

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051019\
 Data File : VN055553.D
 Acq On : 10 May 2019 15:43
 Operator : JC/SP
 Sample : K2758-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IW-23

Quant Time: May 11 00:58:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 06:48:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	877108	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1451603	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1211864	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	322864	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	594592	45.02	ug/l	0.00
Spiked Amount			Recovery	=	90.04%	
35) Dibromofluoromethane	7.59	113	465134	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
50) Toluene-d8	10.09	98	1744218	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
62) 4-Bromofluorobenzene	12.40	95	497231	40.41	ug/l	0.00
Spiked Amount			Recovery	=	80.82%	

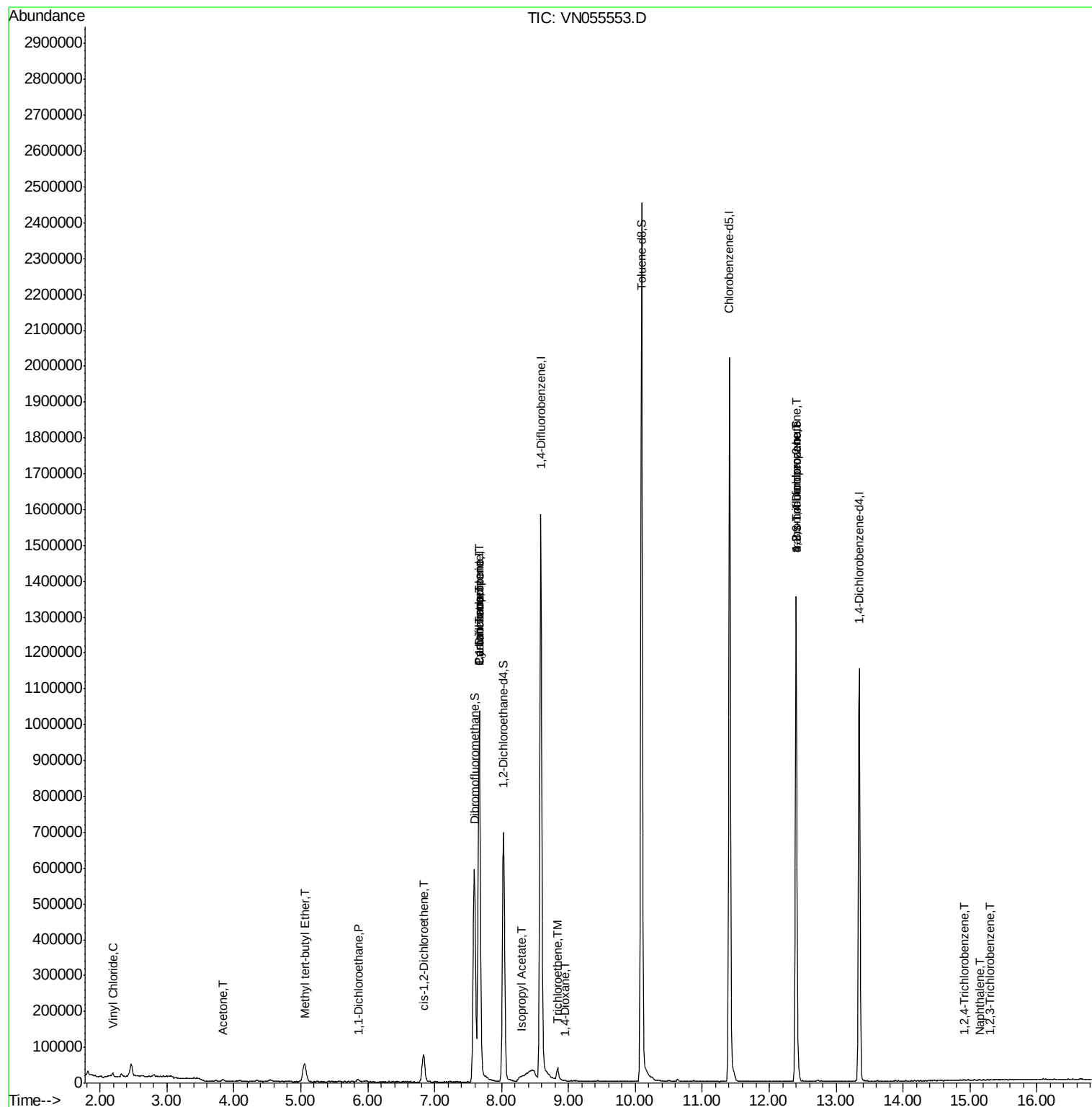
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.19	62	8104	0.592	ug/l	97
16) Acetone	3.83	43	7244	1.185	ug/l	91
18) Methyl Acetate	4.33	43	4766	Below Cal	#	89
19) Methyl tert-butyl Ether	5.06	73	80700	2.533	ug/l	97
24) 1,1-Dichloroethane	5.85	63	11144	0.517	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	50765	4.226	ug/l	89
31) Cyclohexane	7.66	56	18119	0.850	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	69561	4.864	ug/l #	50
38) Carbon Tetrachloride	7.67	117	80237	6.663	ug/l #	15
43) Isopropyl Acetate	8.28	43	13610	0.574	ug/l #	63
44) Trichloroethene	8.83	130	12236	1.159	ug/l	74
49) 1,4-Dioxane	8.95	88	118	0.530	ug/l #	20
73) Isopropylbenzene	12.25	105	315	Below Cal	#	15
75) 1,1,2,2-Tetrachloroethane	12.52	83	62	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	247602	28.170	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	247602	103.945	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	58	3.217	ug/l #	1
94) Hexachlorobutadiene	15.01	225	107	Below Cal	#	36
95) Naphthalene	15.14	128	598	2.979	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.32	180	30	2.428	ug/l #	1

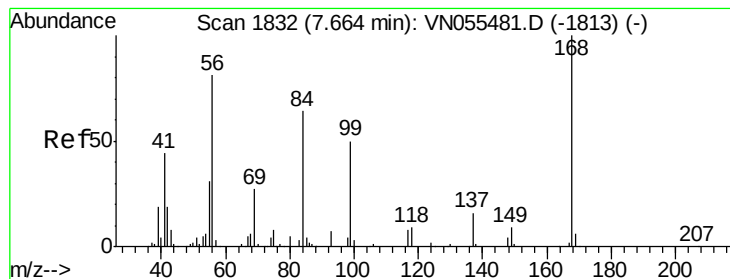
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 10 06:48:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

Instrument :

MSVOA_N

ClientSampled :

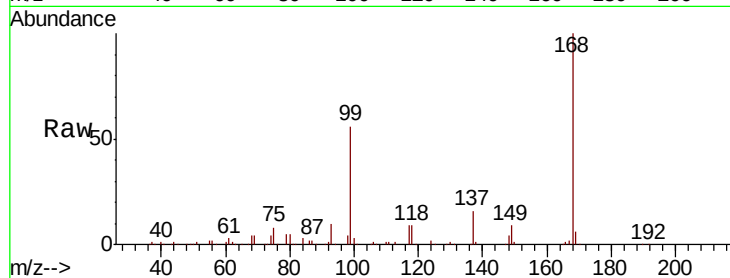
IW-23

Tot Ion:168 Resp: 877108

Ion Ratio Lower Upper

168 100

99 56.3 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

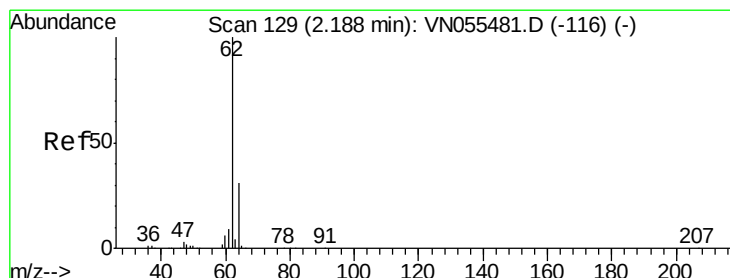
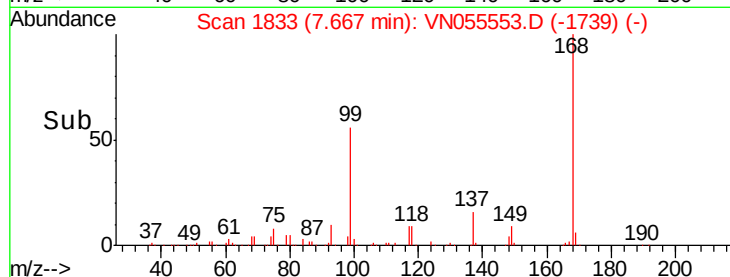
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 0.592 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN055553.D

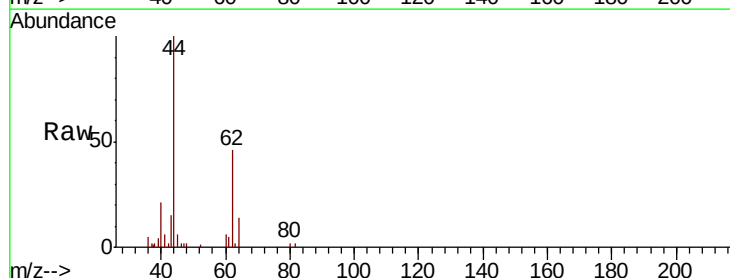
Acq: 10 May 2019 15:43

Tgt Ion: 62 Resp: 8104

Ion Ratio Lower Upper

62 100

64 29.6 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN

2.19

6000

5000

4000

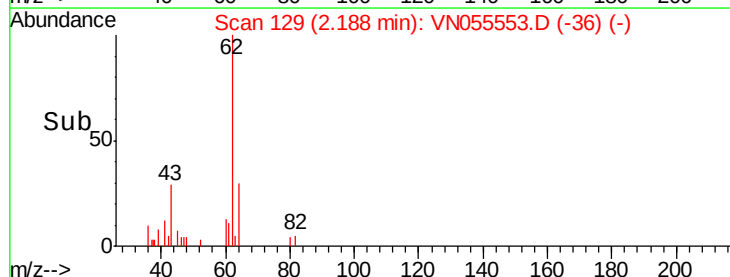
3000

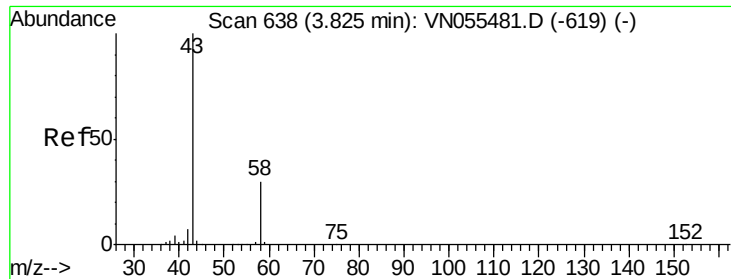
2000

1000

0

Time-->





#16

Acetone

Concen: 1.185 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.00 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

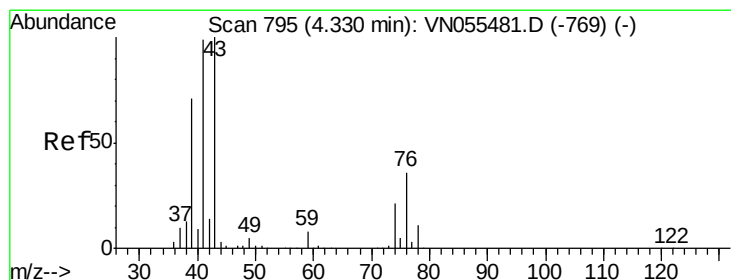
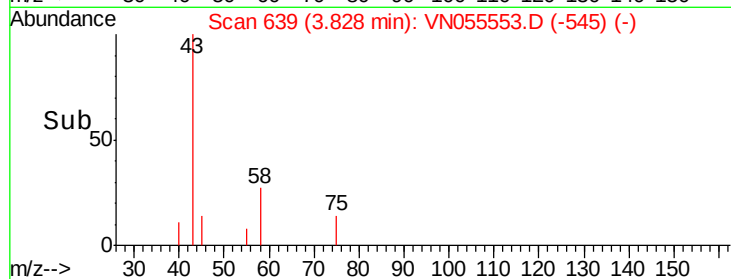
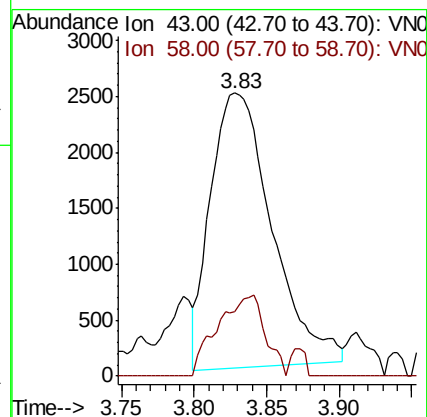
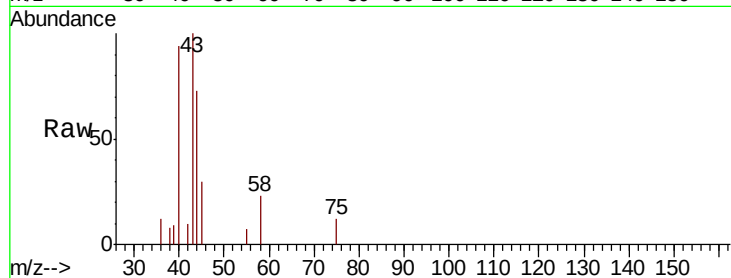
IW-23

Tot Ion: 43 Resp: 7244

Ion Ratio Lower Upper

43 100

58 25.3 24.2 36.2



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN055553.D

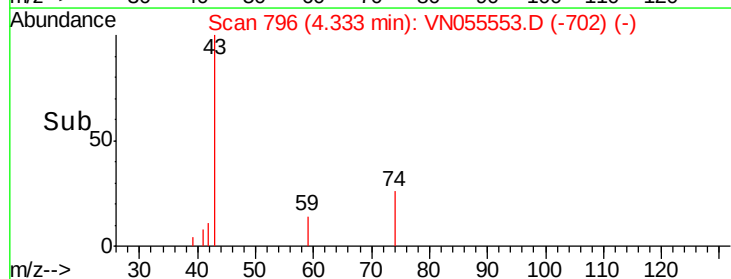
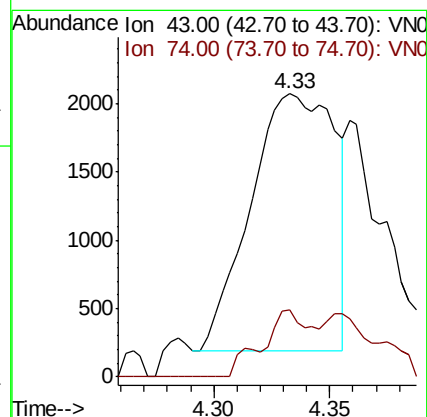
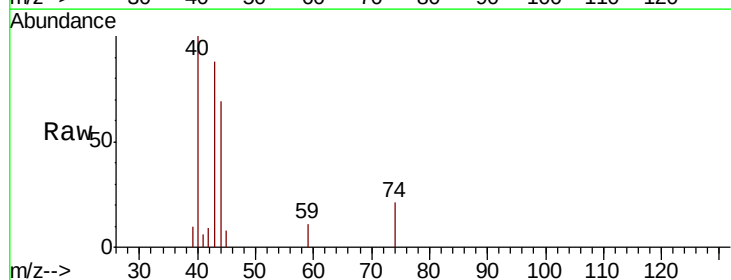
Acq: 10 May 2019 15:43

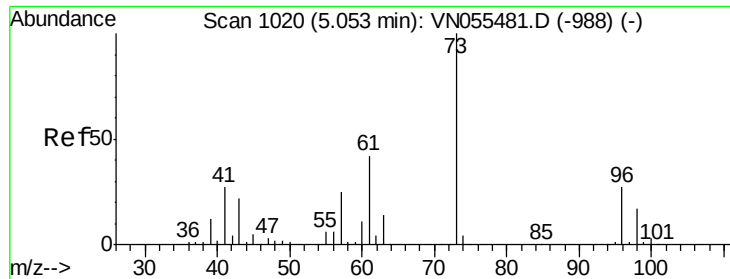
Tgt Ion: 43 Resp: 4766

Ion Ratio Lower Upper

43 100

74 15.4 16.3 24.5#

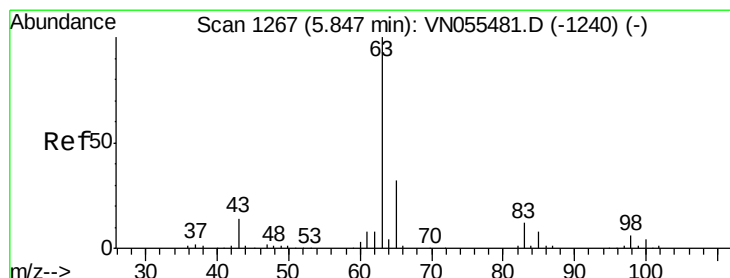
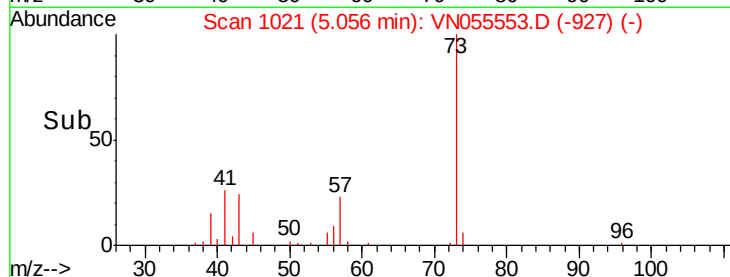
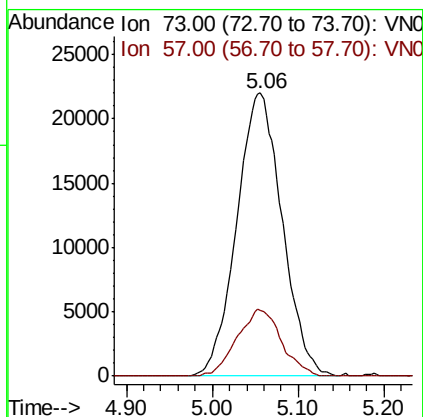
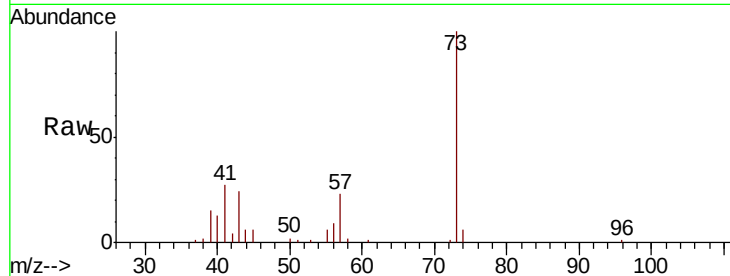




#19
Methyl tert-butyl Ether
Concen: 2.533 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN055553.D
Acq: 10 May 2019 15:43

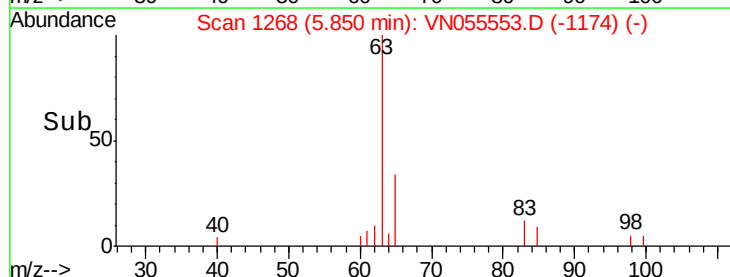
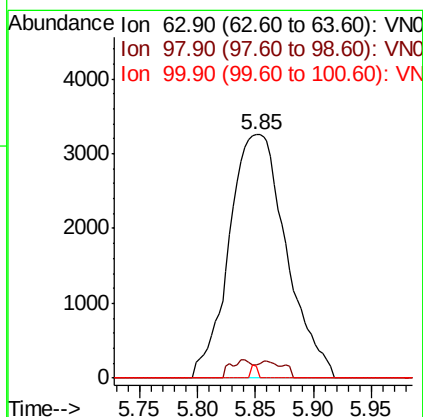
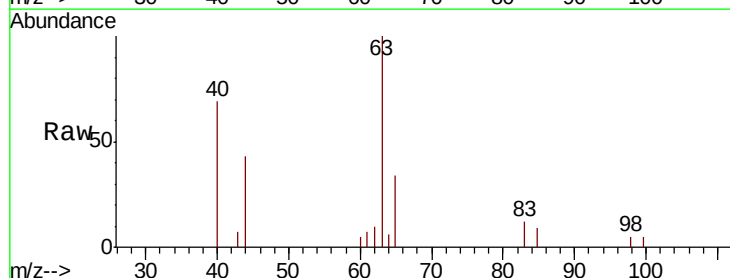
Instrument :
MSVOA_N
ClientSampled :
IW-23

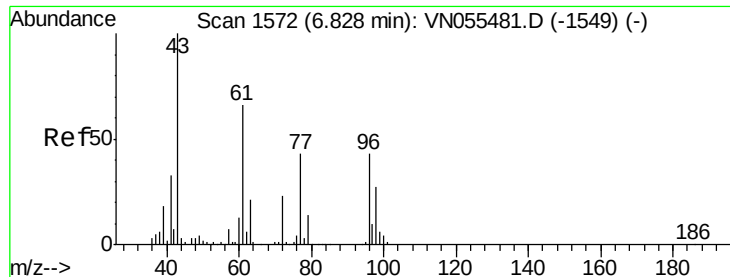
Tot Ion: 73 Resp: 80700
Ion Ratio Lower Upper
73 100
57 23.4 20.0 30.0



#24
1,1-Dichloroethane
Concen: 0.517 ug/l
RT: 5.85 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VN055553.D
Acq: 10 May 2019 15:43

Tgt Ion: 63 Resp: 11144
Ion Ratio Lower Upper
63 100
98 5.2 3.0 9.0
100 4.9 1.9 5.7





#27

cis-1,2-Dichloroethene

Concen: 4.226 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

IW-23

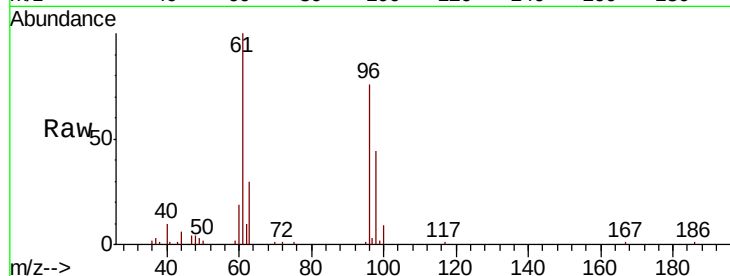
Tot Ion: 96 Resp: 50765

Ion Ratio Lower Upper

96 100

61 136.4 0.0 310.8

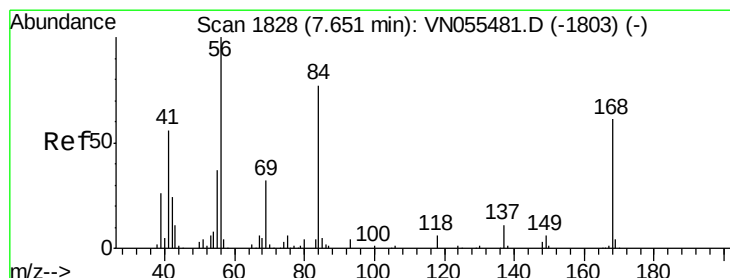
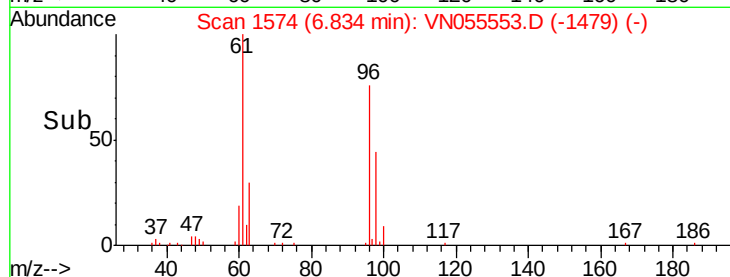
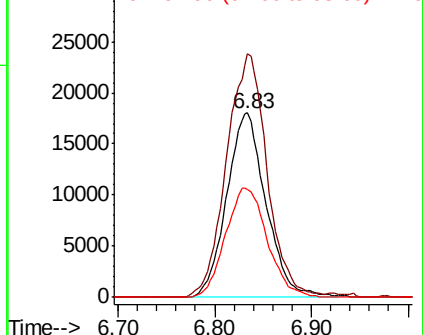
98 63.1 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.850 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

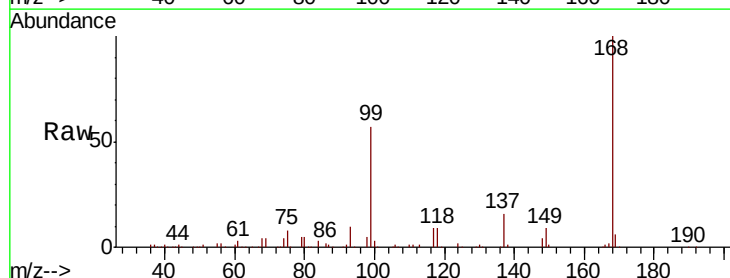
Tgt Ion: 56 Resp: 18119

Ion Ratio Lower Upper

56 100

69 181.6 26.0 39.0#

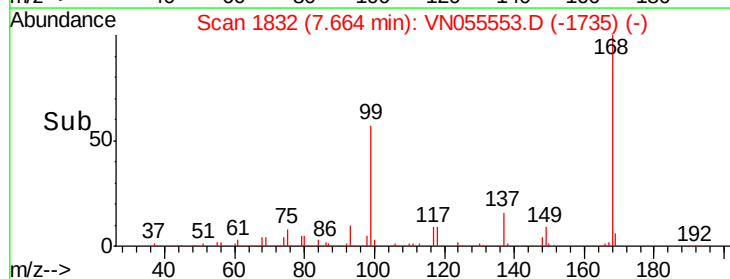
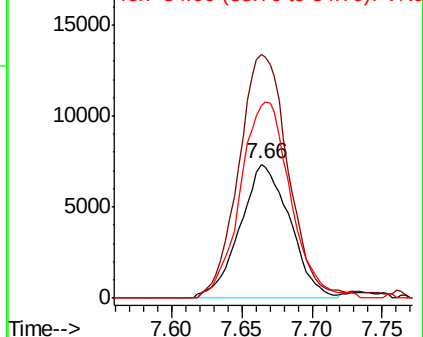
84 143.2 61.9 92.9#

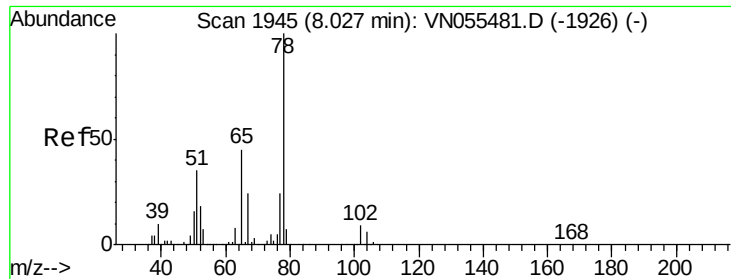


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

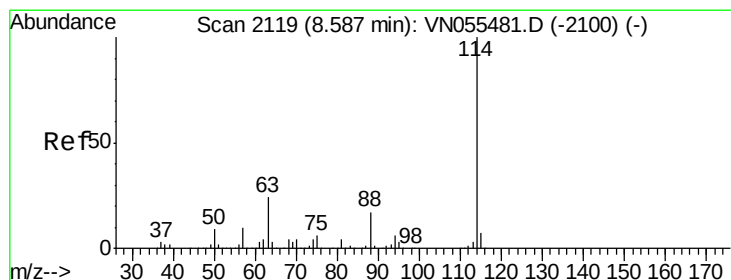
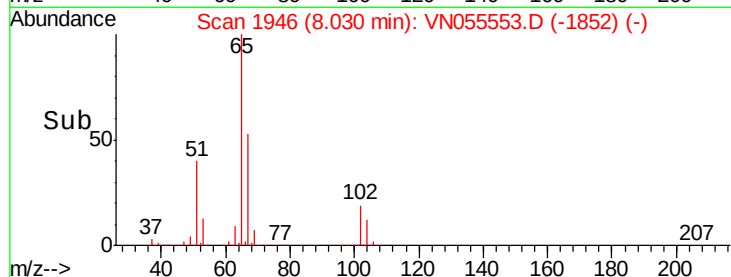
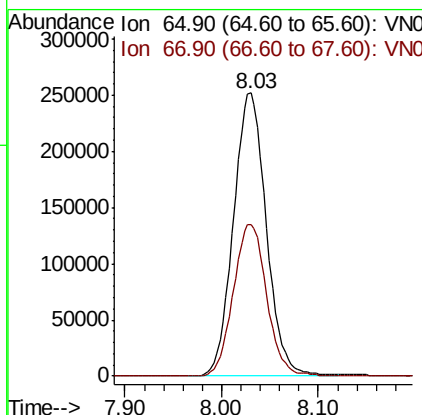
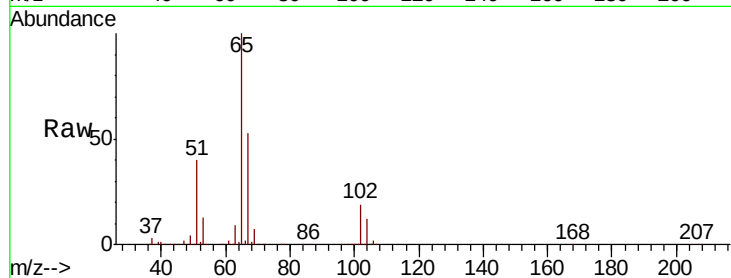




#33
 1,2-Dichloroethane-d4
 Concen: 45.023 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055553.D
 Acq: 10 May 2019 15:43

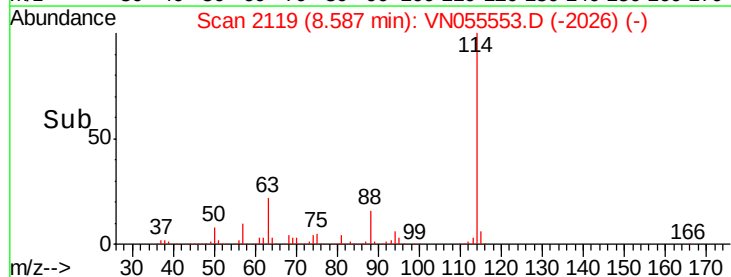
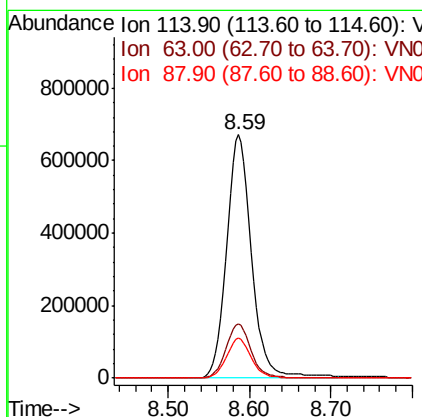
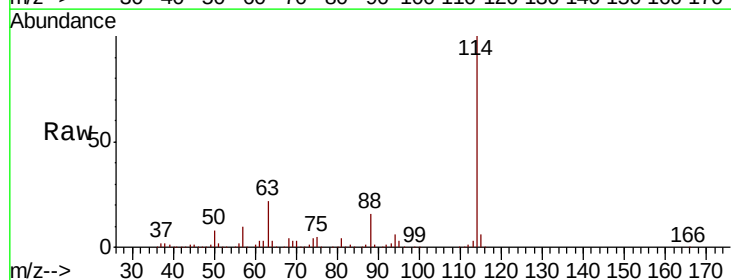
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 MSVOA_N
 ClientSampleId :
 IW-23

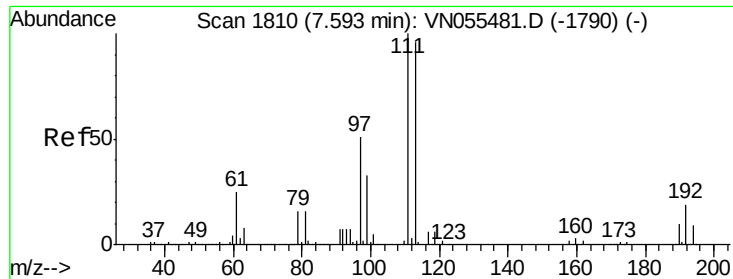
Tot Ion: 65 Resp: 594592
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055553.D
 Acq: 10 May 2019 15:43

Tgt Ion: 114 Resp: 1451603
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 47.4
 88 16.4 0.0 34.0

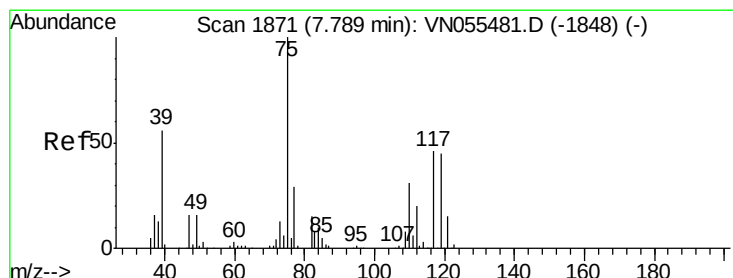
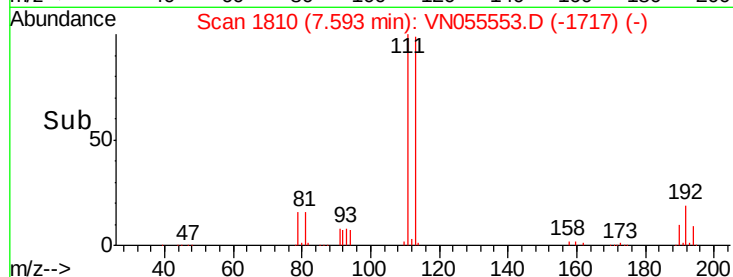
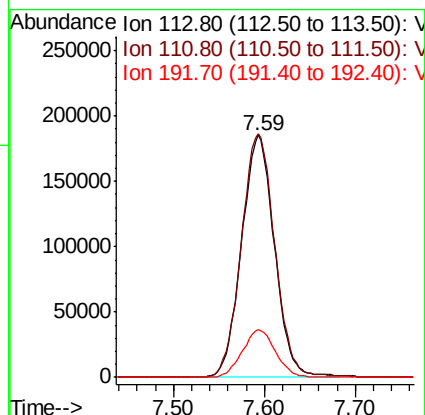
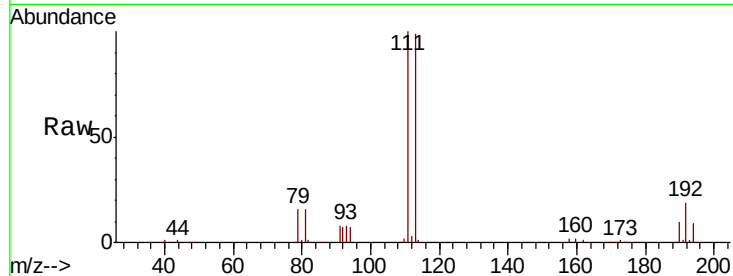




#35
 Dibromofluoromethane
 Concen: 49.673 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055553.D
 Acq: 10 May 2019 15:43

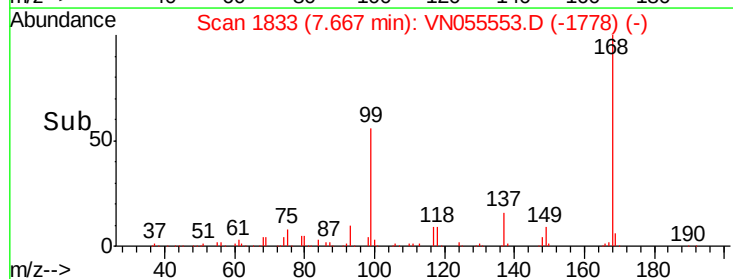
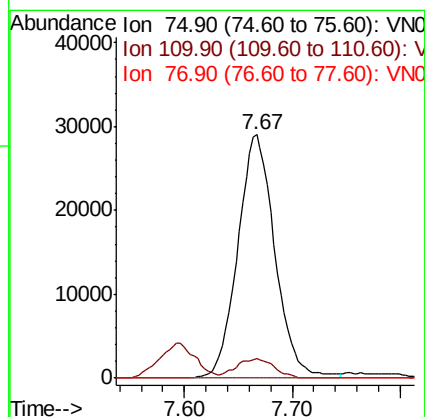
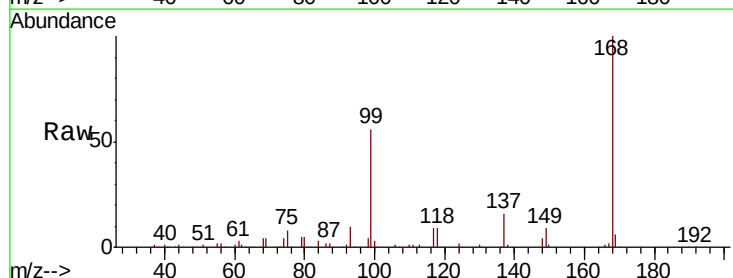
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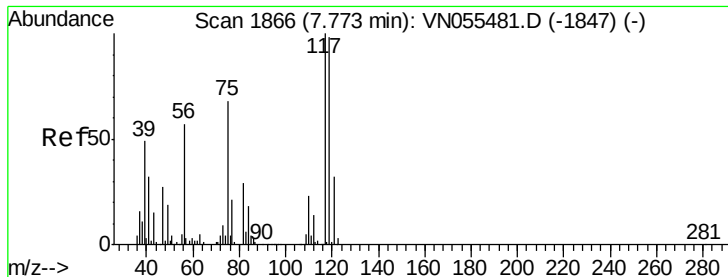
Tot Ion:113 Resp: 465134
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.9 124.3
 192 19.8 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.864 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055553.D
 Acq: 10 May 2019 15:43

Tgt Ion: 75 Resp: 69561
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.1 48.3#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.663 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

Instrument :

MSVOA_N

ClientSampled :

IW-23

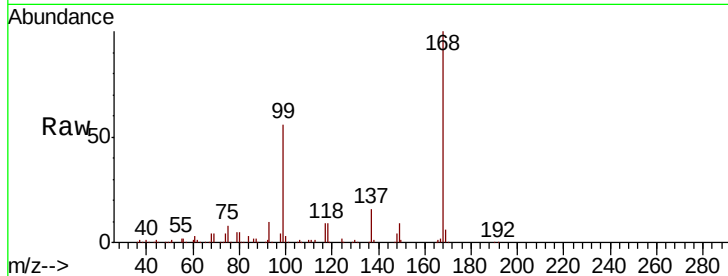
Tot Ion:117 Resp: 80237

Ion Ratio Lower Upper

117 100

119 4.6 77.8 116.6#

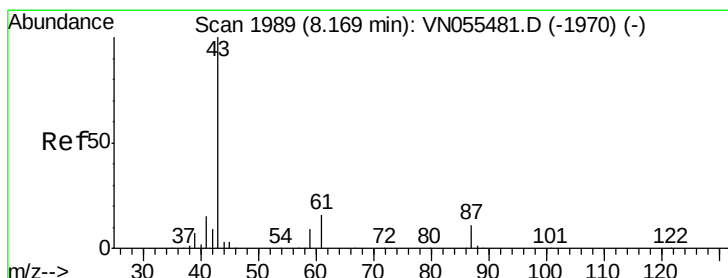
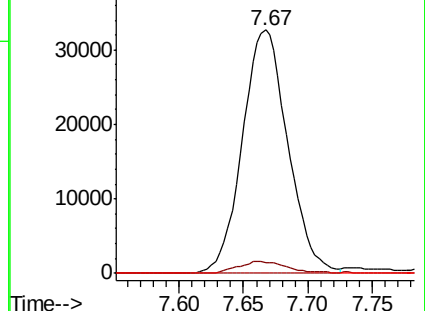
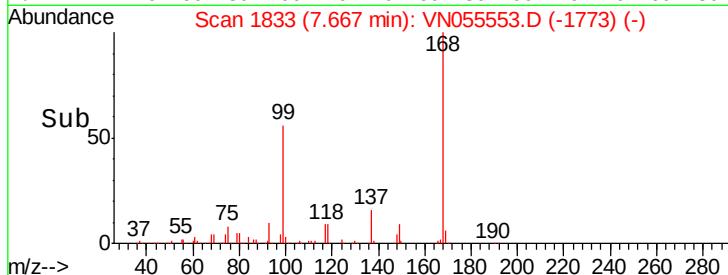
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.574 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.12 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

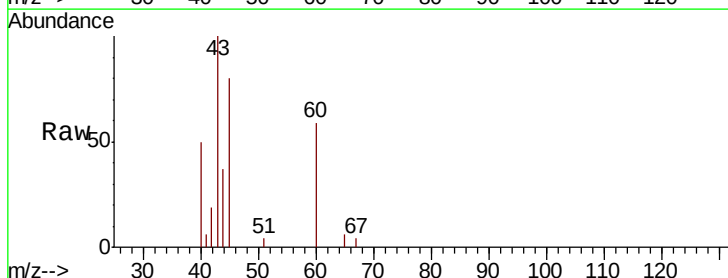
Tgt Ion: 43 Resp: 13610

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

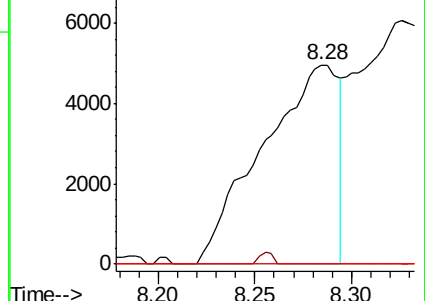
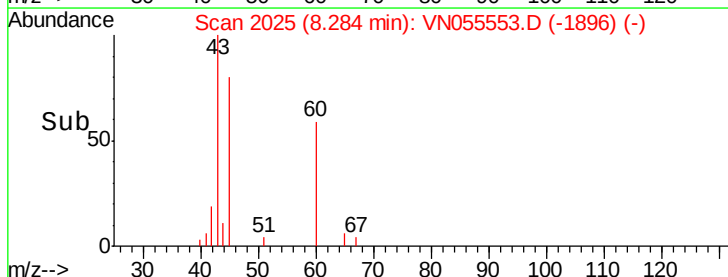
87 0.0 9.0 13.6#

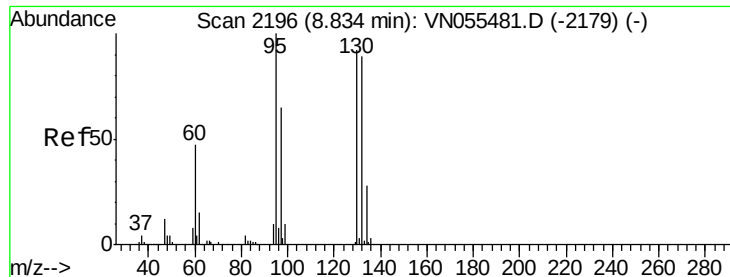


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#44

Trichloroethene

Concen: 1.159 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

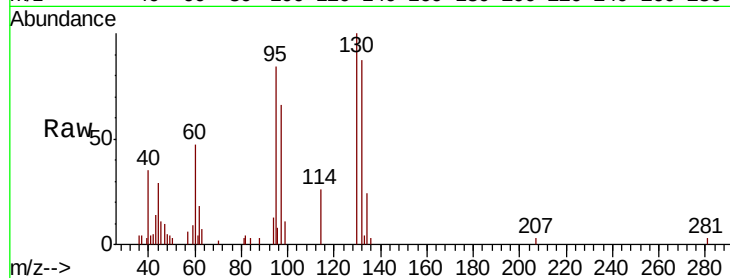
IW-23

Tot Ion:130 Resp: 12236

Ion Ratio Lower Upper

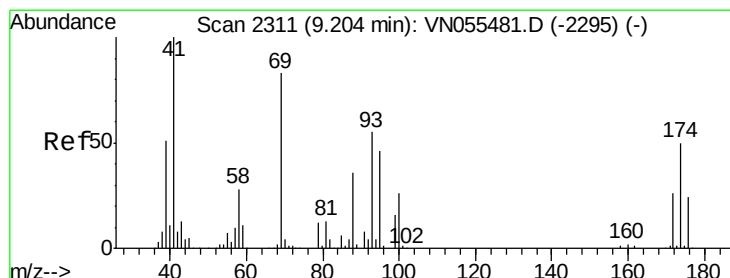
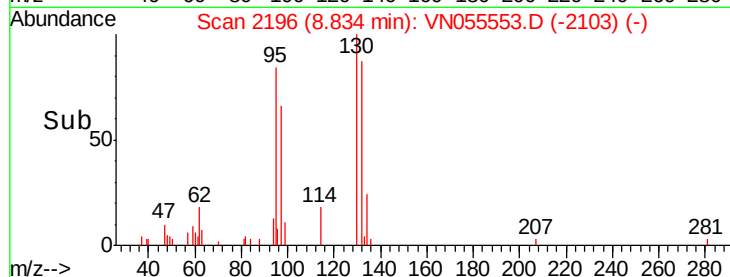
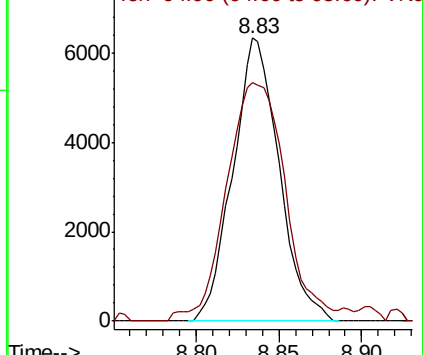
130 100

95 81.1 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#49

1,4-Dioxane

Concen: 0.530 ug/l

RT: 8.95 min Scan# 2231

Delta R.T. -0.26 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

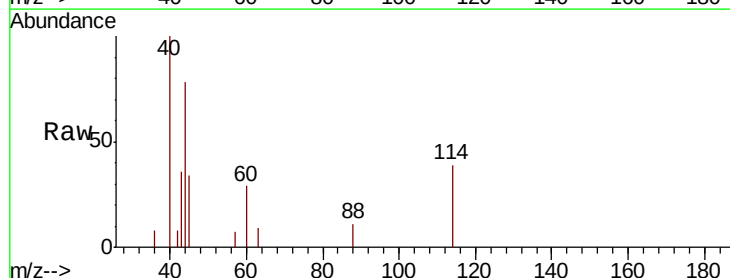
Tgt Ion: 88 Resp: 118

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.8#

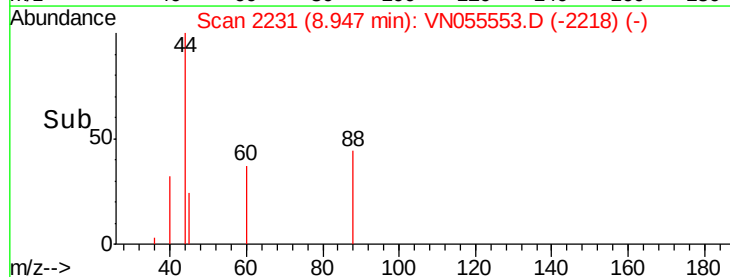
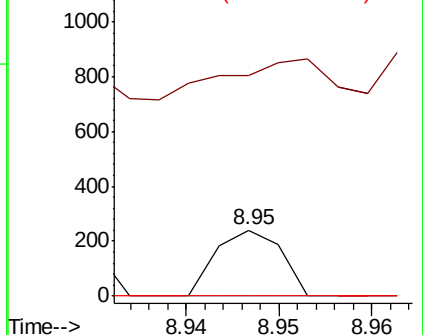
58 0.0 61.8 92.6#

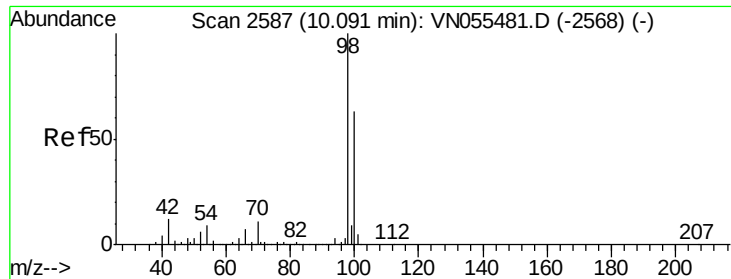


Abundance Ion 88.00 (87.70 to 88.70): VN

Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#50

Toluene-d8

Concen: 47.799 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

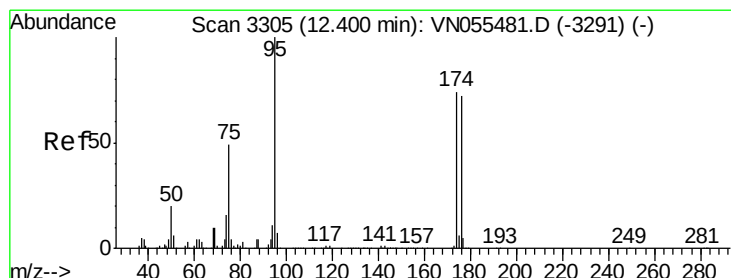
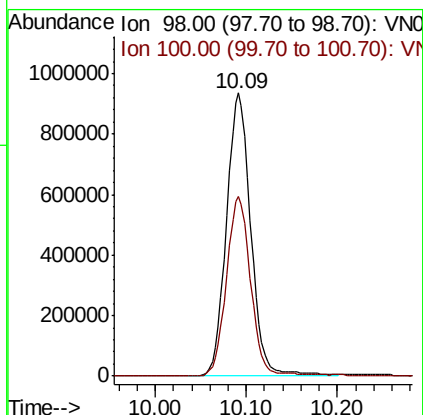
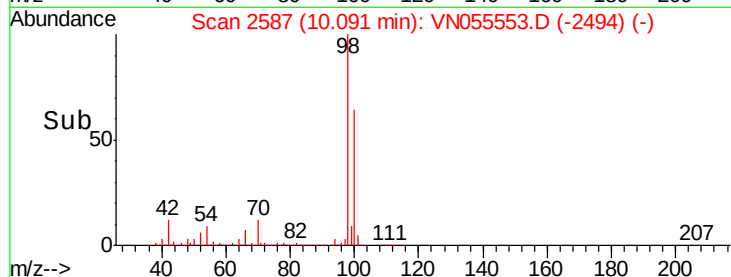
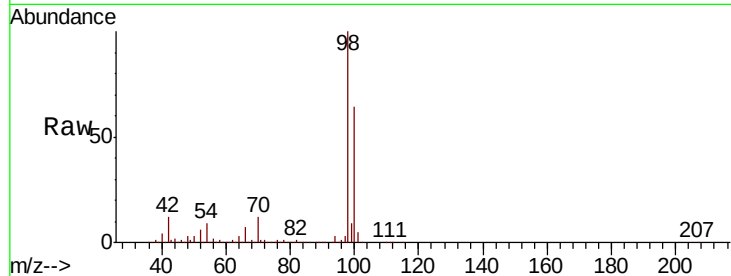
IW-23

Tot Ion: 98 Resp: 1744218

Ion Ratio Lower Upper

98 100

100 63.3 50.4 75.6



#62

4-Bromofluorobenzene

Concen: 40.412 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

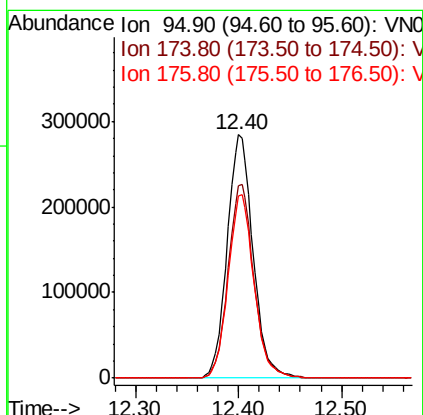
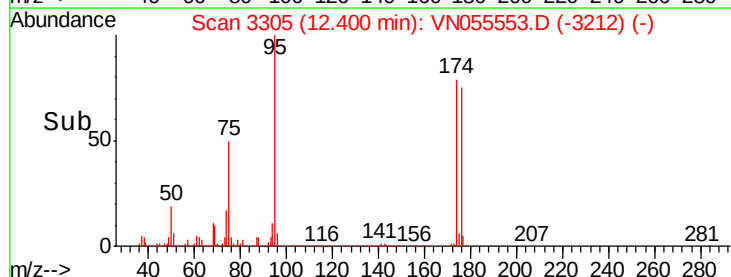
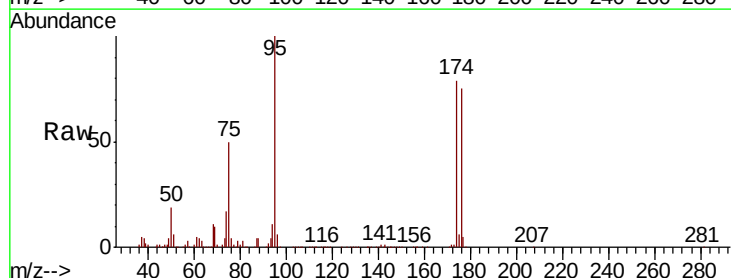
Tgt Ion: 95 Resp: 497231

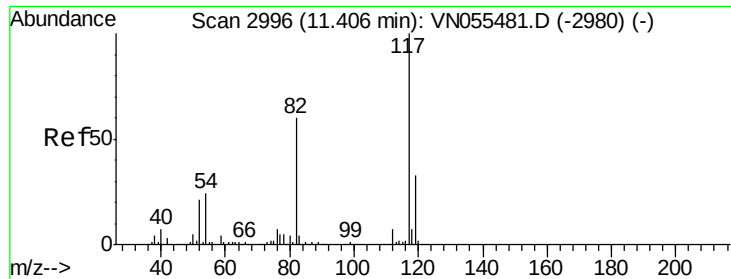
Ion Ratio Lower Upper

95 100

174 79.2 0.0 152.2

176 75.4 0.0 147.8

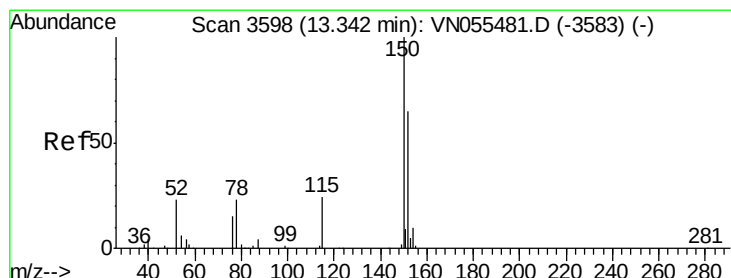
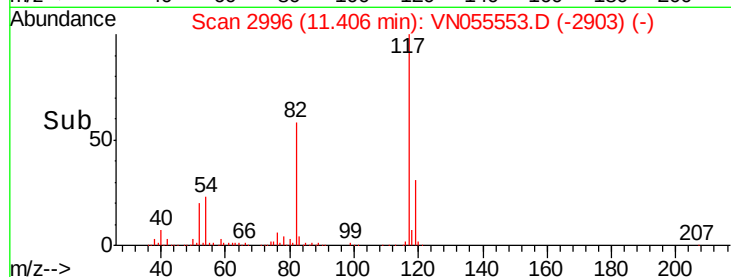
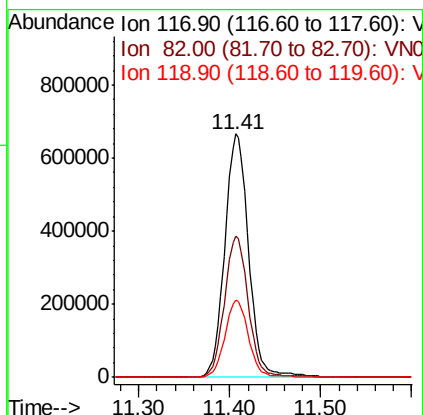
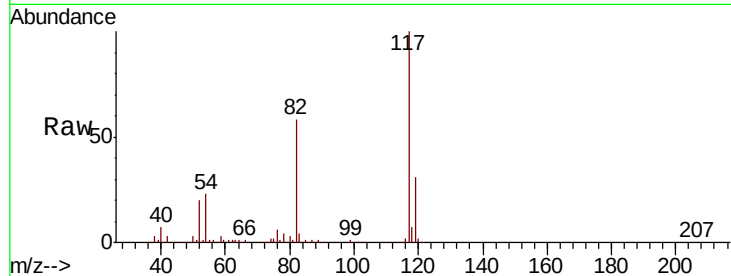




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055553.D
Acq: 10 May 2019 15:43

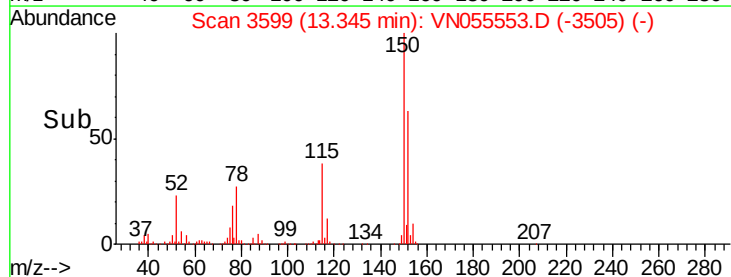
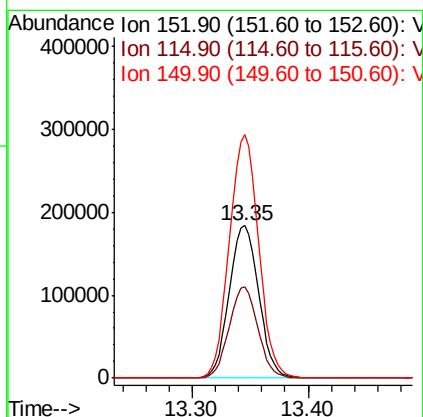
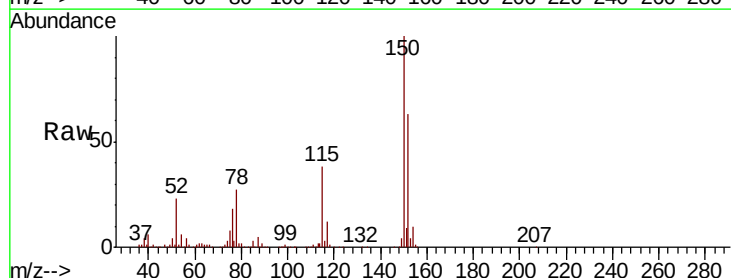
Instrument :
MSVOA_N
ClientSampled :
IW-23

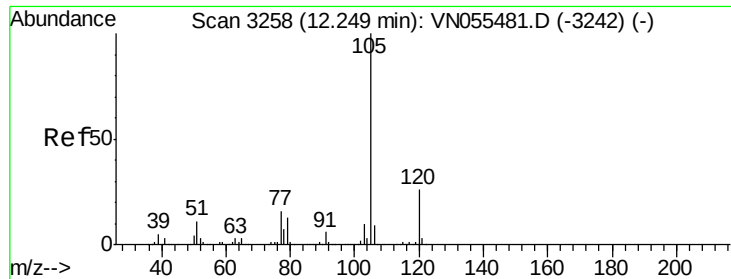
Tot Ion:117 Resp: 1211864
Ion Ratio Lower Upper
117 100
82 58.2 48.0 72.0
119 31.5 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN055553.D
Acq: 10 May 2019 15:43

Tgt Ion:152 Resp: 322864
Ion Ratio Lower Upper
152 100
115 58.3 30.1 90.5
150 157.9 0.0 355.0





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

Instrument :

MSVOA_N

ClientSampled :

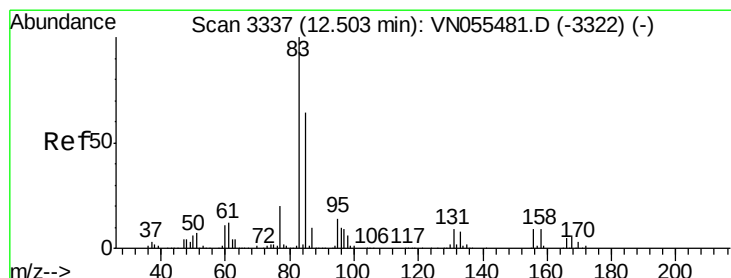
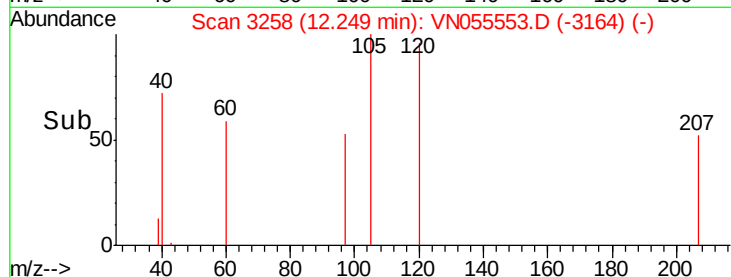
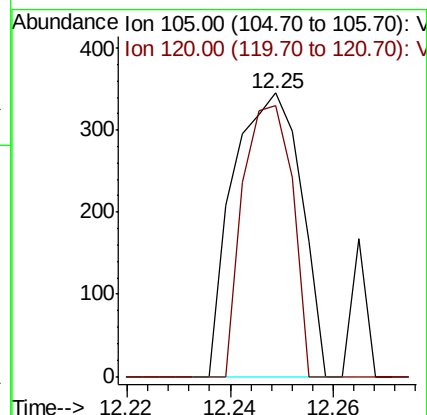
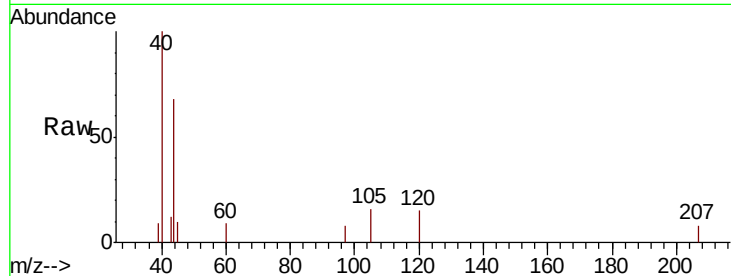
IW-23

Tot Ion: 105 Resp: 315

Ion Ratio Lower Upper

105 100

120 69.2 13.0 39.0#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.52 min Scan# 3342

Delta R.T. 0.02 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

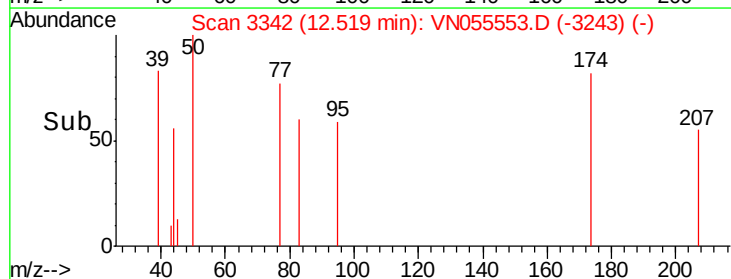
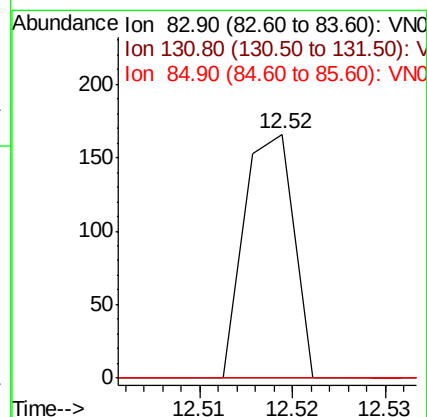
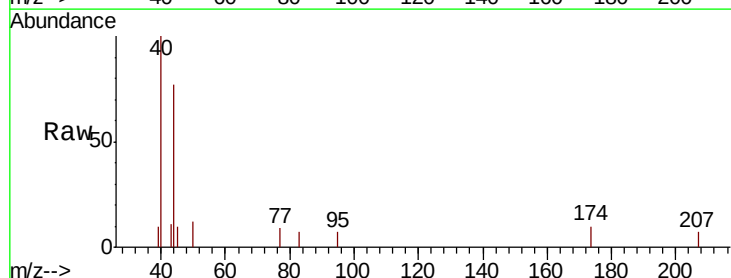
Tgt Ion: 83 Resp: 62

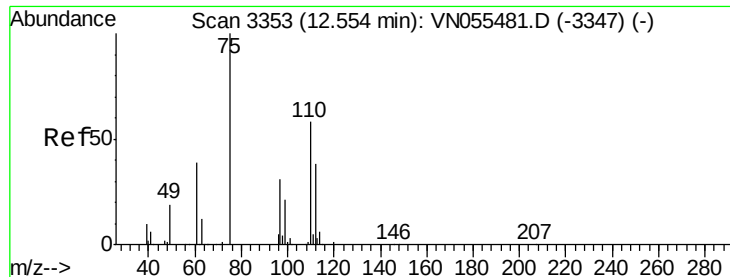
Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 0.0 32.0 96.0#





#76

1,2,3-Trichloropropane

Concen: 28.170 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

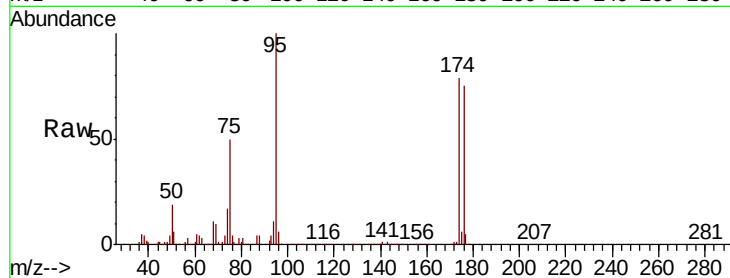
IW-23

Tot Ion: 75 Resp: 247602

Ion Ratio Lower Upper

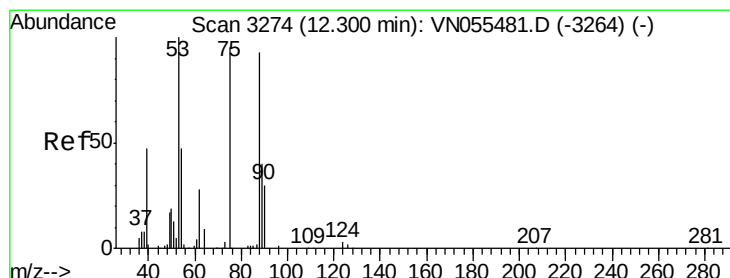
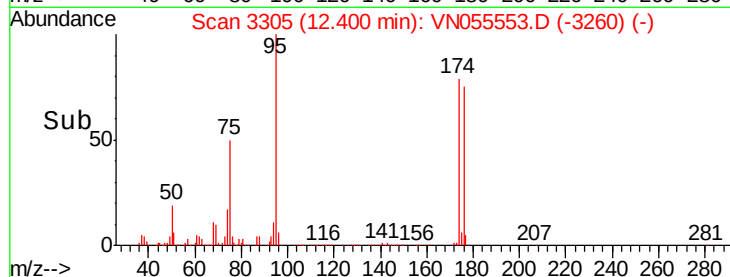
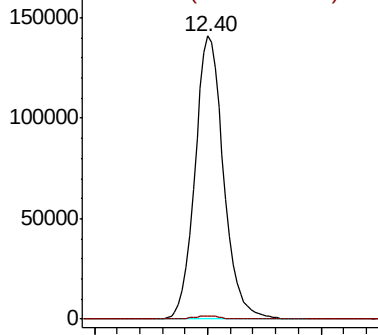
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 103.945 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

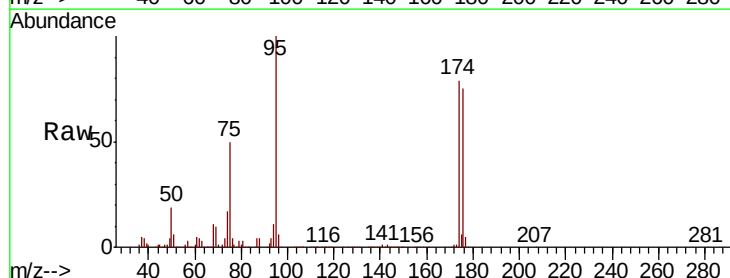
Tgt Ion: 75 Resp: 247602

Ion Ratio Lower Upper

75 100

53 0.1 86.5 129.7#

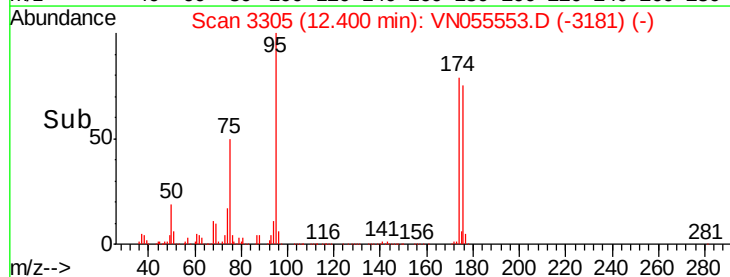
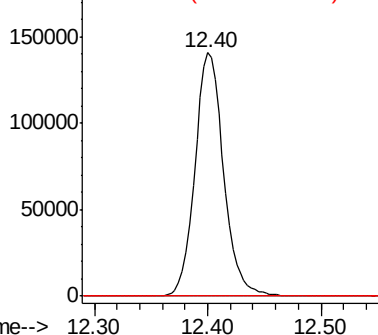
89 0.0 35.7 53.5#

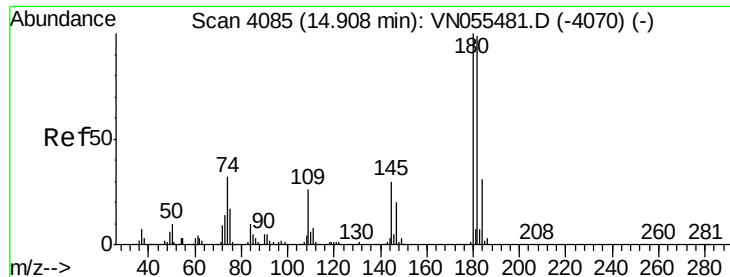


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

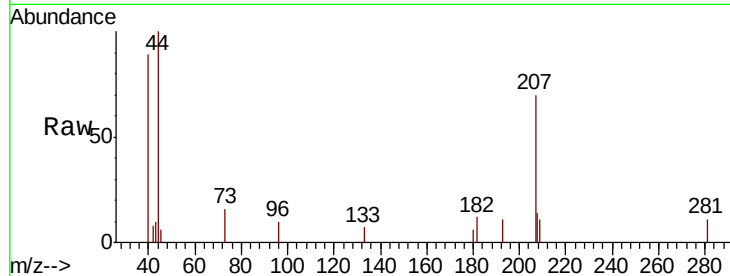




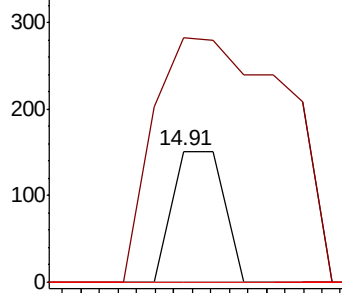
#93
 1,2,4-Trichlorobenzene
 Concen: 3.217 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN055553.D
 Acq: 10 May 2019 15:43

Instrument :
 MSVOA_N
 ClientSampled :
 IW-23

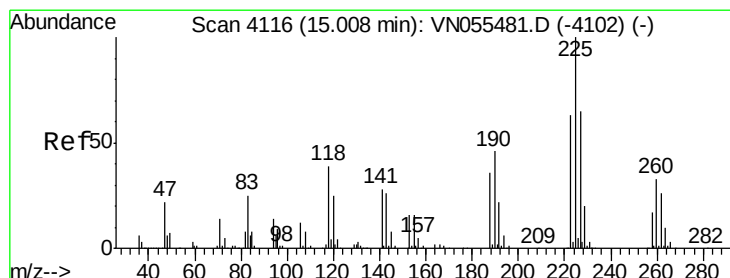
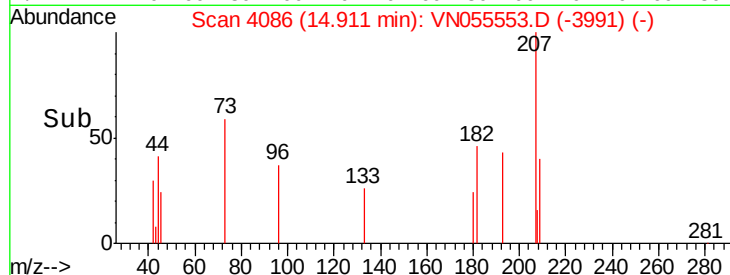
Tot Ion:180 Resp: 58
 Ion Ratio Lower Upper
 180 100
 182 482.8 48.7 146.1#
 145 0.0 15.3 45.9#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

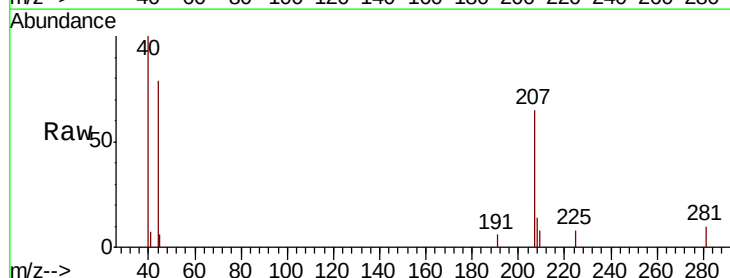


Time-->

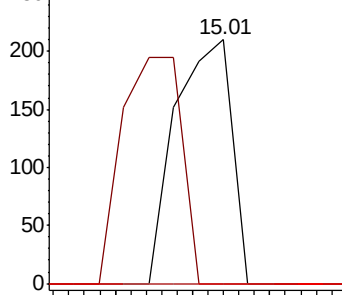


#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.01 min
 Lab File: VN055553.D
 Acq: 10 May 2019 15:43

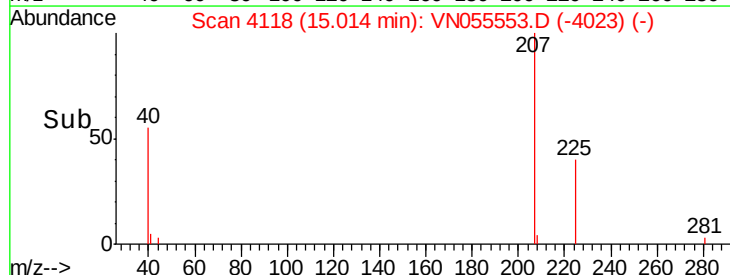
Tgt Ion:225 Resp: 107
 Ion Ratio Lower Upper
 225 100
 223 98.1 31.4 94.3#
 227 0.0 32.0 96.0#

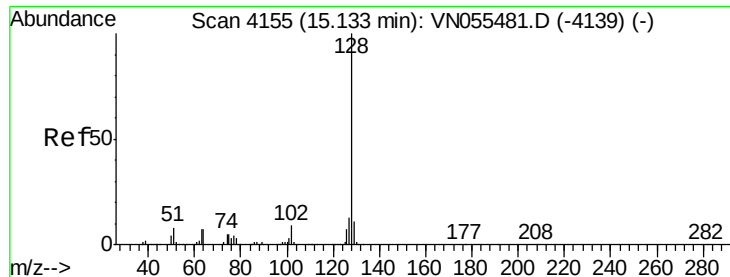


Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V



Time-->





#95

Naphthalene

Concen: 2.979 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

Instrument :

MSVOA_N

ClientSampled :

IW-23

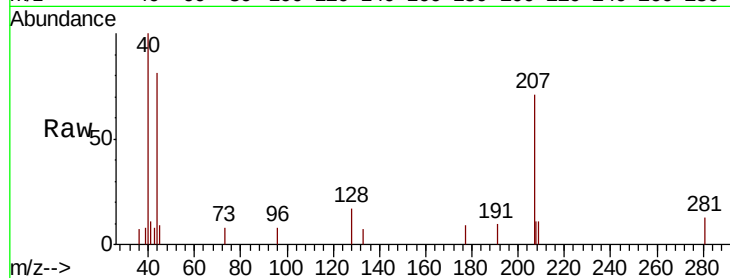
Tot Ion:128 Resp: 598

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

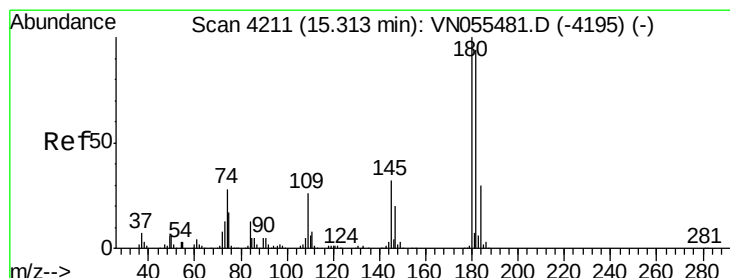
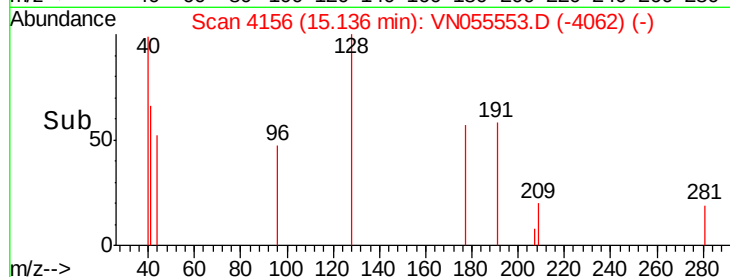
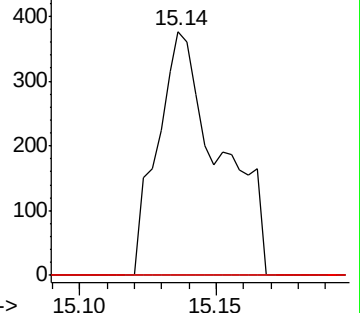
129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.428 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN055553.D

Acq: 10 May 2019 15:43

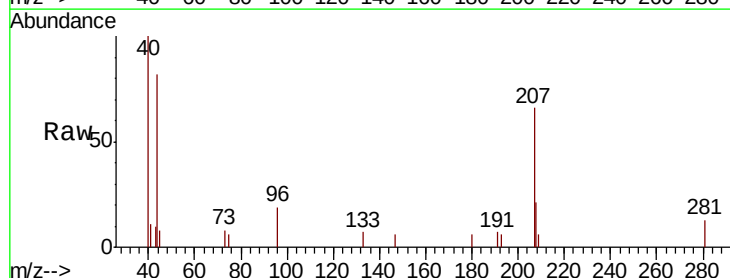
Tgt Ion:180 Resp: 30

Ion Ratio Lower Upper

180 100

182 0.0 47.1 141.3#

145 100.0 15.8 47.4#



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

