

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051019\
 Data File : VN055552.D
 Acq On : 10 May 2019 15:17
 Operator : JC/SP
 Sample : K2758-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IW-22

Quant Time: May 11 00:58:04 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	887751	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1486466	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1215964	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	316488	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	602666	45.09	ug/l	0.00
Spiked Amount			Recovery	=	90.18%	
35) Dibromofluoromethane	7.59	113	472295	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
50) Toluene-d8	10.09	98	1779793	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
62) 4-Bromofluorobenzene	12.40	95	507195	40.25	ug/l	0.00
Spiked Amount			Recovery	=	80.50%	

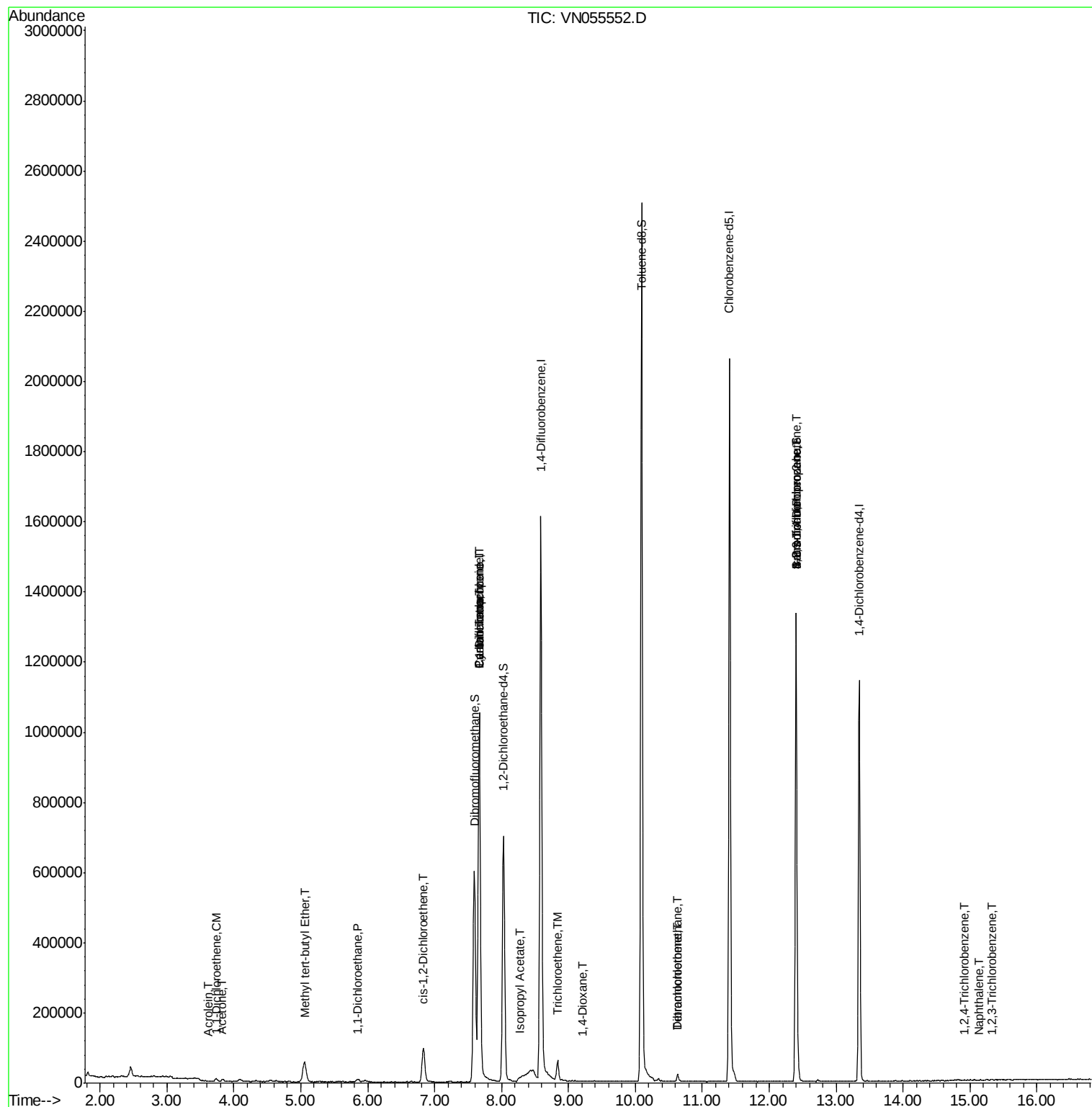
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.73	96	3917	0.404	ug/l	93
13) Acrolein	3.62	56	303	0.230	ug/l #	59
16) Acetone	3.83	43	8548	1.381	ug/l #	88
18) Methyl Acetate	4.35	43	6556	Below Cal		96
19) Methyl tert-butyl Ether	5.05	73	88120	2.733	ug/l	99
24) 1,1-Dichloroethane	5.85	63	12314	0.565	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	65053	5.351	ug/l	89
31) Cyclohexane	7.67	56	19801	0.918	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	69984	4.779	ug/l #	50
38) Carbon Tetrachloride	7.67	117	83600	6.780	ug/l #	15
43) Isopropyl Acetate	8.27	43	8380	0.345	ug/l #	63
44) Trichloroethene	8.83	130	20373	1.884	ug/l	97
49) 1,4-Dioxane	9.21	88	62	0.272	ug/l #	1
60) Dibromochloromethane	10.63	129	4341	0.454	ug/l #	11
64) Tetrachloroethene	10.63	164	4758	0.478	ug/l	96
71) Bromoform	12.40	173	3663	0.630	ug/l #	1
73) Isopropylbenzene	12.26	105	498	Below Cal	#	74
75) 1,1,2,2-Tetrachloroethane	12.50	83	29	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	247896	28.772	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	247896	106.165	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	212	3.248	ug/l #	82
95) Naphthalene	15.13	128	639	2.982	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.33	180	273	2.474	ug/l #	40

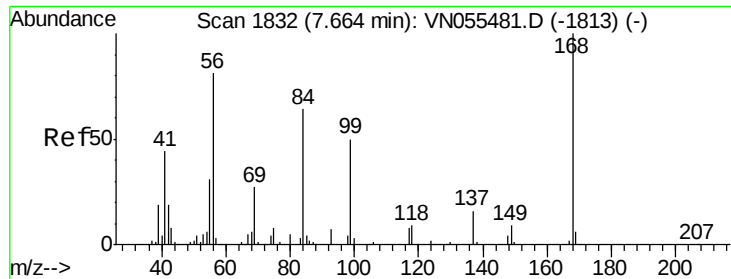
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: May 11 00:58:04 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
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: VN055552.D

Acq: 10 May 2019 15:17

Instrument :

MSVOA_N

ClientSampled :

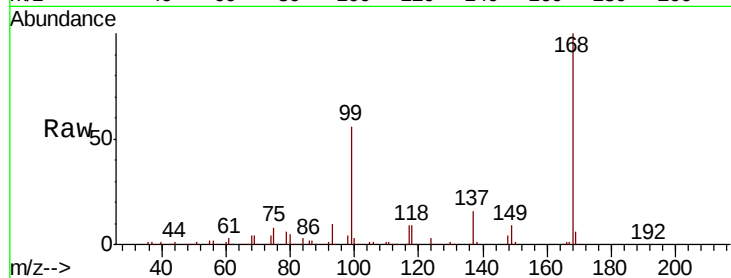
IW-22

Tot Ion:168 Resp: 887751

Ion Ratio Lower Upper

168 100

99 56.1 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): VN055552.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055552.D (-1739) (-)

7.67

400000

300000

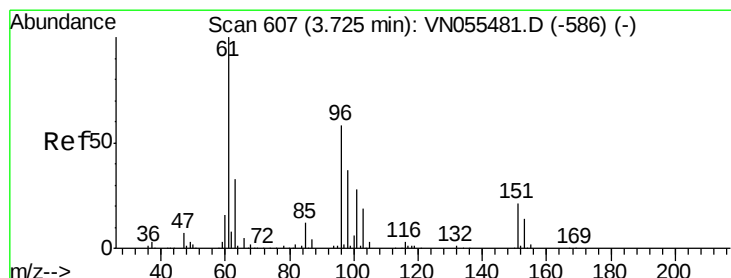
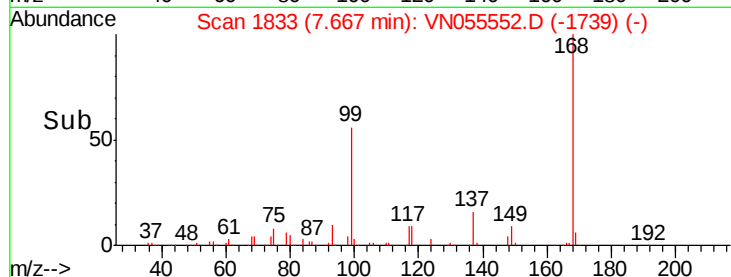
200000

100000

0

7.60 7.70 7.80

Time-->



#12

1,1-Dichloroethene

Concen: 0.404 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.01 min

Lab File: VN055552.D

Acq: 10 May 2019 15:17

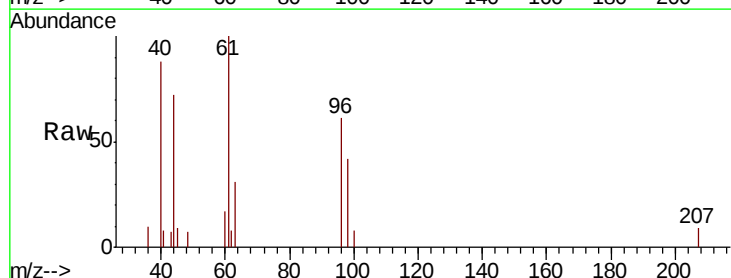
Tgt Ion: 96 Resp: 3917

Ion Ratio Lower Upper

96 100

61 163.1 138.7 208.1

98 68.3 50.6 76.0



Abundance Ion 95.90 (95.60 to 96.60): VN055552.D (-514) (-)

Ion 60.90 (60.60 to 61.60): VN055552.D (-514) (-)

Ion 97.90 (97.60 to 98.60): VN055552.D (-514) (-)

3.73

3000

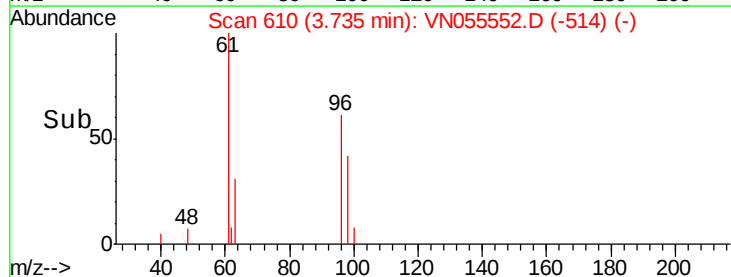
2000

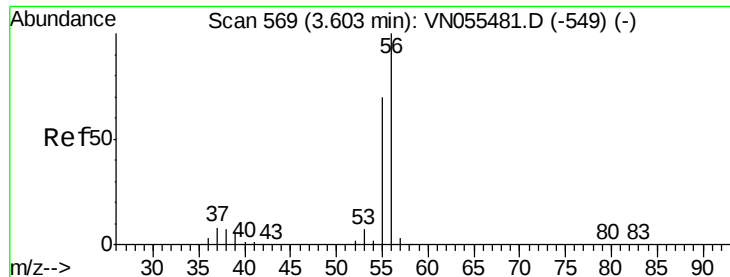
1000

0

3.70 3.75 3.80

Time-->





#13

Acrolein

Concen: 0.230 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN055552.D

Acq: 10 May 2019 15:17

Instrument :

MSVOA_N

ClientSampled :

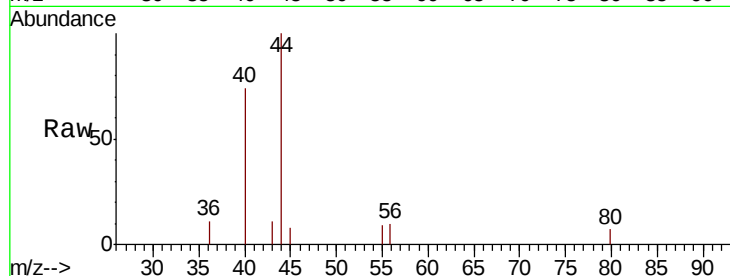
IW-22

Tot Ion: 56 Resp: 303

Ion Ratio Lower Upper

56 100

55 37.6 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

250

200

150

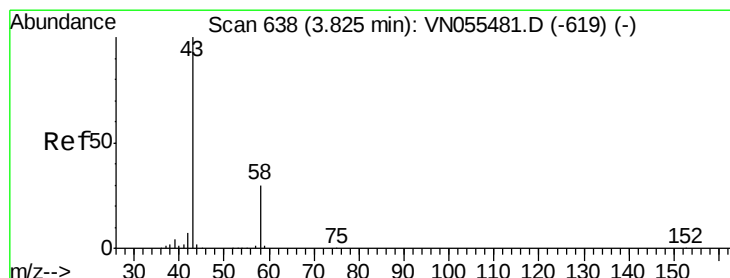
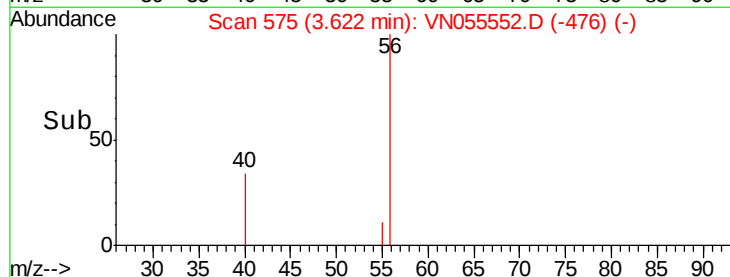
100

50

0

3.60 3.62 3.64

Time-->



#16

Acetone

Concen: 1.381 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.00 min

Lab File: VN055552.D

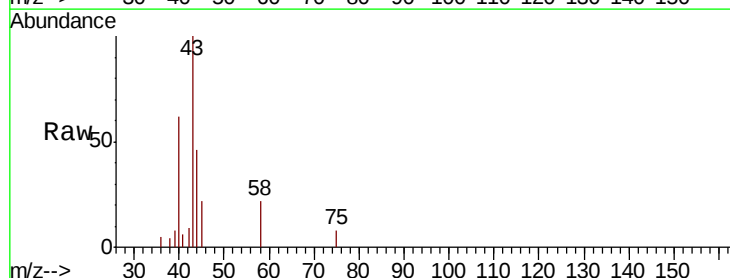
Acq: 10 May 2019 15:17

Tgt Ion: 43 Resp: 8548

Ion Ratio Lower Upper

43 100

58 23.8 24.2 36.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

4000

3000

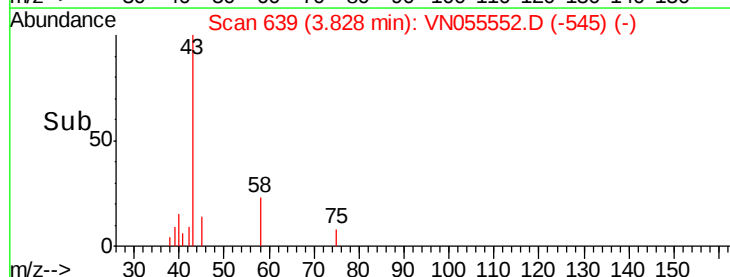
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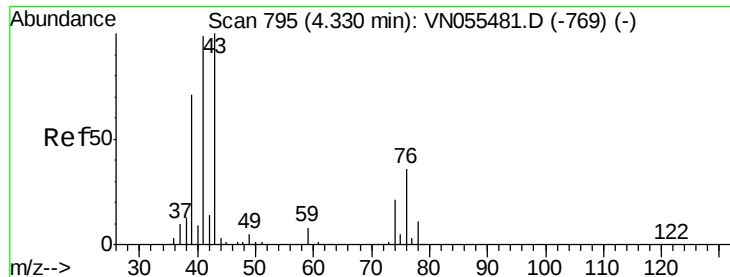
1000

0

3.75 3.80 3.85 3.90

Time-->

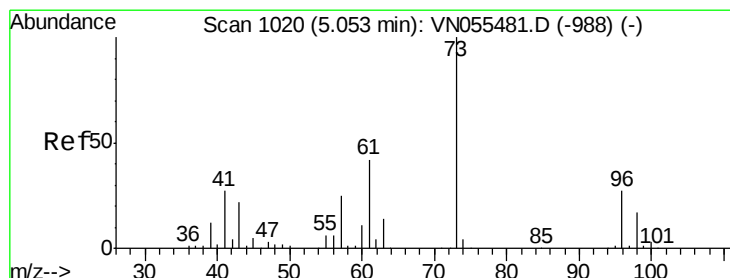
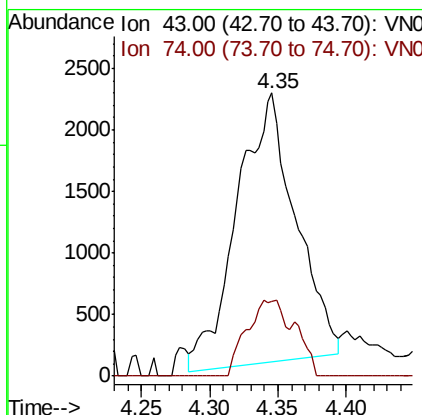
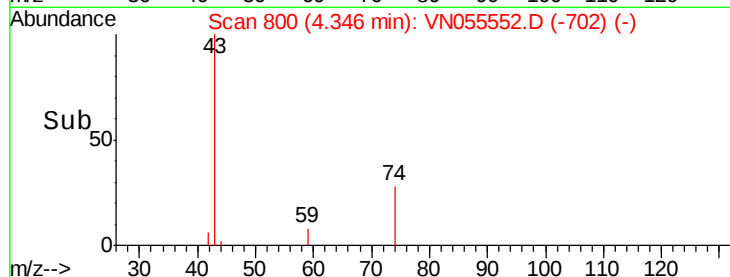
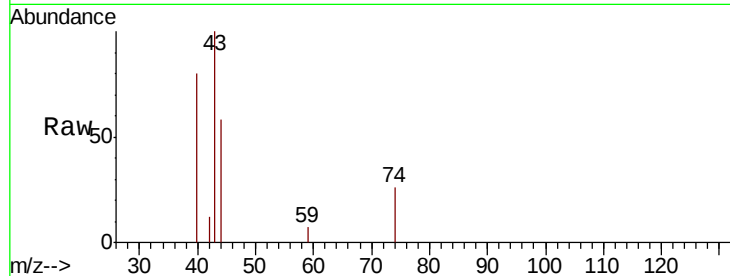




#18
Methyl Acetate
Concen: Below Cal
RT: 4.35 min Scan# 800
Delta R.T. 0.02 min
Lab File: VN055552.D
Acq: 10 May 2019 15:17

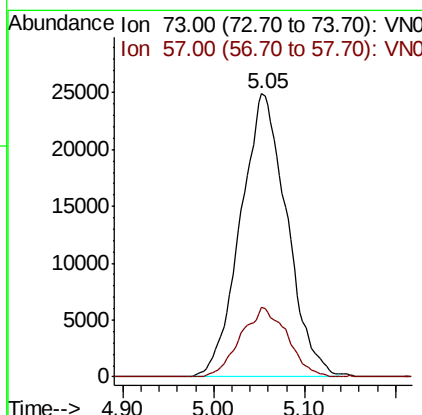
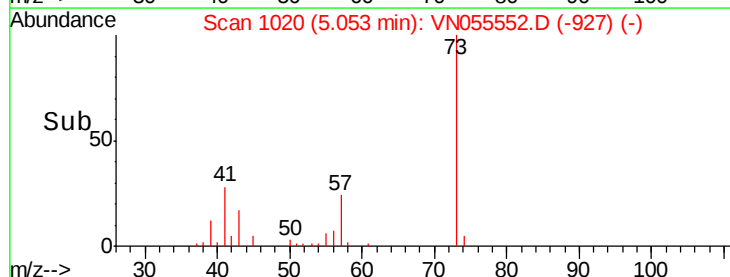
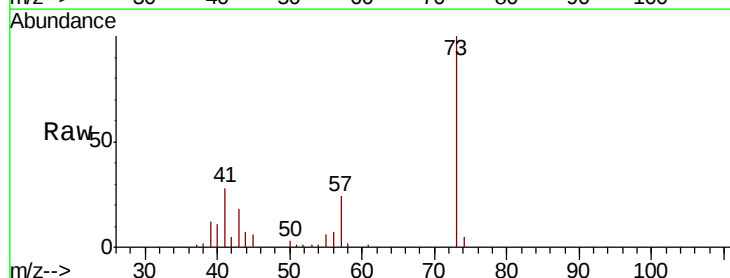
Instrument :
MSVOA_N
ClientSampled :
IW-22

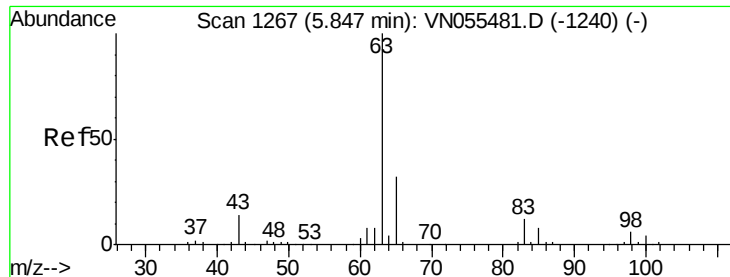
Tot Ion: 43 Resp: 6556
Ion Ratio Lower Upper
43 100
74 18.4 16.3 24.5



#19
Methyl tert-butyl Ether
Concen: 2.733 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN055552.D
Acq: 10 May 2019 15:17

Tgt Ion: 73 Resp: 88120
Ion Ratio Lower Upper
73 100
57 24.5 20.0 30.0

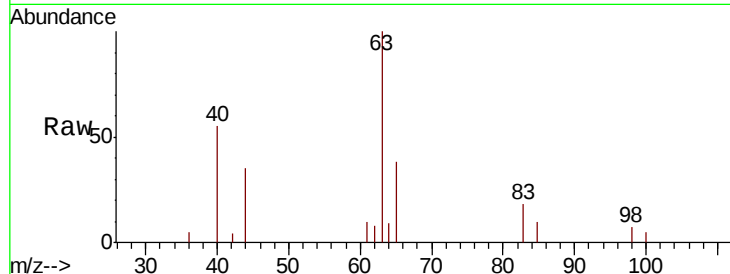




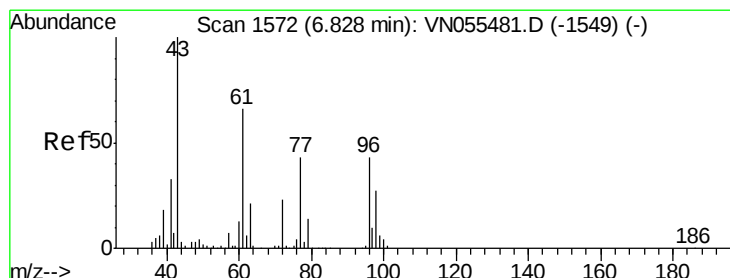
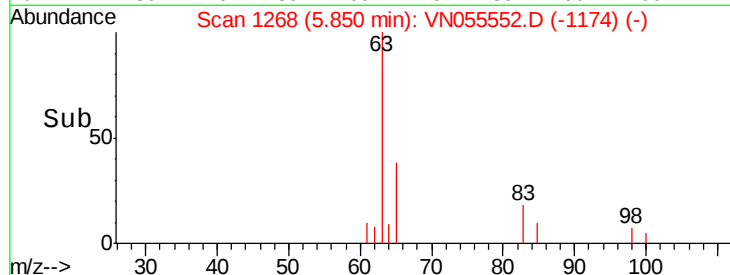
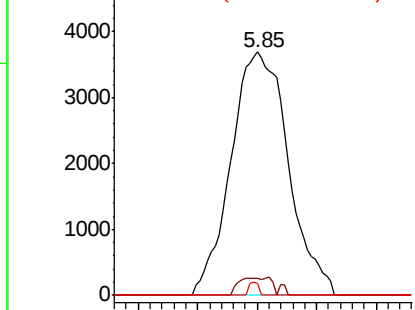
#24
 1,1-Dichloroethane
 Concen: 0.565 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN055552.D
 Acq: 10 May 2019 15:17

Instrument :
 MSVOA_N
 ClientSampleId :
 IW-22

Tot Ion: 63 Resp: 12314
 Ion Ratio Lower Upper
 63 100
 98 7.1 3.0 9.0
 100 5.0 1.9 5.7

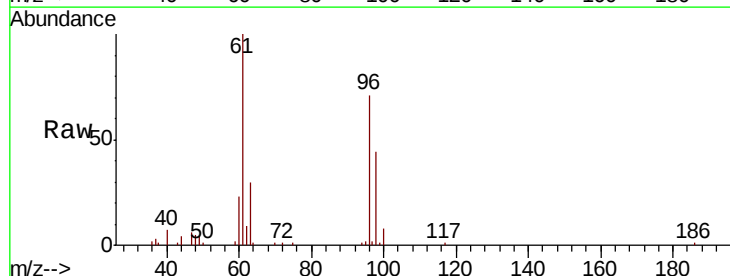


Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0
 Ion 99.90 (99.60 to 100.60): VN0

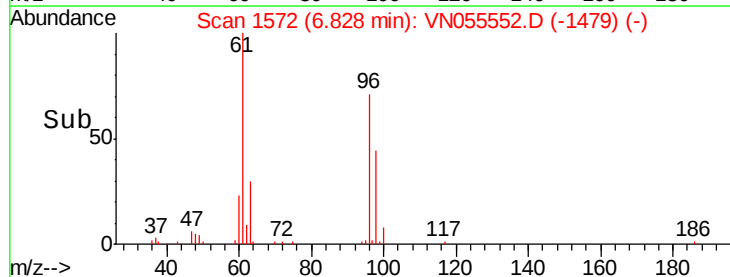
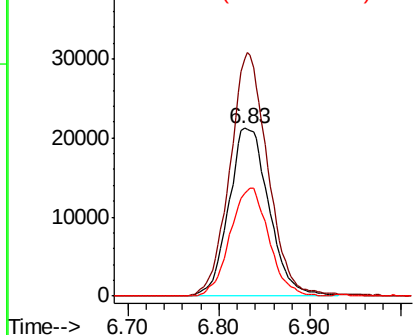


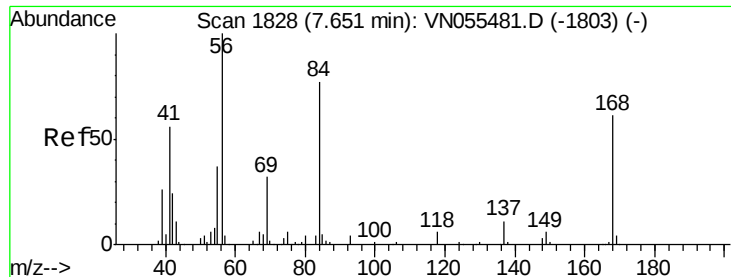
#27
 cis-1,2-Dichloroethene
 Concen: 5.351 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN055552.D
 Acq: 10 May 2019 15:17

Tgt Ion: 96 Resp: 65053
 Ion Ratio Lower Upper
 96 100
 61 137.1 0.0 310.8
 98 61.8 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

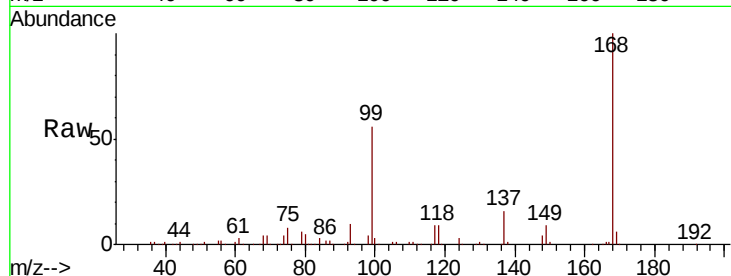




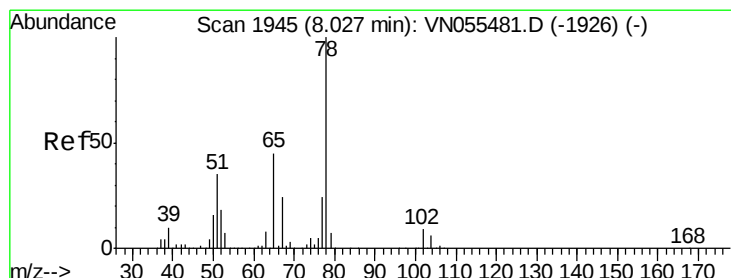
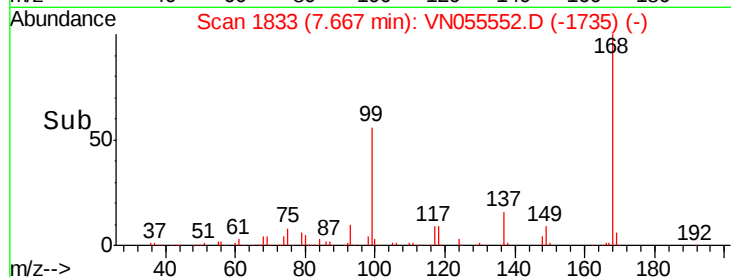
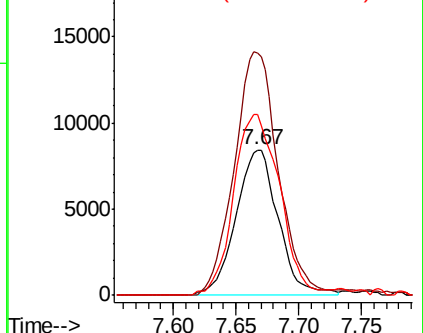
#31
Cyclohexane
Concen: 0.918 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN055552.D
Acq: 10 May 2019 15:17

Instrument :
MSVOA_N
ClientSampleId :
IW-22

Tot Ion: 56 Resp: 19801
Ion Ratio Lower Upper
56 100
69 166.3 26.0 39.0#
84 123.9 61.9 92.9#

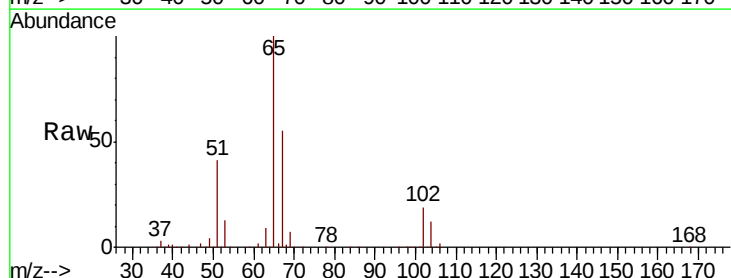


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

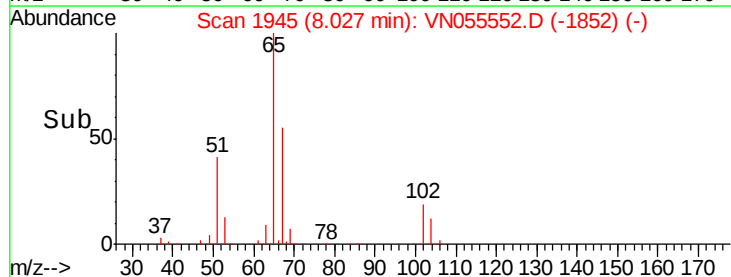
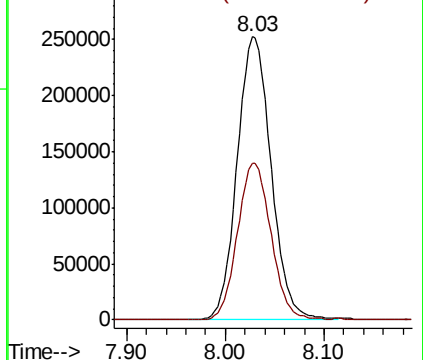


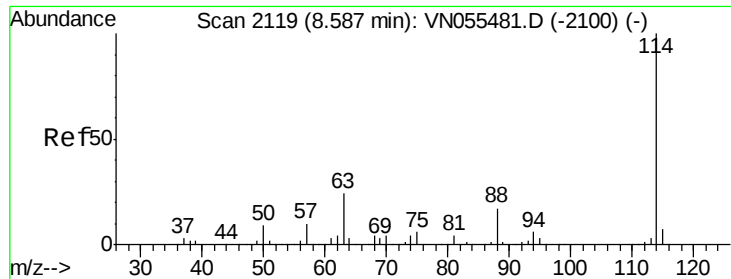
#33
1,2-Dichloroethane-d4
Concen: 45.088 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN055552.D
Acq: 10 May 2019 15:17

Tgt Ion: 65 Resp: 602666
Ion Ratio Lower Upper
65 100
67 54.8 0.0 109.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

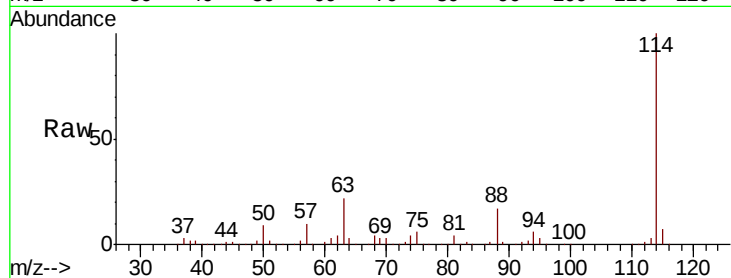




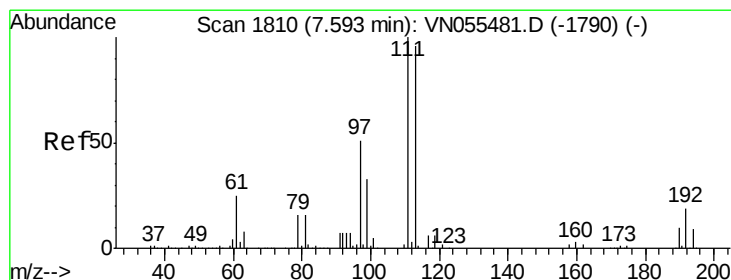
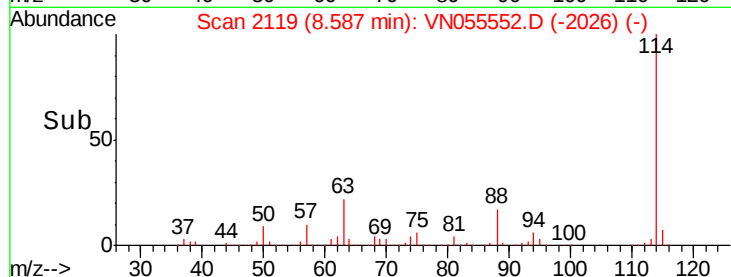
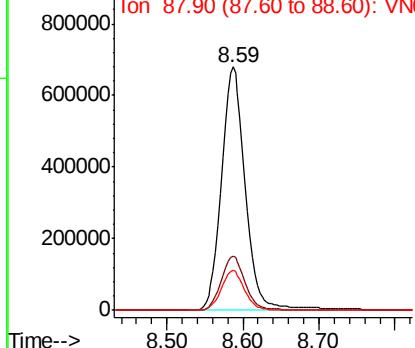
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN055552.D
Acq: 10 May 2019 15:17

Instrument :
MSVOA_N
ClientSampled :
IW-22

Tot Ion:114 Resp: 1486466
Ion Ratio Lower Upper
114 100
63 22.4 0.0 47.4
88 16.7 0.0 34.0

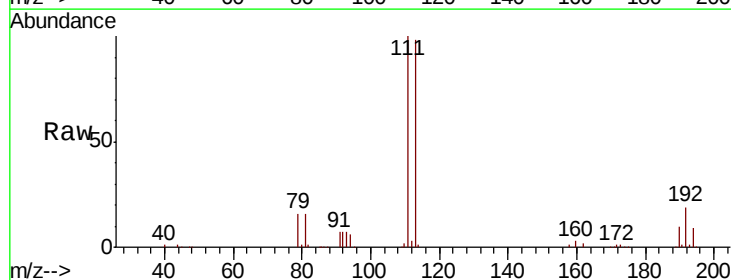


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

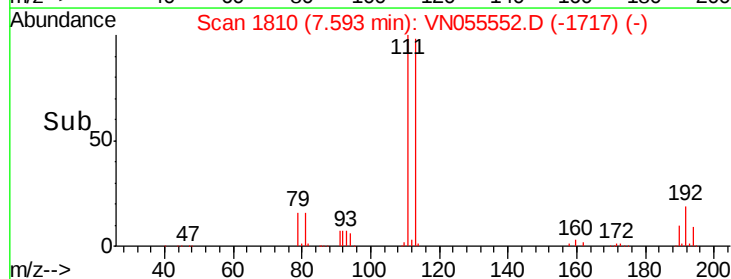
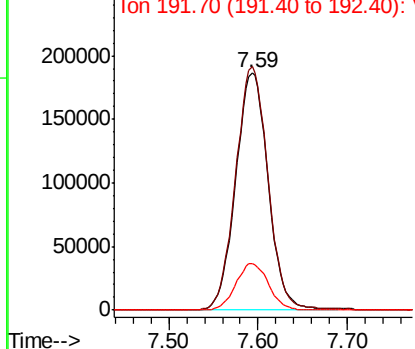


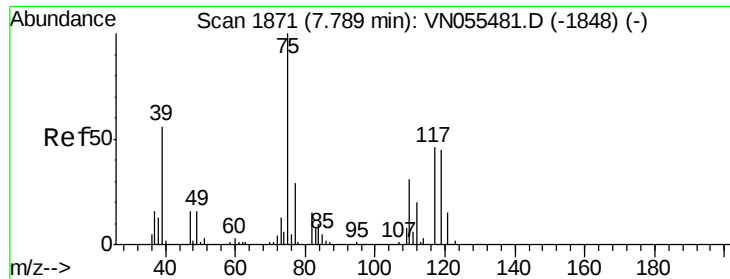
#35
Dibromofluoromethane
Concen: 49.254 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN055552.D
Acq: 10 May 2019 15:17

Tgt Ion:113 Resp: 472295
Ion Ratio Lower Upper
113 100
111 102.6 82.9 124.3
192 19.7 15.6 23.4



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

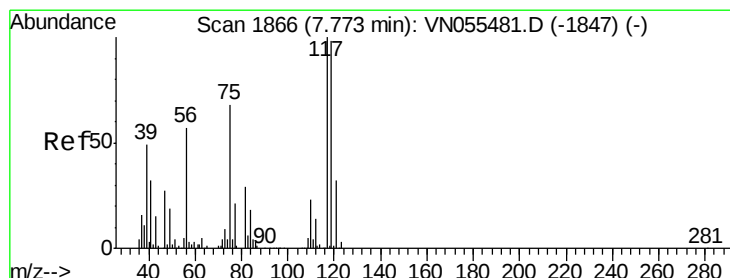
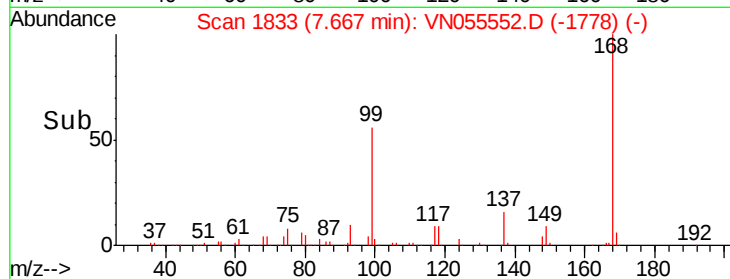
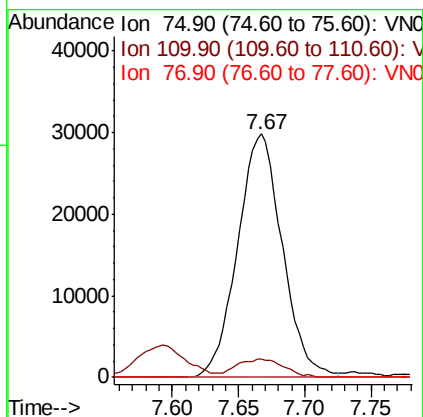
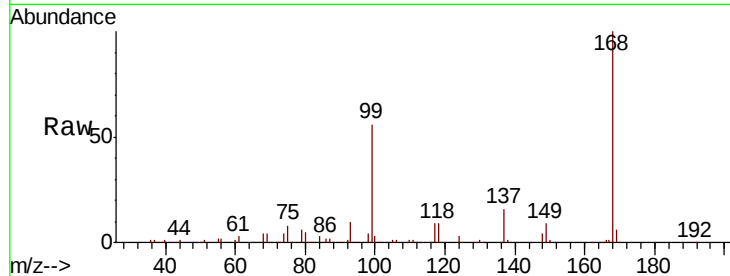




#36
 1,1-Dichloropropene
 Concen: 4.779 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055552.D
 Acq: 10 May 2019 15:17

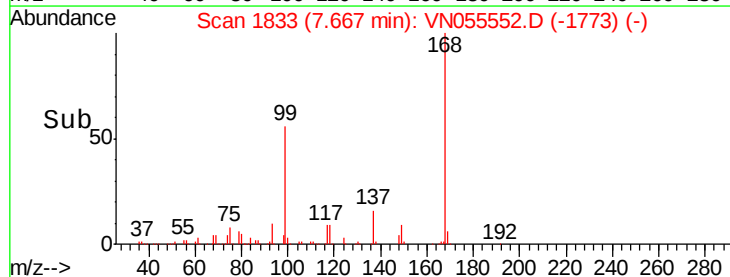
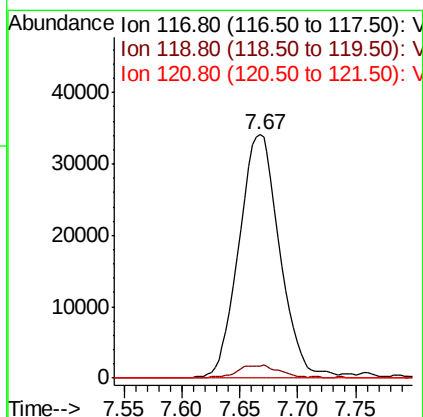
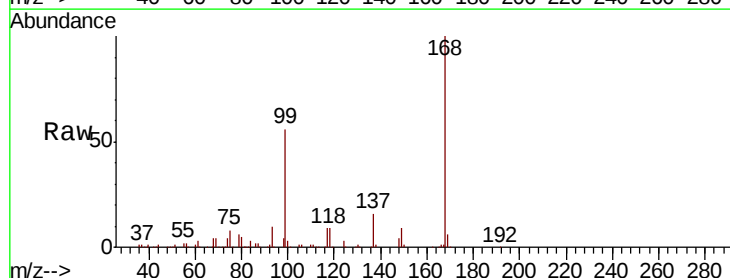
Instrument :
 MSVOA_N
 ClientSampleId :
 IW-22

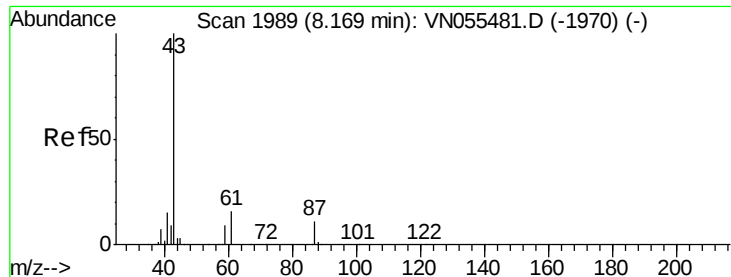
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.9	16.1	48.3#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.780 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN055552.D
 Acq: 10 May 2019 15:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	77.8	116.6#
121	0.0	25.2	37.8#





#43

Isopropyl Acetate

Concen: 0.345 ug/l

RT: 8.27 min Scan# 2019

Delta R.T. 0.10 min

Lab File: VN055552.D

Acq: 10 May 2019 15:17

Instrument :

MSVOA_N

ClientSampleId :

IW-22

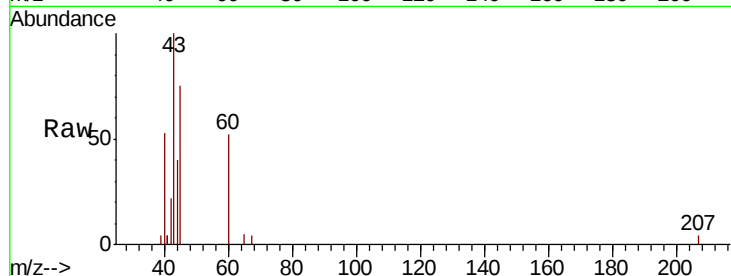
Tot Ion: 43 Resp: 8380

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

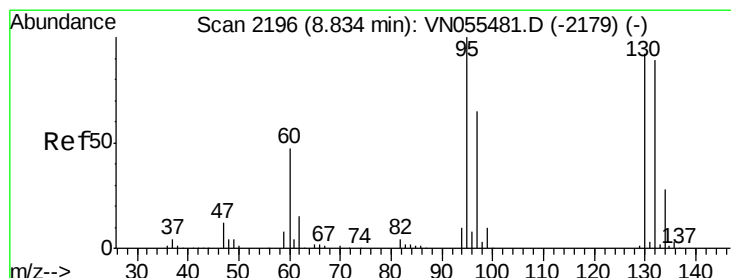
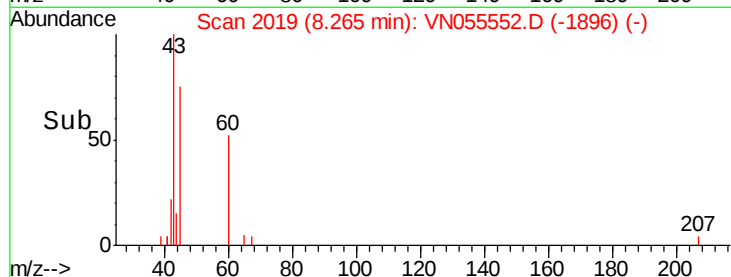
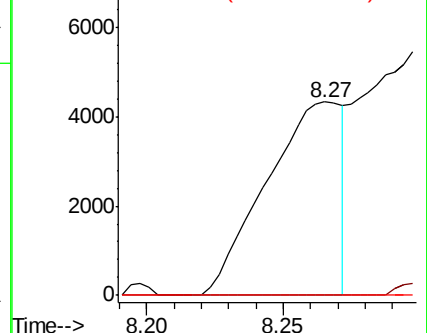
87 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VN055552.D (-2019) (-)

Ion 61.00 (60.70 to 61.70): VN055552.D (-2019) (-)

Ion 87.00 (86.70 to 87.70): VN055552.D (-2019) (-)



#44

Trichloroethene

Concen: 1.884 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN055552.D

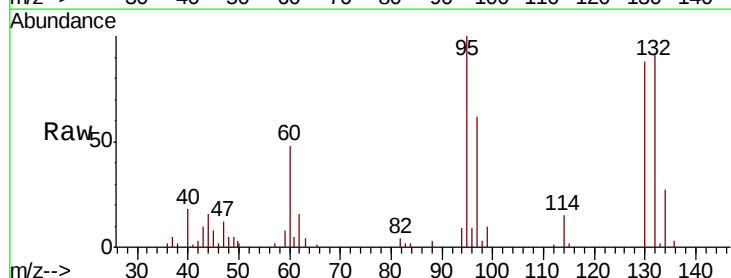
Acq: 10 May 2019 15:17

Tgt Ion: 130 Resp: 20373

Ion Ratio Lower Upper

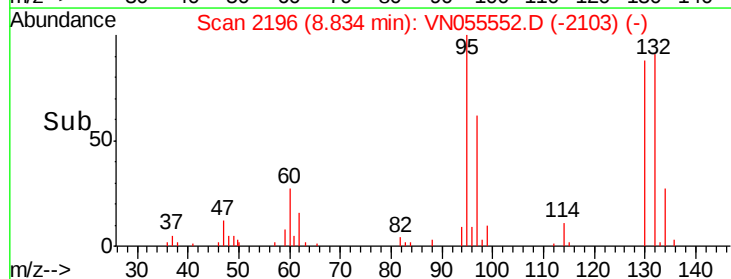
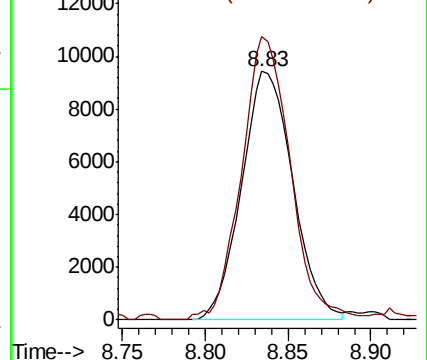
130 100

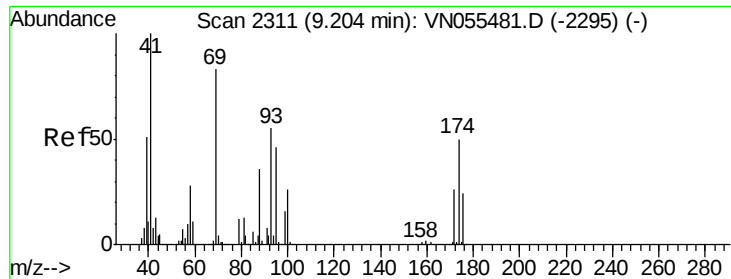
95 111.8 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): VN055552.D (-2196) (-)

Ion 94.90 (94.60 to 95.60): VN055552.D (-2196) (-)

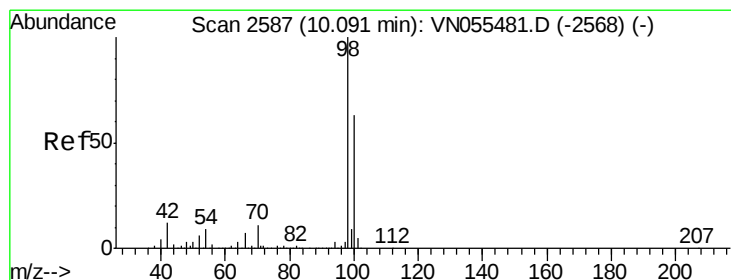
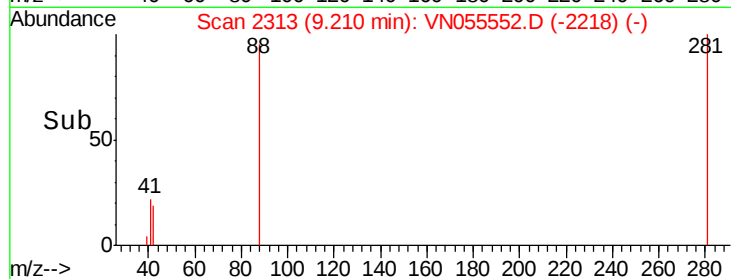
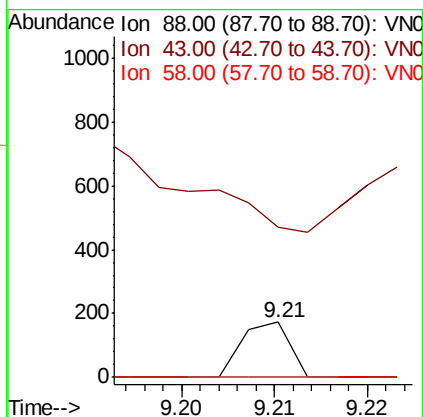
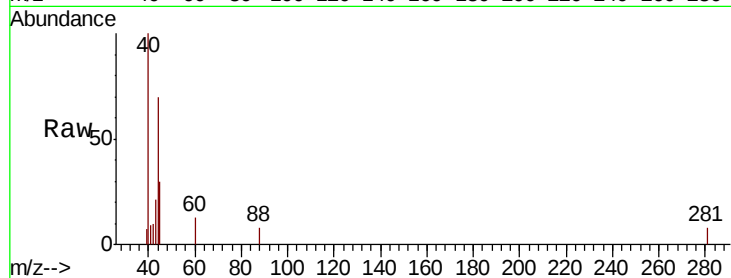




#49
1,4-Dioxane
Concen: 0.272 ug/l
RT: 9.21 min Scan# 2313
Delta R.T. 0.01 min
Lab File: VN055552.D
Acq: 10 May 2019 15:17

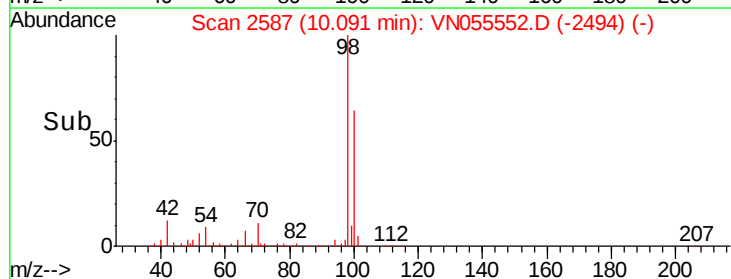
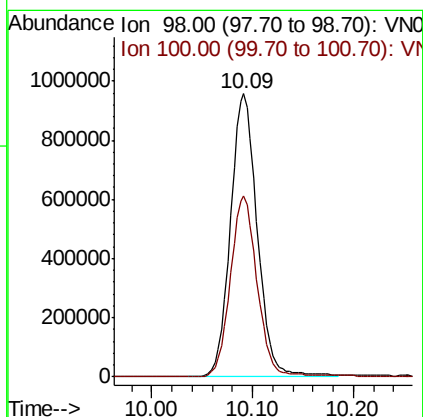
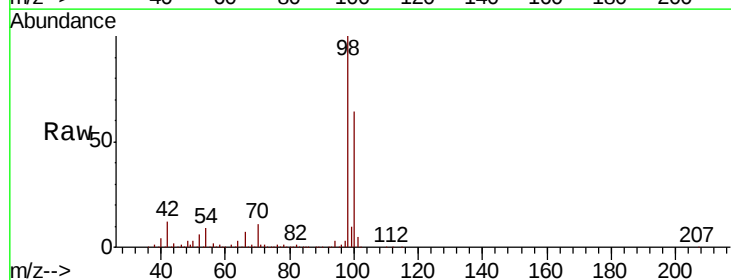
Instrument :
MSVOA_N
ClientSampleId :
IW-22

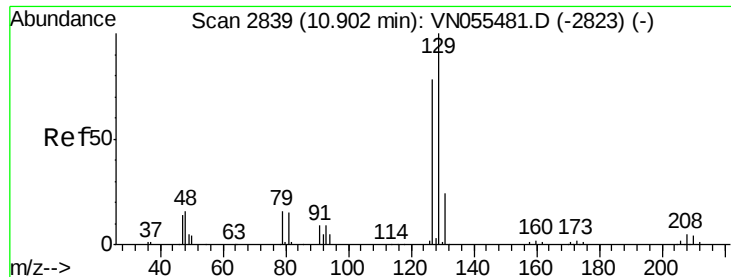
Tot Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 493.5 27.8 41.8#
58 0.0 61.8 92.6#



#50
Toluene-d8
Concen: 47.630 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055552.D
Acq: 10 May 2019 15:17

Tgt Ion: 98 Resp: 1779793
Ion Ratio Lower Upper
98 100
100 64.4 50.4 75.6

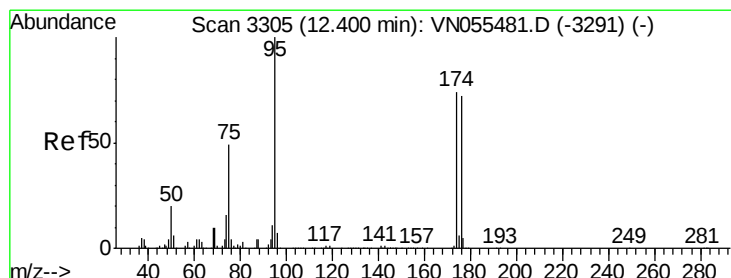
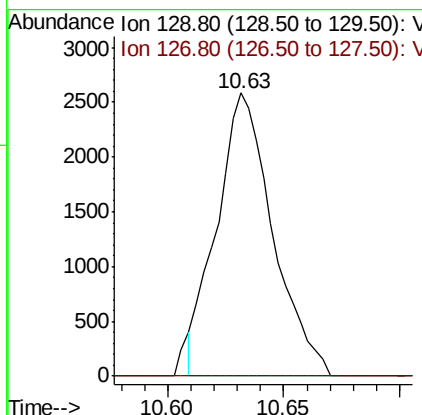
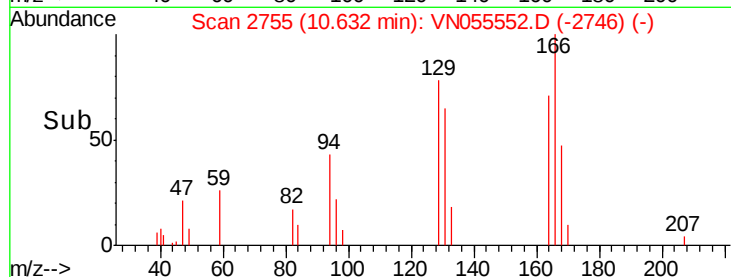
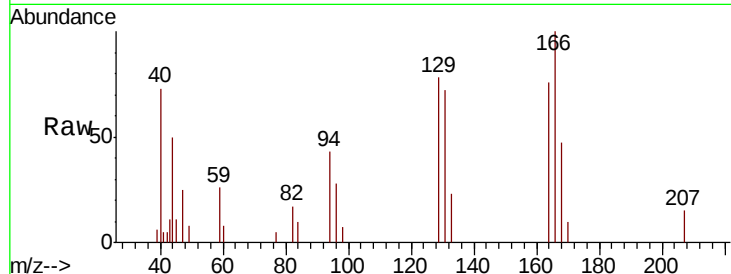




#60
 Dibromochloromethane
 Concen: 0.454 ug/l
 RT: 10.63 min Scan# 2755
 Delta R.T. -0.27 min
 Lab File: VN055552.D
 Acq: 10 May 2019 15:17

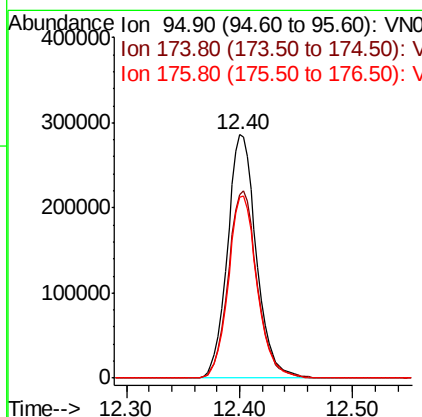
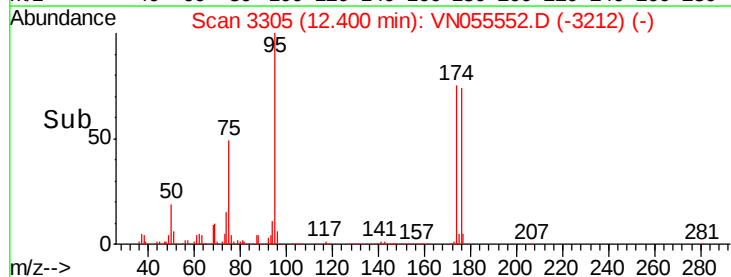
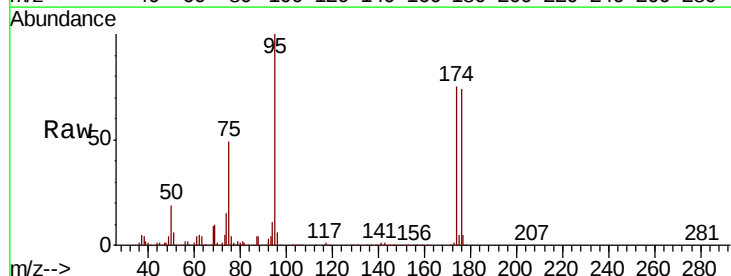
Instrument :
 MSVOA_N
 ClientSampleId :
 IW-22

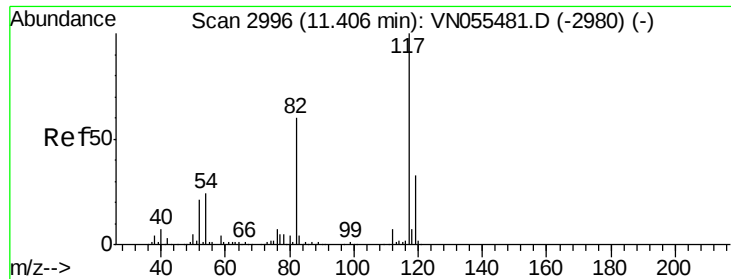
Tot Ion:129 Resp: 4341
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#



#62
 4-Bromofluorobenzene
 Concen: 40.255 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN055552.D
 Acq: 10 May 2019 15:17

Tgt Ion: 95 Resp: 507195
 Ion Ratio Lower Upper
 95 100
 174 77.5 0.0 152.2
 176 74.7 0.0 147.8

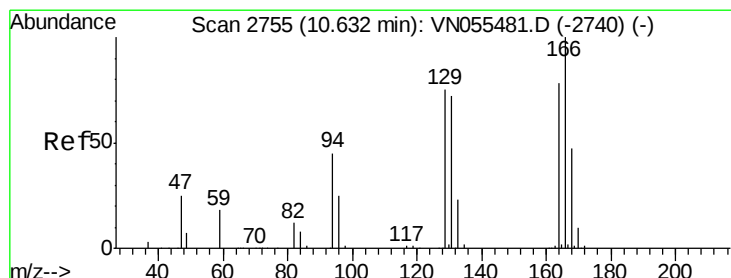
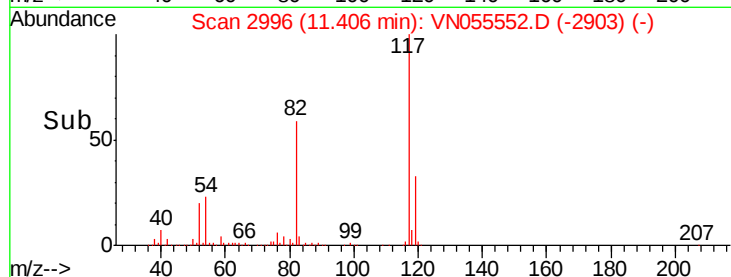
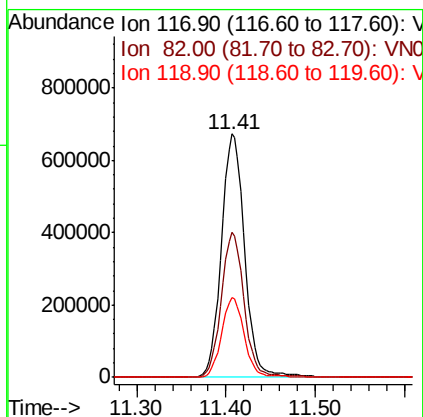
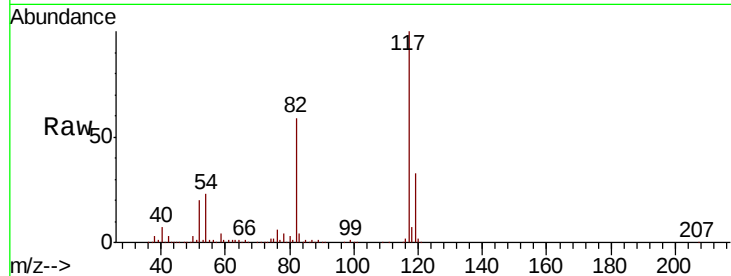




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055552.D
Acq: 10 May 2019 15:17

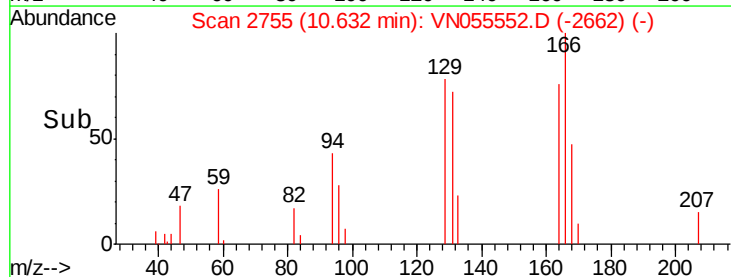
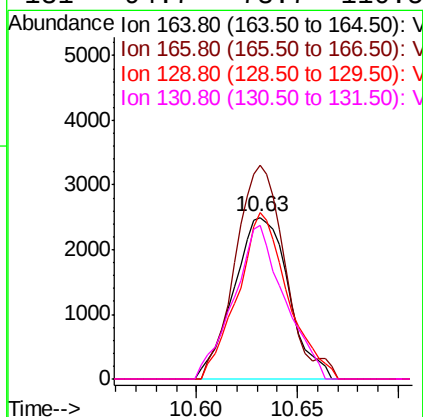
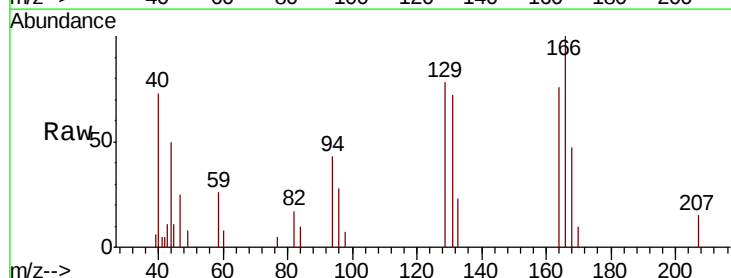
Instrument :
MSVOA_N
ClientSampled :
IW-22

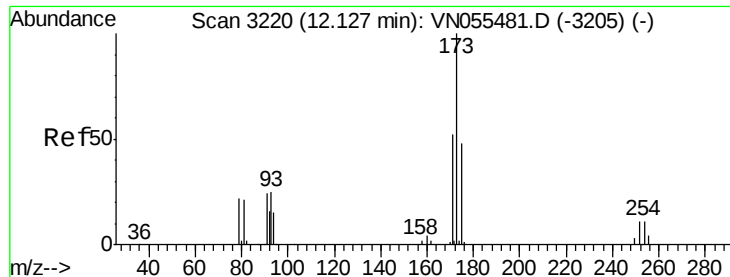
Tot Ion:117 Resp: 1215964
Ion Ratio Lower Upper
117 100
82 59.5 48.0 72.0
119 32.5 26.0 39.0



#64
Tetrachloroethene
Concen: 0.478 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN055552.D
Acq: 10 May 2019 15:17

Tgt Ion:164 Resp: 4758
Ion Ratio Lower Upper
164 100
166 132.1 102.6 153.8
129 103.2 77.0 115.6
131 94.7 73.7 110.5





#71

Bromoform

Concen: 0.630 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055552.D

Acq: 10 May 2019 15:17

Instrument :

MSVOA_N

ClientSampled :

IW-22

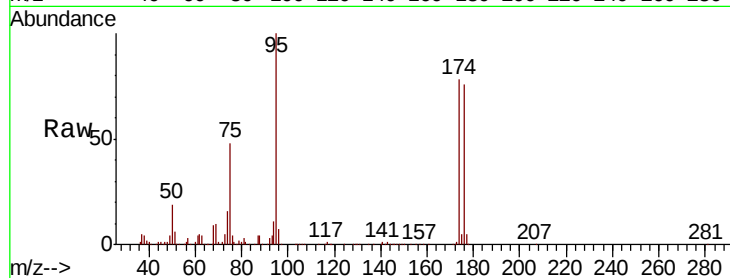
Tot Ion:173 Resp: 3663

Ion Ratio Lower Upper

173 100

175 633.1 24.1 72.4#

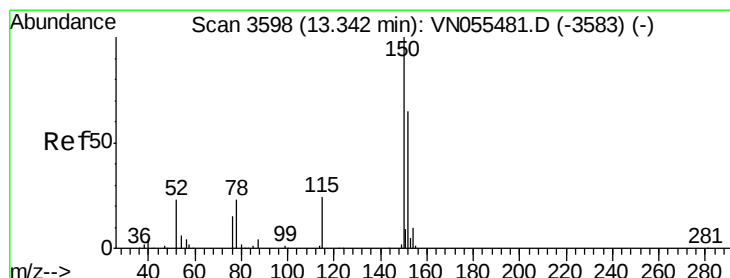
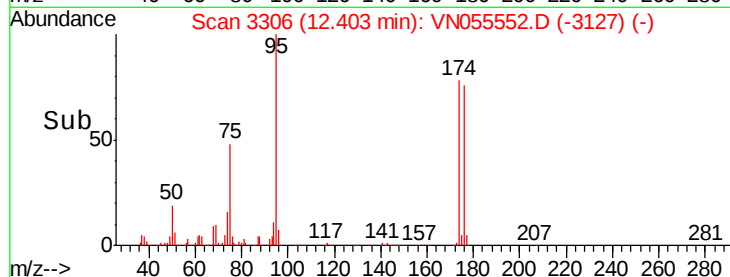
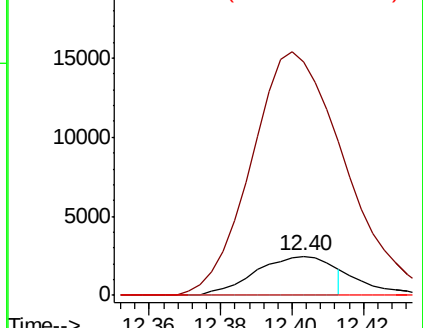
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055552.D

Acq: 10 May 2019 15:17

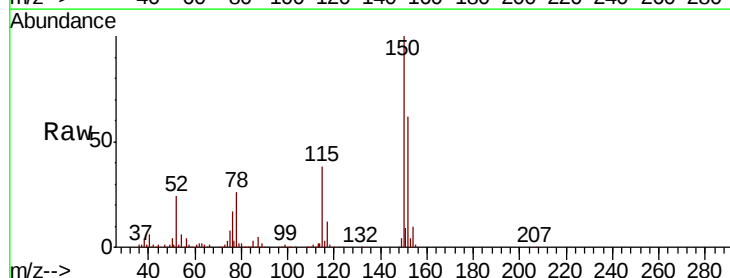
Tgt Ion:152 Resp: 316488

Ion Ratio Lower Upper

152 100

115 60.6 30.1 90.5

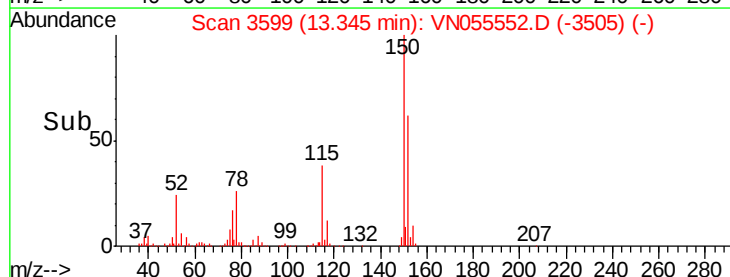
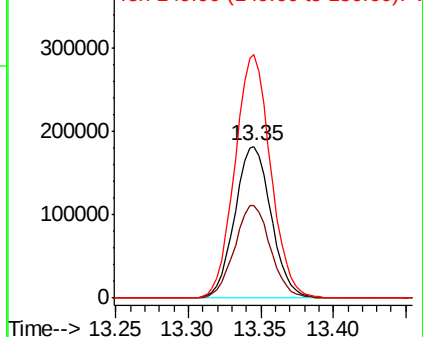
150 158.1 0.0 355.0

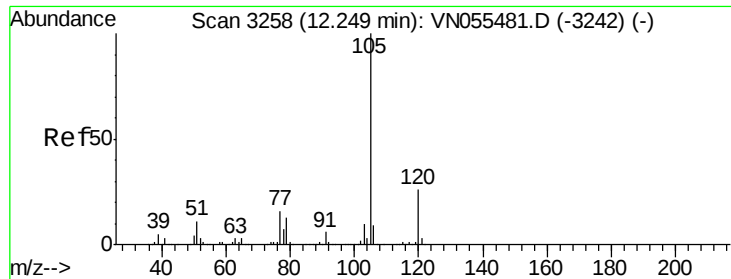


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.26 min Scan# 3260

Delta R.T. 0.01 min

Lab File: VN055552.D

Acq: 10 May 2019 15:17

Instrument :

MSVOA_N

ClientSampleId :

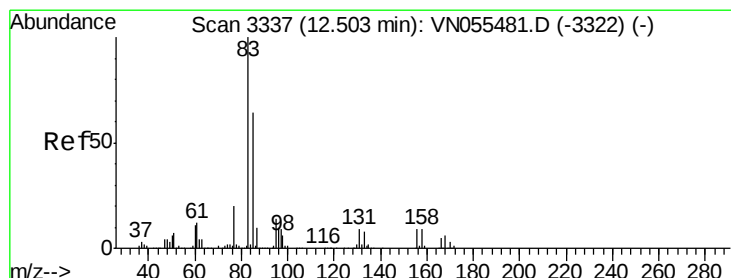
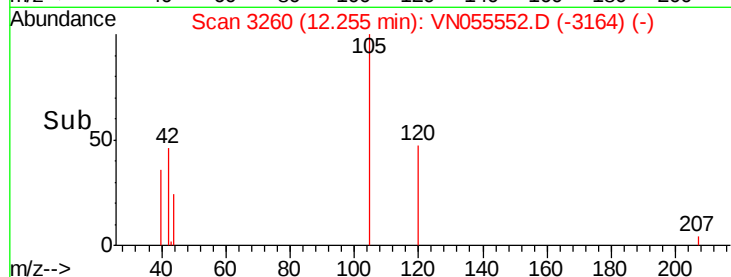
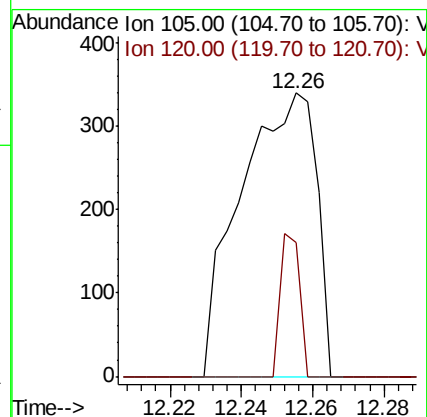
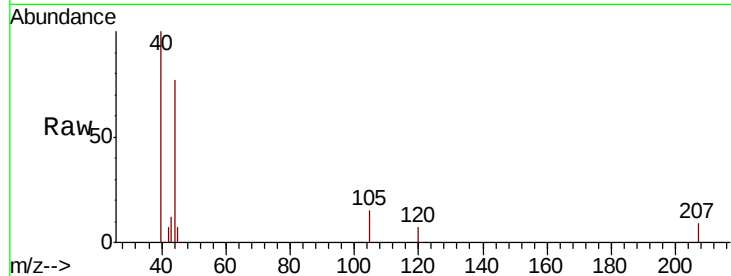
IW-22

Tot Ion:105 Resp: 498

Ion Ratio Lower Upper

105 100

120 12.9 13.0 39.0#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055552.D

Acq: 10 May 2019 15:17

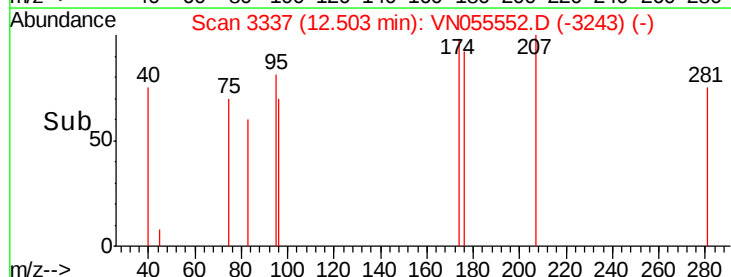
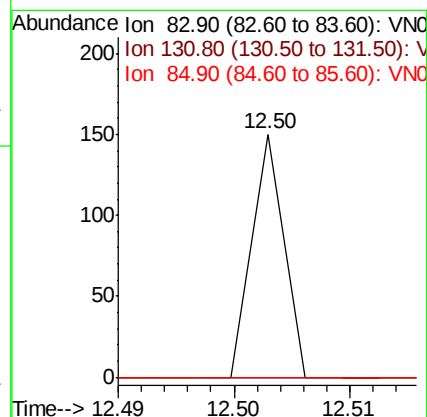
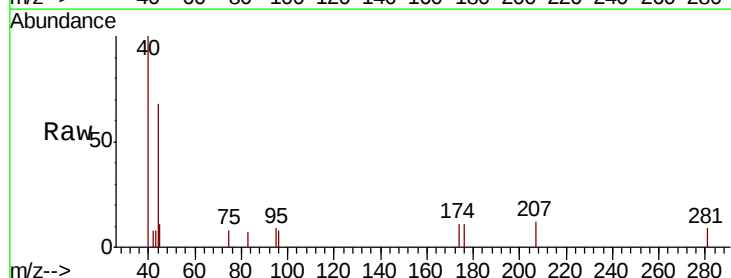
Tgt Ion: 83 Resp: 29

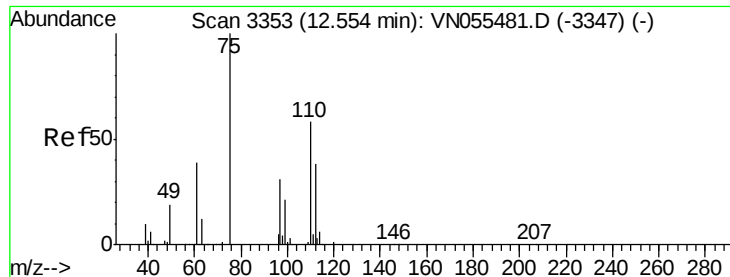
Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 0.0 32.0 96.0#

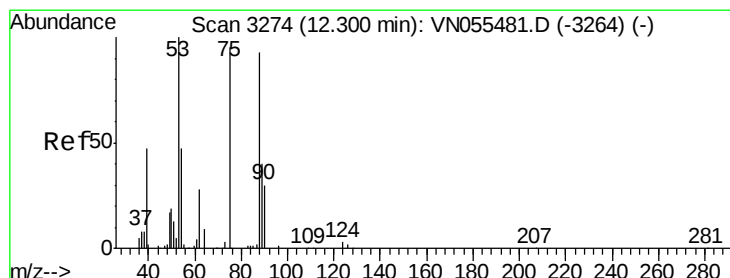
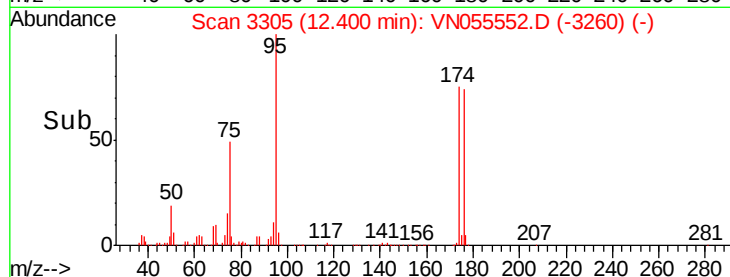
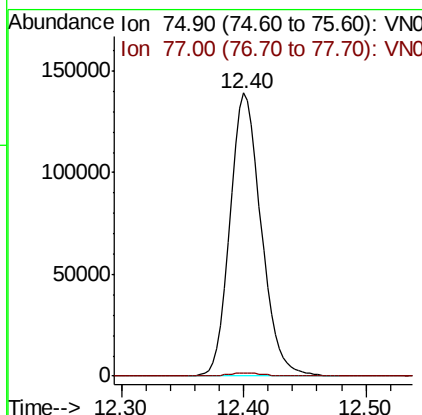
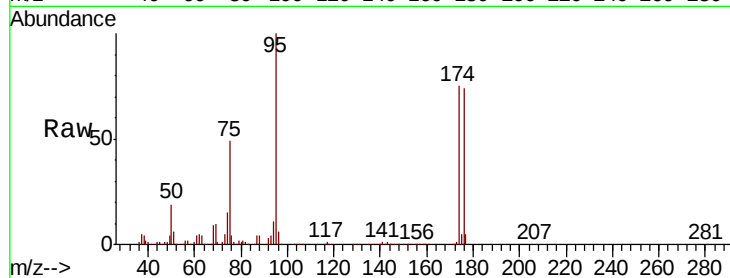




#76
 1,2,3-Trichloropropane
 Concen: 28.772 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN055552.D
 Acq: 10 May 2019 15:17

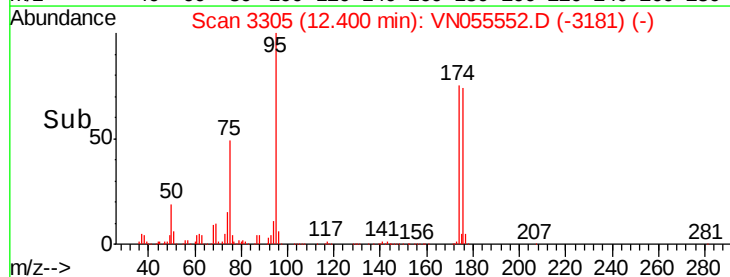
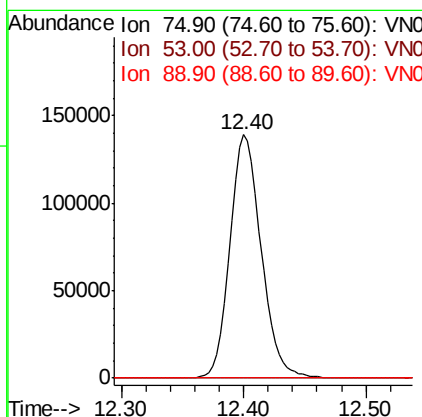
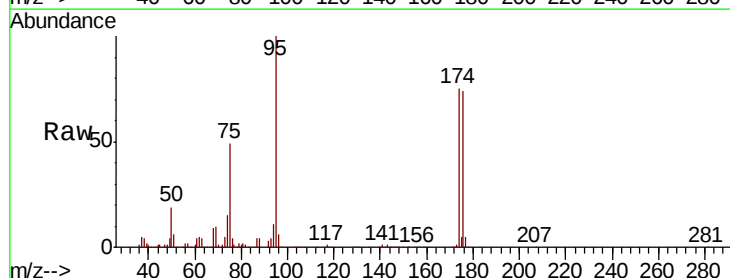
Instrument :
 MSVOA_N
 ClientSampleId :
 IW-22

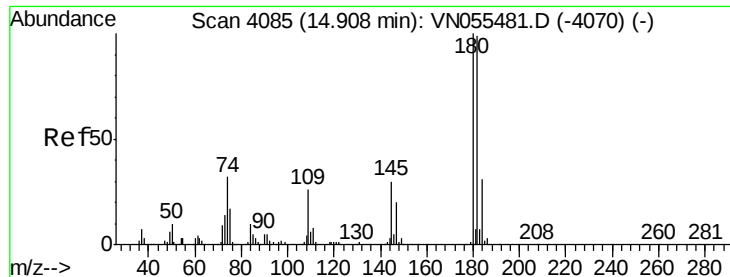
Tot Ion: 75 Resp: 247896
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 106.165 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055552.D
 Acq: 10 May 2019 15:17

Tgt Ion: 75 Resp: 247896
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.5 129.7#
 89 0.1 35.7 53.5#





#93

1,2,4-Trichlorobenzene

Concen: 3.248 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055552.D

Acq: 10 May 2019 15:17

Instrument :

MSVOA_N

ClientSampled :

IW-22

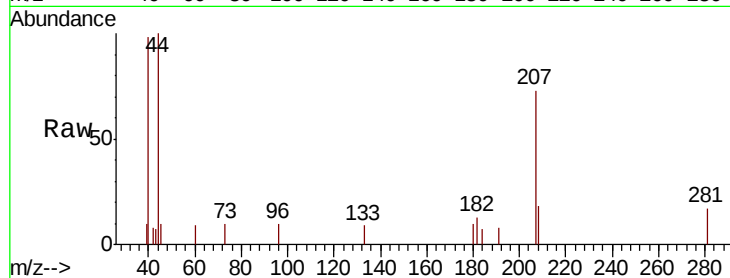
Tot Ion:180 Resp: 212

Ion Ratio Lower Upper

180 100

182 107.5 48.7 146.1

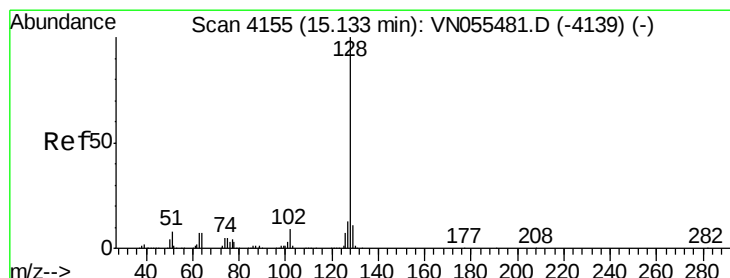
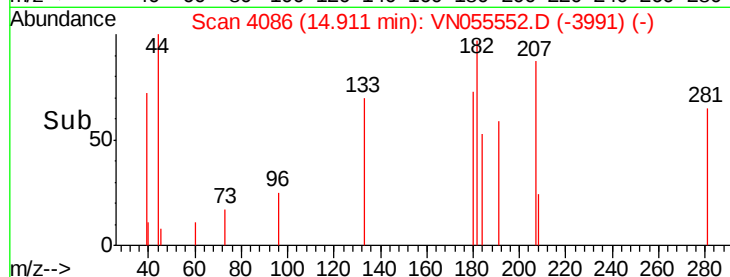
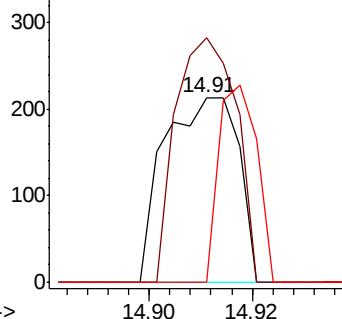
145 54.7 15.3 45.9#



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



#95

Naphthalene

Concen: 2.982 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN055552.D

Acq: 10 May 2019 15:17

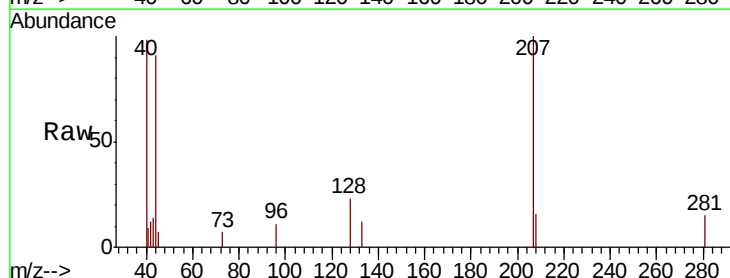
Tgt Ion:128 Resp: 639

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

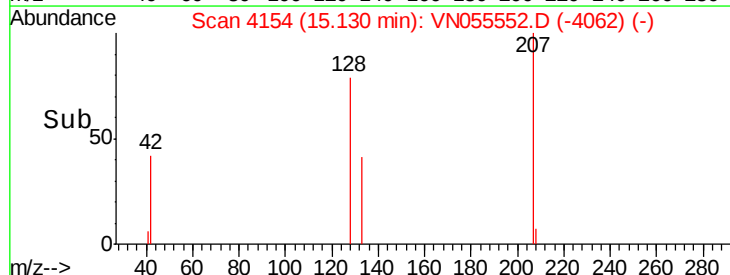
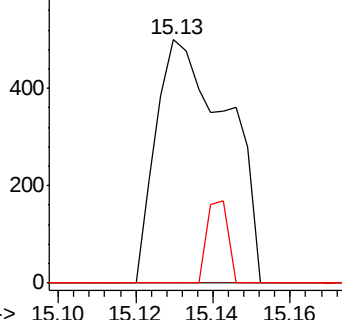
129 10.0 8.8 13.2

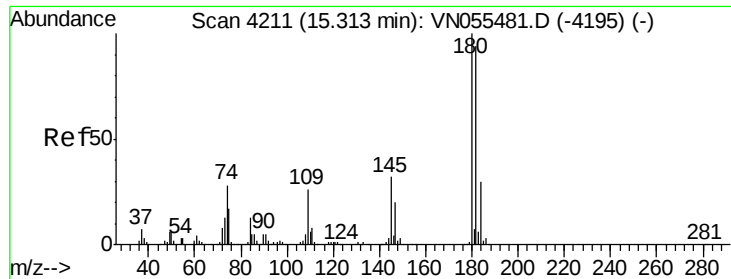


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.474 ug/l
 RT: 15.33 min Scan# 4215
 Delta R.T. 0.01 min
 Lab File: VN055552.D
 Acq: 10 May 2019 15:17

Instrument :
 MSVOA_N
 ClientSampleId :
 IW-22

Tot Ion	Ratio	Lower	Upper
180	100		
182	22.0	47.1	141.3#
145	22.3	15.8	47.4

