

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052820.D
 Acq On : 12 Dec 2018 12:03
 Operator : MD\SY
 Sample : J6355-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-27

Quant Time: Dec 13 03:42:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	147587	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	856982	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	720694	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	302109	30.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.13%
60) 4-Bromofluorobenzene	12.40	95	307157	27.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.93%
63) Toluene-d8	10.09	98	982652	29.41	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.03%

Target Compounds

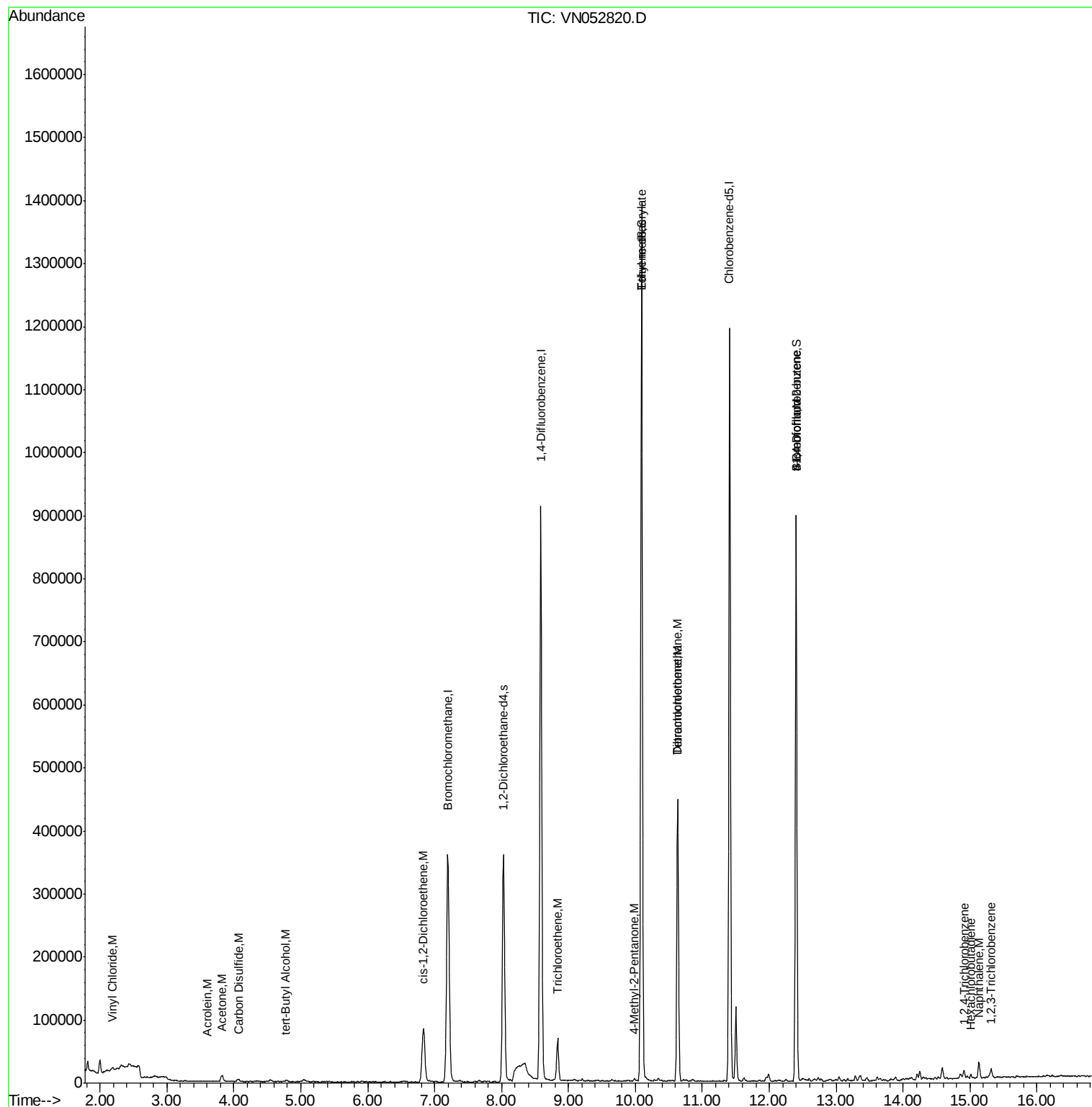
					Ovalue
4) Vinyl Chloride	2.19	62	2383	0.212 ug/l	92
13) Acrolein	3.60	56	183	0.222 ug/l	94
15) Acetone	3.82	58	5108	6.583 ug/l	71
16) Carbon Disulfide	4.07	76	6827	0.261 ug/l #	94
22) cis-1,2-Dichloroethene	6.83	96	60258	5.903 ug/l	87
23) tert-Butyl Alcohol	4.77	59	2035	4.566 ug/l #	100
37) Trichloroethene	8.84	130	26305	2.636 ug/l	92
51) Ethyl methacrylate	10.10	69	2855	0.281 ug/l	90
53) Dibromochloromethane	10.63	129	102047	11.473 ug/l #	12
56) Bromoform	12.40	173	2222	0.382 ug/l #	1
58) 4-Methyl-2-Pentanone	9.98	43	1420	0.203 ug/l #	58
61) Tetrachloroethene	10.63	164	110334	12.430 ug/l	97
77) t-1,4-Dichloro-2-butene	12.40	75	144399	59.419 ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	4731	0.576 ug/l	97
90) Hexachlorobutadiene	15.01	225	1434	0.266 ug/l	91
91) Naphthalene	15.14	128	22851	1.377 ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	5330	0.704 ug/l	88

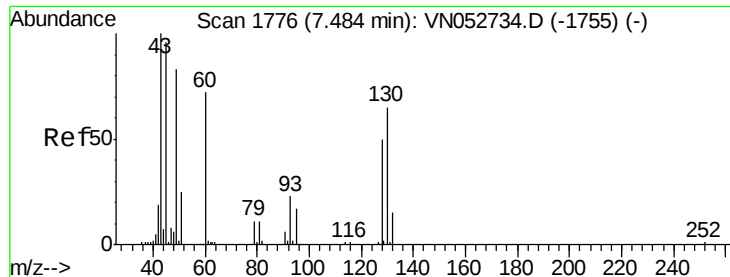
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121218\
Data File : VN052820.D
Acq On : 12 Dec 2018 12:03
Operator : MD\SY
Sample : J6355-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
2-AVE-27

Quant Time: Dec 13 03:42:23 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 27 00:48:33 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052820.D

Acq: 12 Dec 2018 12:03

Instrument :

MSVOA_N

ClientSampled :

2-AVE-27

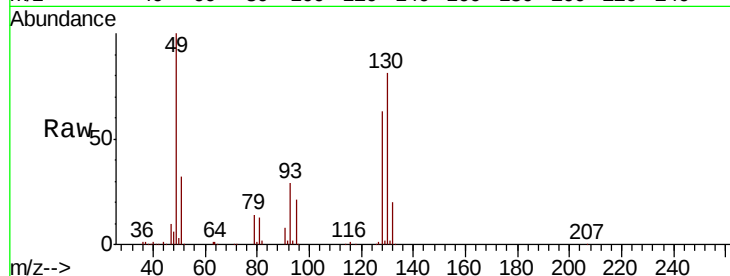
Tot Ion:128 Resp: 147587

Ion Ratio Lower Upper

128 100

49 160.4 0.0 431.8

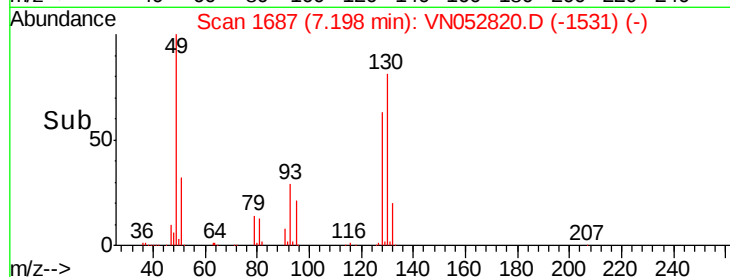
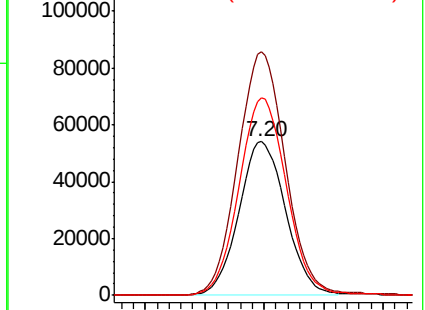
130 130.4 0.0 317.0



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



#4

Vinyl Chloride

Concen: 0.212 ug/l

RT: 2.19 min Scan# 131

Delta R.T. 0.00 min

Lab File: VN052820.D

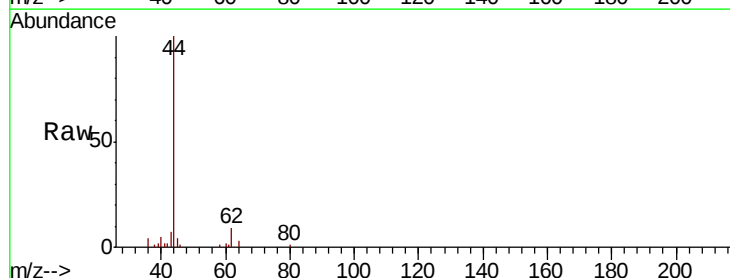
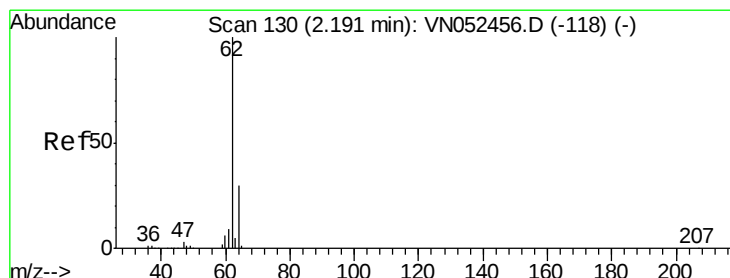
Acq: 12 Dec 2018 12:03

Tgt Ion: 62 Resp: 2383

Ion Ratio Lower Upper

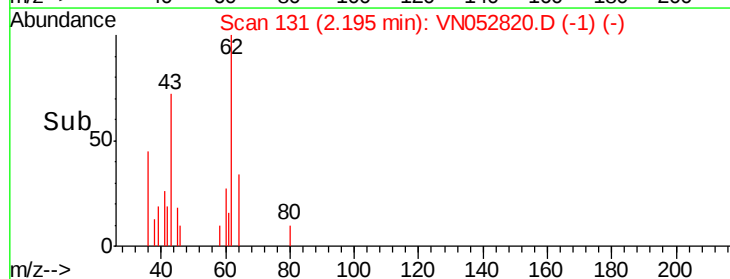
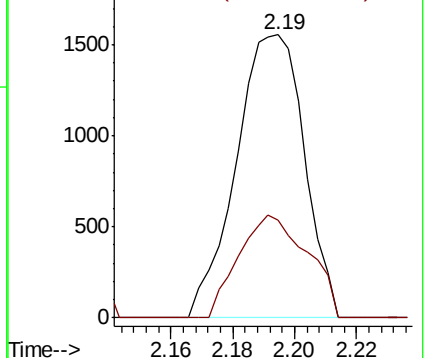
62 100

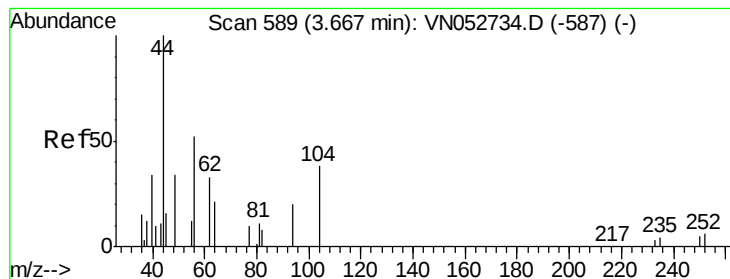
64 34.5 24.2 36.4



Abundance Ion 62.00 (61.70 to 62.70): VN

Ion 64.00 (63.70 to 64.70): VN





#13

Acrolein

Concen: 0.222 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN052820.D

Acq: 12 Dec 2018 12:03

Instrument :

MSVOA_N

ClientSampleId :

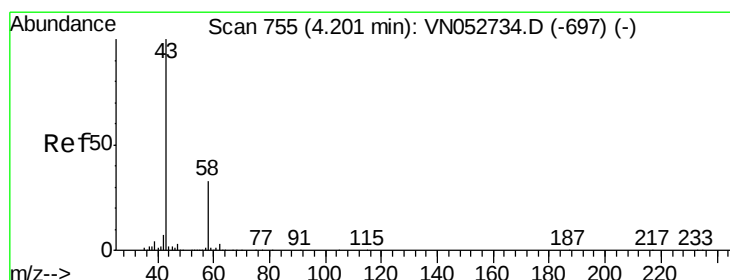
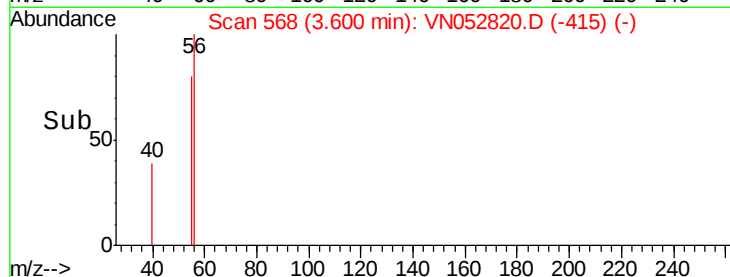
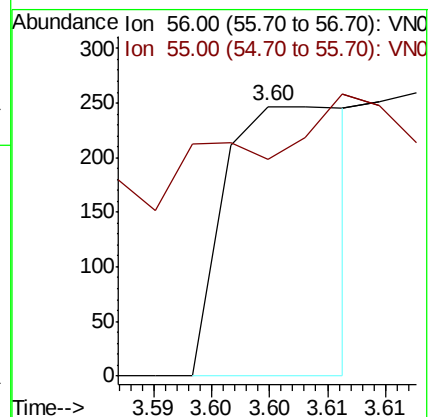
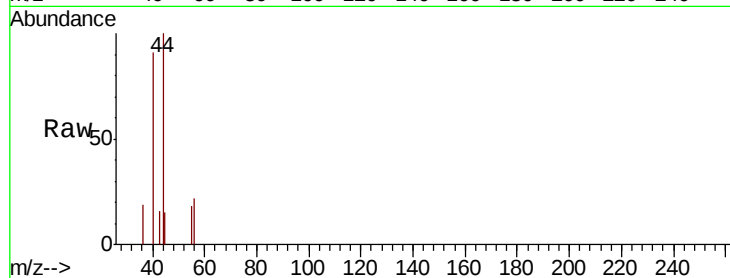
2-AVE-27

Tot Ion: 56 Resp: 183

Ion Ratio Lower Upper

56 100

55 65.6 56.7 85.1



#15

Acetone

Concen: 6.583 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN052820.D

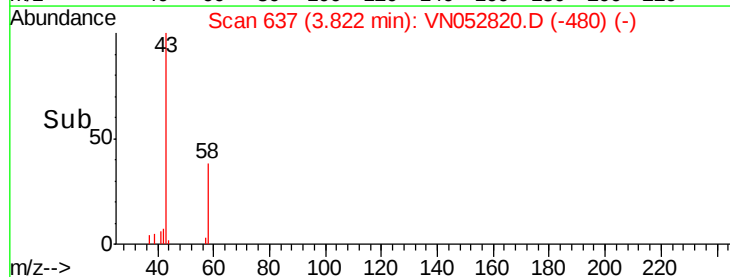
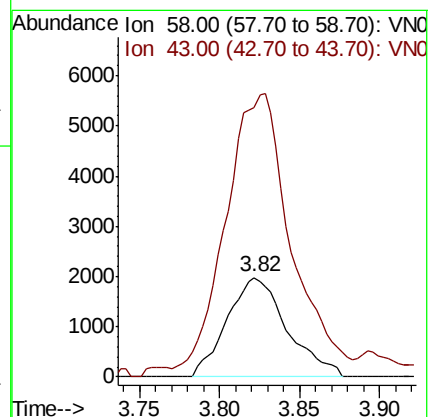
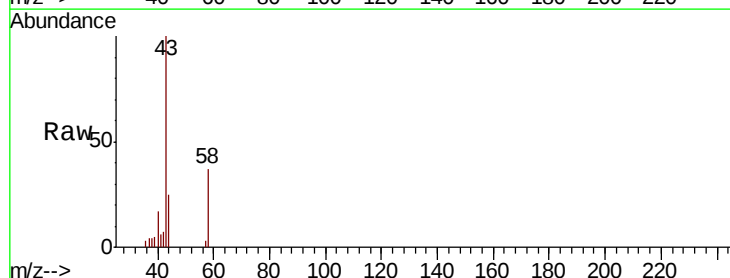
Acq: 12 Dec 2018 12:03

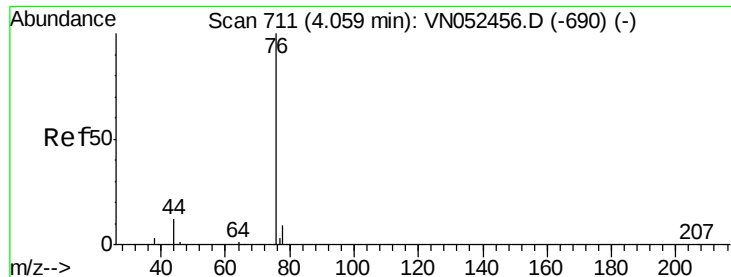
Tgt Ion: 58 Resp: 5108

Ion Ratio Lower Upper

58 100

43 247.8 243.6 365.4

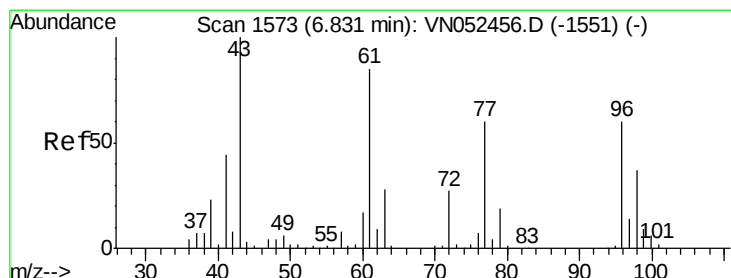
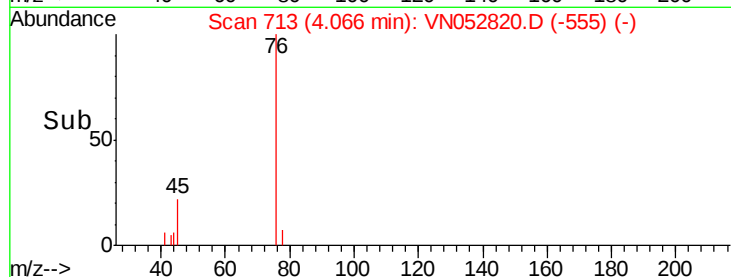
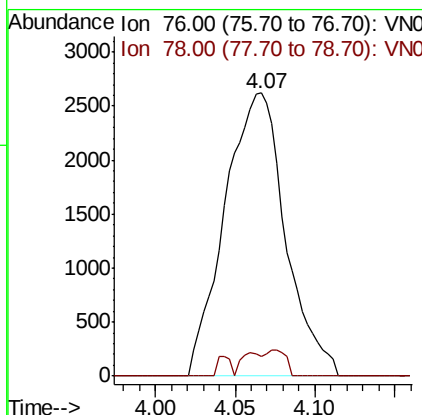
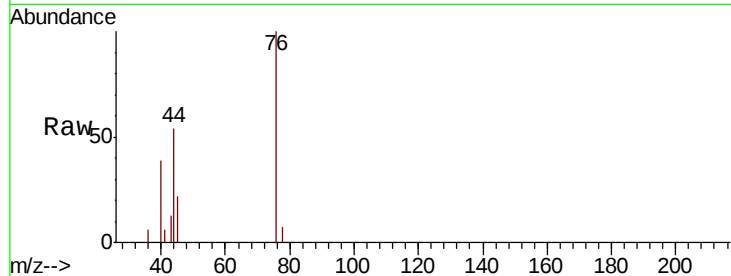




#16
Carbon Disulfide
Concen: 0.261 ug/l
RT: 4.07 min Scan# 713
Delta R.T. 0.01 min
Lab File: VN052820.D
Acq: 12 Dec 2018 12:03

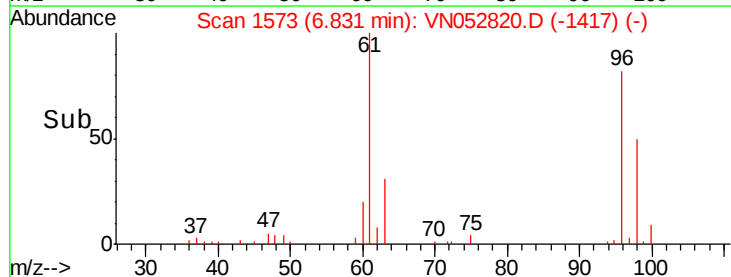
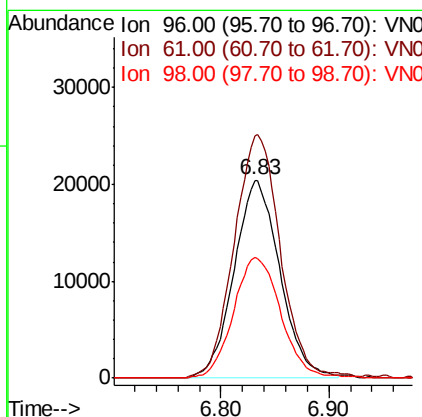
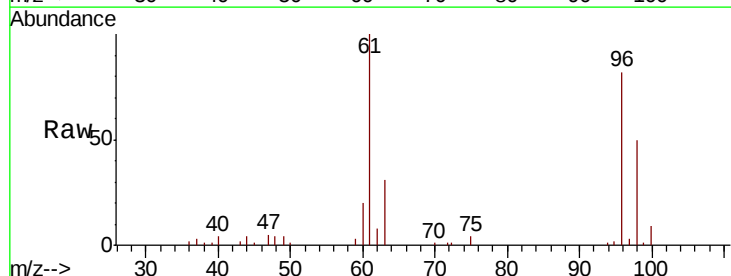
Instrument :
MSVOA_N
ClientSampled :
2-AVE-27

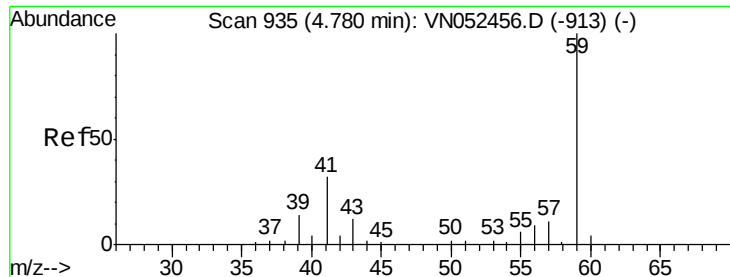
Tot Ion: 76 Resp: 6827
Ion Ratio Lower Upper
76 100
78 6.8 7.3 10.9#



#22
cis-1,2-Dichloroethene
Concen: 5.903 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN052820.D
Acq: 12 Dec 2018 12:03

Tgt Ion: 96 Resp: 60258
Ion Ratio Lower Upper
96 100
61 123.4 116.7 175.1
98 62.9 50.8 76.2



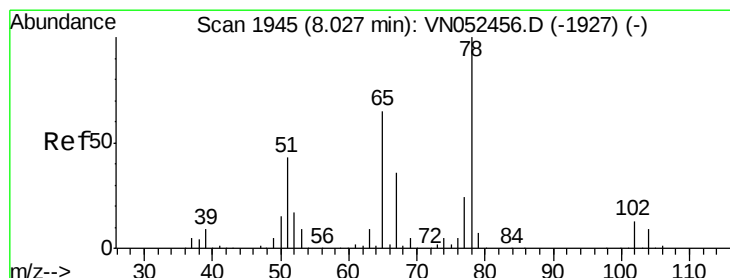
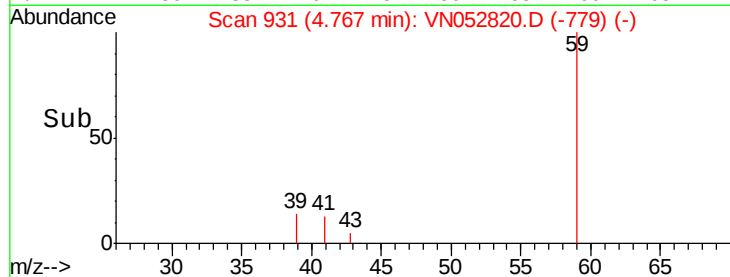
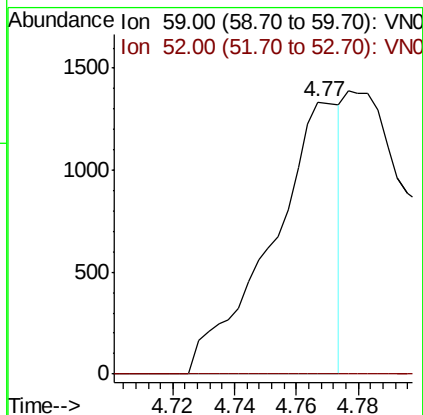
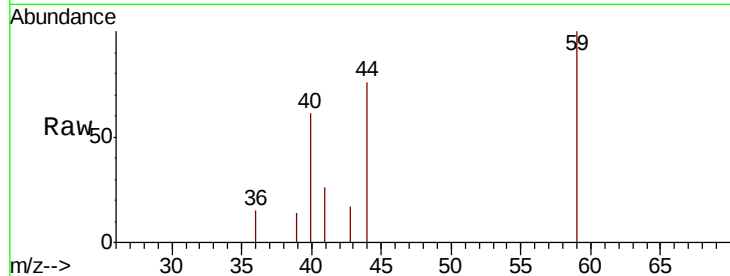


#23

tert-Butyl Alcohol
 Concen: 4.566 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. -0.01 min
 Lab File: VN052820.D
 Acq: 12 Dec 2018 12:03

Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-27

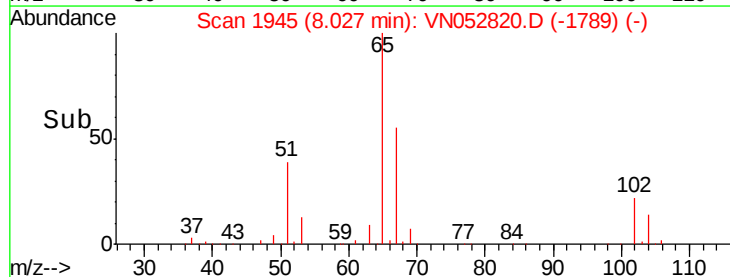
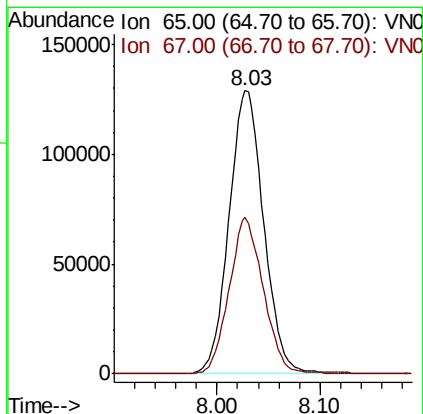
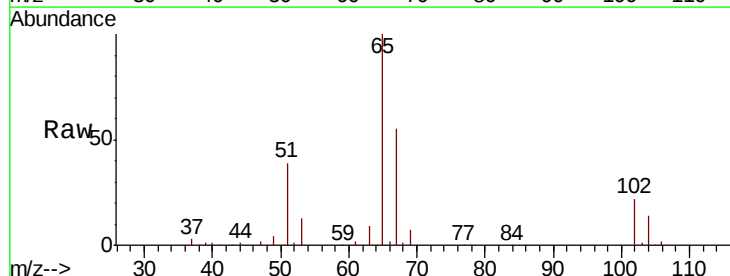
Tot Ion: 59 Resp: 2035
 Ion Ratio Lower Upper
 59 100
 52 10.9 0.0 0.0#

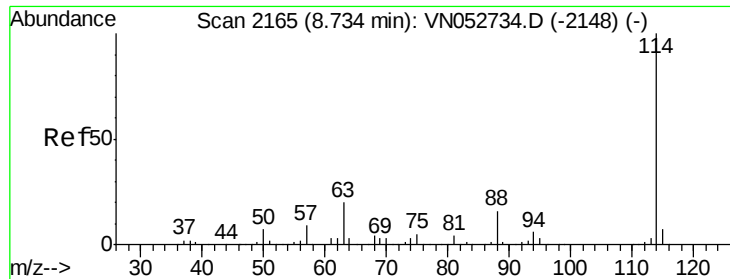


#27

1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052820.D
 Acq: 12 Dec 2018 12:03

Tgt Ion: 65 Resp: 302109
 Ion Ratio Lower Upper
 65 100
 67 54.3 44.6 66.8

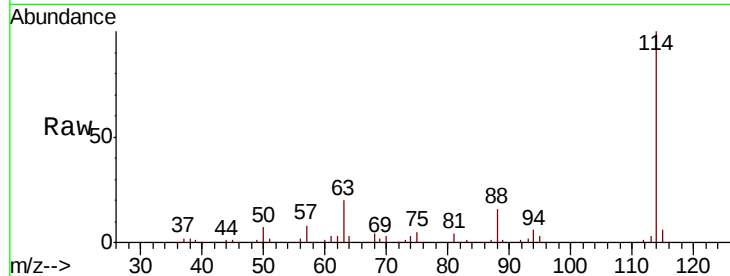




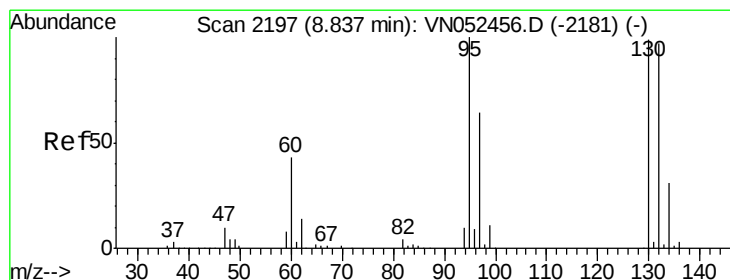
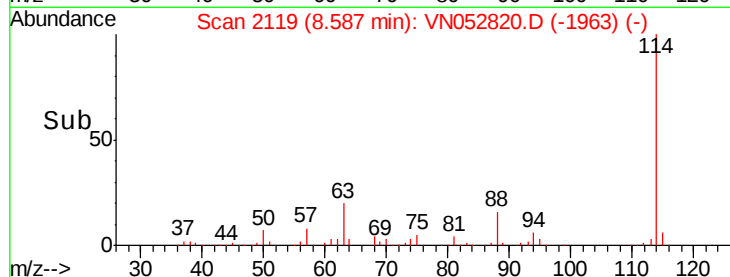
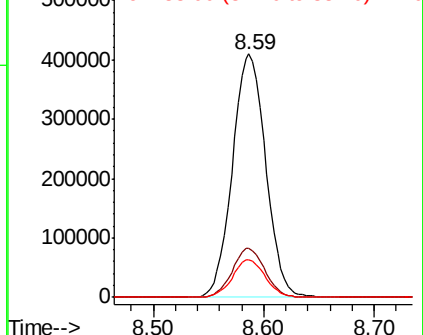
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052820.D
 Acq: 12 Dec 2018 12:03

Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-27

Tot Ion:114 Resp: 856982
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.9 25.3
 88 15.4 12.8 19.2

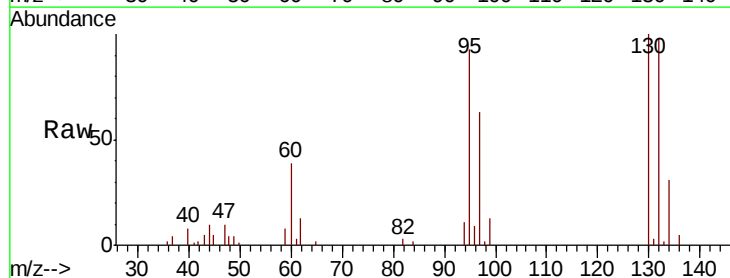


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 88.00 (87.70 to 88.70): VN

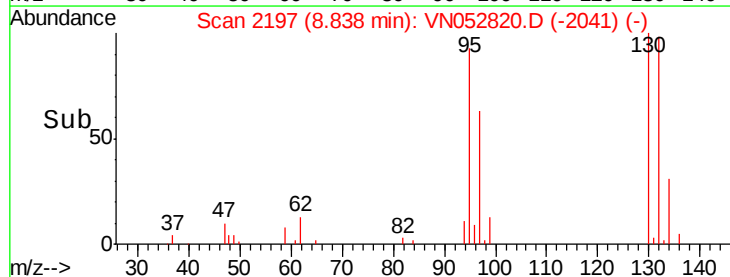
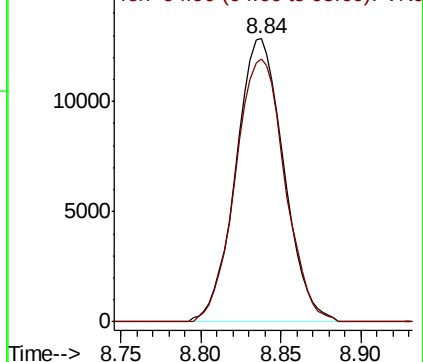


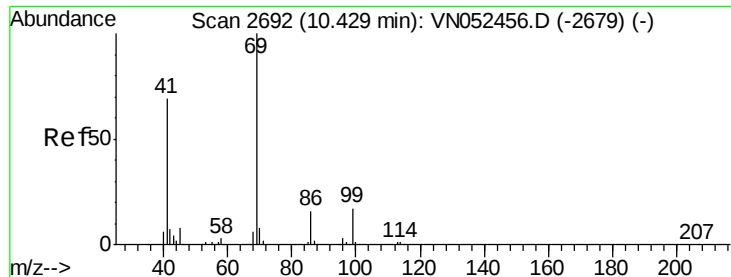
#37
 Trichloroethene
 Concen: 2.636 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN052820.D
 Acq: 12 Dec 2018 12:03

Tgt Ion:130 Resp: 26305
 Ion Ratio Lower Upper
 130 100
 95 93.0 81.0 121.4



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN





#51

Ethyl methacrylate

Concen: 0.281 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN052820.D

Acq: 12 Dec 2018 12:03

Instrument :

MSVOA_N

ClientSampled :

2-AVE-27

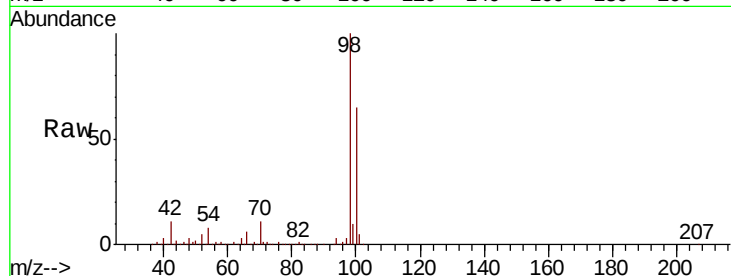
Tot Ion: 69 Resp: 2855

Ion Ratio Lower Upper

69 100

41 76.1 34.4 103.3

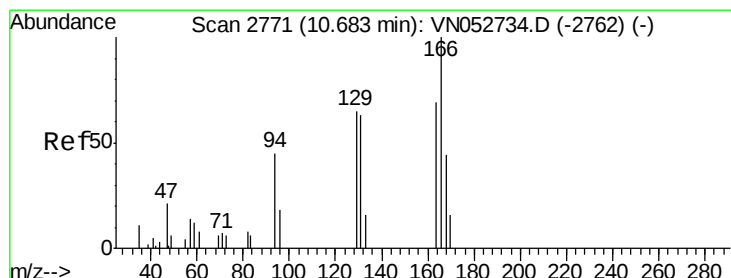
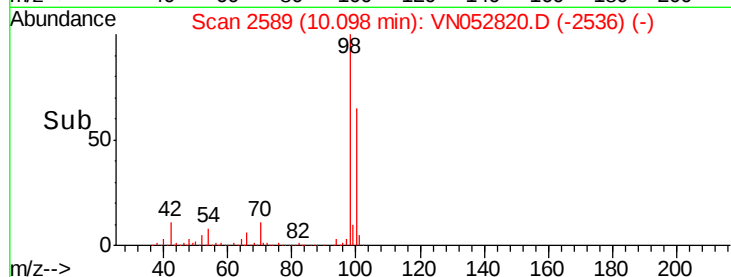
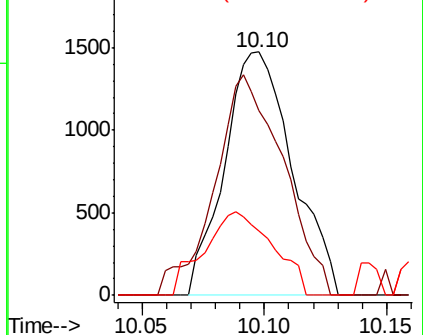
39 26.6 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN052820.D (-2536) (-)

Ion 41.00 (40.70 to 41.70): VN052820.D (-2536) (-)

Ion 39.00 (38.70 to 39.70): VN052820.D (-2536) (-)



#53

Dibromochloromethane

Concen: 11.473 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN052820.D

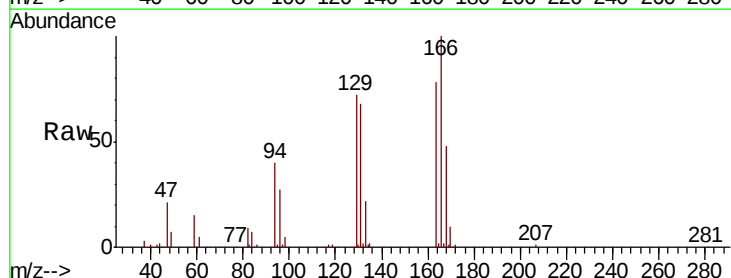
Acq: 12 Dec 2018 12:03

Tgt Ion: 129 Resp: 102047

Ion Ratio Lower Upper

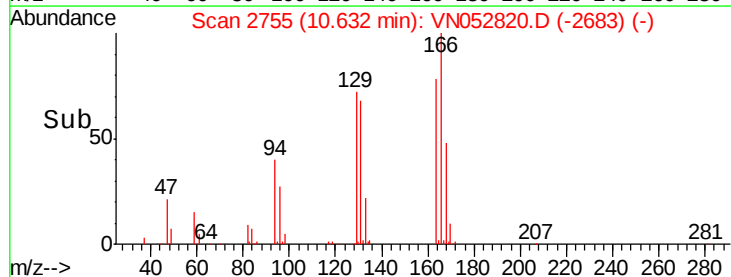
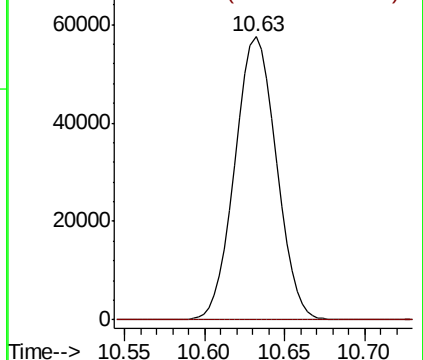
129 100

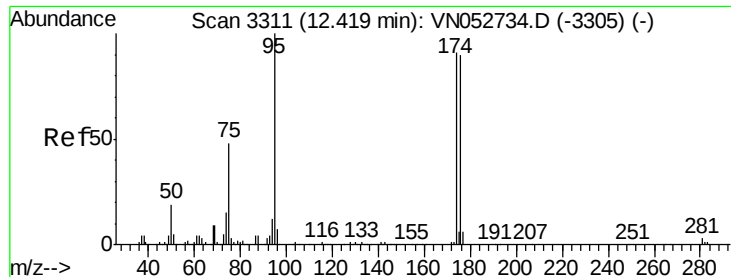
127 0.0 37.6 112.8#



Abundance Ion 129.00 (128.70 to 129.70): VN052820.D (-2683) (-)

Ion 127.00 (126.70 to 127.70): VN052820.D (-2683) (-)





#56

Bromoform

Concen: 0.382 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052820.D

Acq: 12 Dec 2018 12:03

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-27

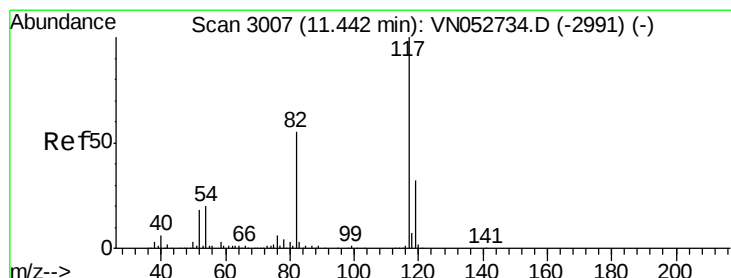
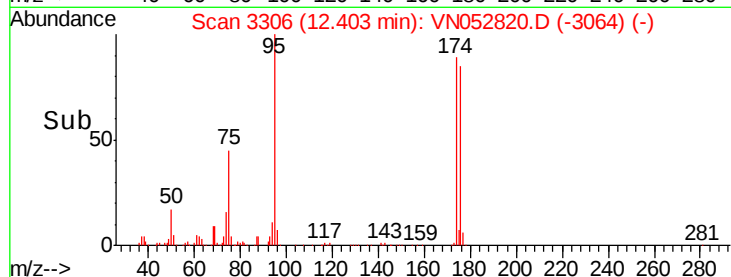
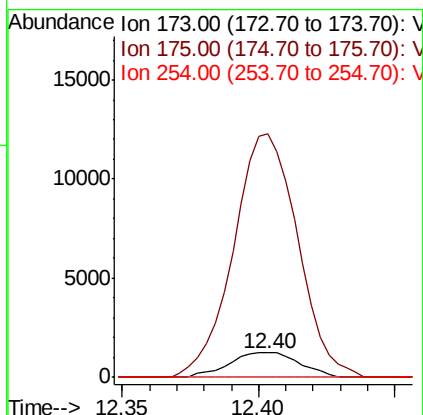
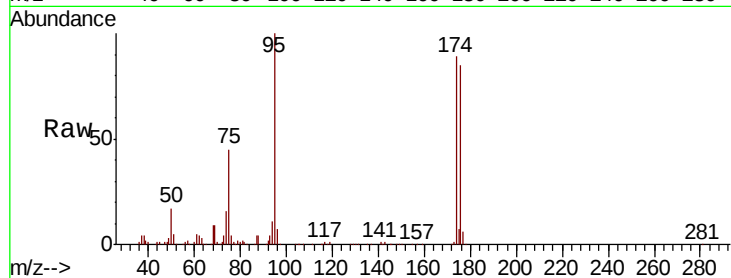
Tot Ion:173 Resp: 2222

Ion Ratio Lower Upper

173 100

175 903.6 38.7 58.1#

254 0.0 8.4 12.6#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052820.D

Acq: 12 Dec 2018 12:03

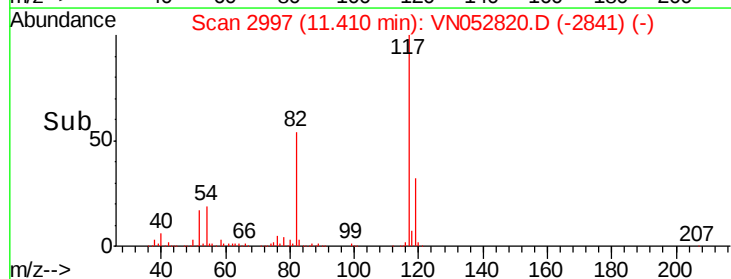
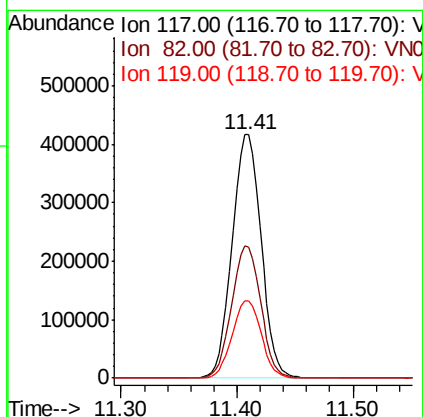
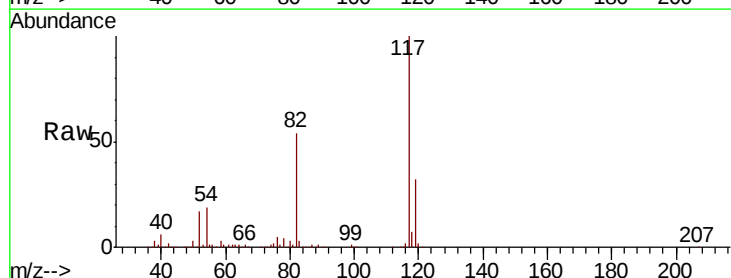
Tgt Ion:117 Resp: 720694

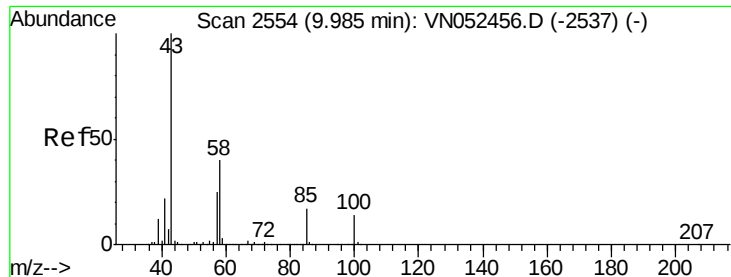
Ion Ratio Lower Upper

117 100

82 54.2 44.2 66.2

119 31.9 25.4 38.2

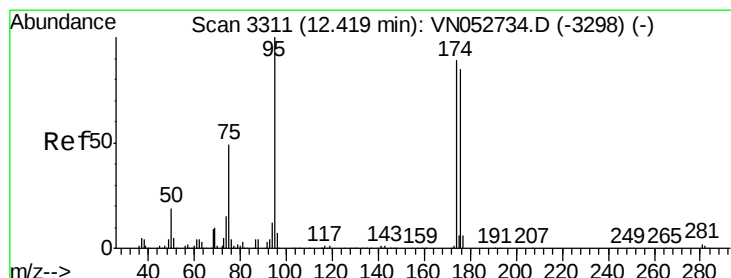
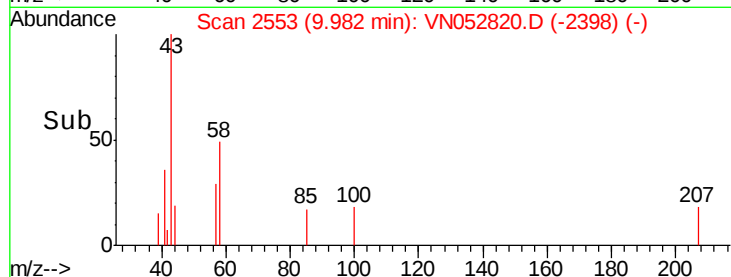
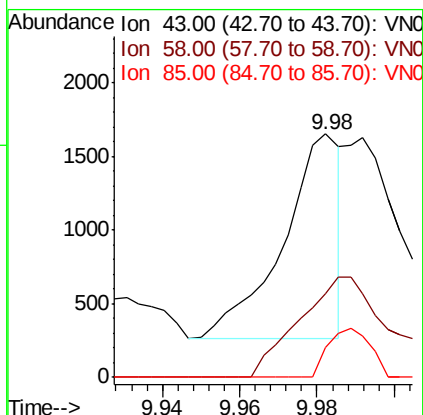
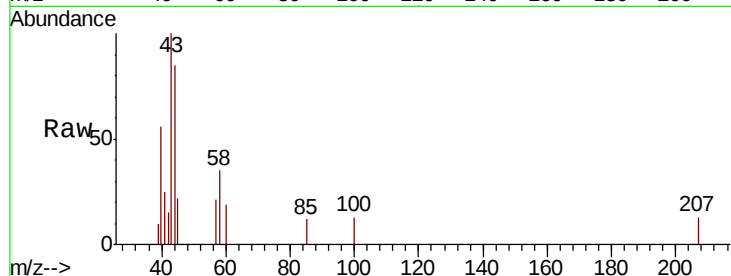




#58
4-Methyl-2-Pentanone
Concen: 0.203 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN052820.D
Acq: 12 Dec 2018 12:03

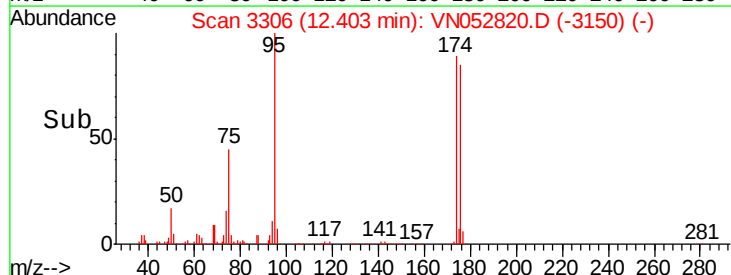
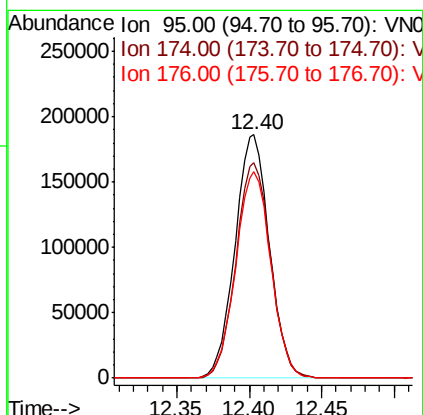
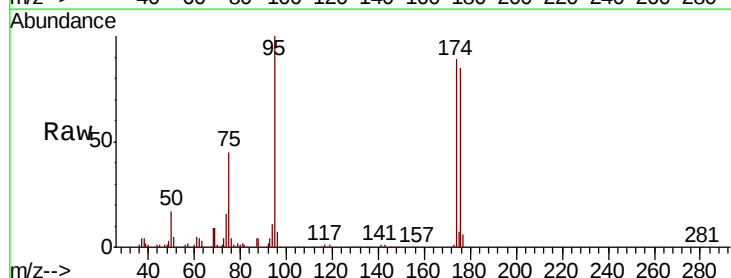
Instrument :
MSVOA_N
ClientSampleId :
2-AVE-27

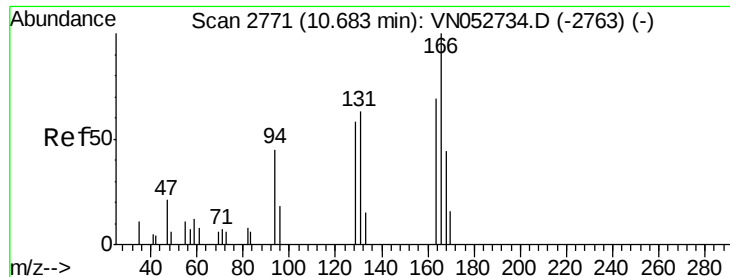
Tot Ion: 43 Resp: 1420
Ion Ratio Lower Upper
43 100
58 75.3 31.6 47.4#
85 17.5 13.3 19.9



#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052820.D
Acq: 12 Dec 2018 12:03

Tgt Ion: 95 Resp: 307157
Ion Ratio Lower Upper
95 100
174 89.3 67.9 101.9
176 86.5 66.4 99.6





#61

Tetrachloroethene

Concen: 12.430 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052820.D

Acq: 12 Dec 2018 12:03

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-27

Tot Ion:164 Resp: 110334

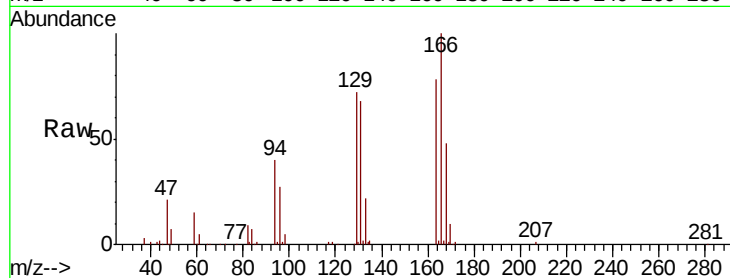
Ion Ratio Lower Upper

164 100

166 128.6 104.6 157.0

129 92.3 75.3 112.9

131 87.7 74.3 111.5

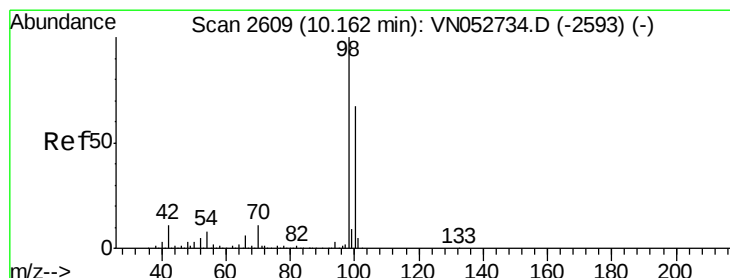
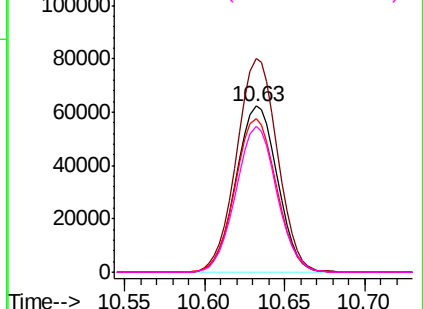
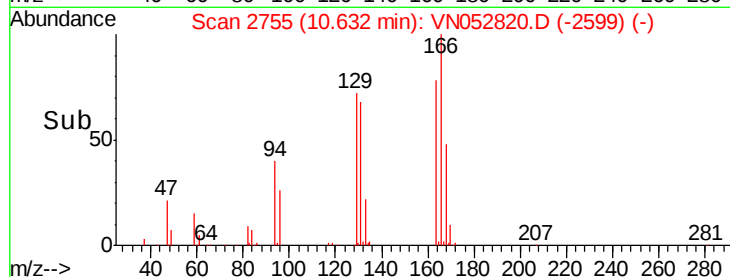


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052820.D

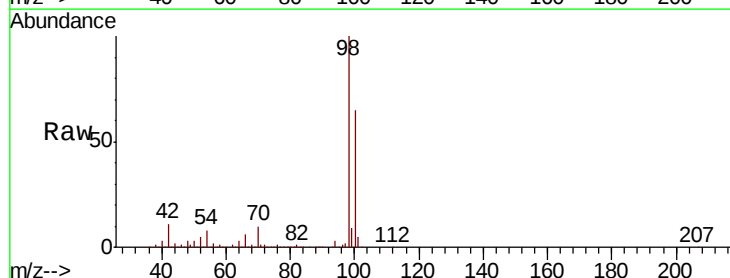
Acq: 12 Dec 2018 12:03

Tgt Ion: 98 Resp: 982652

Ion Ratio Lower Upper

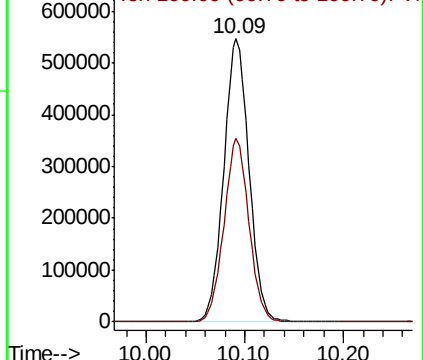
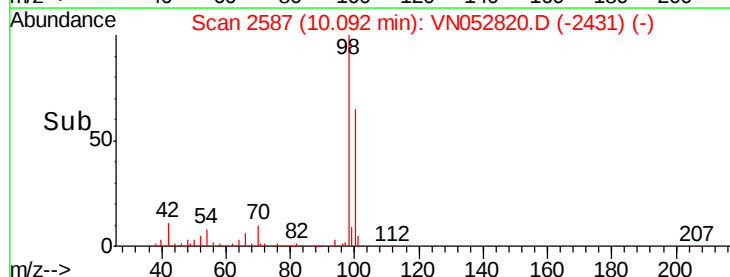
98 100

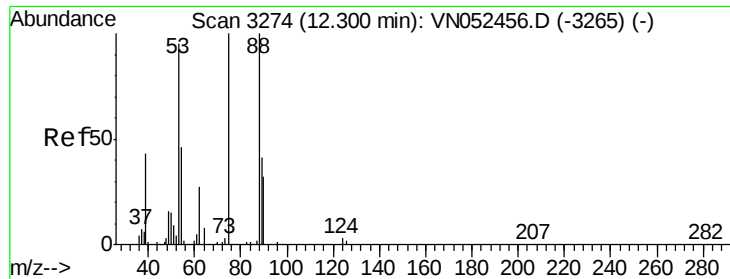
100 64.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

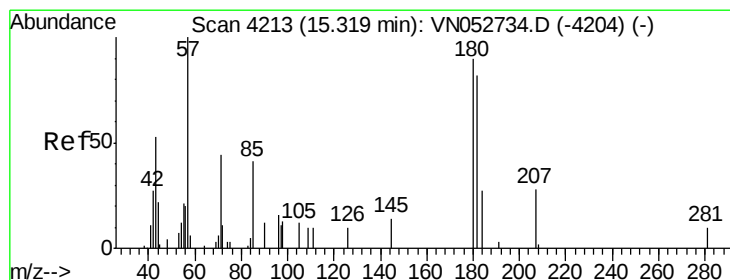
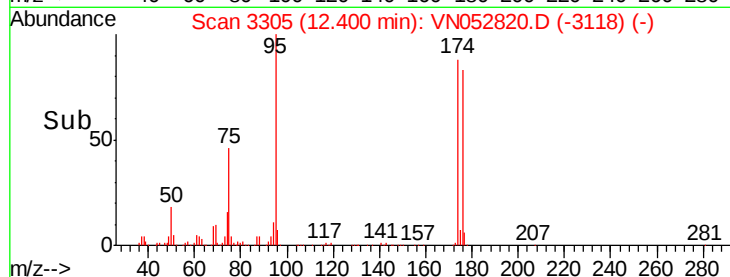
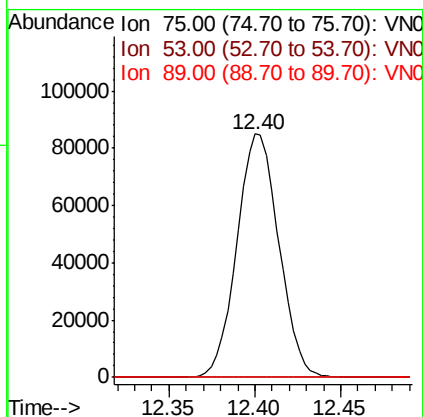
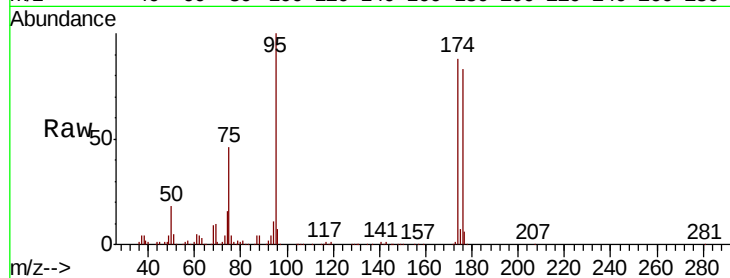




#77
t-1,4-Dichloro-2-butene
Concen: 59.419 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN052820.D
Acq: 12 Dec 2018 12:03

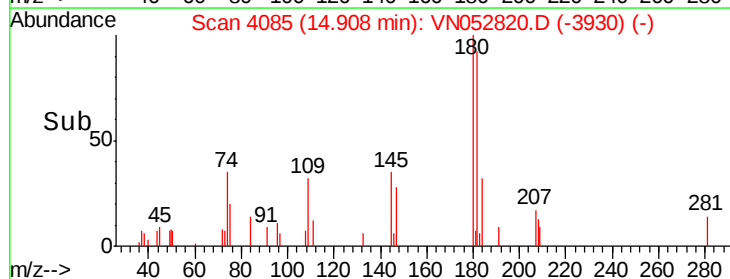
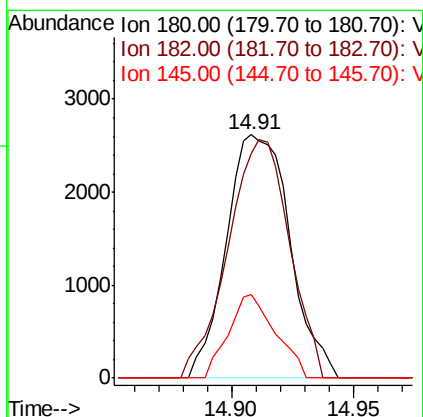
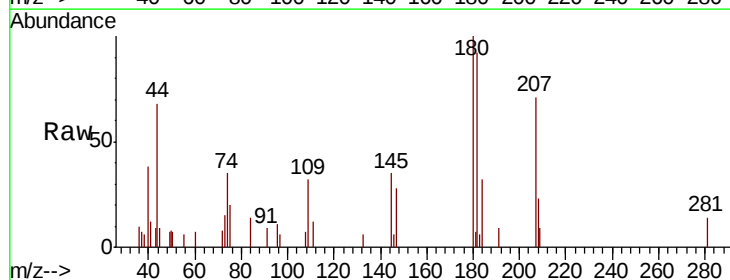
Instrument :
MSVOA_N
ClientSampled :
2-AVE-27

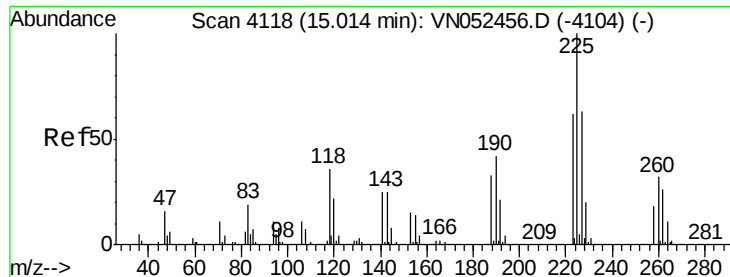
Tot Ion: 75 Resp: 144399
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.6#
89 0.0 21.7 65.1#



#89
1,2,4-Trichlorobenzene
Concen: 0.576 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. -0.00 min
Lab File: VN052820.D
Acq: 12 Dec 2018 12:03

Tgt Ion: 180 Resp: 4731
Ion Ratio Lower Upper
180 100
182 94.7 76.6 114.8
145 25.4 23.6 35.4

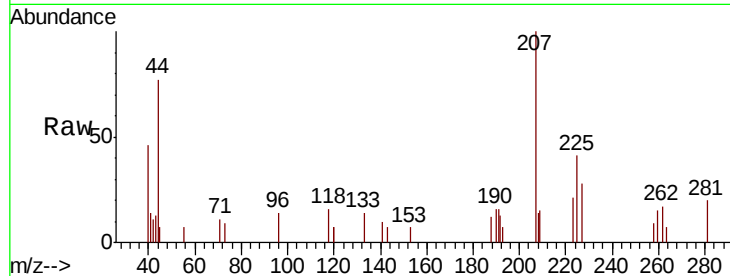




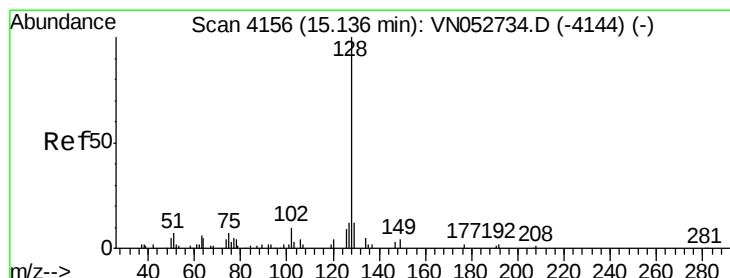
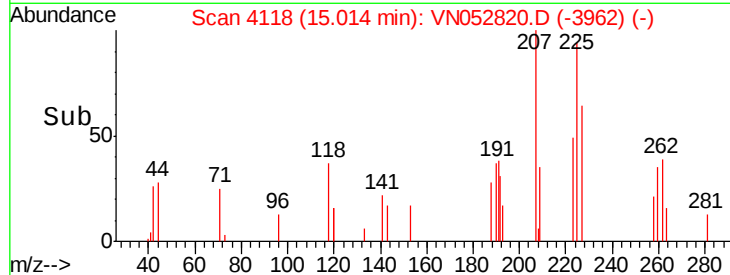
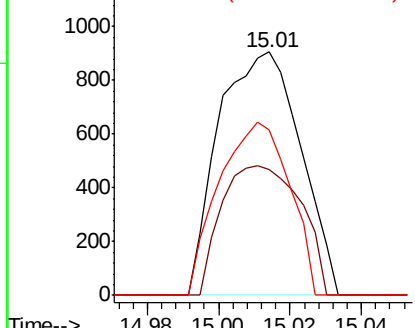
#90
Hexachlorobutadiene
Concen: 0.266 ug/l
RT: 15.01 min Scan# 4118
Delta R.T. 0.00 min
Lab File: VN052820.D
Acq: 12 Dec 2018 12:03

Instrument :
MSVOA_N
ClientSampled :
2-AVE-27

Tot Ion:225 Resp: 1434
Ion Ratio Lower Upper
225 100
223 51.7 0.0 125.6
227 61.4 0.0 127.8

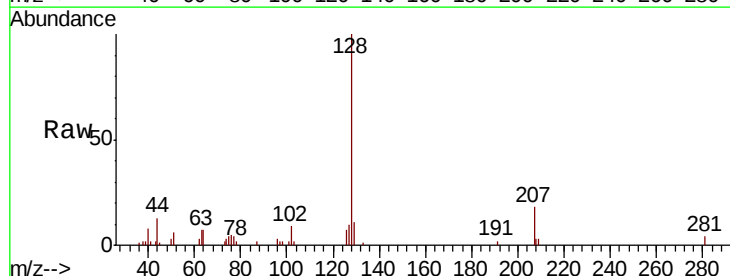


Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V

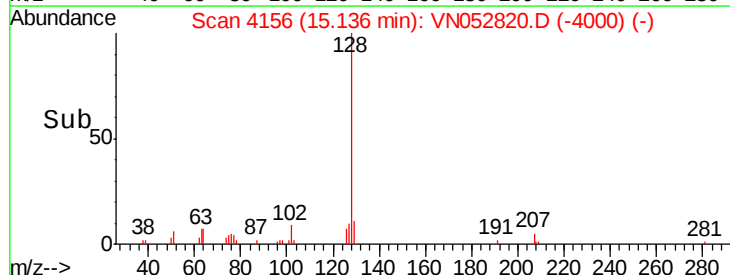
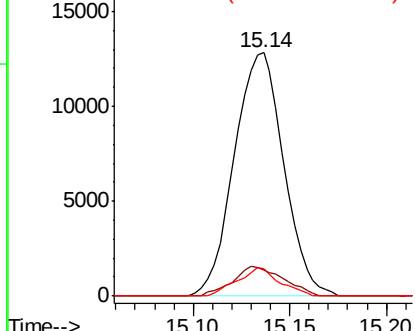


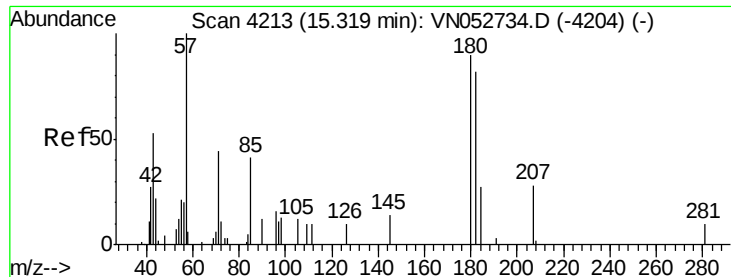
#91
Naphthalene
Concen: 1.377 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN052820.D
Acq: 12 Dec 2018 12:03

Tgt Ion:128 Resp: 22851
Ion Ratio Lower Upper
128 100
127 12.4 9.9 14.9
129 9.9 8.5 12.7



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: 0.704 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052820.D

Acq: 12 Dec 2018 12:03

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-27

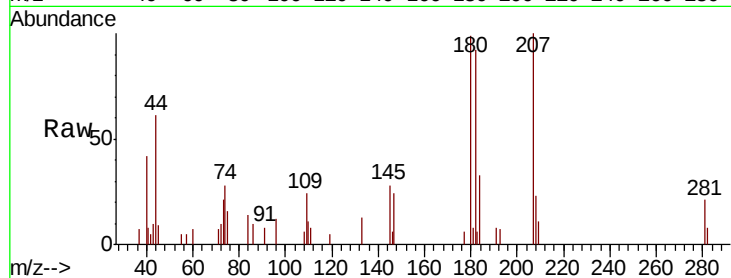
Tot Ion:180 Resp: 5330

Ion Ratio Lower Upper

180 100

182 90.4 0.0 196.2

145 16.6 0.0 62.2



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

