

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
 Data File : VN056805.D
 Acq On : 18 Jul 2019 11:19
 Operator : JC/SP
 Sample : K3879-01 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Jul 19 05:31:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	47541	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	266383	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	228464	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	101938	31.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.50%
60) 4-Bromofluorobenzene	12.40	95	94179	26.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.80%
63) Toluene-d8	10.09	98	320333	30.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.30%

Target Compounds

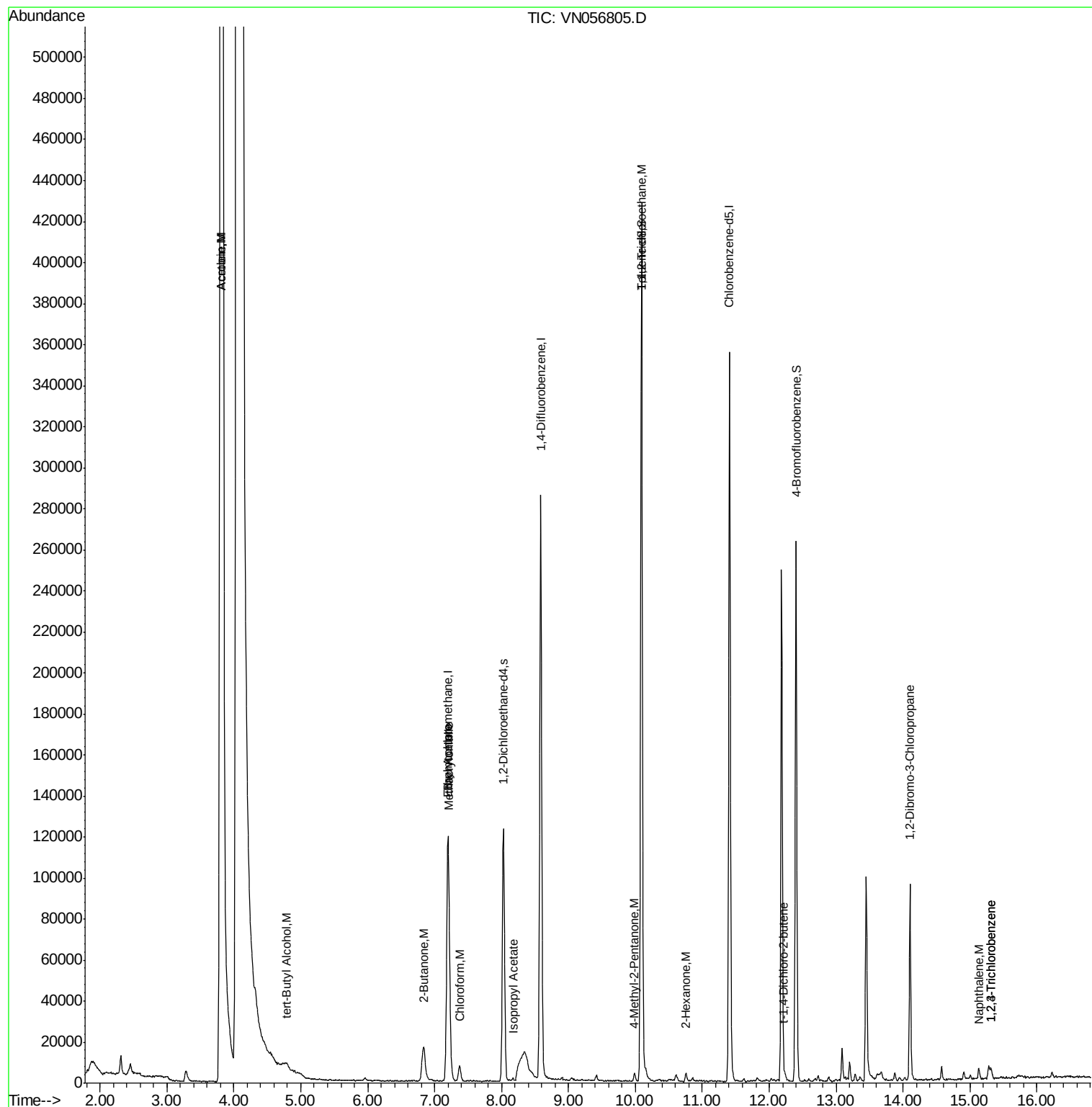
					Ovalue	
13) Acrolein	3.80	56	324	1.224	ug/l #	14
15) Acetone	3.82	58	1259230	2206.338	ug/l	97
23) tert-Butyl Alcohol	4.79	59	775	1.344	ug/l #	100
25) Chloroform	7.37	83	8768	1.612	ug/l	99
30) 2-Butanone	6.85	43	12330	5.029	ug/l #	94
35) Methacrylonitrile	7.22	41	9316	4.974	ug/l #	48
43) Ethyl Acetate	7.21	43	2100	0.474	ug/l	95
44) Isopropyl Acetate	8.17	43	1578	0.228	ug/l #	69
50) 1,1,2-Trichloroethane	10.09	97	9177	2.832	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	3088	0.718	ug/l #	92
59) 2-Hexanone	10.76	43	3887	1.191	ug/l #	88
77) t-1,4-Dichloro-2-butene	12.23	75	302	0.234	ug/l #	11
88) 1,2-Dibromo-3-Chloropropan	14.10	75	2948	3.762	ug/l #	1
89) 1,2,4-Trichlorobenzene	15.31	180	2565	0.778	ug/l	97
91) Naphthalene	15.13	128	5543	0.625	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.31	180	2565	0.742	ug/l	97

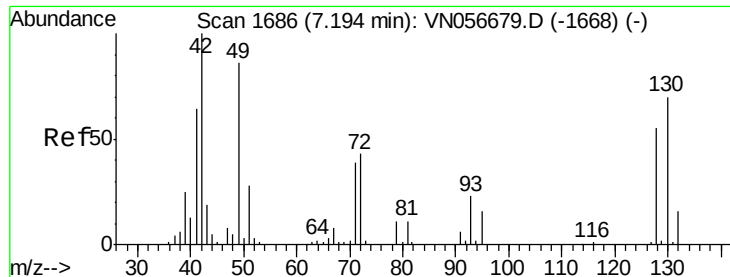
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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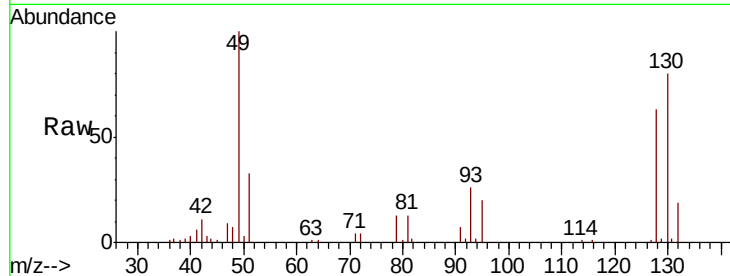




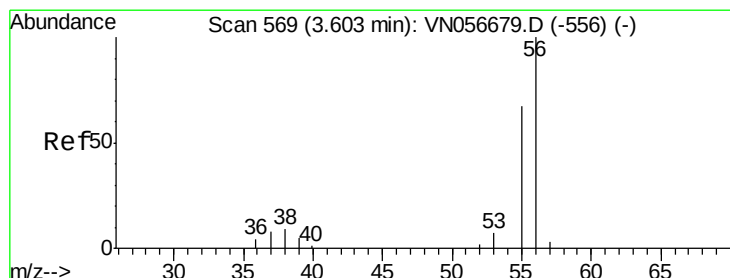
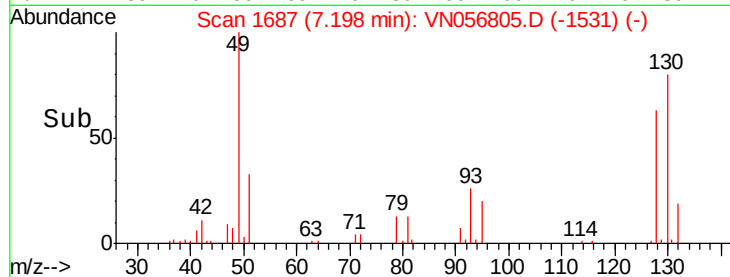
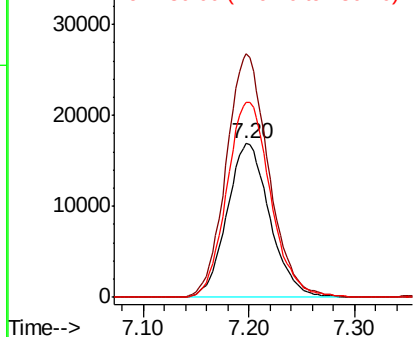
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tot Ion:128 Resp: 47541
Ion Ratio Lower Upper
128 100
49 156.9 0.0 390.5
130 130.2 0.0 316.5

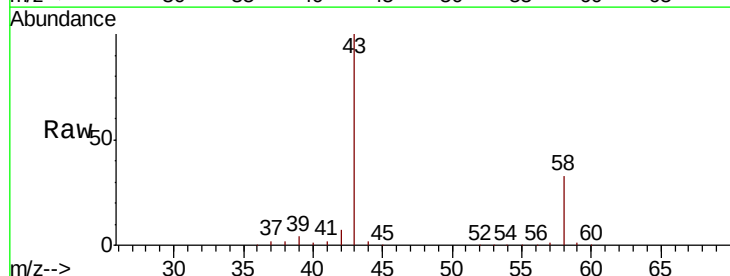


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

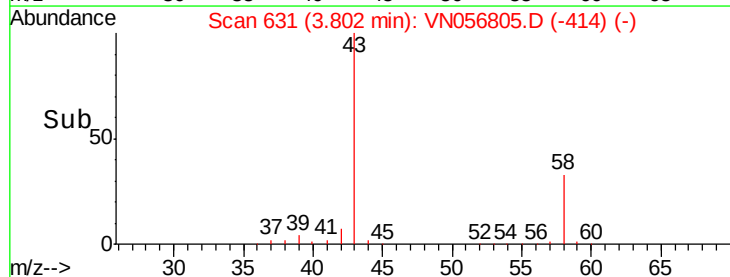
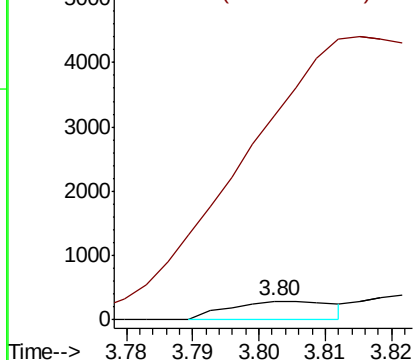


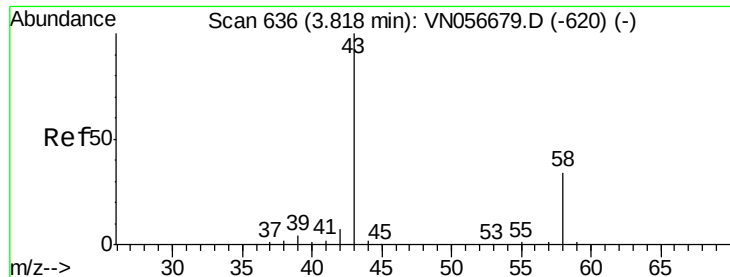
#13
Acrolein
Concen: 1.224 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.20 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

Tgt Ion: 56 Resp: 324
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VN
Ion 55.00 (54.70 to 55.70): VN





#15

Acetone

Concen: 2206.338 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN056805.D

Acq: 18 Jul 2019 11:19

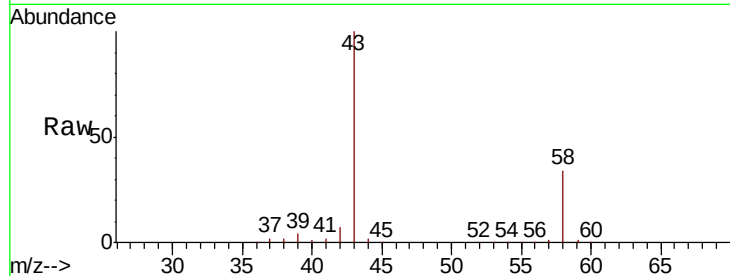
Instrument :
MSVOA_N
ClientSampled :
EFF-WW

Tot Ion: 58 Resp: 1259230

Ion Ratio Lower Upper

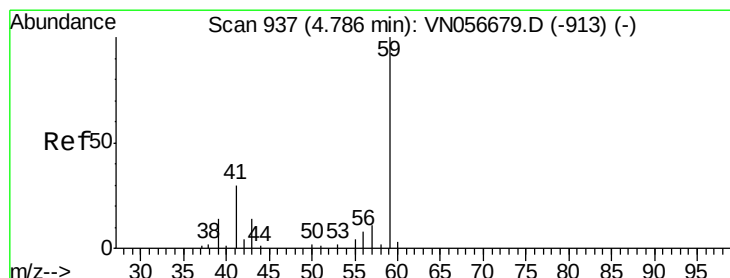
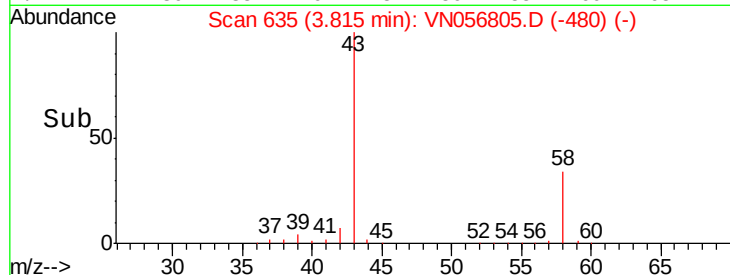
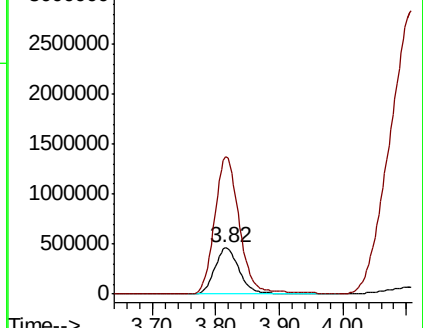
58 100

43 297.6 233.9 350.9



Abundance Ion 58.00 (57.70 to 58.70): VN056679.D (-620) (-)

Ion 43.00 (42.70 to 43.70): VN056679.D (-620) (-)



#23

tert-Butyl Alcohol

Concen: 1.344 ug/l

RT: 4.79 min Scan# 939

Delta R.T. 0.01 min

Lab File: VN056805.D

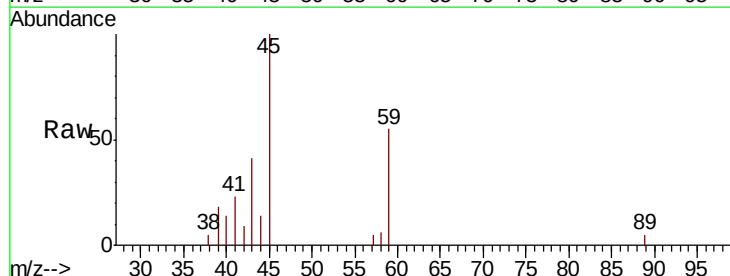
Acq: 18 Jul 2019 11:19

Tgt Ion: 59 Resp: 775

Ion Ratio Lower Upper

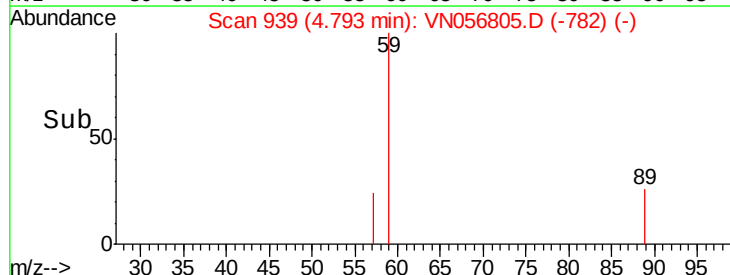
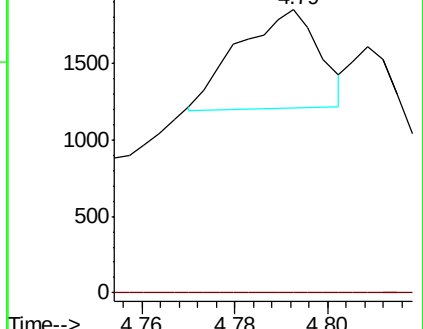
59 100

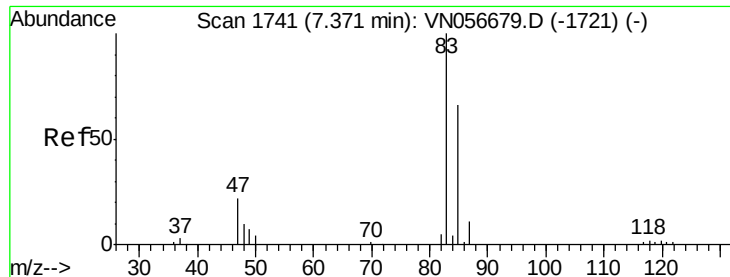
52 0.0 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VN056679.D (-913) (-)

Ion 52.00 (51.70 to 52.70): VN056679.D (-913) (-)

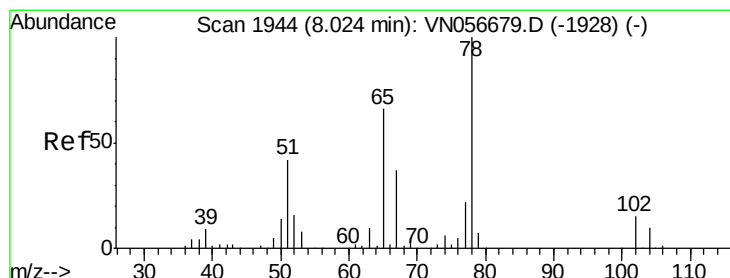
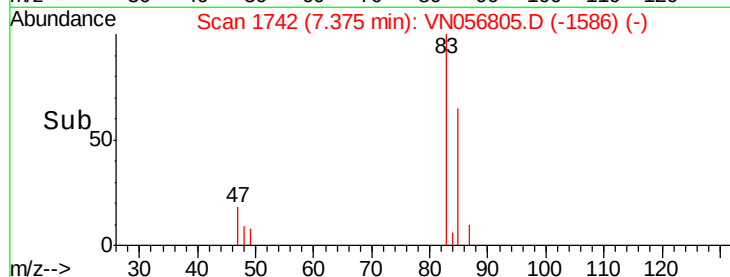
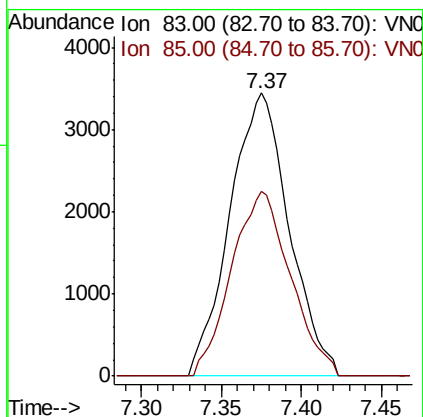
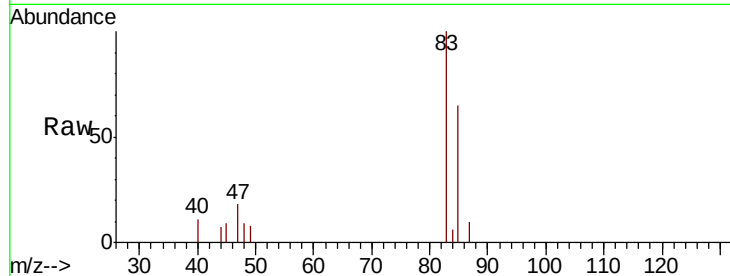




#25
Chloroform
Concen: 1.612 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

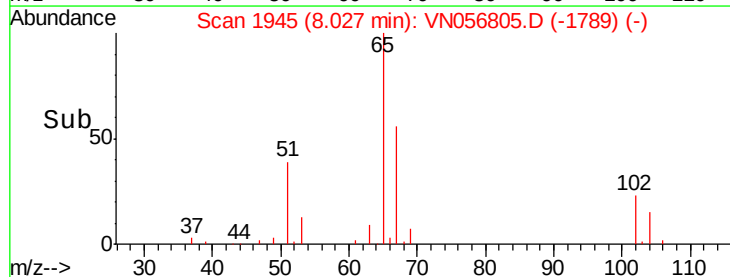
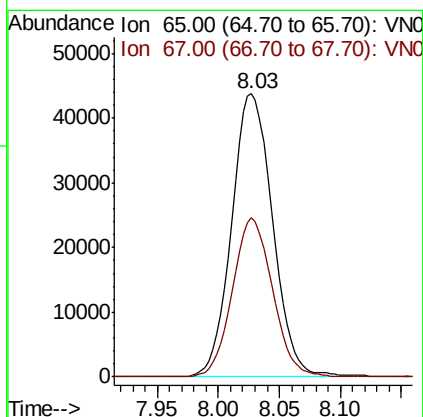
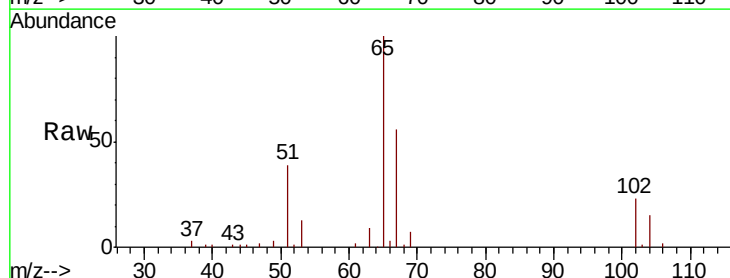
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

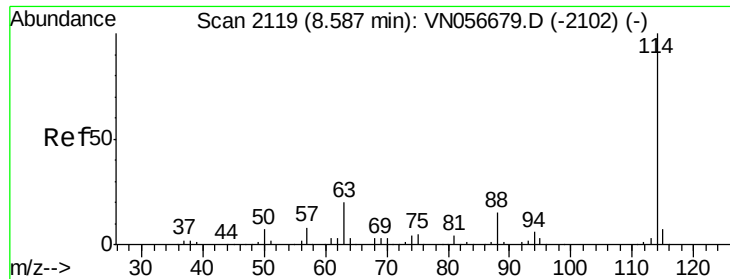
Tot Ion: 83 Resp: 8768
Ion Ratio Lower Upper
83 100
85 65.4 52.6 79.0



#27
1,2-Dichloroethane-d4
Concen: 31.655 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

Tgt Ion: 65 Resp: 101938
Ion Ratio Lower Upper
65 100
67 55.0 43.4 65.0

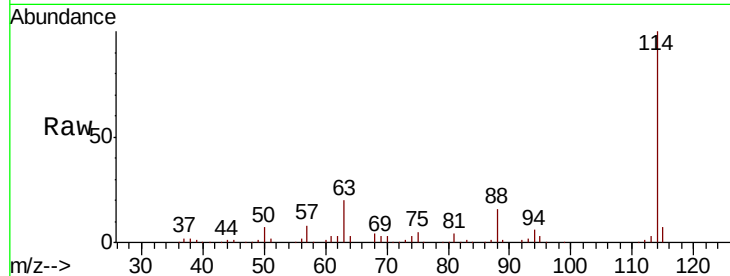




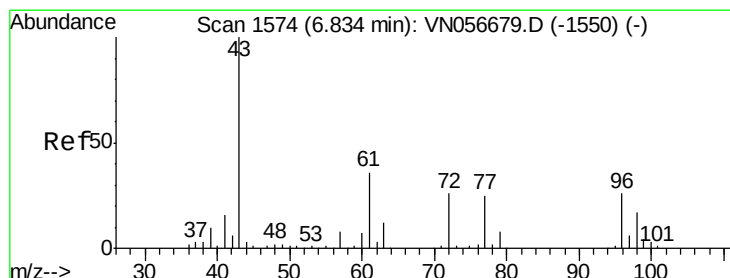
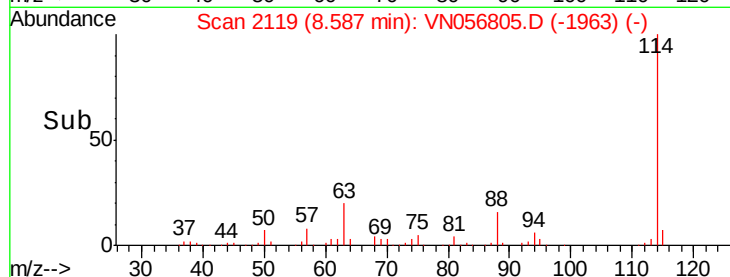
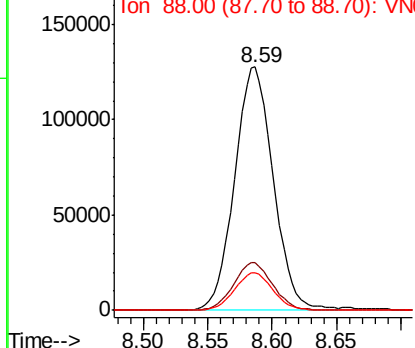
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN056805.D
 Acq: 18 Jul 2019 11:19

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Tot Ion:114 Resp: 266383
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.2 24.2
 88 15.2 12.3 18.5

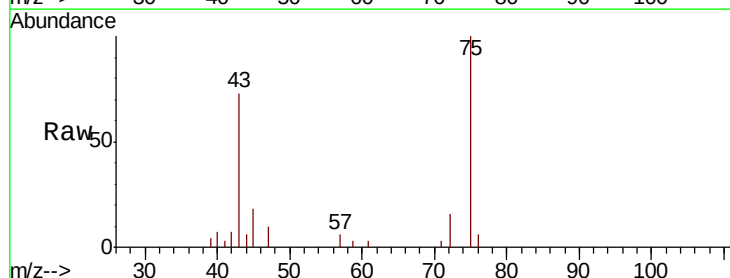


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 88.00 (87.70 to 88.70): VNO

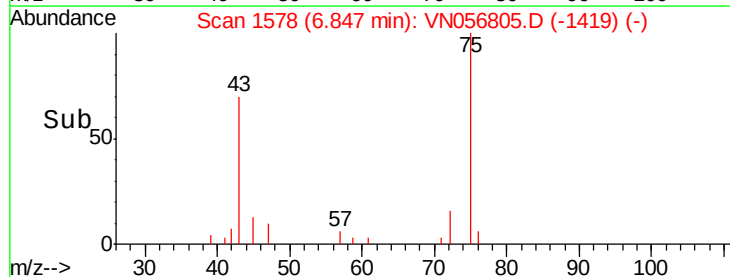
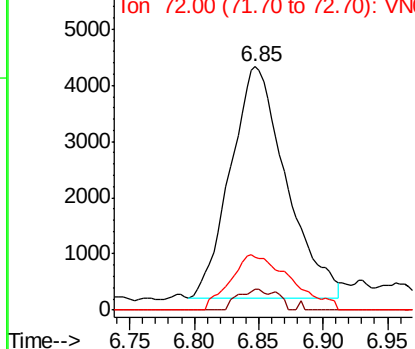


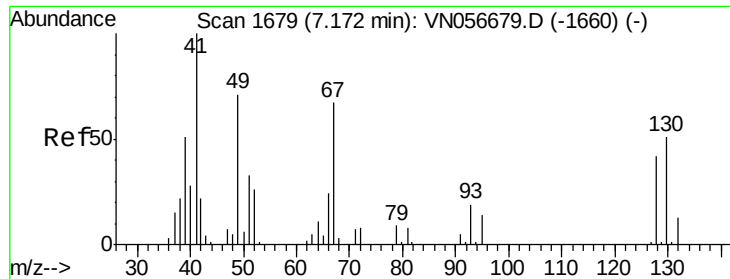
#30
 2-Butanone
 Concen: 5.029 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VN056805.D
 Acq: 18 Jul 2019 11:19

Tgt Ion: 43 Resp: 12330
 Ion Ratio Lower Upper
 43 100
 57 2.6 6.6 10.0#
 72 25.1 21.3 31.9



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 57.00 (56.70 to 57.70): VNO
 Ion 72.00 (71.70 to 72.70): VNO

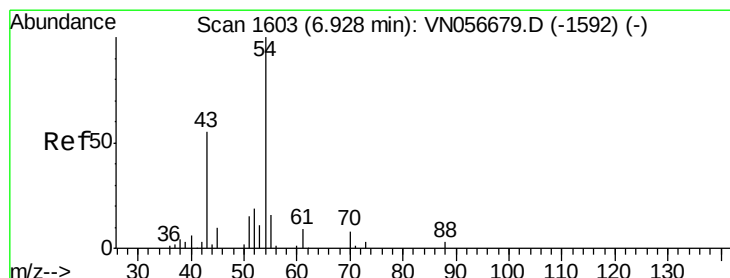
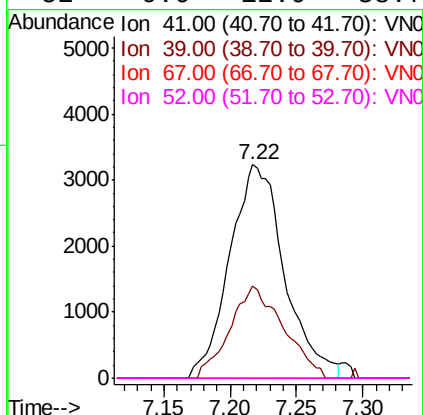
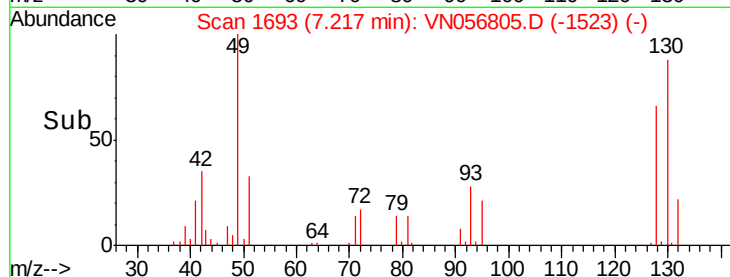
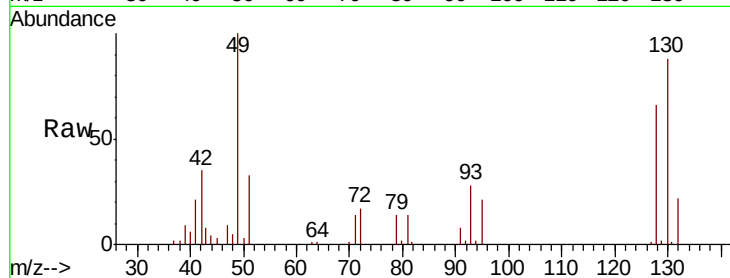




#35
Methacrylonitrile
Concen: 4.974 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.04 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

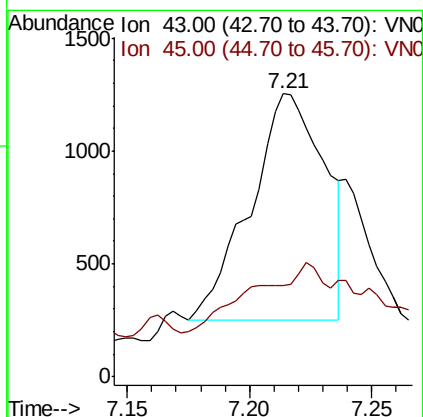
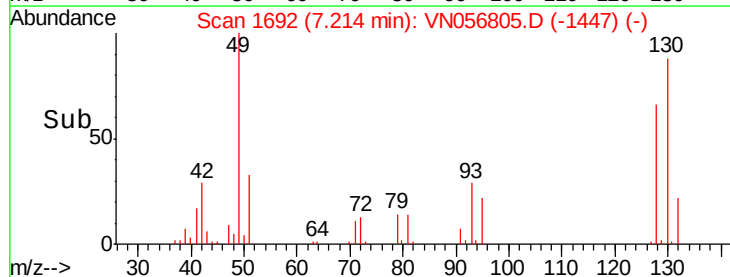
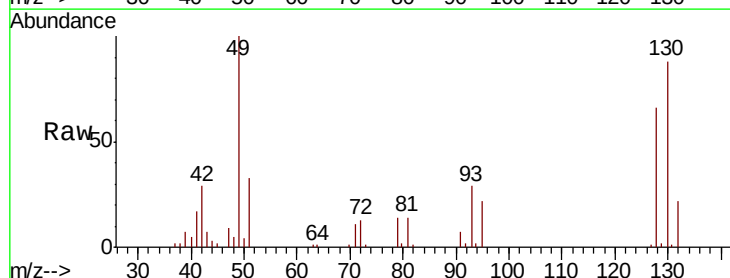
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

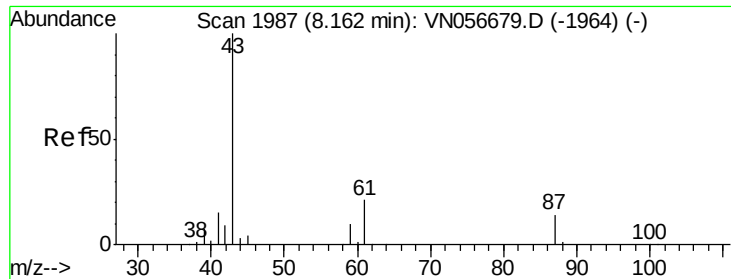
Tot Ion: 41 Resp: 9316
Ion Ratio Lower Upper
41 100
39 43.2 25.4 76.2
67 0.0 33.6 100.8#
52 0.0 12.9 38.7#



#43
Ethyl Acetate
Concen: 0.474 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.29 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

Tgt Ion: 43 Resp: 2100
Ion Ratio Lower Upper
43 100
45 15.9 11.2 16.8





#44

Isopropyl Acetate

Concen: 0.228 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN056805.D

Acq: 18 Jul 2019 11:19

Instrument :

MSVOA_N

ClientSampled :

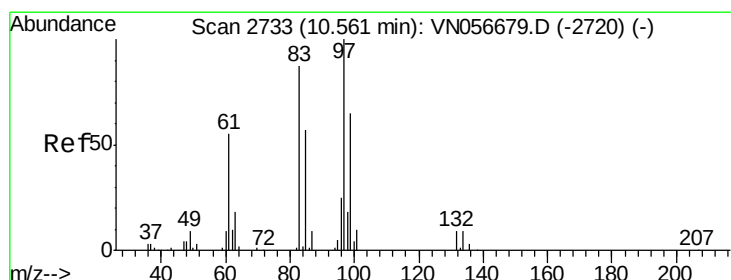
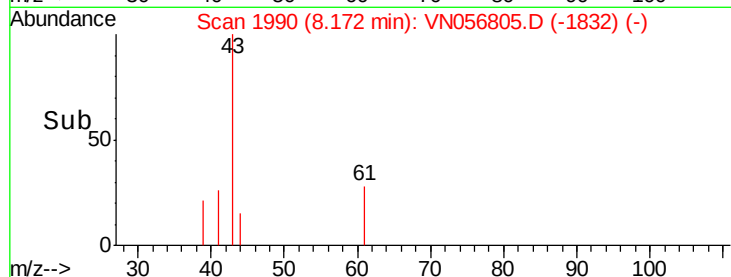
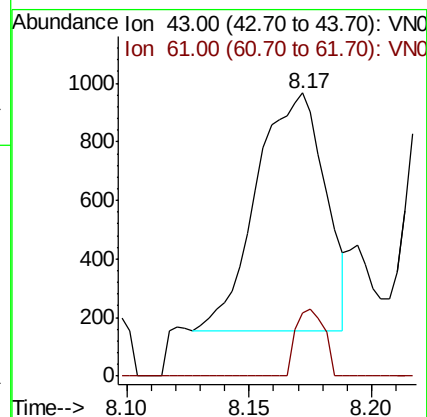
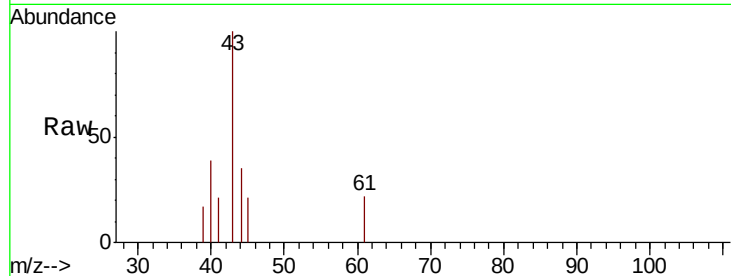
EFF-WW

Tot Ion: 43 Resp: 1578

Ion Ratio Lower Upper

43 100

61 11.7 22.6 33.8#



#50

1,1,2-Trichloroethane

Concen: 2.832 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.47 min

Lab File: VN056805.D

Acq: 18 Jul 2019 11:19

Tgt Ion: 97 Resp: 9177

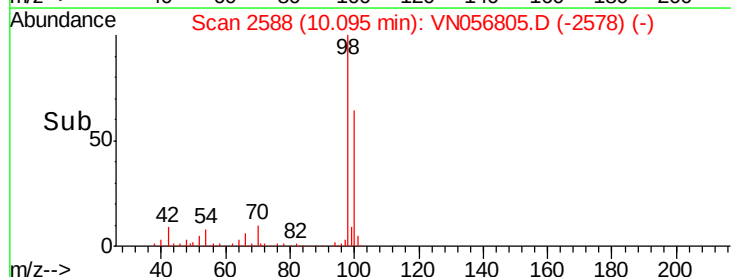
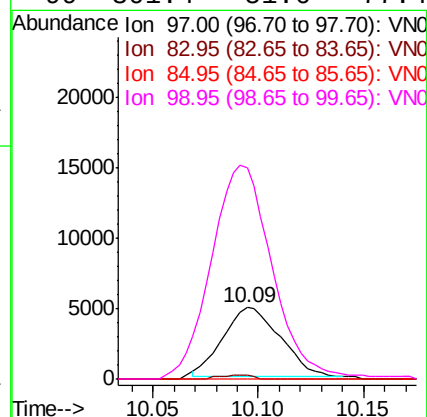
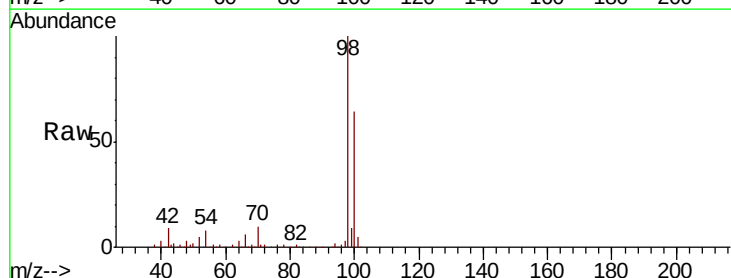
Ion Ratio Lower Upper

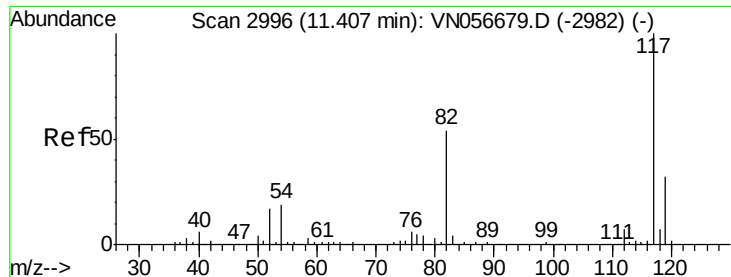
97 100

83 5.2 69.2 103.8#

85 0.0 45.3 67.9#

99 301.4 51.6 77.4#

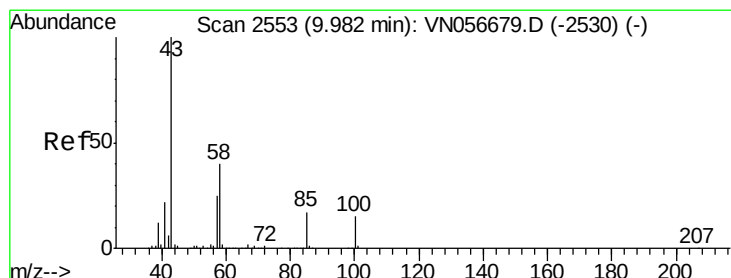
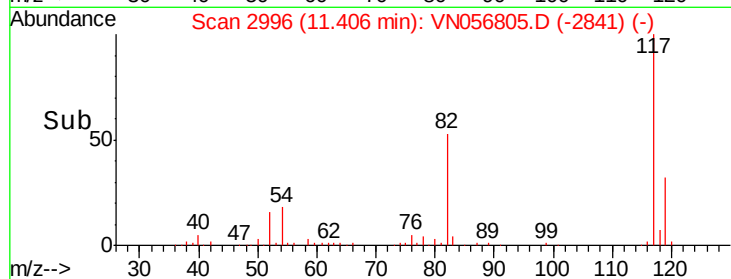
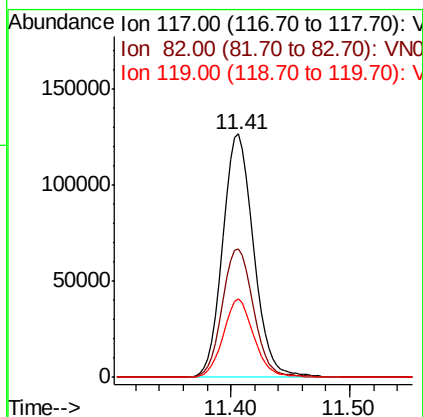
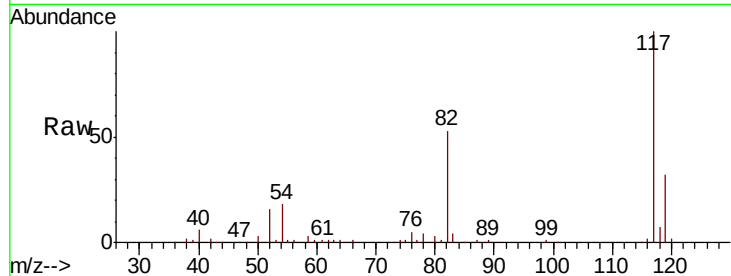




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

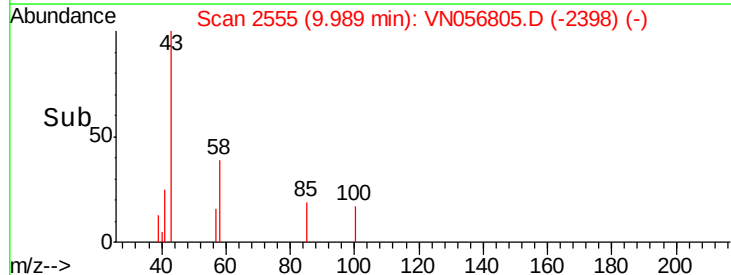
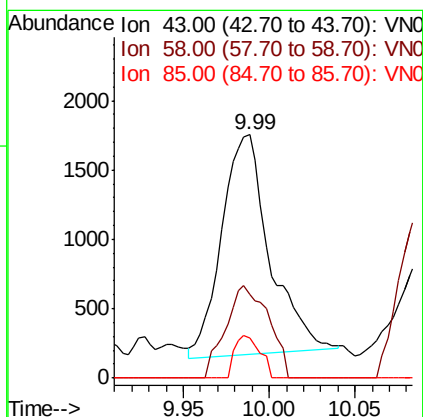
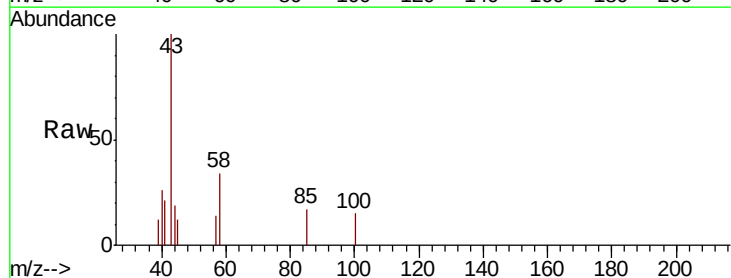
Instrument :
MSVOA_N
ClientSampled :
EFF-WW

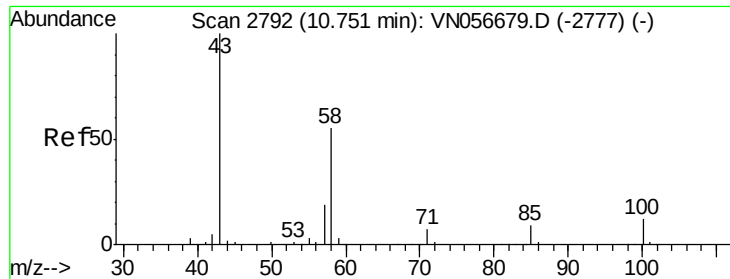
Tot Ion:117 Resp: 228464
Ion Ratio Lower Upper
117 100
82 53.8 43.0 64.4
119 31.9 26.0 39.0



#58
4-Methyl-2-Pentanone
Concen: 0.718 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.01 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

Tgt Ion: 43 Resp: 3088
Ion Ratio Lower Upper
43 100
58 37.6 31.9 47.9
85 10.2 14.2 21.4#

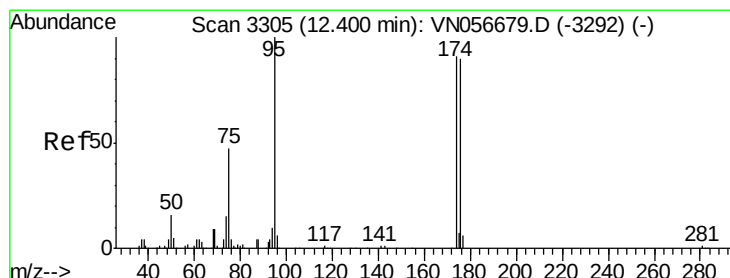
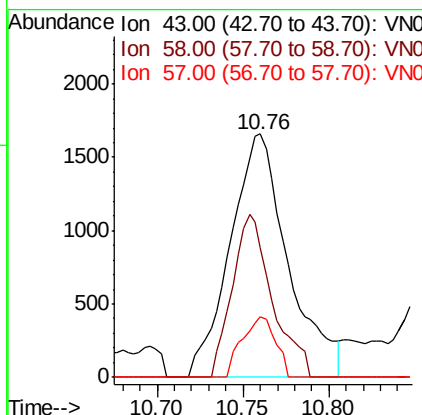
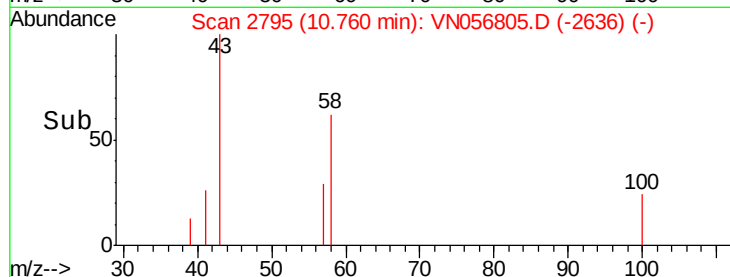
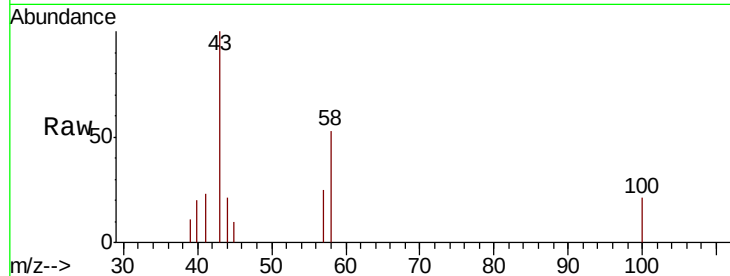




#59
2-Hexanone
Concen: 1.191 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

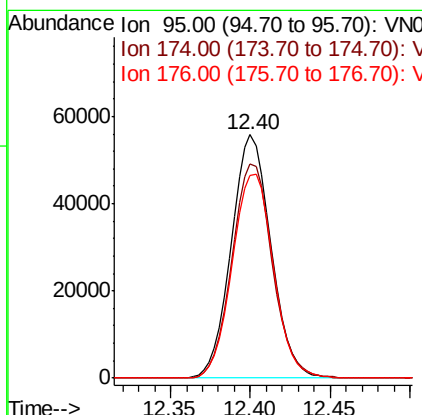
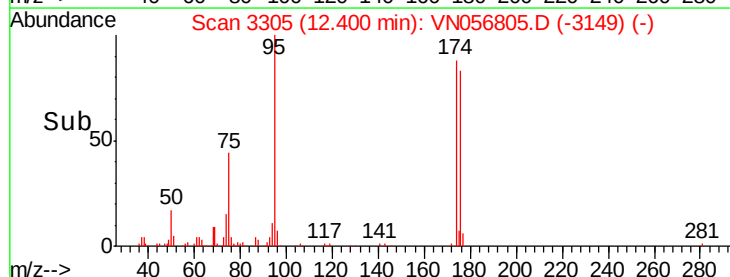
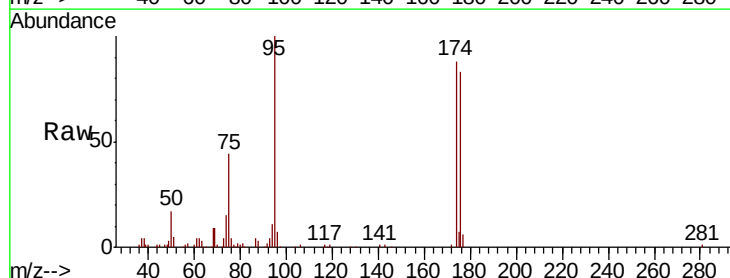
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

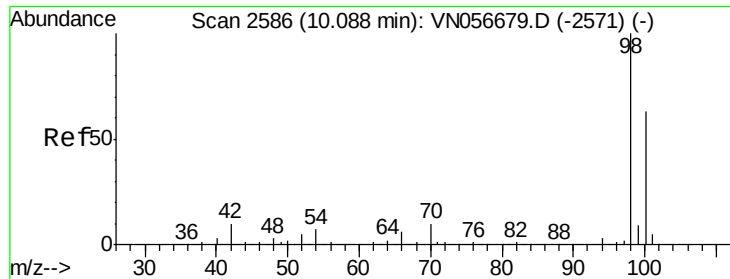
Tot Ion: 43 Resp: 3887
Ion Ratio Lower Upper
43 100
58 46.0 44.4 66.6
57 14.3 15.2 22.8#



#60
4-Bromofluorobenzene
Concen: 26.935 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

Tgt Ion: 95 Resp: 94179
Ion Ratio Lower Upper
95 100
174 89.8 72.6 108.8
176 87.1 71.0 106.6





#63

Toluene-d8

Concen: 30.687 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056805.D

Acq: 18 Jul 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

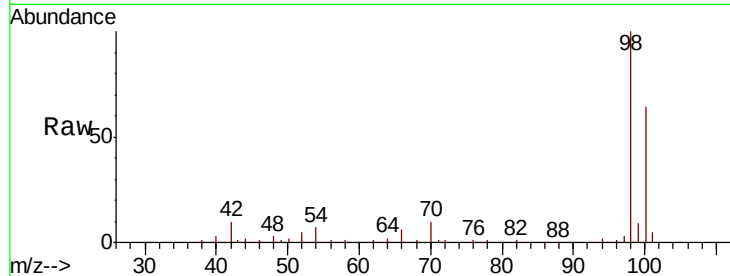
EFF-WW

Tot Ion: 98 Resp: 320333

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN056679.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN056679.D (-2571) (-)

10.09

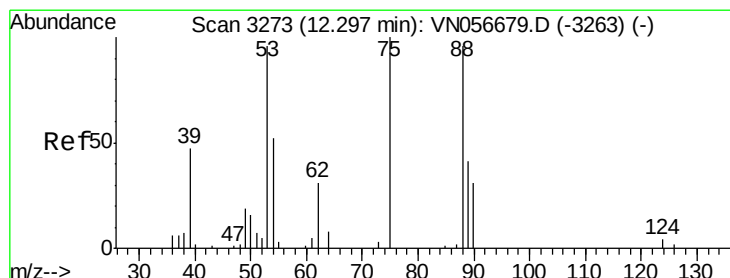
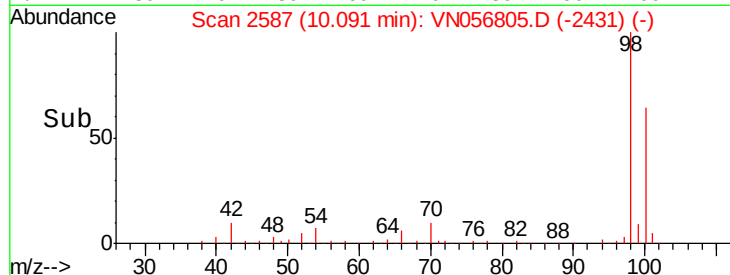
150000

100000

50000

0

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 0.234 ug/l

RT: 12.23 min Scan# 3252

Delta R.T. -0.07 min

Lab File: VN056805.D

Acq: 18 Jul 2019 11:19

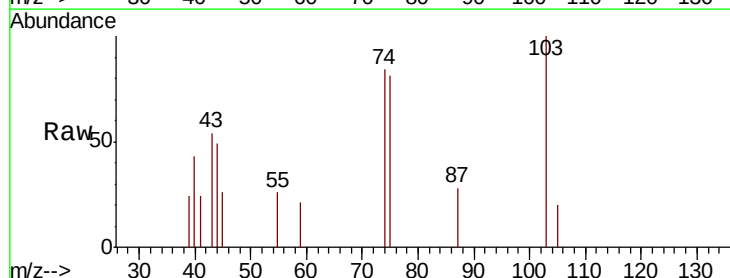
Tgt Ion: 75 Resp: 302

Ion Ratio Lower Upper

75 100

53 0.0 48.6 145.8#

89 0.0 21.3 64.0#



Abundance Ion 75.00 (74.70 to 75.70): VN056679.D (-3263) (-)

Ion 53.00 (52.70 to 53.70): VN056679.D (-3263) (-)

Ion 89.00 (88.70 to 89.70): VN056679.D (-3263) (-)

12.23

800

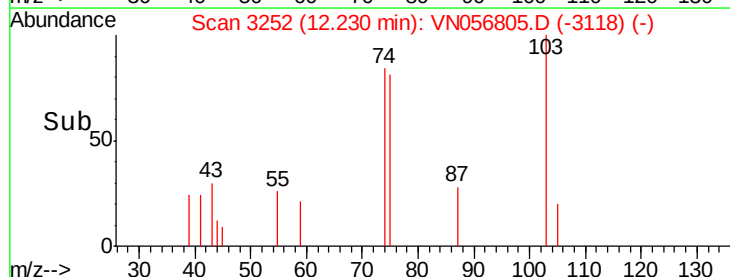
600

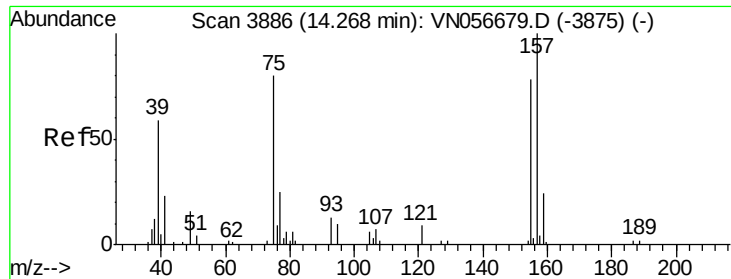
400

200

0

Time-->





#88

1,2-Dibromo-3-Chloropropane

Concen: 3.762 ug/l

RT: 14.10 min Scan# 3834

Delta R.T. -0.17 min

Lab File: VN056805.D

Acq: 18 Jul 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

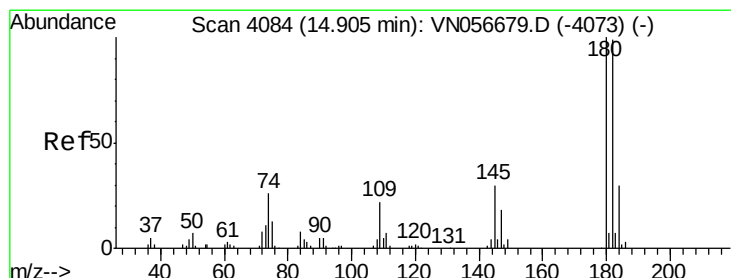
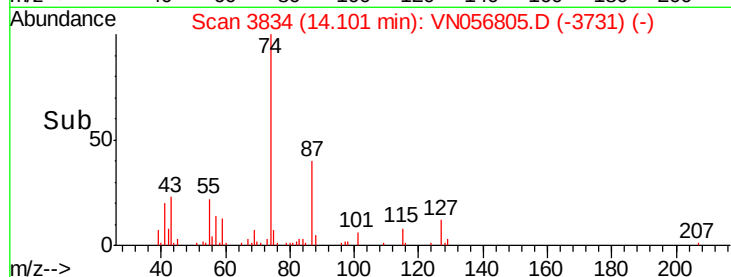
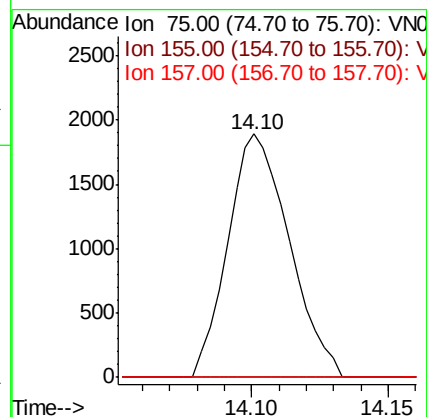
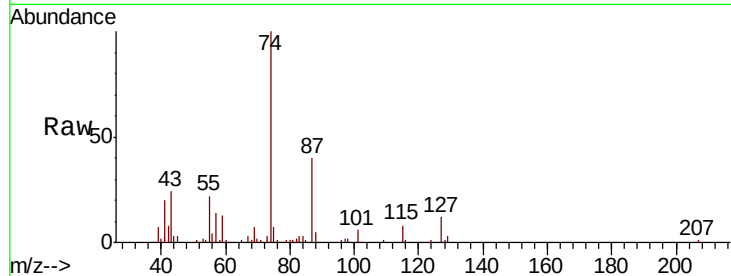
Tot Ion: 75 Resp: 2948

Ion Ratio Lower Upper

75 100

155 0.0 78.6 117.8#

157 0.0 99.3 148.9#



#89

1,2,4-Trichlorobenzene

Concen: 0.778 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.41 min

Lab File: VN056805.D

Acq: 18 Jul 2019 11:19

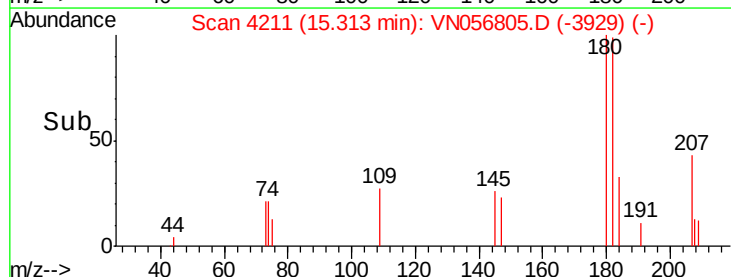
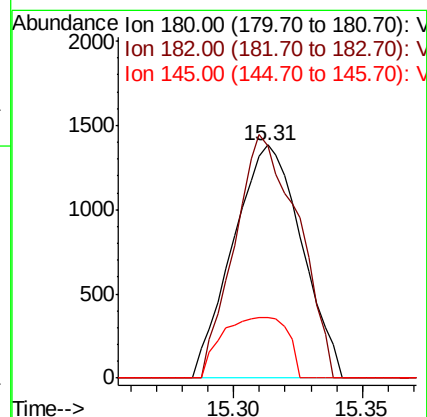
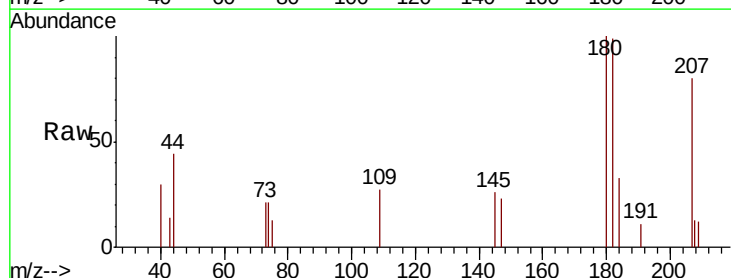
Tgt Ion: 180 Resp: 2565

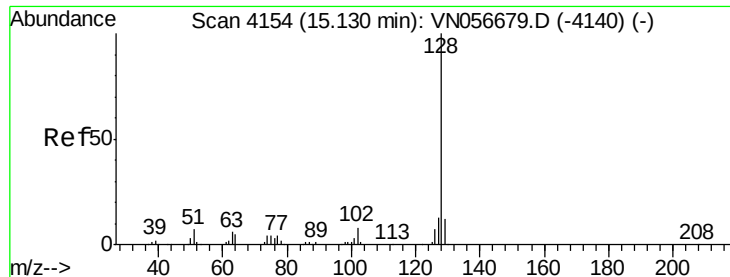
Ion Ratio Lower Upper

180 100

182 96.5 78.2 117.4

145 24.8 23.2 34.8

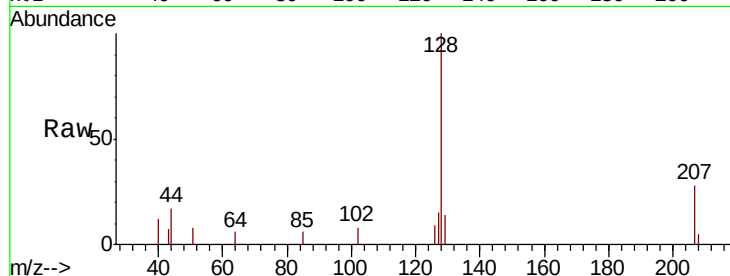




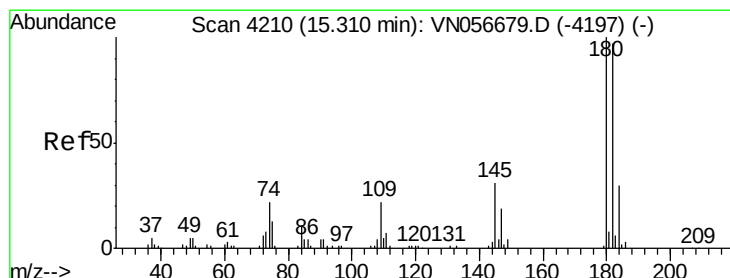
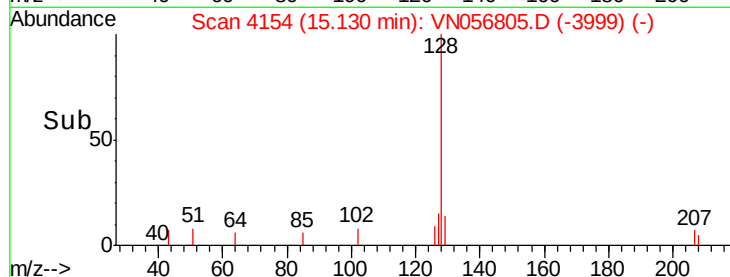
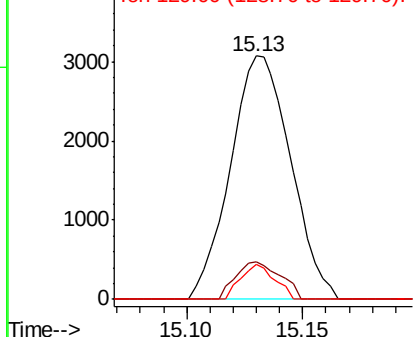
#91
Naphthalene
Concen: 0.625 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tot Ion:128 Resp: 5543
Ion Ratio Lower Upper
128 100
127 11.5 10.4 15.6
129 8.0 8.8 13.2#

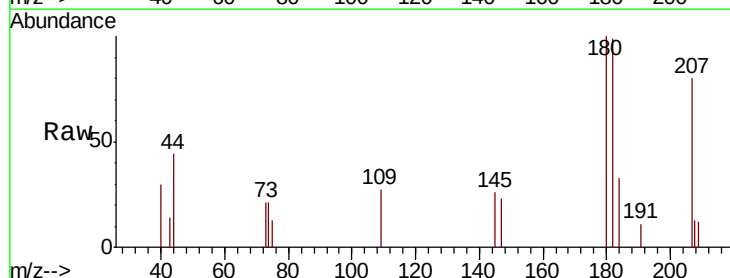


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#92
1,2,3-Trichlorobenzene
Concen: 0.742 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN056805.D
Acq: 18 Jul 2019 11:19

Tgt Ion:180 Resp: 2565
Ion Ratio Lower Upper
180 100
182 96.5 0.0 192.4
145 24.8 0.0 60.4



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

