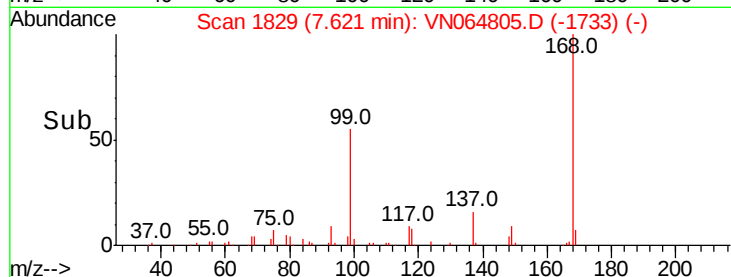
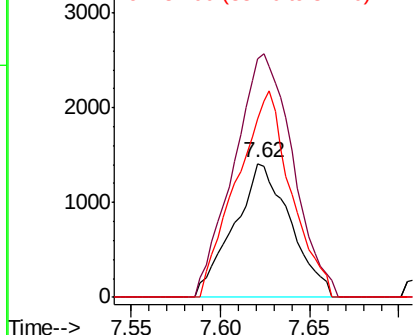
#31
Cyclohexane
Concen: 1.140 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

Instrument :
MSVOA_N
ClientSampled :
MW-17

Tot Ion: 56 Resp: 3111
Ion Ratio Lower Upper
56 100
69 177.9 27.5 41.3#
84 133.3 73.9 110.9#

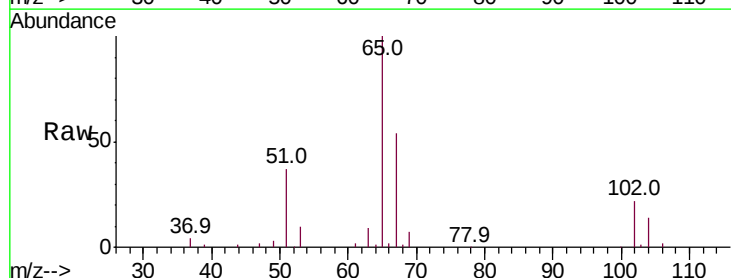


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

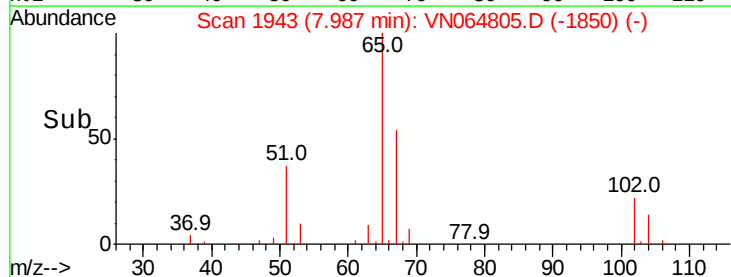
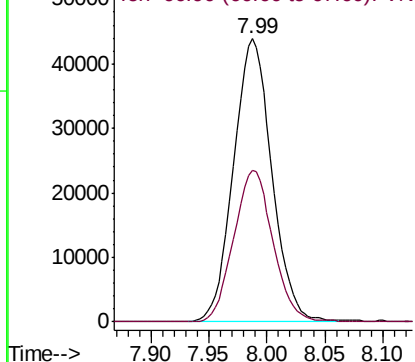


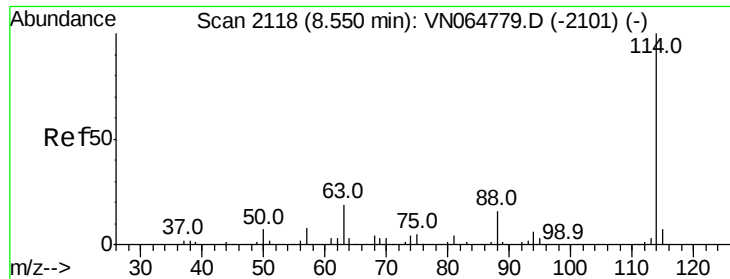
#33
1,2-Dichloroethane-d4
Concen: 51.355 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

Tgt Ion: 65 Resp: 100565
Ion Ratio Lower Upper
65 100
67 54.8 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

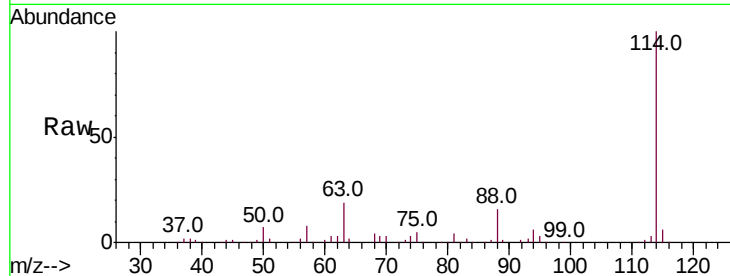




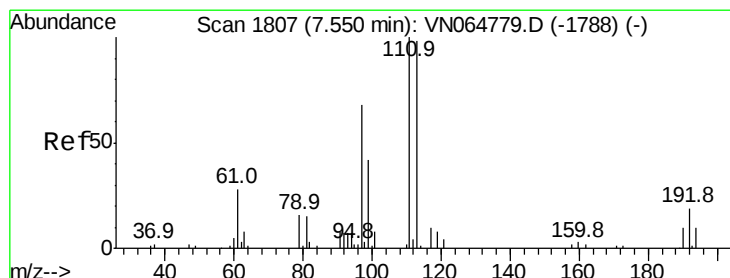
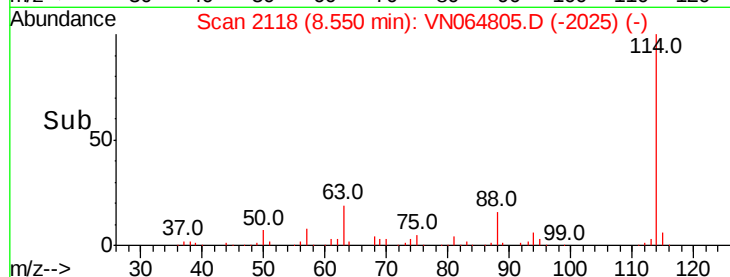
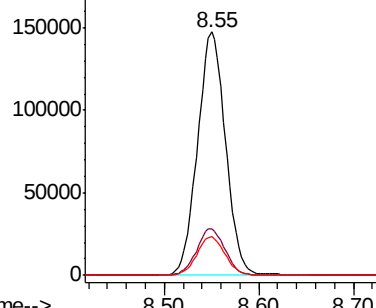
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064805.D
 Acq: 24 Nov 2020 13:02

Instrument :
 MSVOA_N
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 MW-17

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	38.6
88	15.8	0.0	32.6

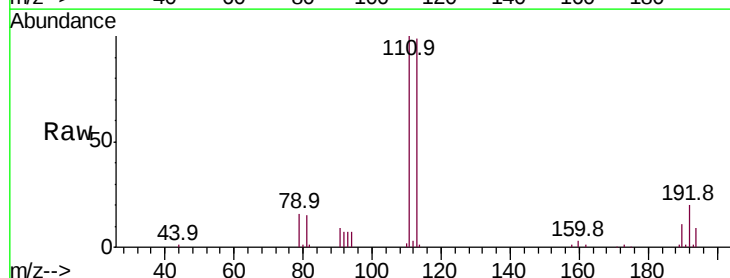


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

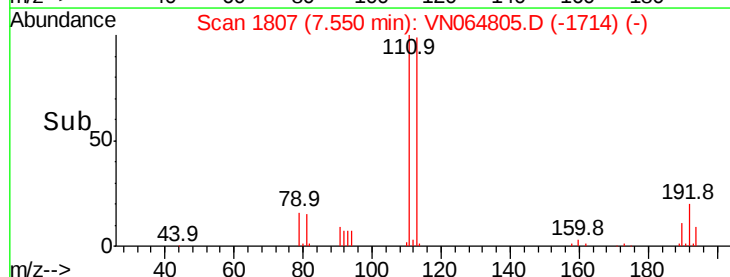
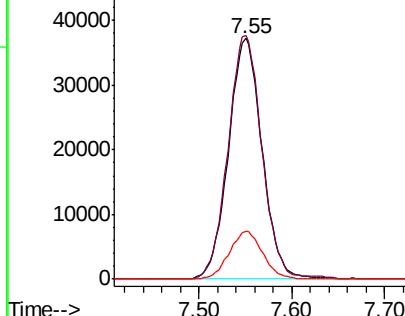


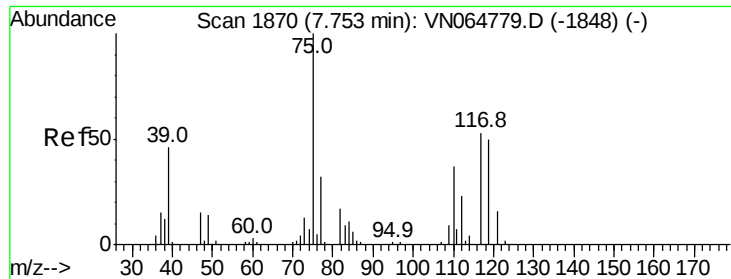
#35
 Dibromofluoromethane
 Concen: 51.336 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064805.D
 Acq: 24 Nov 2020 13:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.6	122.4
192	19.7	16.2	24.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.177 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

MW-17

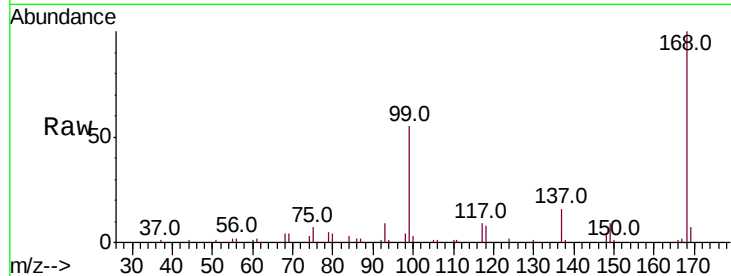
Tot Ion: 75 Resp: 11781

Ion Ratio Lower Upper

75 100

110 9.2 17.8 53.3#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN064779.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN064779.D (-1848) (-)

7.62

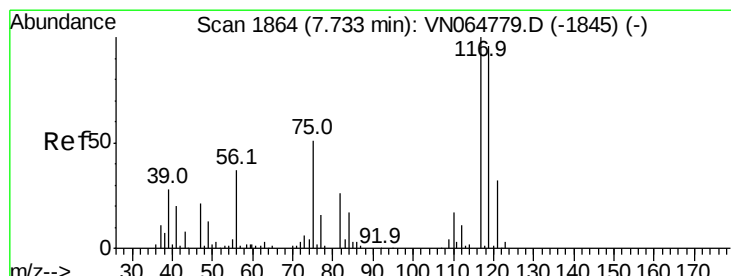
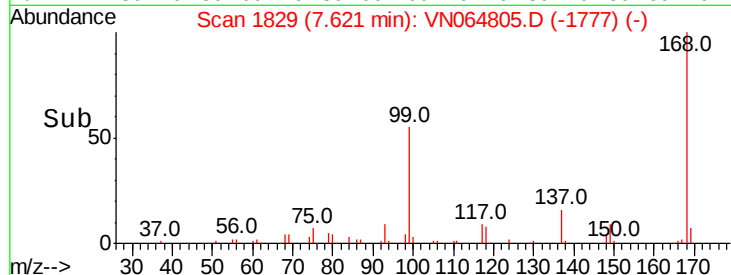
4000

2000

0

7.55 7.60 7.65 7.70

Time-->



#38

Carbon Tetrachloride

Concen: 5.343 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

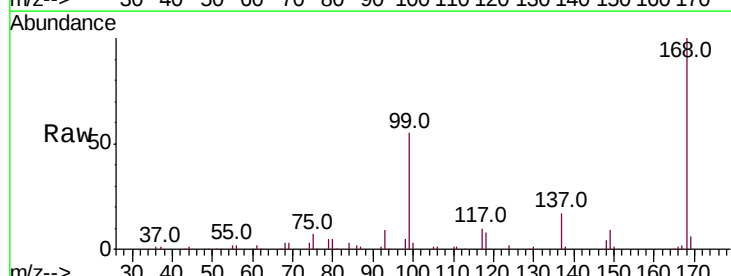
Tgt Ion: 117 Resp: 15681

Ion Ratio Lower Upper

117 100

119 4.7 76.7 115.1#

121 0.0 25.4 38.2#



Abundance Ion 116.80 (116.50 to 117.50): VN064779.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN064779.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN064779.D (-1845) (-)

7.63

8000

6000

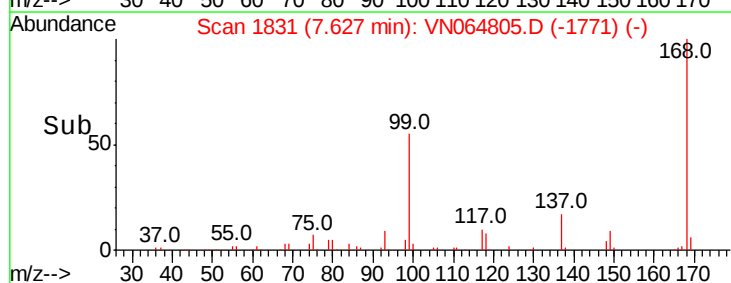
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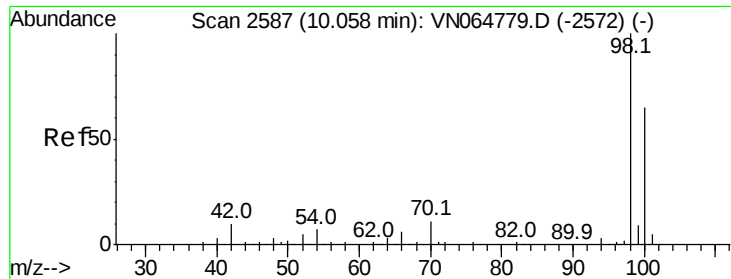
2000

0

7.55 7.60 7.65 7.70

Time-->





#50

Toluene-d8

Concen: 50.374 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

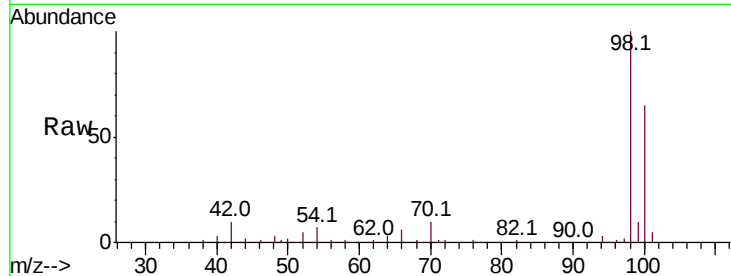
MW-17

Tot Ion: 98 Resp: 374765

Ion Ratio Lower Upper

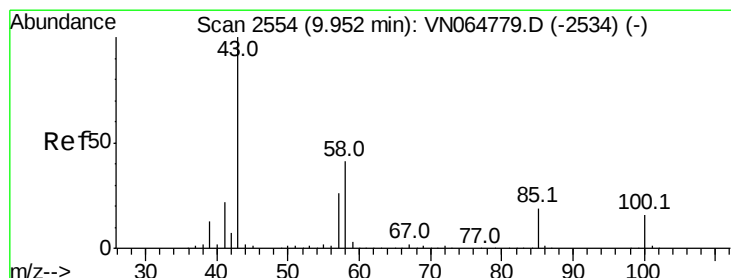
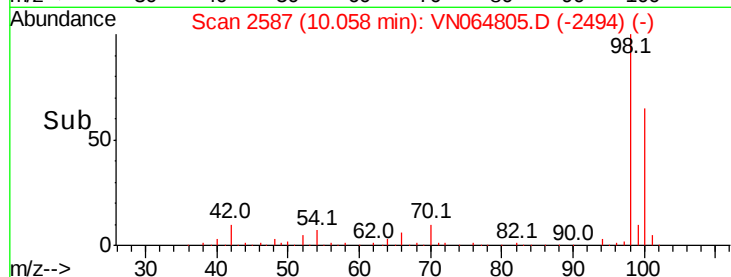
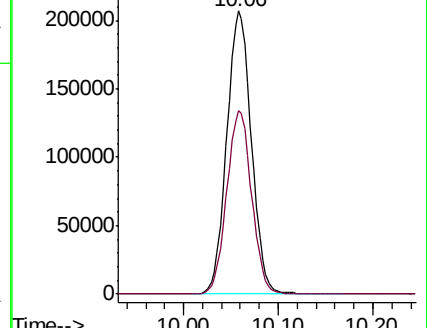
98 100

100 65.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.658 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.11 min

Lab File: VN064805.D

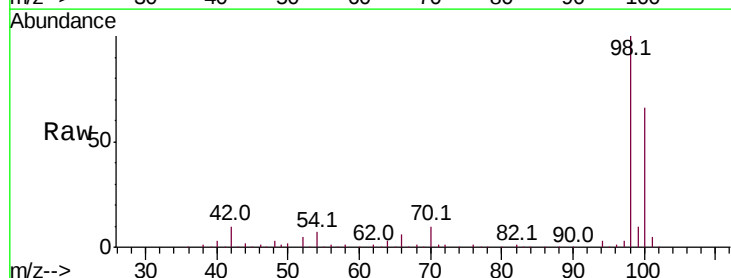
Acq: 24 Nov 2020 13:02

Tgt Ion: 43 Resp: 1728

Ion Ratio Lower Upper

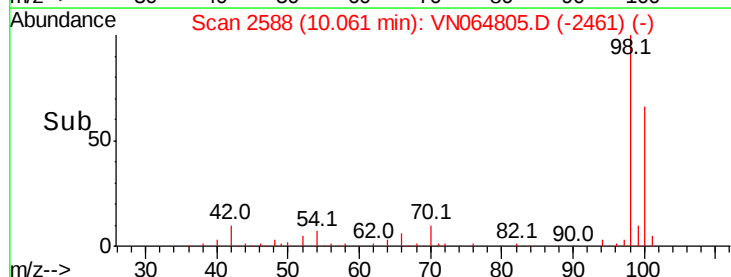
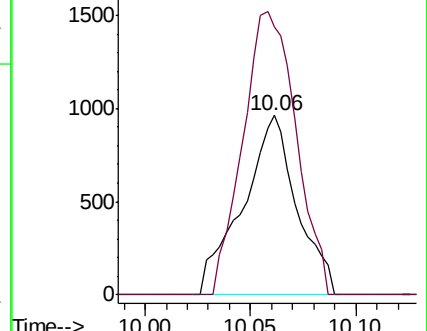
43 100

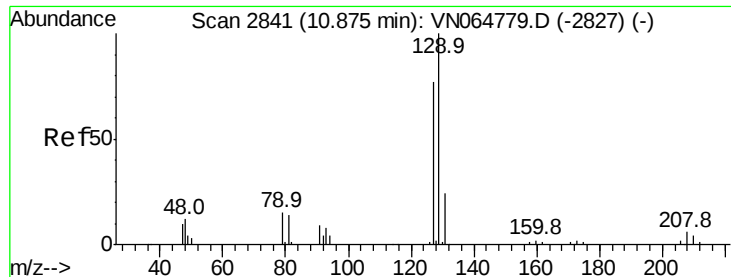
58 153.8 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)





#60

Dibromochloromethane

Concen: 1.333 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

Instrument :

MSVOA_N

ClientSampled :

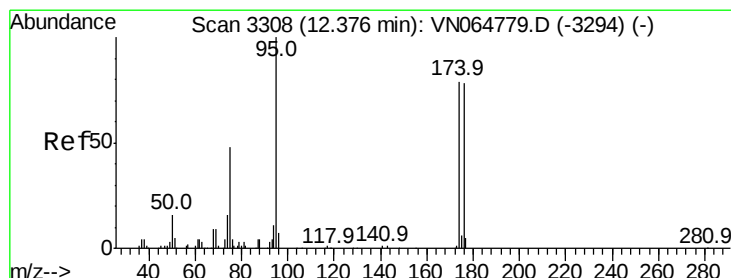
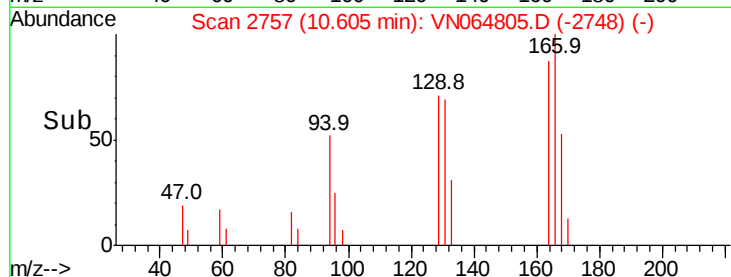
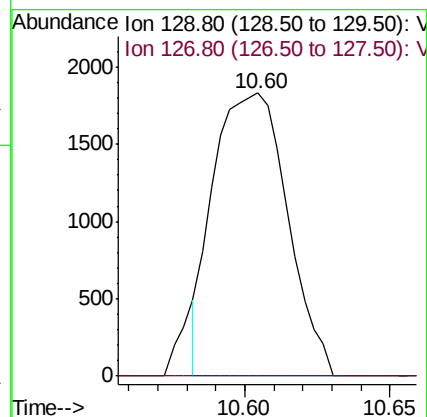
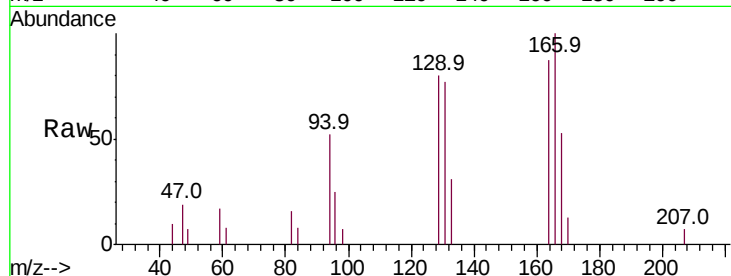
MW-17

Tot Ion:129 Resp: 3243

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



#62

4-Bromofluorobenzene

Concen: 58.101 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

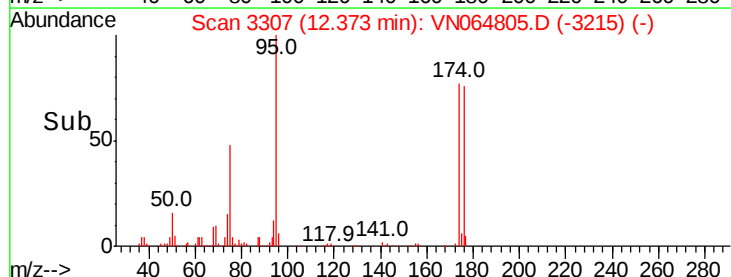
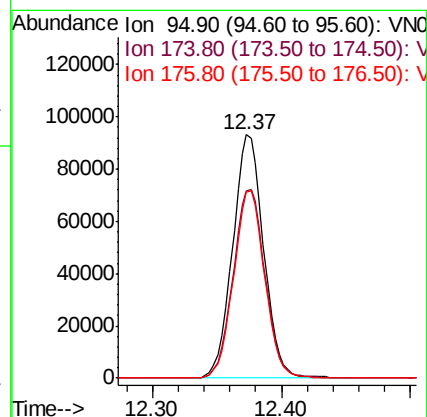
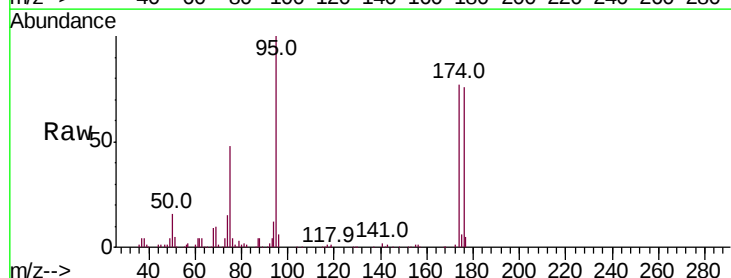
Tgt Ion: 95 Resp: 154693

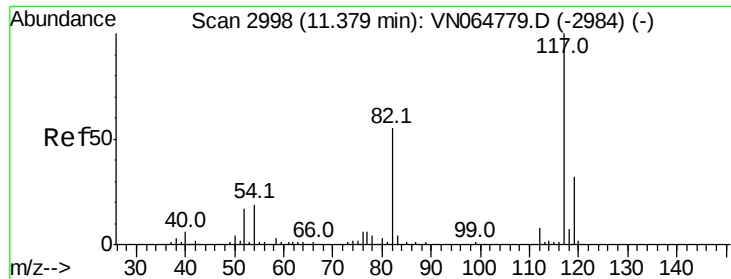
Ion Ratio Lower Upper

95 100

174 80.1 0.0 160.4

176 77.6 0.0 158.4

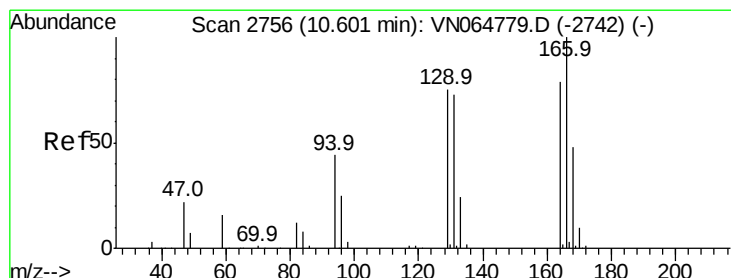
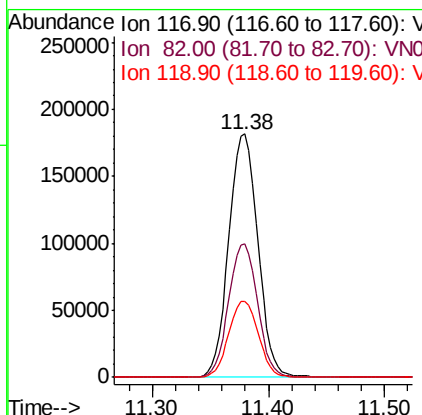
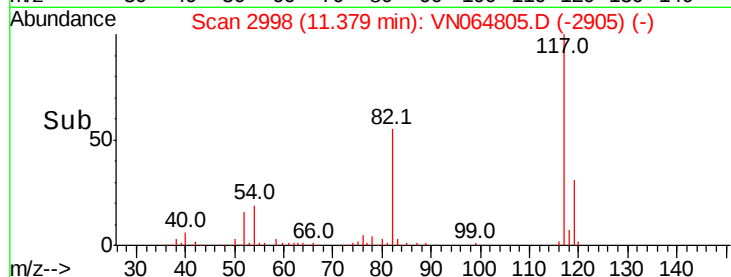
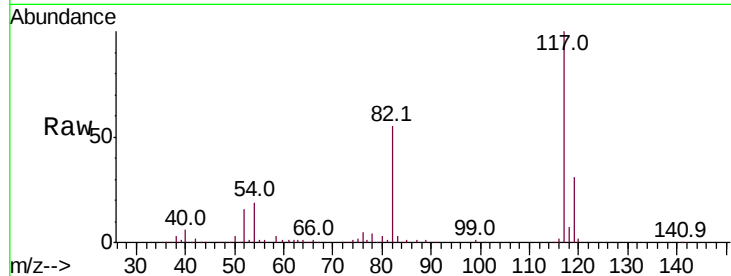




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

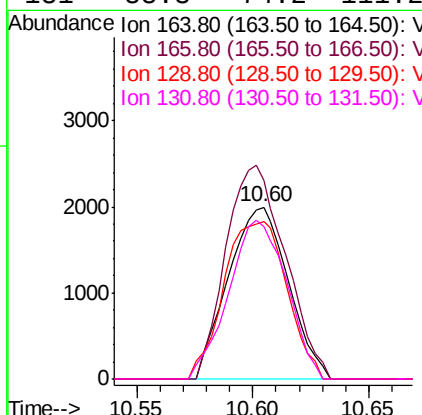
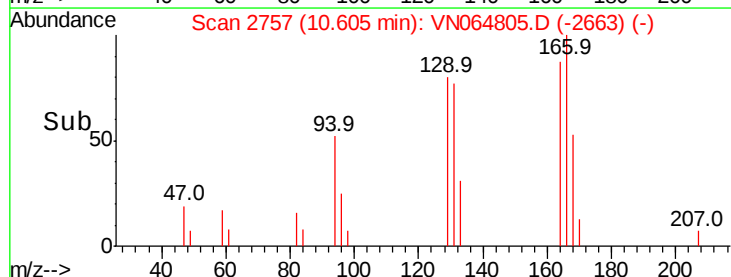
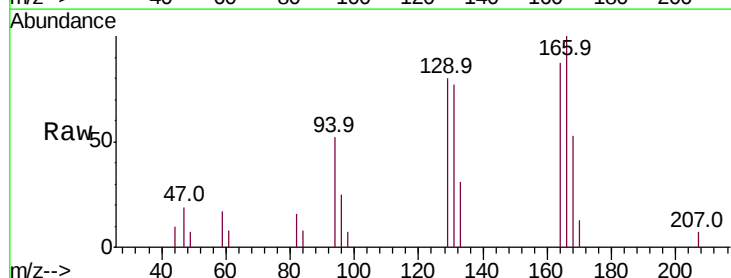
Instrument :
MSVOA_N
ClientSampled :
MW-17

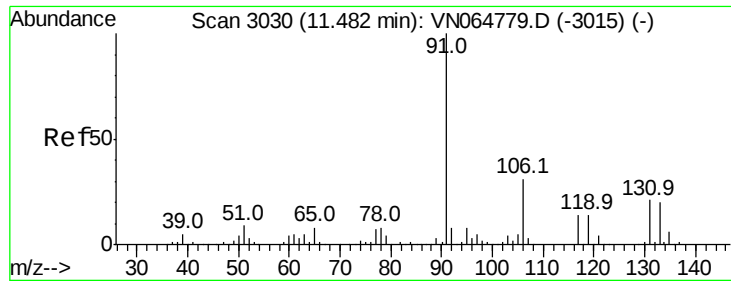
Tot Ion:117 Resp: 316465
Ion Ratio Lower Upper
117 100
82 54.8 44.2 66.2
119 31.3 25.8 38.6



#64
Tetrachloroethene
Concen: 1.167 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

Tgt Ion:164 Resp: 3594
Ion Ratio Lower Upper
164 100
166 115.3 101.4 152.0
129 91.6 76.1 114.1
131 88.3 74.2 111.2

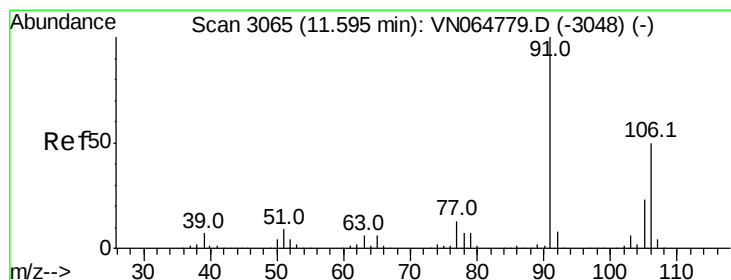
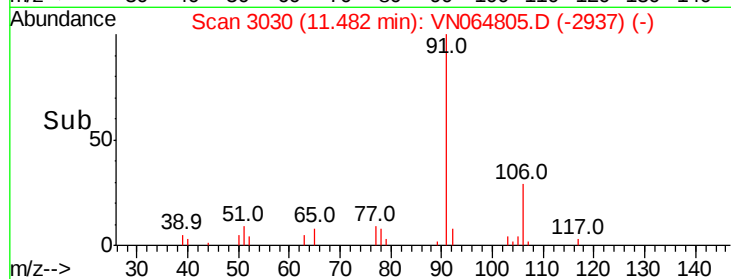
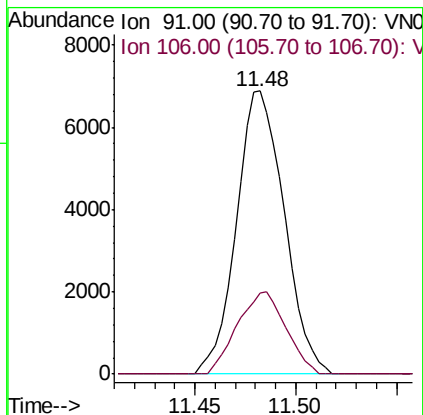
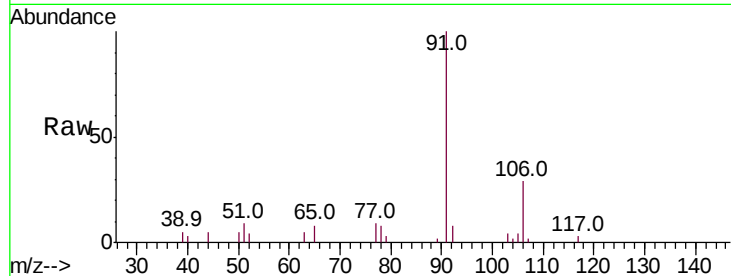




#67
Ethyl Benzene
Concen: 1.005 ug/l
RT: 11.48 min Scan# 3030
Delta R.T. 0.00 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

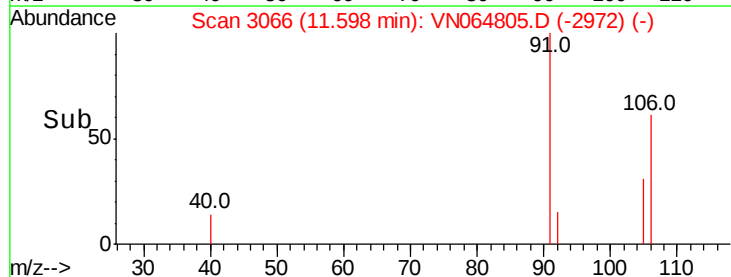
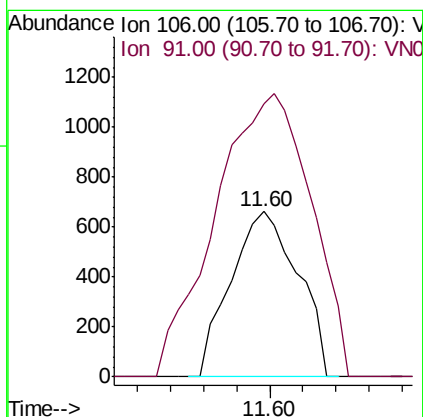
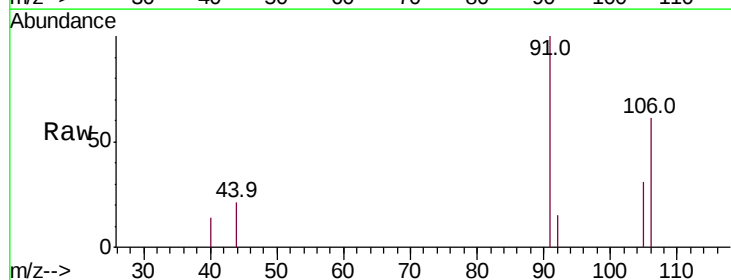
Instrument :
MSVOA_N
ClientSampleId :
MW-17

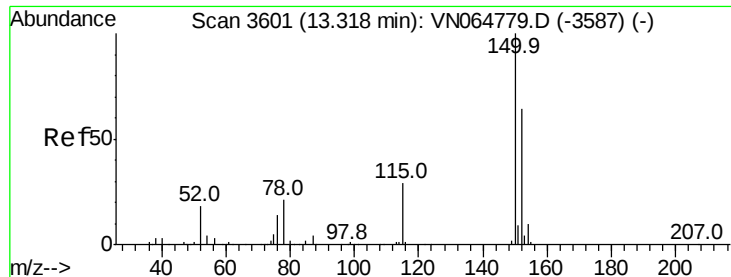
Tot Ion: 91 Resp: 11407
Ion Ratio Lower Upper
91 100
106 28.7 25.2 37.8



#68
m/p-Xylenes
Concen: 0.218 ug/l
RT: 11.60 min Scan# 3066
Delta R.T. 0.00 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

Tgt Ion: 106 Resp: 936
Ion Ratio Lower Upper
106 100
91 243.6 161.0 241.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

Instrument :

MSVOA_N

ClientSampled :

MW-17

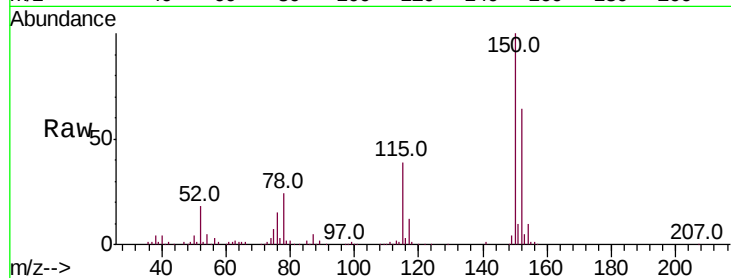
Tot Ion:152 Resp: 148880

Ion Ratio Lower Upper

152 100

115 60.1 29.7 89.1

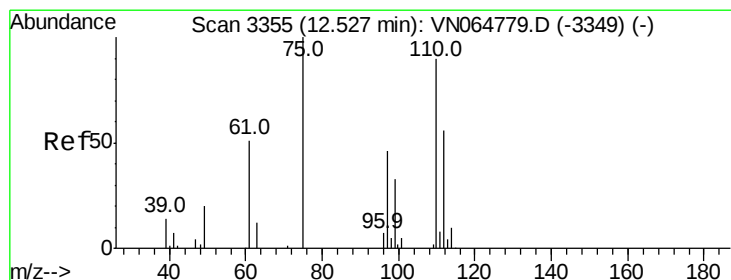
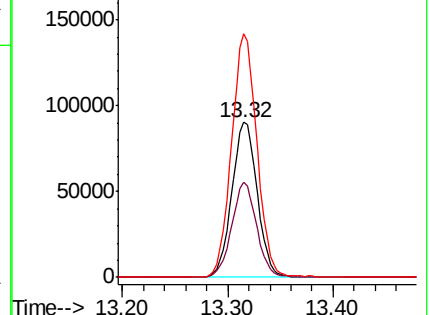
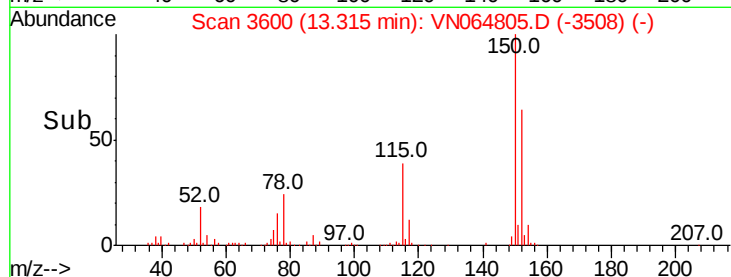
150 158.4 0.0 350.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.238 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064805.D

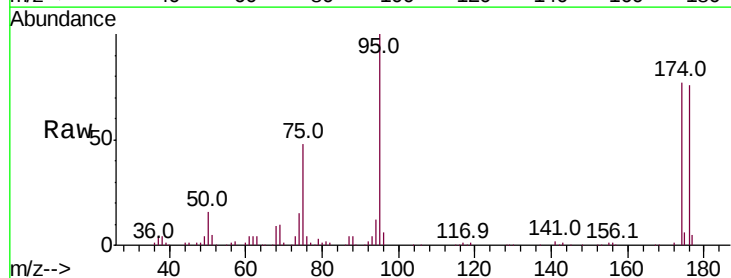
Acq: 24 Nov 2020 13:02

Tgt Ion: 75 Resp: 74507

Ion Ratio Lower Upper

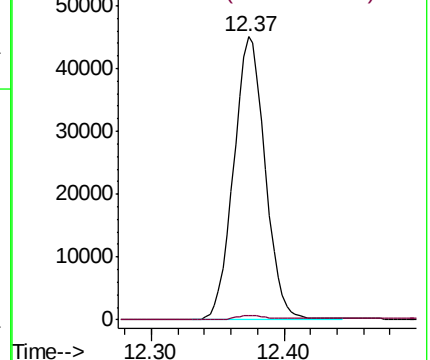
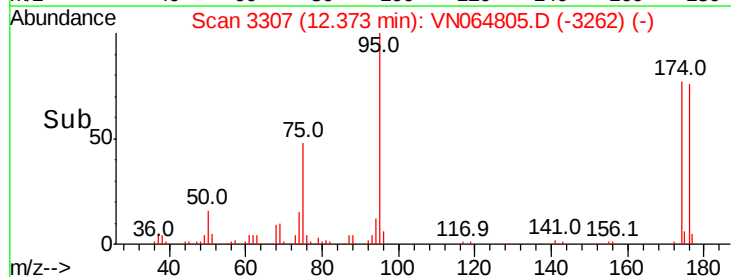
75 100

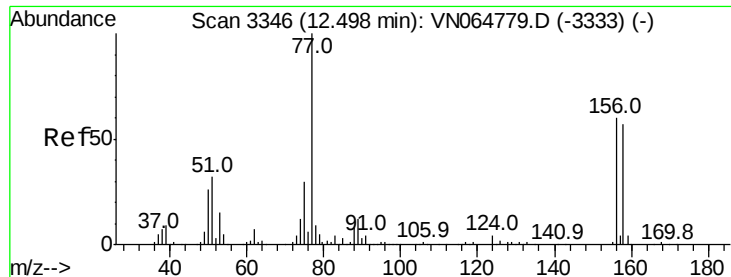
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 0.659 ug/l

RT: 12.45 min Scan# 3331

Delta R.T. -0.05 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

Instrument :

MSVOA_N

ClientSampled :

MW-17

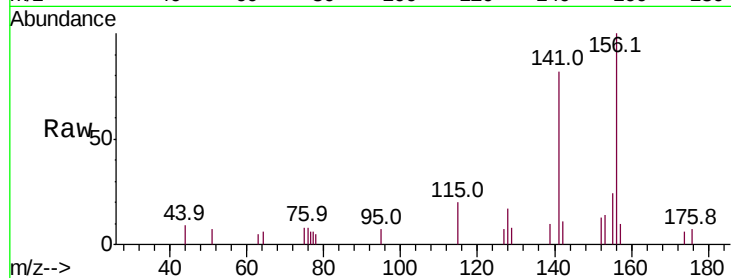
Tot Ion:156 Resp: 1839

Ion Ratio Lower Upper

156 100

77 6.5 101.3 303.7#

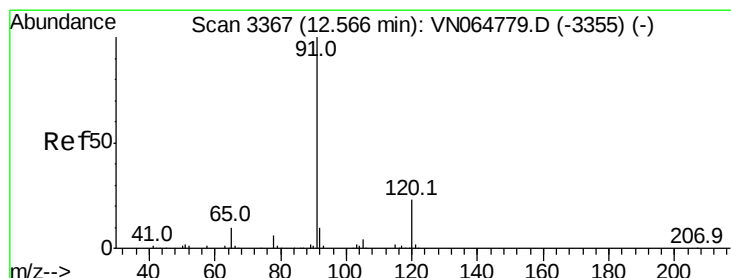
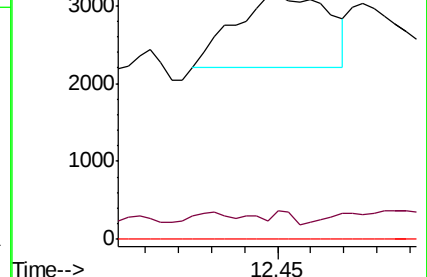
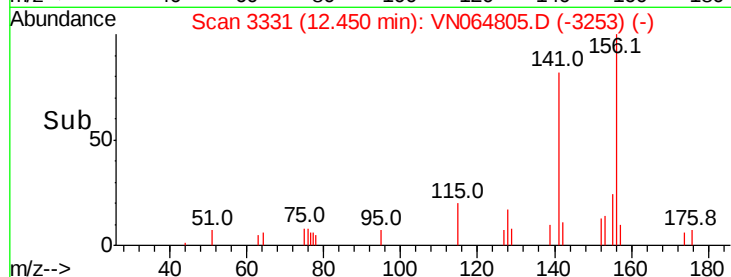
158 0.0 48.2 144.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.260 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. 0.00 min

Lab File: VN064805.D

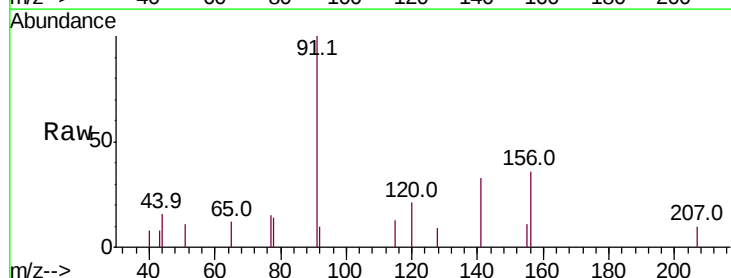
Acq: 24 Nov 2020 13:02

Tgt Ion: 91 Resp: 3062

Ion Ratio Lower Upper

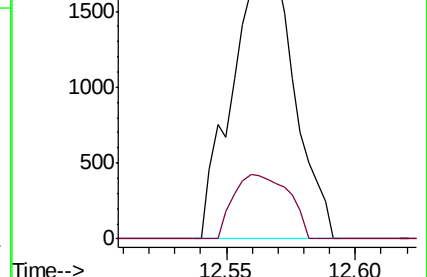
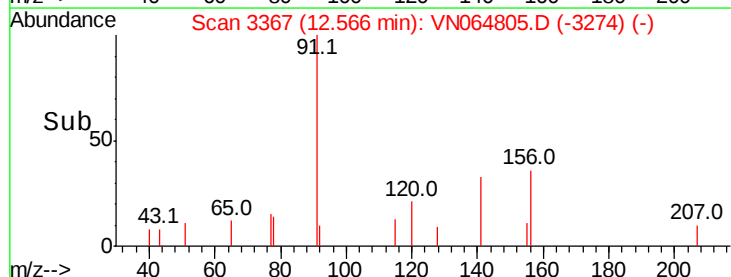
91 100

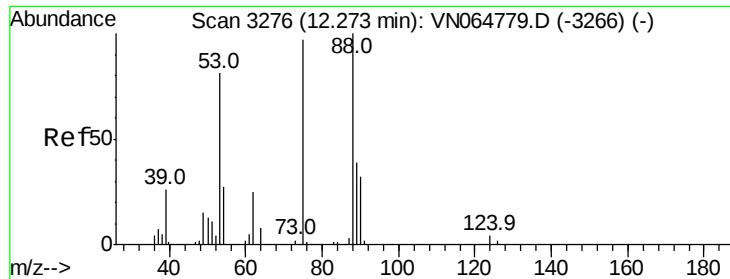
120 20.6 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

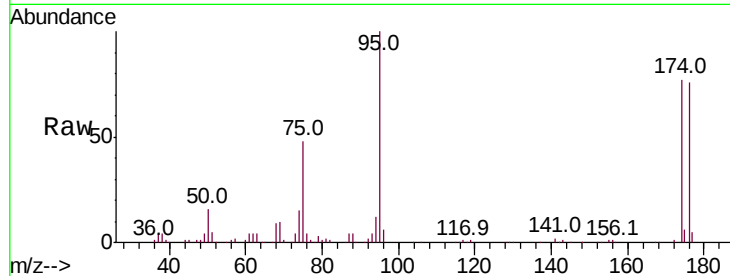




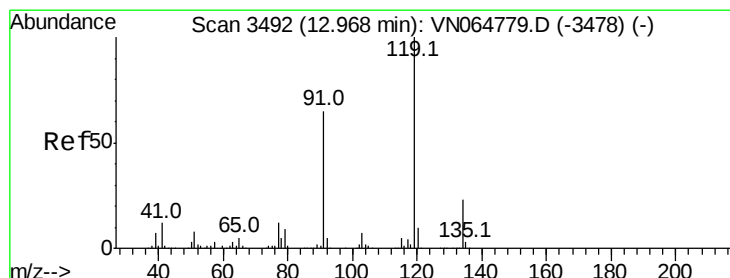
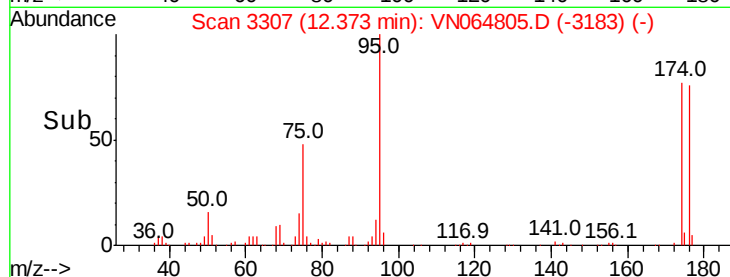
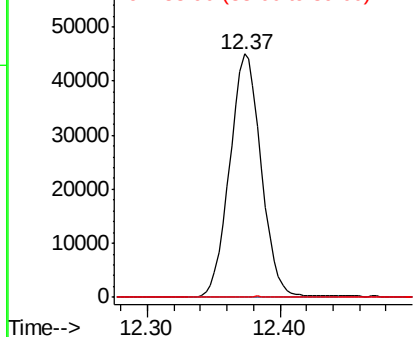
#81
trans-1,4-Dichloro-2-butene
Concen: 63.690 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

Instrument :
MSVOA_N
ClientSampleId :
MW-17

Tot Ion: 75 Resp: 74507
Ion Ratio Lower Upper
75 100
53 0.0 67.0 100.4#
89 0.1 39.6 59.4#

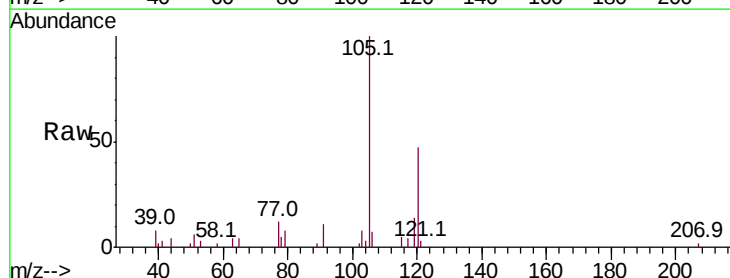


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

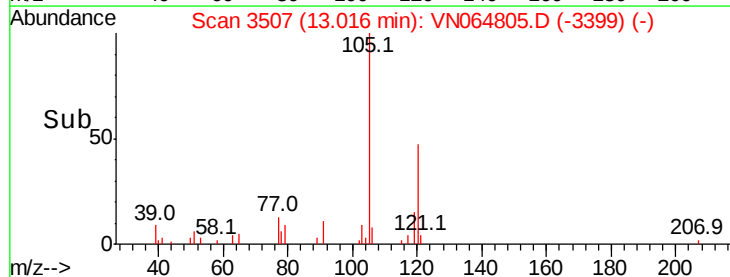
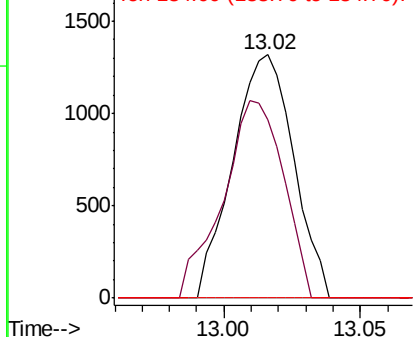


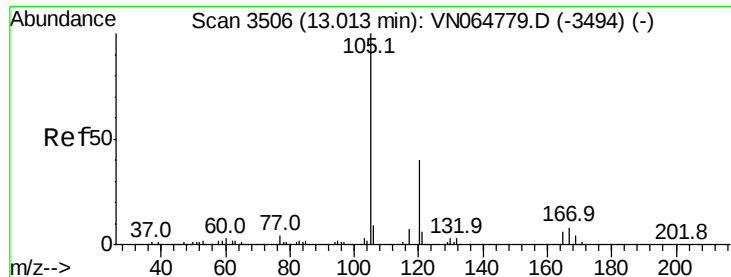
#83
tert-Butylbenzene
Concen: 0.283 ug/l
RT: 13.02 min Scan# 3507
Delta R.T. 0.05 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

Tgt Ion: 119 Resp: 2042
Ion Ratio Lower Upper
119 100
91 80.7 32.3 96.8
134 0.0 12.6 37.6#



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VN0
Ion 134.00 (133.70 to 134.70): V

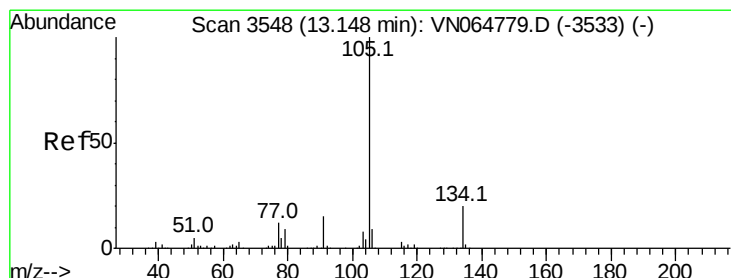
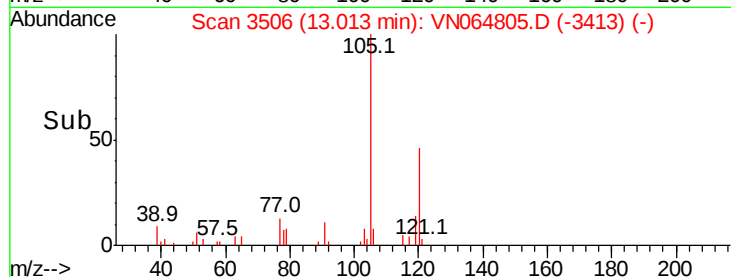
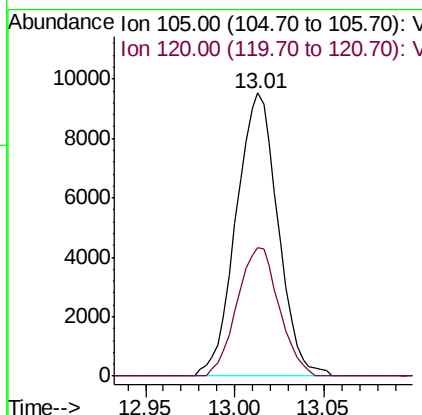
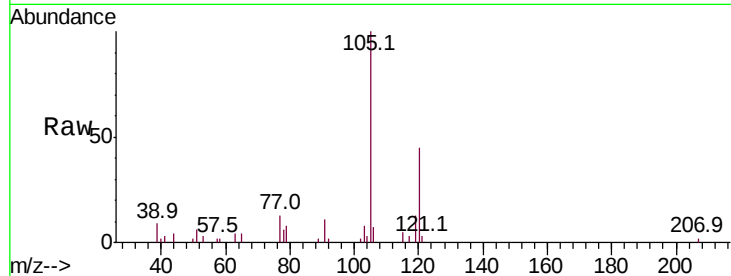




#84
1,2,4-Trimethylbenzene
Concen: 1.792 ug/l
RT: 13.01 min Scan# 3506
Delta R.T. 0.00 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

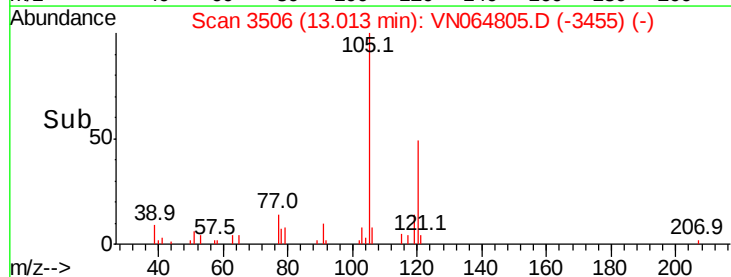
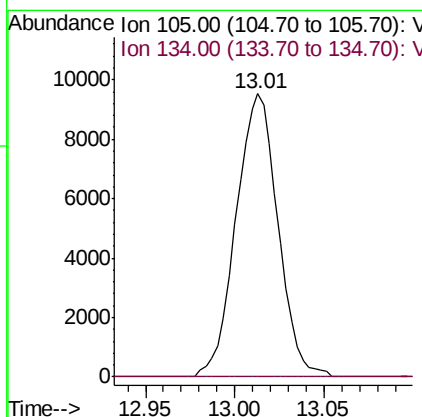
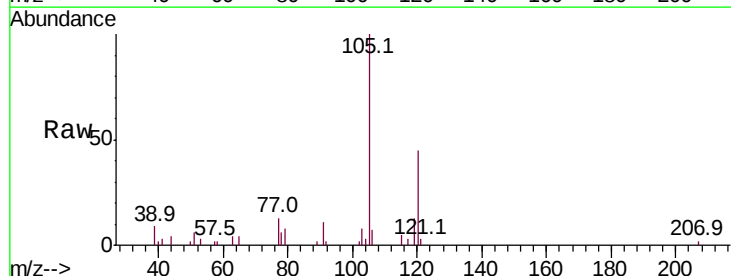
Instrument :
MSVOA_N
ClientSampleId :
MW-17

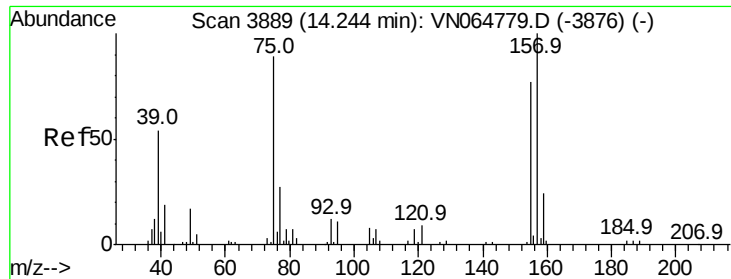
Tot Ion:105 Resp: 15599
Ion Ratio Lower Upper
105 100
120 45.5 23.1 69.2



#85
sec-Butylbenzene
Concen: 1.628 ug/l
RT: 13.01 min Scan# 3506
Delta R.T. -0.14 min
Lab File: VN064805.D
Acq: 24 Nov 2020 13:02

Tgt Ion:105 Resp: 15599
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.804 ug/l

RT: 14.44 min Scan# 3950

Delta R.T. 0.20 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

Instrument :

MSVOA_N

ClientSampled :

MW-17

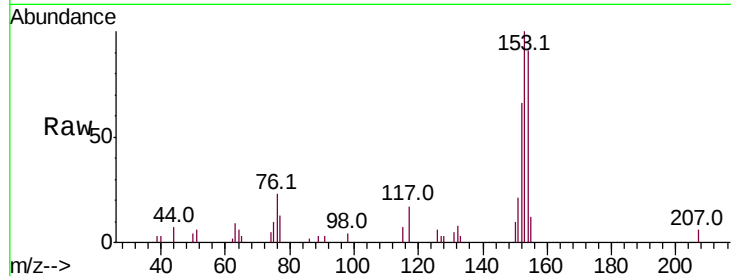
Tot Ion: 75 Resp: 1915

Ion Ratio Lower Upper

75 100

155 126.0 42.8 128.3

157 0.0 56.4 169.1#

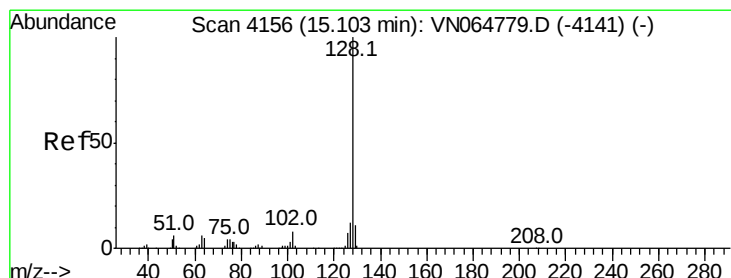
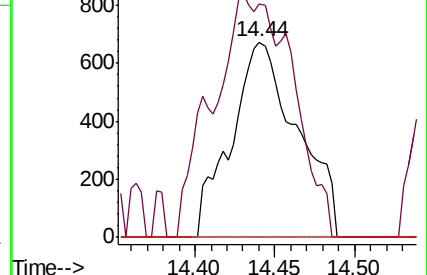
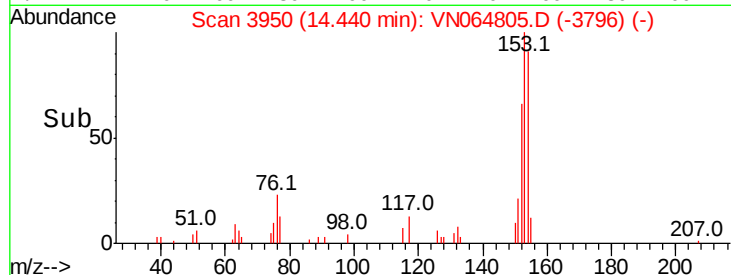


Abundance Ion 74.90 (74.60 to 75.60): VN064805.D (-3796) (-)

Ion 154.80 (154.50 to 155.50): VN064805.D (-3796) (-)

Ion 156.80 (156.50 to 157.50): VN064805.D (-3796) (-)

14.44



#95

Naphthalene

Concen: 8.439 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

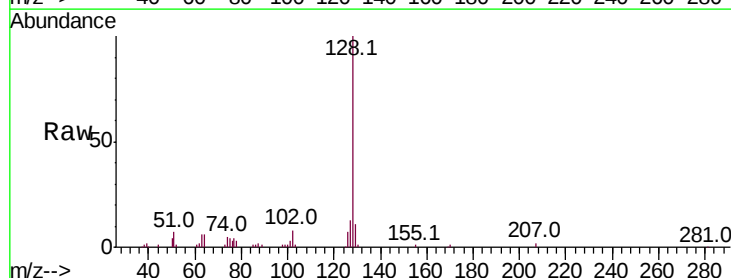
Tgt Ion:128 Resp: 76172

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 11.3 8.7 13.1

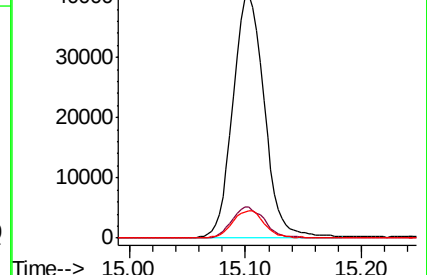
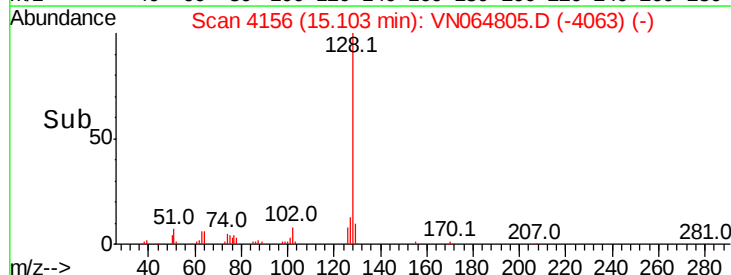


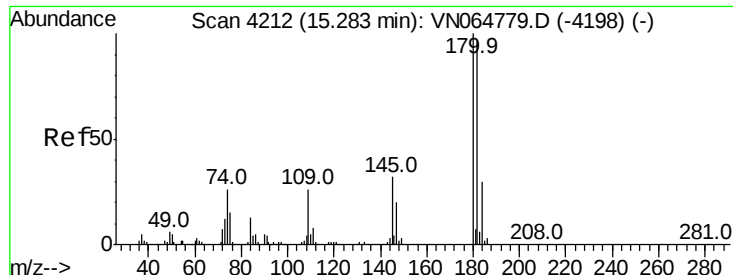
Abundance Ion 128.00 (127.70 to 128.70): VN064805.D (-4063) (-)

Ion 127.00 (126.70 to 127.70): VN064805.D (-4063) (-)

Ion 129.00 (128.70 to 129.70): VN064805.D (-4063) (-)

15.10





#96

1,2,3-Trichlorobenzene

Concen: 1.419 ug/l

RT: 15.28 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN064805.D

Acq: 24 Nov 2020 13:02

Instrument :

MSVOA_N

ClientSampleId :

MW-17

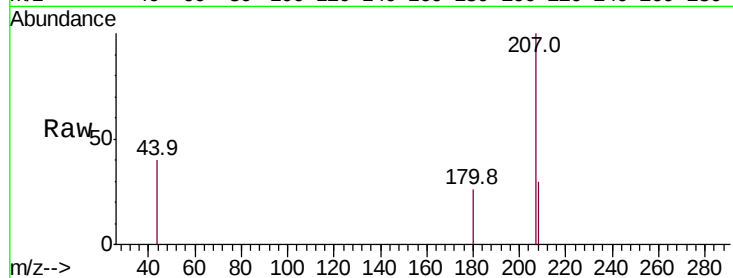
Tot Ion:180 Resp: 79

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.4#

145 0.0 16.4 49.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

