

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082018\
 Data File : VN050766.D
 Acq On : 20 Aug 2018 11:44
 Operator : MD\SY
 Sample : J4554-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-18

Quant Time: Aug 21 02:36:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	115247	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	588371	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	491129	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	232047	29.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.73%
60) 4-Bromofluorobenzene	12.40	95	163080	21.61	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	72.03%
63) Toluene-d8	10.09	98	698821	29.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.30%

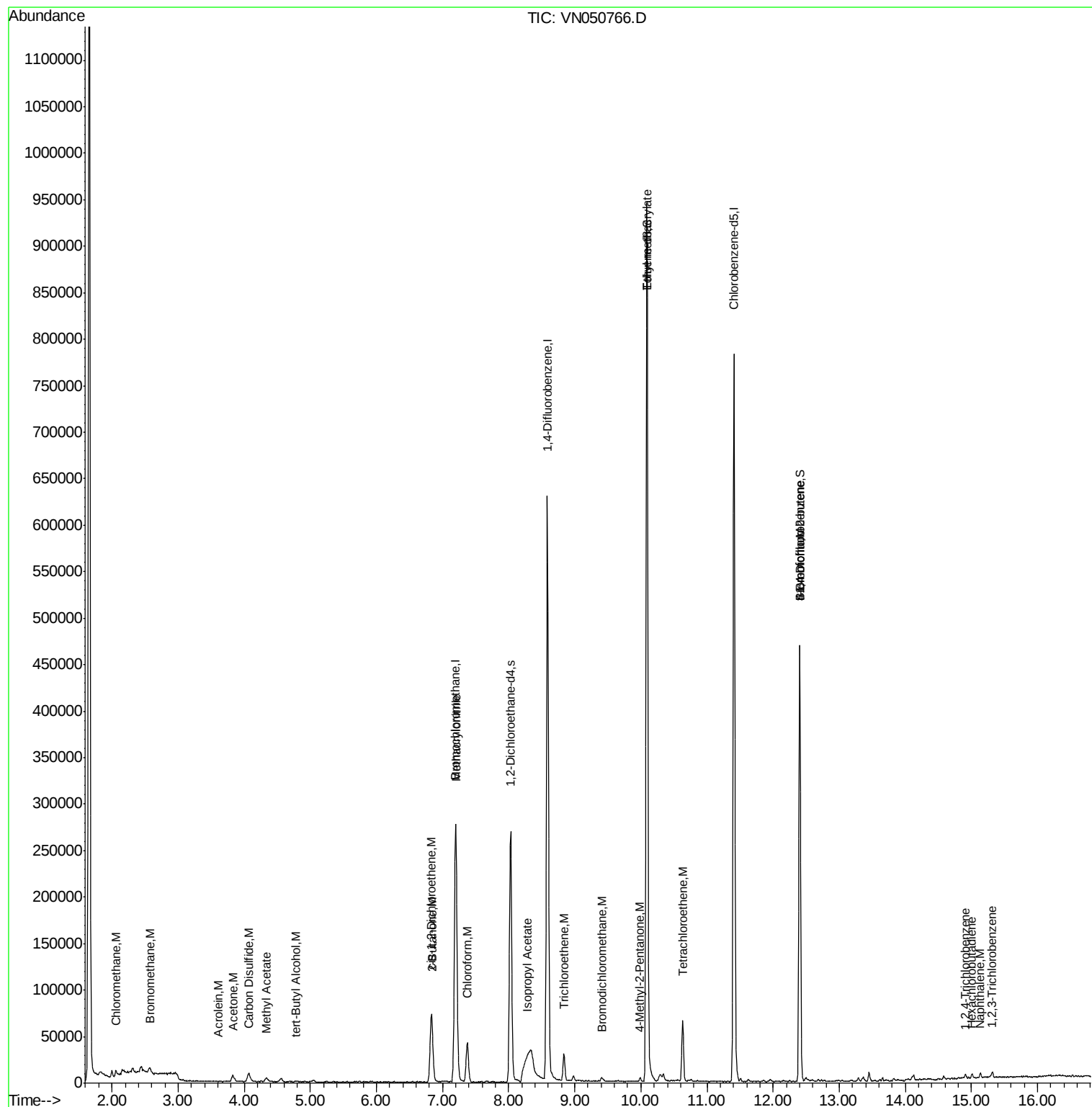
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.06	50	4144	0.51	ug/l	100
5) Bromomethane	2.57	94	3058	0.58	ug/l	84
12) Methyl Acetate	4.34	43	7288	1.04	ug/l	98
13) Acrolein	3.62	56	94	0.22	ug/l #	13
15) Acetone	3.82	58	3030	4.85	ug/l	79
16) Carbon Disulfide	4.05	76	5502	0.29	ug/l	97
22) cis-1,2-Dichloroethene	6.83	96	49735	6.82	ug/l	91
23) tert-Butyl Alcohol	4.78	59	156	0.30	ug/l #	100
25) Chloroform	7.37	83	44960	3.55	ug/l	96
30) 2-Butanone	6.85	43	794	0.28	ug/l #	3
35) Methacrylonitrile	7.21	41	742	0.23	ug/l #	50
37) Trichloroethene	8.83	130	11010	1.51	ug/l	90
41) Bromodichloromethane	9.40	83	3195	0.34	ug/l #	83
44) Isopropyl Acetate	8.27	43	28802	2.60	ug/l #	57
51) Ethyl methacrylate	10.10	69	2250	0.29	ug/l	90
56) Bromoform	12.40	173	1471	0.28	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	2677	0.47	ug/l #	93
61) Tetrachloroethene	10.63	164	16156	2.43	ug/l	96
77) t-1,4-Dichloro-2-butene	12.40	75	77958	36.41	ug/l #	14
89) 1,2,4-Trichlorobenzene	14.91	180	1761	0.29	ug/l #	92
90) Hexachlorobutadiene	15.00	225	1091	0.27	ug/l	88
91) Naphthalene	15.14	128	4475	7.88	ug/l	97
92) 1,2,3-Trichlorobenzene	15.31	180	2011	0.33	ug/l	79

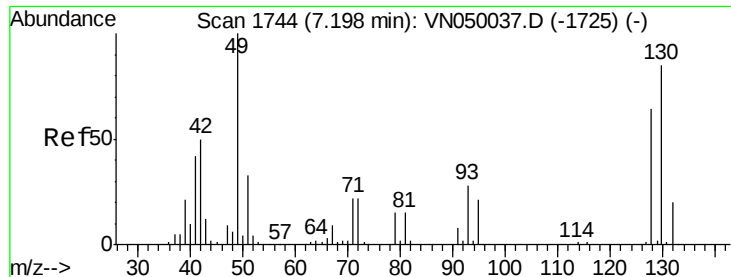
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050766.D

Acq: 20 Aug 2018 11:44

Instrument :

MSVOA_N

ClientSampled :

2-AVE-18

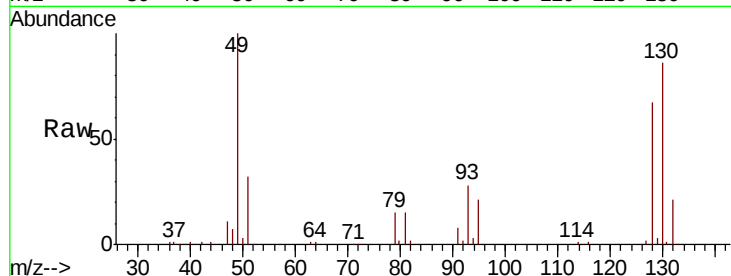
Tot Ion:128 Resp: 115247

Ion Ratio Lower Upper

128 100

49 153.5 0.0 378.3

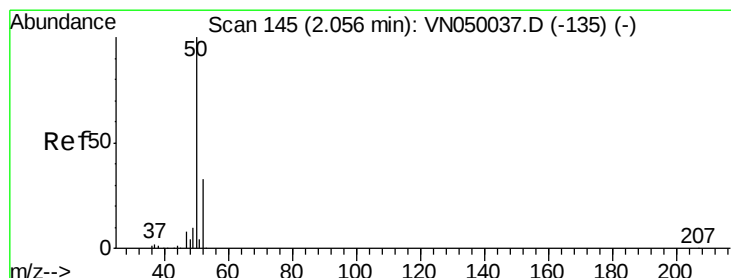
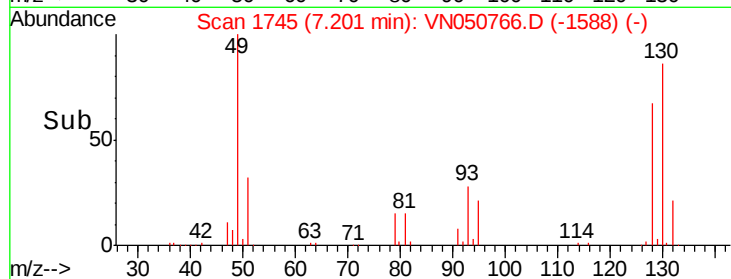
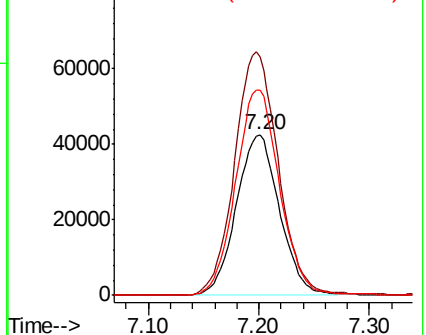
130 129.8 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.51 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050766.D

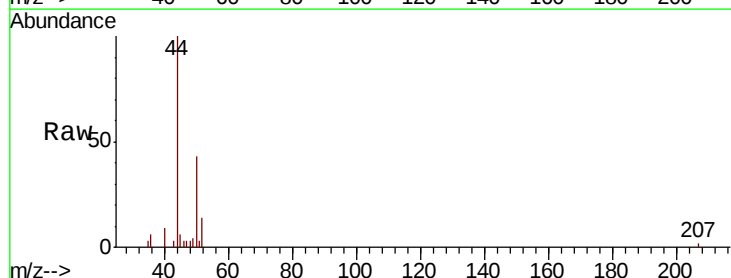
Acq: 20 Aug 2018 11:44

Tgt Ion: 50 Resp: 4144

Ion Ratio Lower Upper

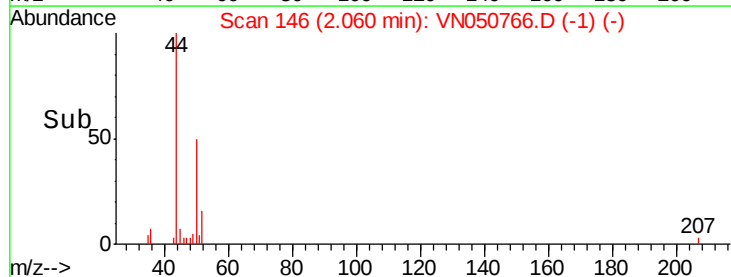
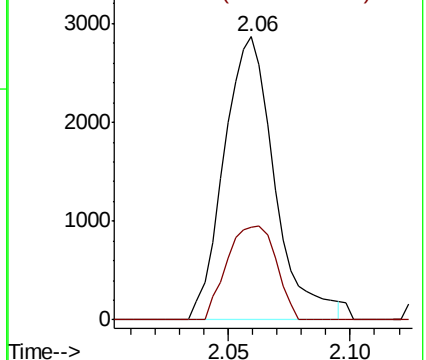
50 100

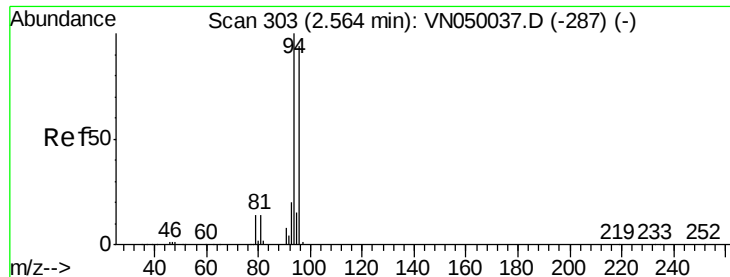
52 32.6 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.58 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050766.D

Acq: 20 Aug 2018 11:44

Instrument :

MSVOA_N

ClientSampleId :

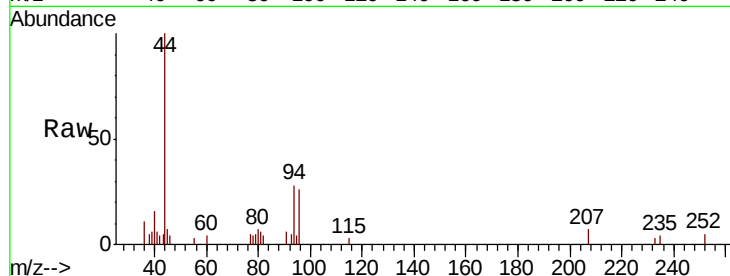
2-AVE-18

Tot Ion: 94 Resp: 3058

Ion Ratio Lower Upper

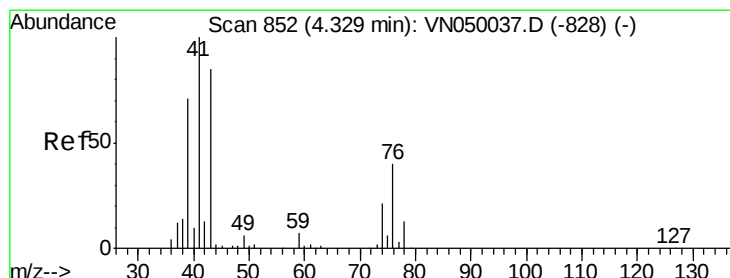
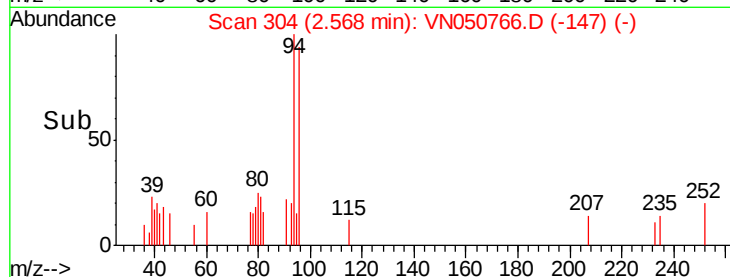
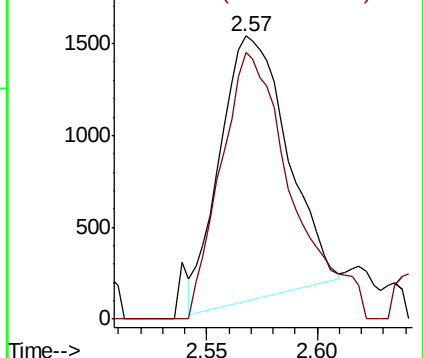
94 100

96 110.1 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#12

Methyl Acetate

Concen: 1.04 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050766.D

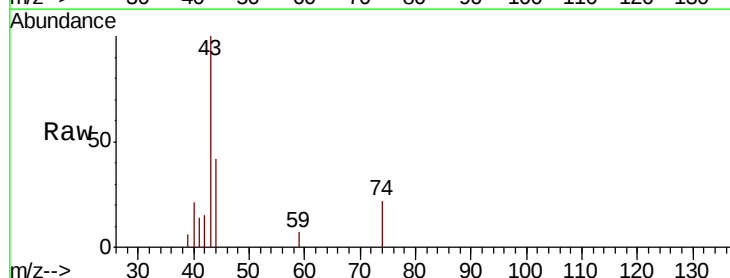
Acq: 20 Aug 2018 11:44

Tgt Ion: 43 Resp: 7288

Ion Ratio Lower Upper

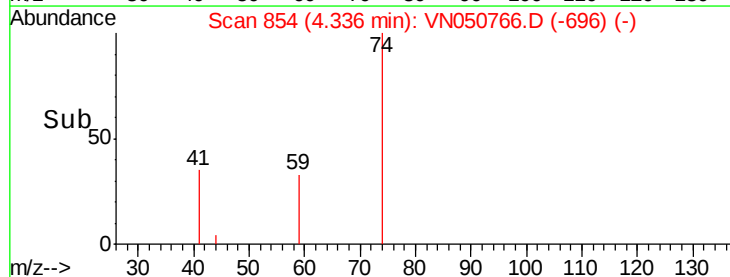
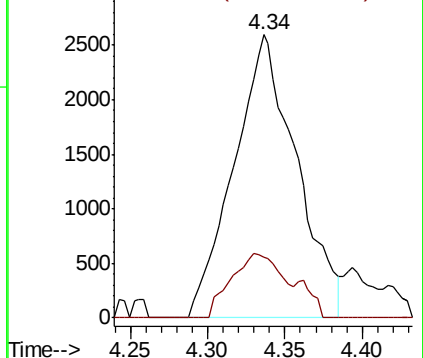
43 100

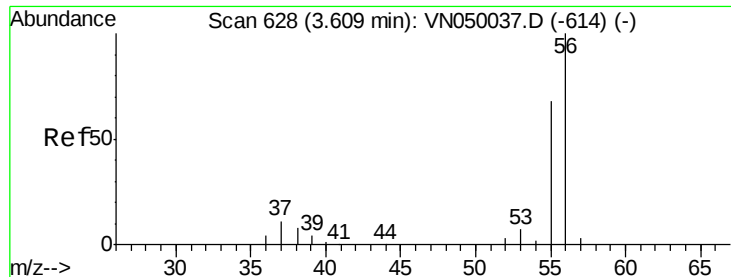
74 23.3 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.22 ug/l

RT: 3.62 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN050766.D

Acq: 20 Aug 2018 11:44

Instrument :

MSVOA_N

ClientSampled :

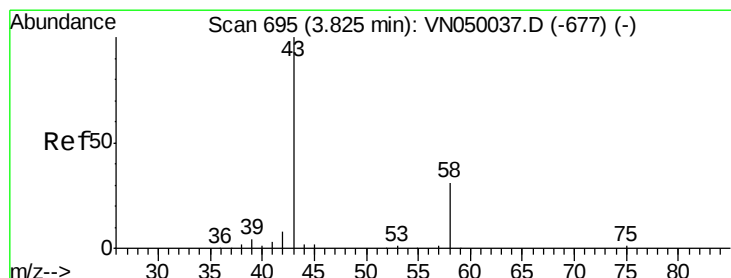
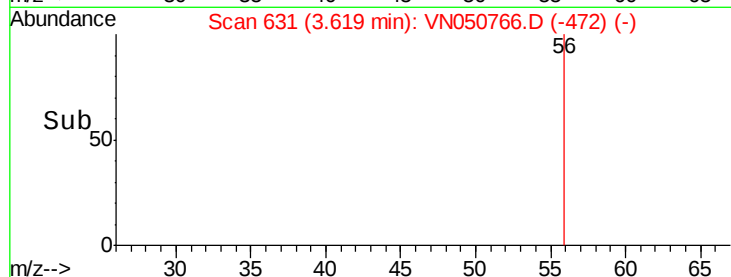
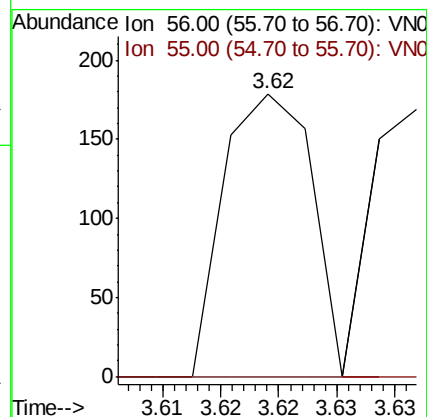
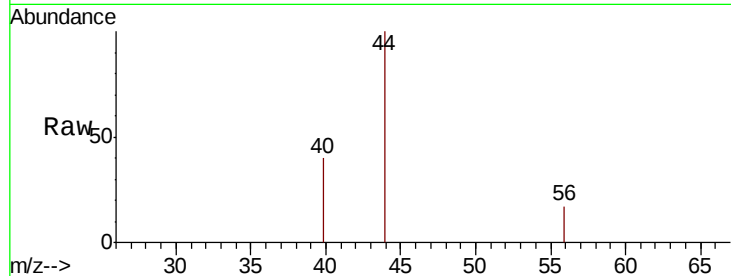
2-AVE-18

Tot Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

55 0.0 58.6 88.0#



#15

Acetone

Concen: 4.85 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050766.D

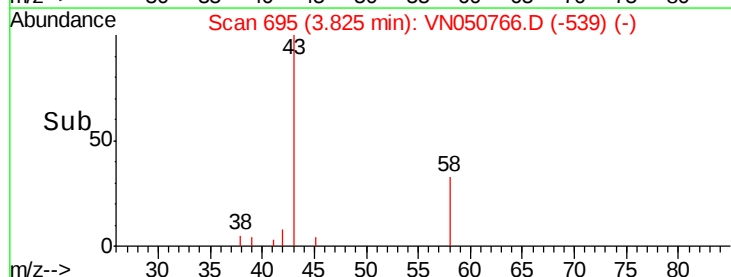
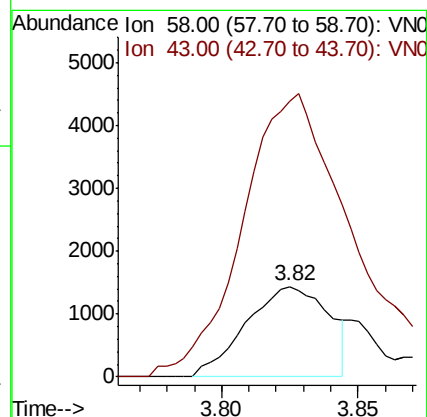
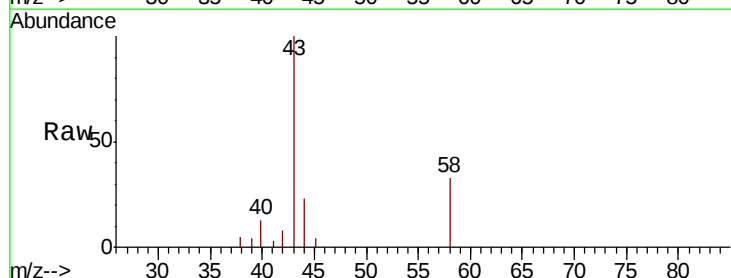
Acq: 20 Aug 2018 11:44

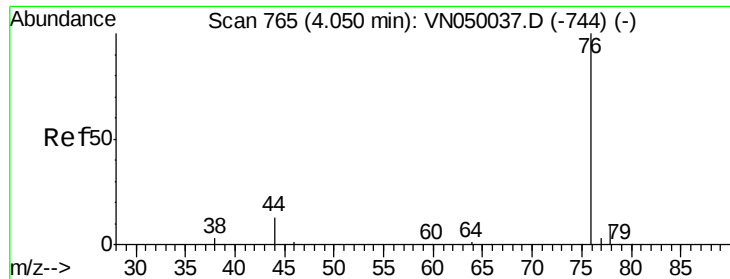
Tgt Ion: 58 Resp: 3030

Ion Ratio Lower Upper

58 100

43 271.6 252.0 378.0

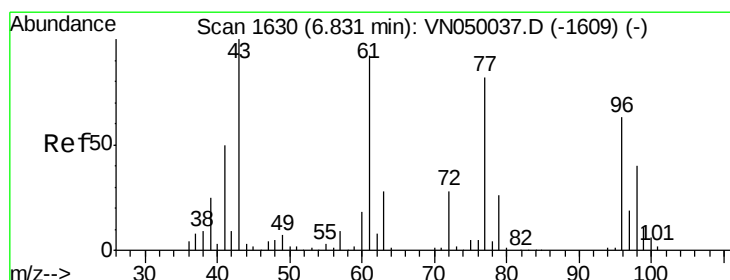
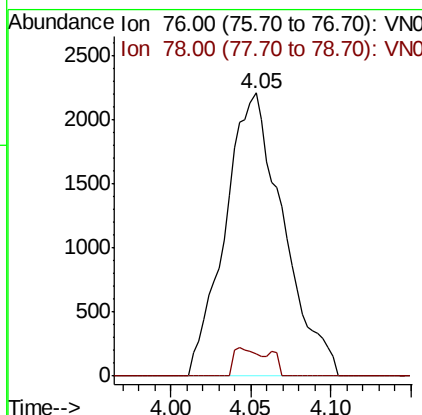
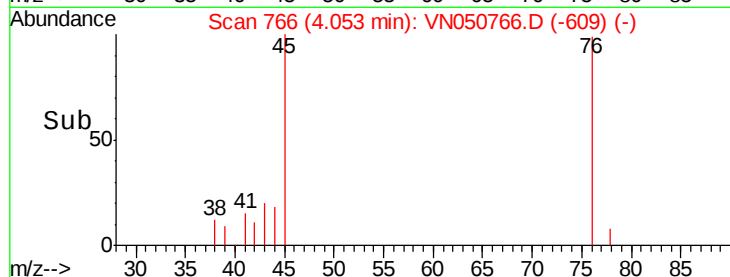
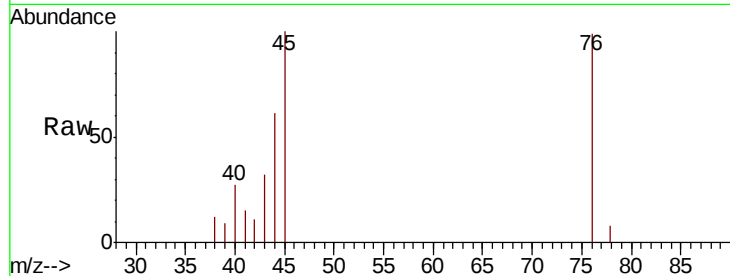




#16
Carbon Disulfide
Concen: 0.29 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050766.D
Acq: 20 Aug 2018 11:44

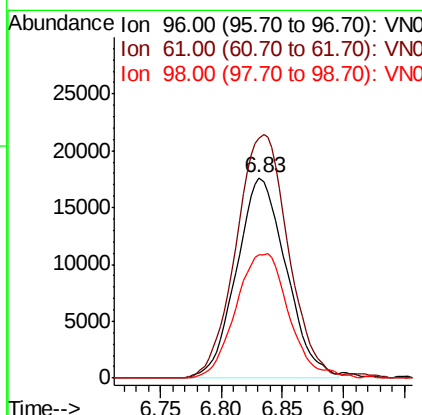
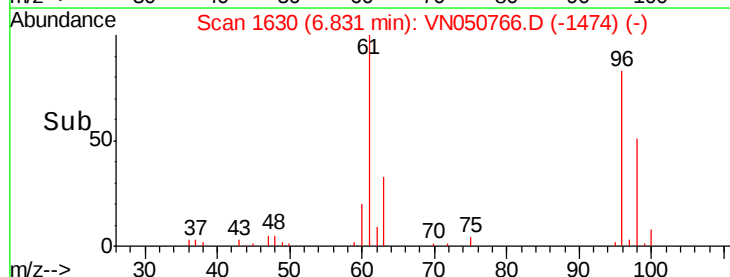
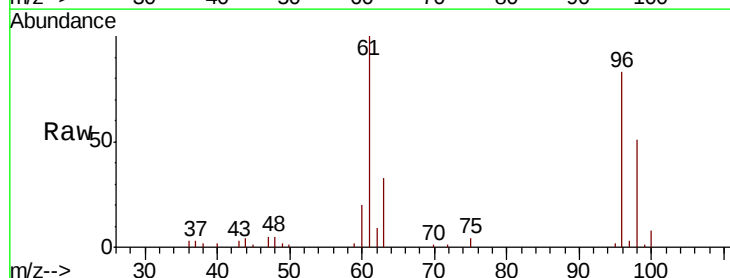
Instrument :
MSVOA_N
ClientSampled :
2-AVE-18

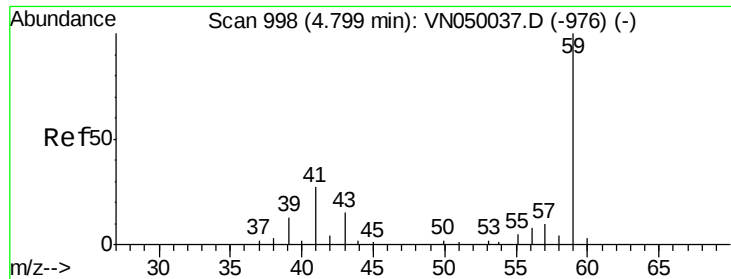
Tot Ion: 76 Resp: 5502
Ion Ratio Lower Upper
76 100
78 8.0 7.3 10.9



#22
cis-1,2-Dichloroethene
Concen: 6.82 ug/l
RT: 6.83 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VN050766.D
Acq: 20 Aug 2018 11:44

Tgt Ion: 96 Resp: 49735
Ion Ratio Lower Upper
96 100
61 127.6 114.2 171.2
98 65.1 51.7 77.5

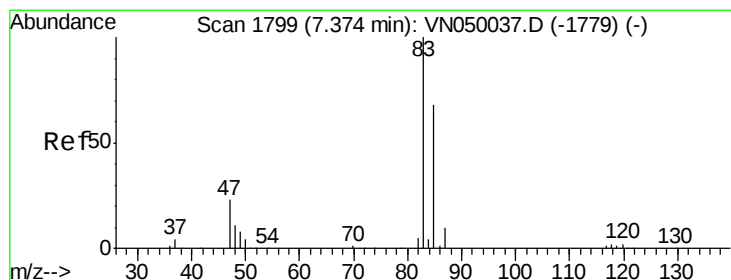
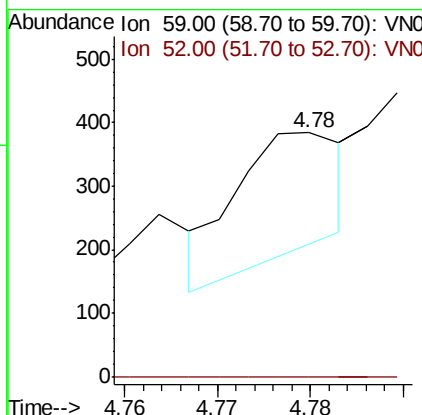
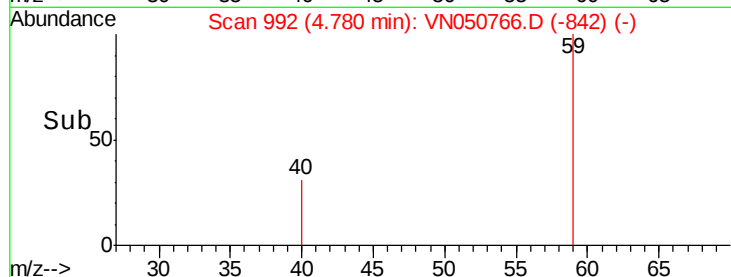
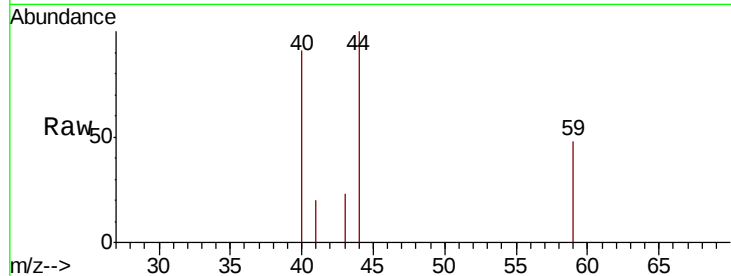




#23
 tert-Butyl Alcohol
 Concen: 0.30 ug/l
 RT: 4.78 min Scan# 992
 Delta R.T. -0.02 min
 Lab File: VN050766.D
 Acq: 20 Aug 2018 11:44

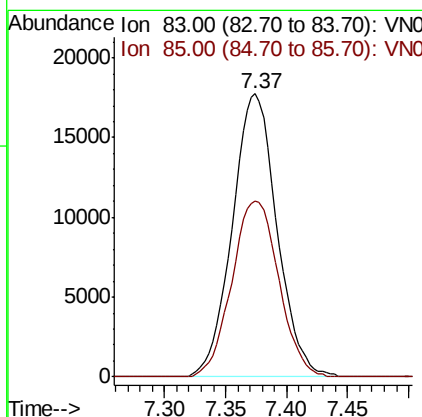
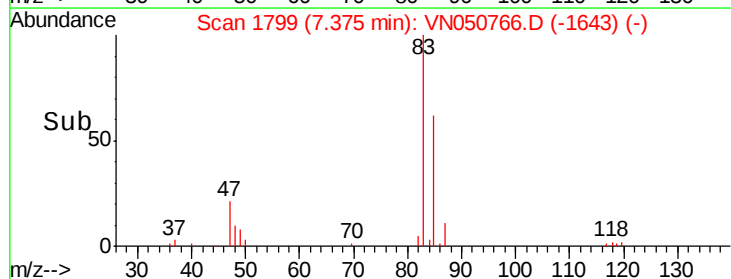
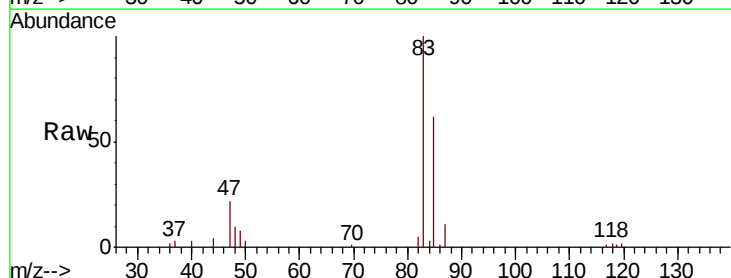
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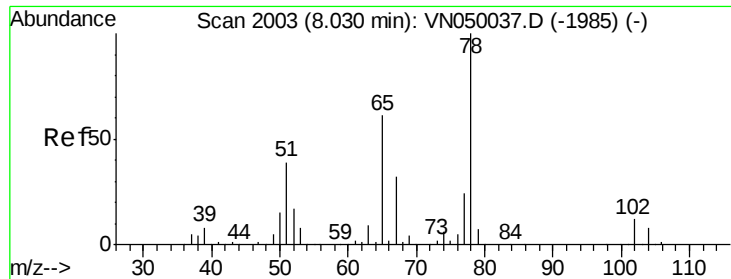
Tot Ion: 59 Resp: 156
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#



#25
 Chloroform
 Concen: 3.55 ug/l
 RT: 7.37 min Scan# 1799
 Delta R.T. 0.00 min
 Lab File: VN050766.D
 Acq: 20 Aug 2018 11:44

Tgt Ion: 83 Resp: 44960
 Ion Ratio Lower Upper
 83 100
 85 62.1 52.1 78.1





#27

1,2-Dichloroethane-d4

Concen: 29.62 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050766.D

Acq: 20 Aug 2018 11:44

Instrument :

MSVOA_N

ClientSampled :

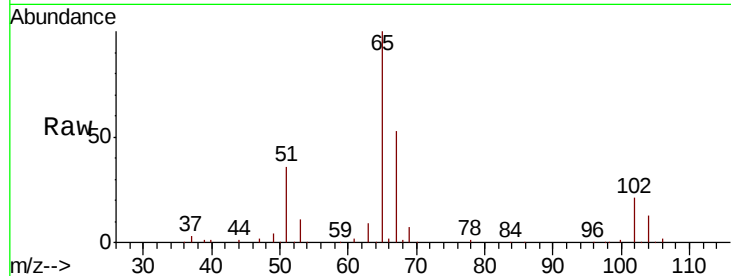
2-AVE-18

Tot Ion: 65 Resp: 232047

Ion Ratio Lower Upper

65 100

67 54.6 42.7 64.1



Abundance Ion 65.00 (64.70 to 65.70): VN050037.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050037.D (-1985) (-)

8.03

100000

80000

60000

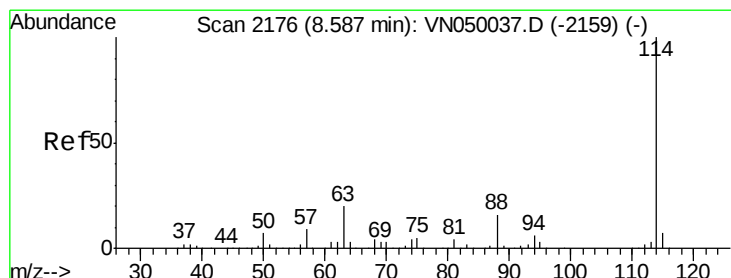
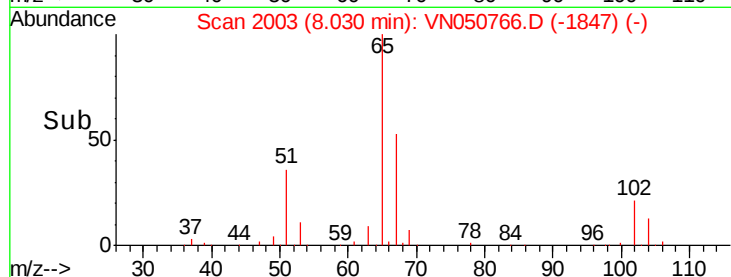
40000

20000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN050766.D

Acq: 20 Aug 2018 11:44

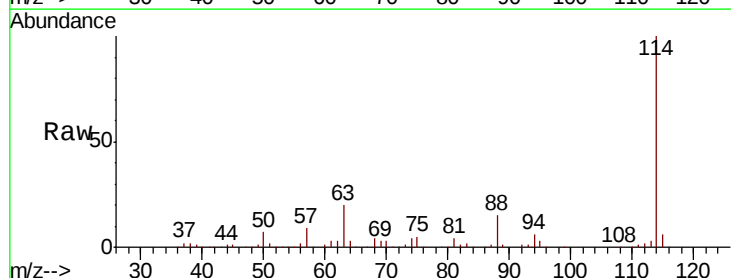
Tgt Ion: 114 Resp: 588371

Ion Ratio Lower Upper

114 100

63 19.5 16.2 24.2

88 15.0 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN050037.D (-2159) (-)

Ion 63.00 (62.70 to 63.70): VN050037.D (-2159) (-)

Ion 88.00 (87.70 to 88.70): VN050037.D (-2159) (-)

8.59

300000

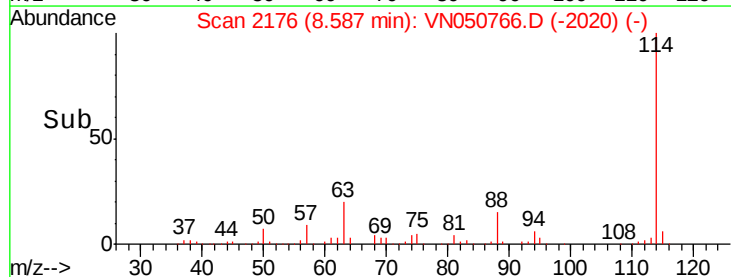
200000

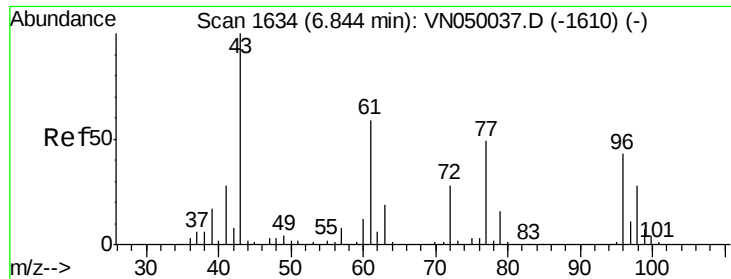
100000

0

8.50 8.55 8.60 8.65 8.70

Time-->

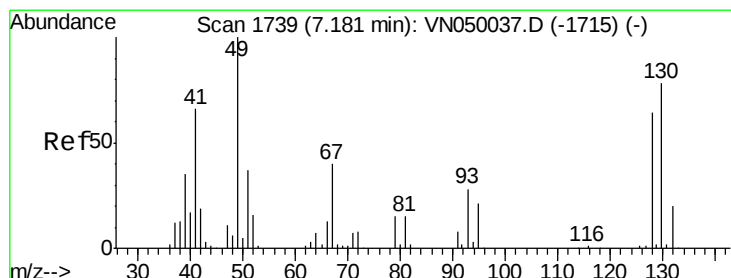
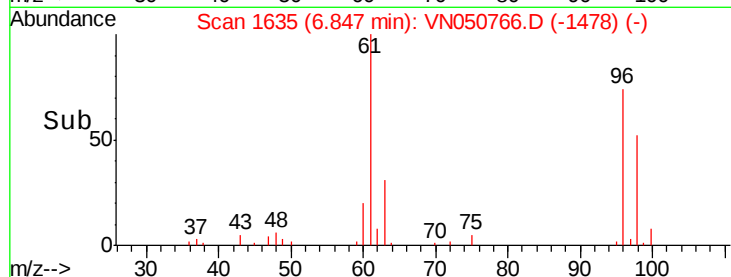
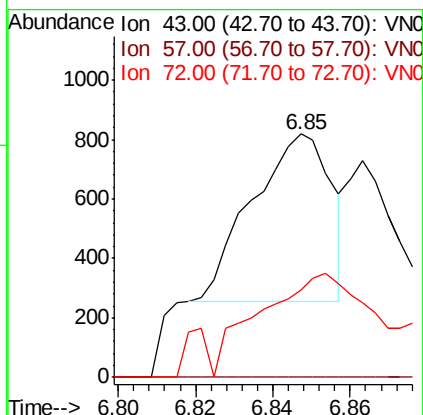
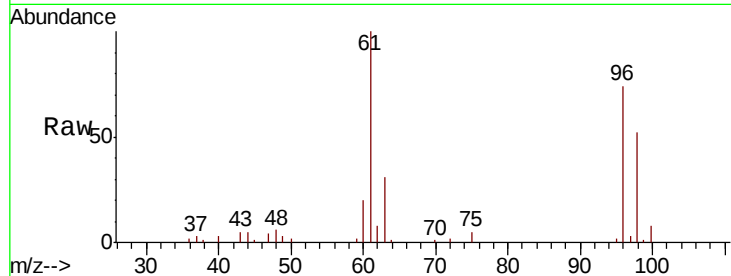




#30
2-Butanone
Concen: 0.28 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.00 min
Lab File: VN050766.D
Acq: 20 Aug 2018 11:44

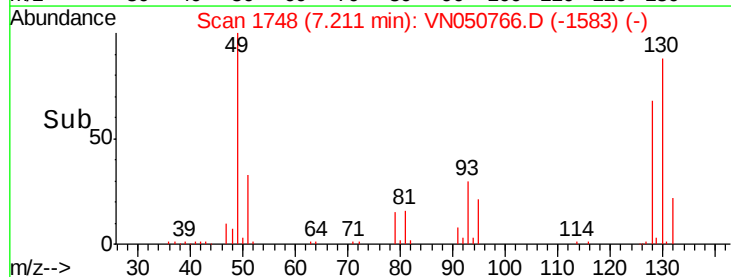
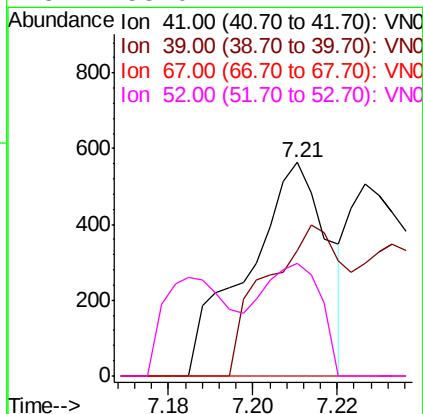
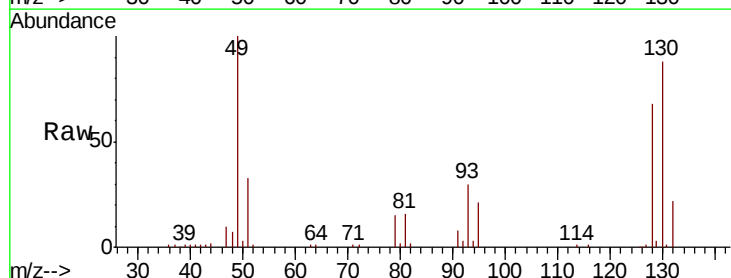
Instrument :
MSVOA_N
ClientSampled :
2-AVE-18

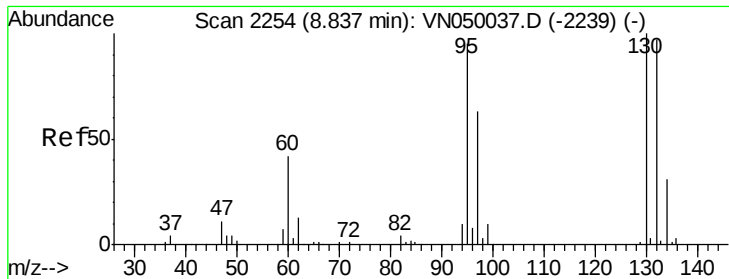
Tot Ion: 43 Resp: 794
Ion Ratio Lower Upper
43 100
57 0.0 6.8 10.2#
72 88.4 21.4 32.0#



#35
Methacrylonitrile
Concen: 0.23 ug/l
RT: 7.21 min Scan# 1748
Delta R.T. 0.03 min
Lab File: VN050766.D
Acq: 20 Aug 2018 11:44

Tgt Ion: 41 Resp: 742
Ion Ratio Lower Upper
41 100
39 58.9 27.6 82.7
67 0.0 35.1 105.5#
52 53.0 14.1 42.4#

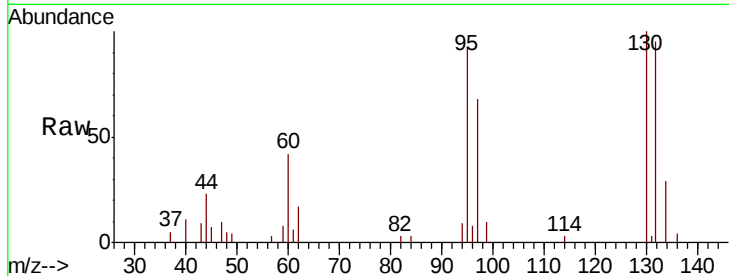




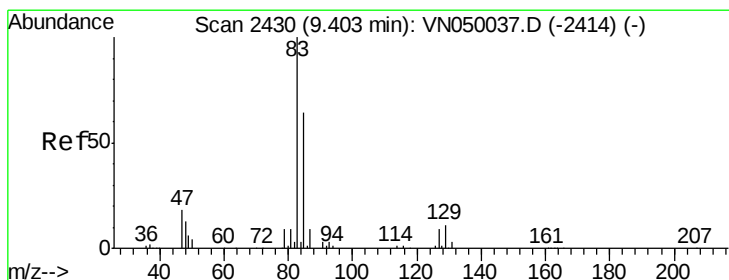
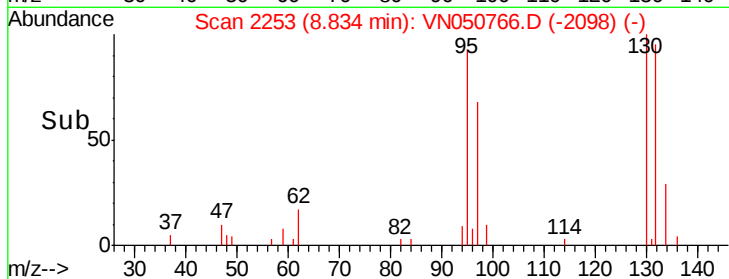
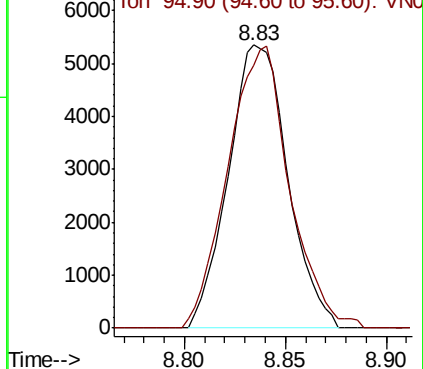
#37
 Trichloroethene
 Concen: 1.51 ug/l
 RT: 8.83 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VN050766.D
 Acq: 20 Aug 2018 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-18

Tot Ion:130 Resp: 11010
 Ion Ratio Lower Upper
 130 100
 95 89.5 79.7 119.5

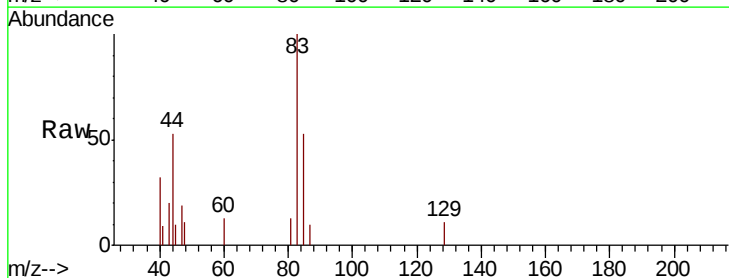


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

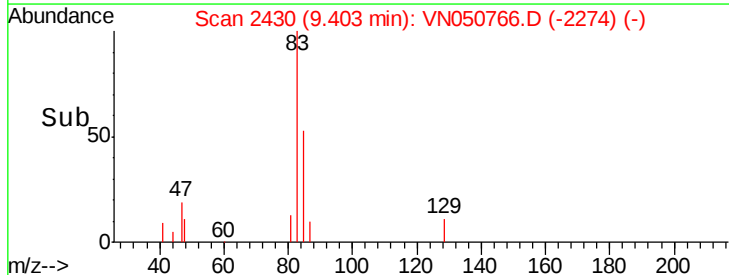
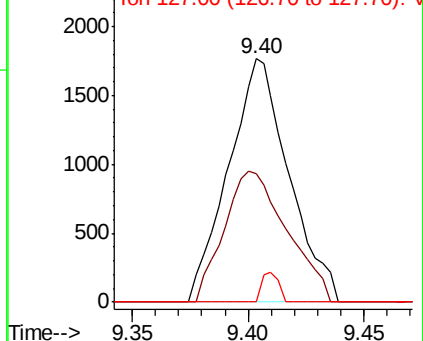


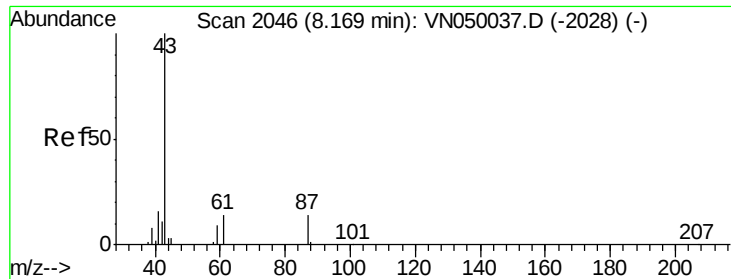
#41
 Bromodichloromethane
 Concen: 0.34 ug/l
 RT: 9.40 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VN050766.D
 Acq: 20 Aug 2018 11:44

Tgt Ion: 83 Resp: 3195
 Ion Ratio Lower Upper
 83 100
 85 52.7 52.6 78.8
 127 0.0 7.0 10.4#



Abundance Ion 83.00 (82.70 to 83.70): VN
 Ion 85.00 (84.70 to 85.70): VN
 Ion 127.00 (126.70 to 127.70): V



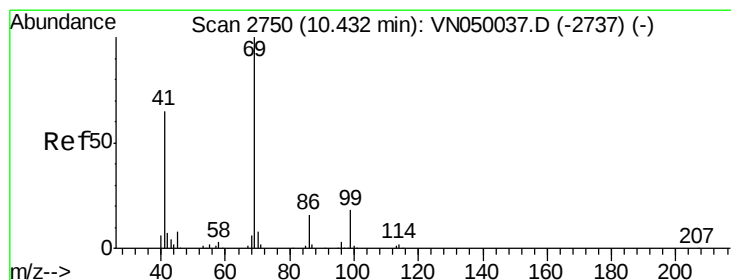
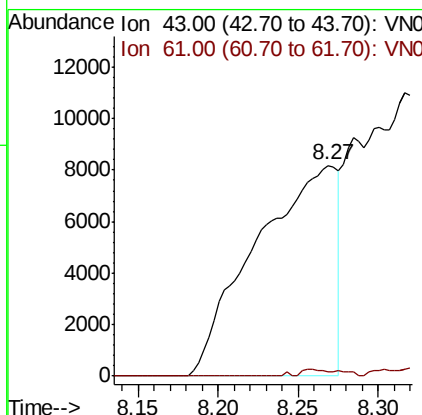
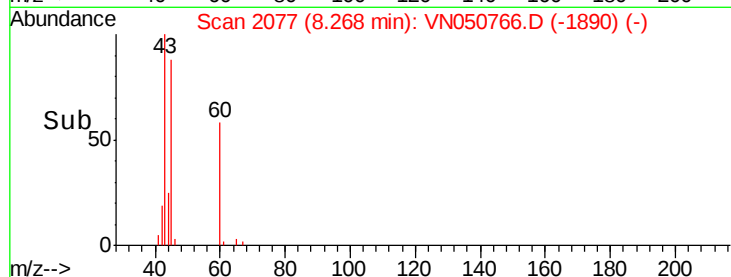
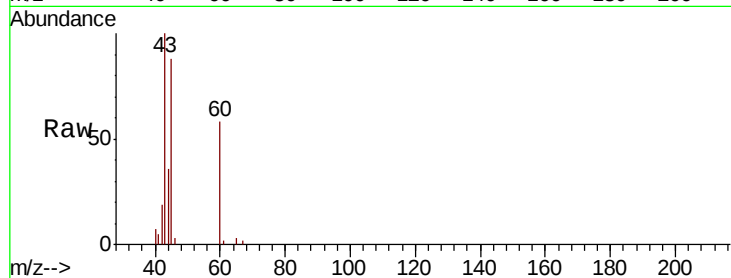


#44

Isopropyl Acetate
 Concen: 2.60 ug/l
 RT: 8.27 min Scan# 2077
 Delta R.T. 0.10 min
 Lab File: VN050766.D
 Acq: 20 Aug 2018 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-18

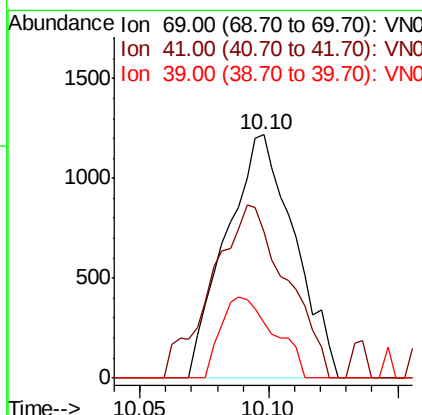
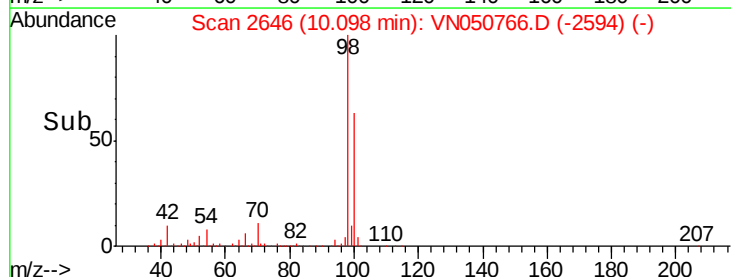
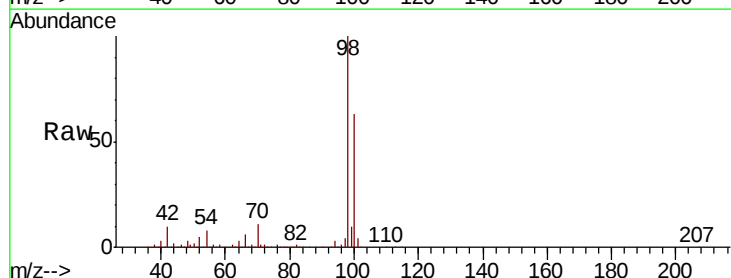
Tot Ion: 43 Resp: 28802
 Ion Ratio Lower Upper
 43 100
 61 0.6 16.4 24.6#

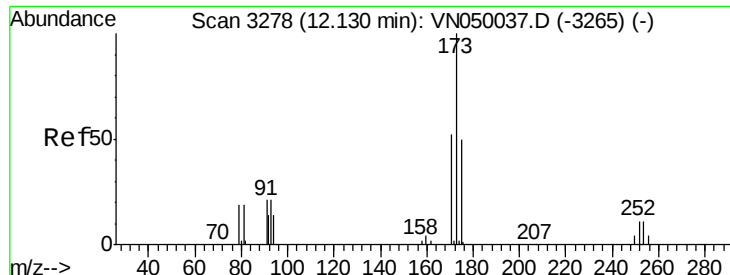


#51

Ethyl methacrylate
 Concen: 0.29 ug/l
 RT: 10.10 min Scan# 2646
 Delta R.T. -0.33 min
 Lab File: VN050766.D
 Acq: 20 Aug 2018 11:44

Tgt Ion: 69 Resp: 2250
 Ion Ratio Lower Upper
 69 100
 41 59.9 31.9 95.9
 39 22.8 16.7 50.1





#56

Bromoform

Concen: 0.28 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050766.D

Acq: 20 Aug 2018 11:44

Instrument :

MSVOA_N

ClientSampled :

2-AVE-18

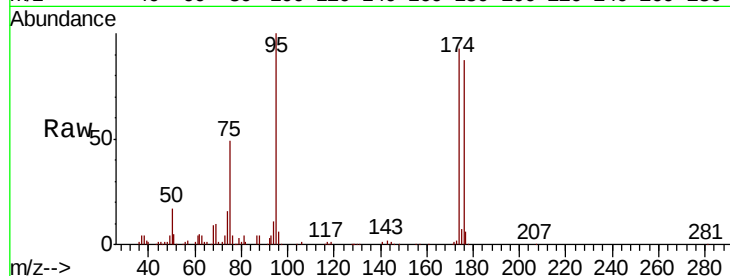
Tot Ion:173 Resp: 1471

Ion Ratio Lower Upper

173 100

175 724.4 38.6 57.8#

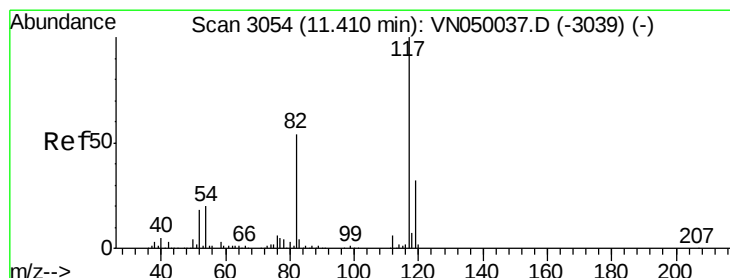
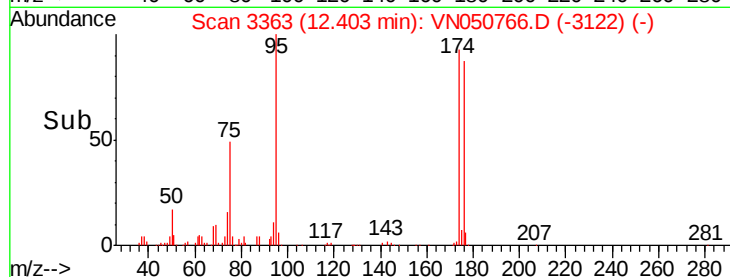
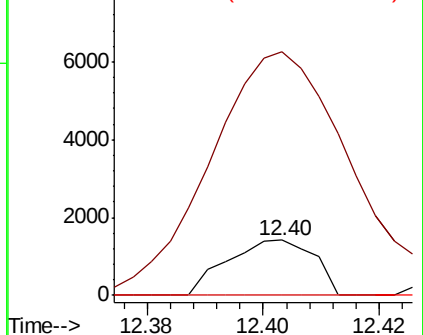
254 0.0 8.8 13.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050766.D

Acq: 20 Aug 2018 11:44

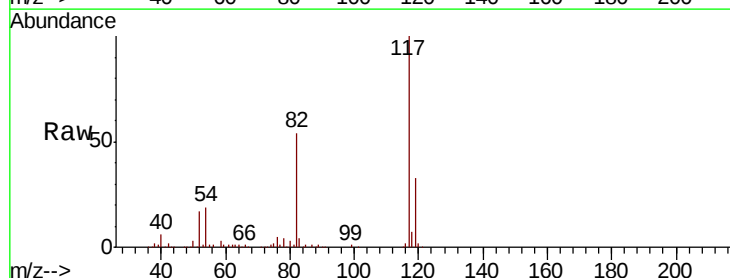
Tgt Ion:117 Resp: 491129

Ion Ratio Lower Upper

117 100

82 53.6 42.4 63.6

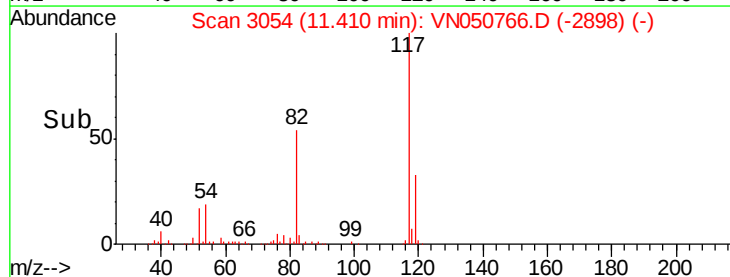
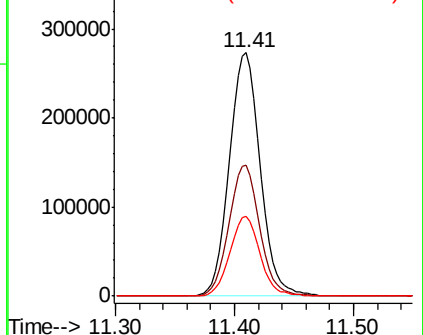
119 32.1 25.4 38.0

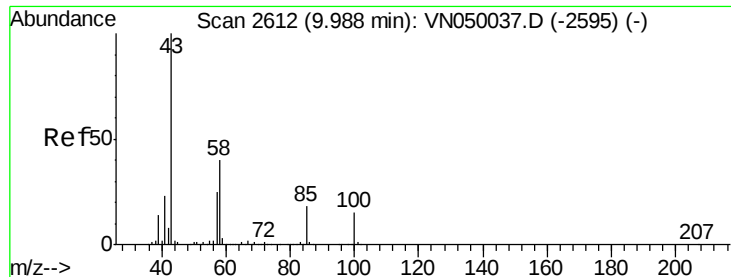


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

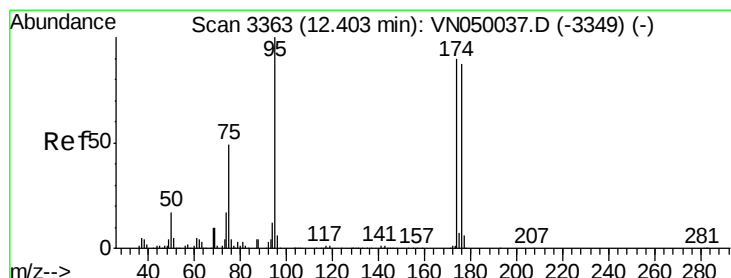
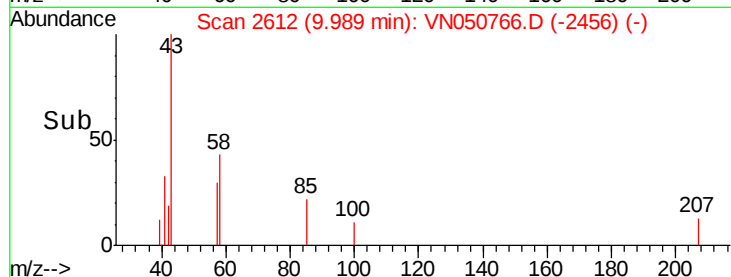
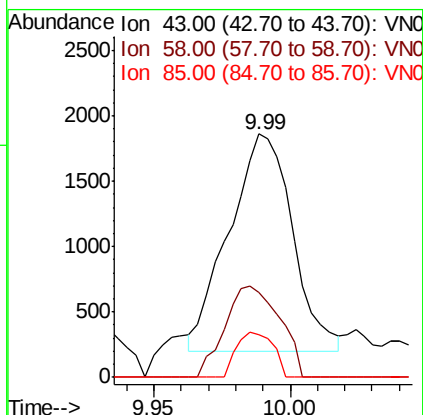
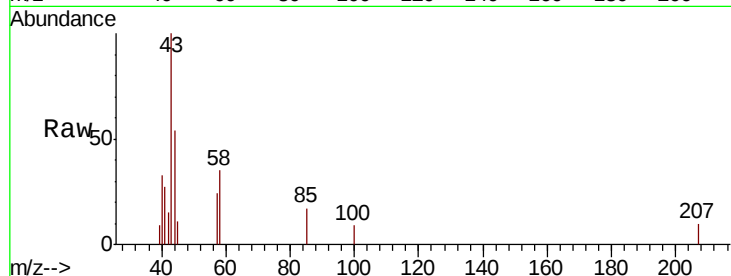




#58
4-Methyl-2-Pentanone
Concen: 0.47 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050766.D
Acq: 20 Aug 2018 11:44

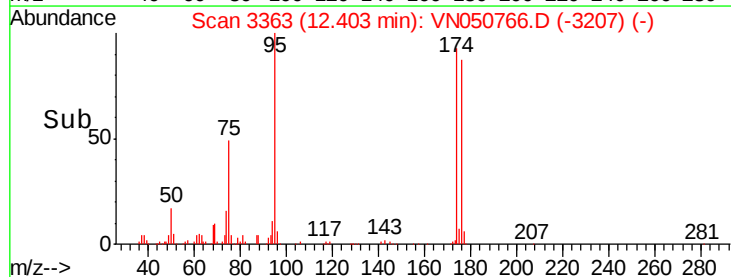
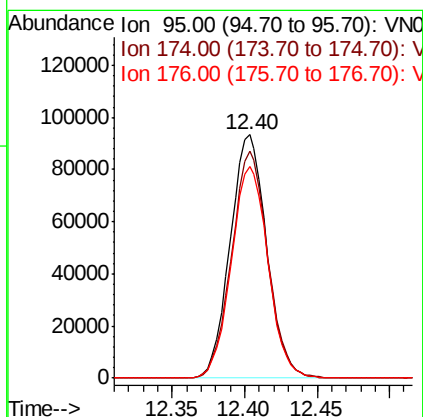
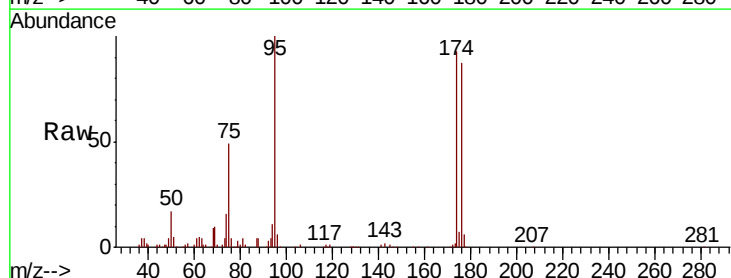
Instrument :
MSVOA_N
ClientSampleId :
2-AVE-18

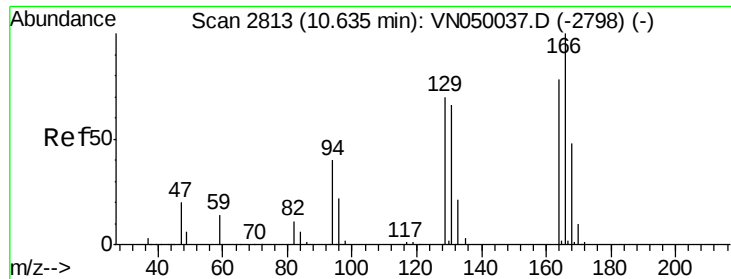
Tot Ion: 43 Resp: 2677
Ion Ratio Lower Upper
43 100
58 36.2 31.2 46.8
85 12.0 14.4 21.6#



#60
4-Bromofluorobenzene
Concen: 21.61 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050766.D
Acq: 20 Aug 2018 11:44

Tgt Ion: 95 Resp: 163080
Ion Ratio Lower Upper
95 100
174 92.3 72.3 108.5
176 87.3 70.0 105.0

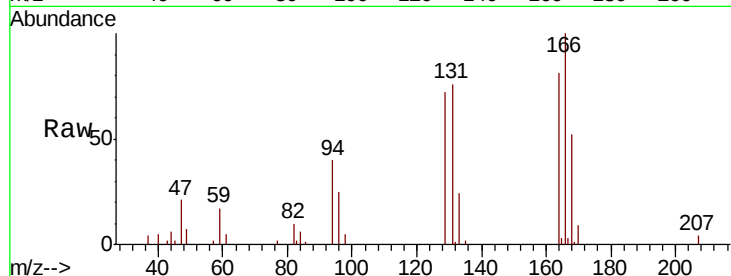




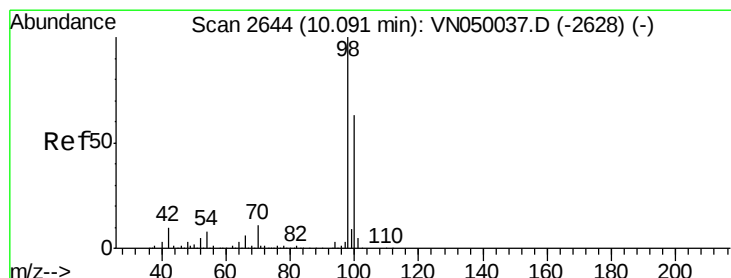
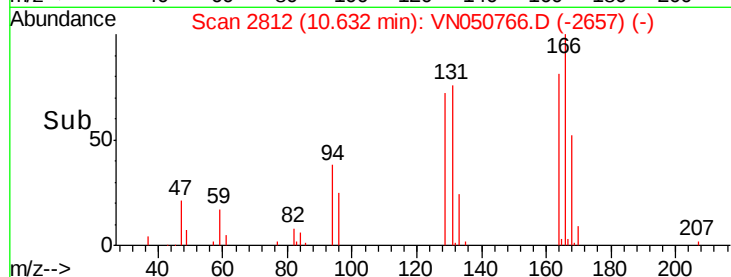
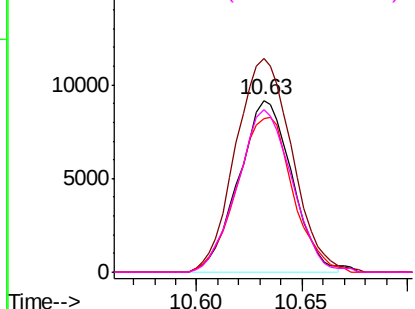
#61
Tetrachloroethene
Concen: 2.43 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050766.D
Acq: 20 Aug 2018 11:44

Instrument :
MSVOA_N
ClientSampleId :
2-AVE-18

Tot Ion:164 Resp: 16156
Ion Ratio Lower Upper
164 100
166 124.1 100.0 150.0
129 89.2 69.3 103.9
131 94.3 68.8 103.2

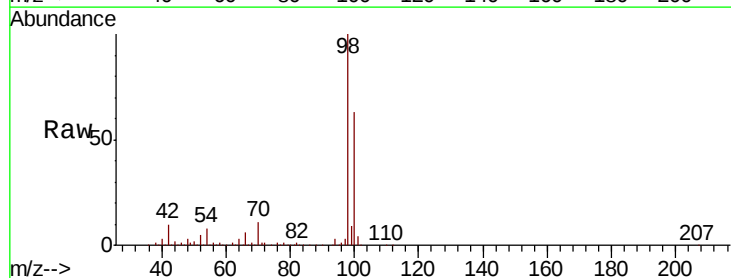


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

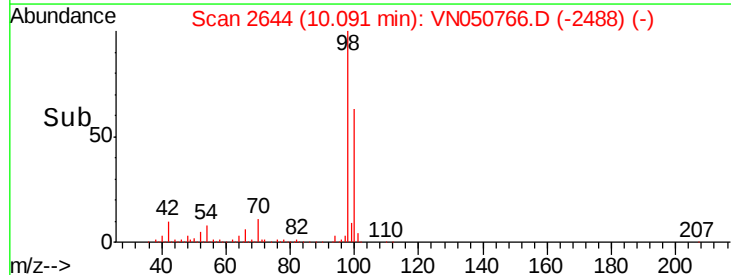
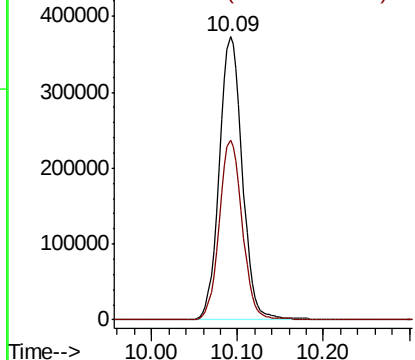


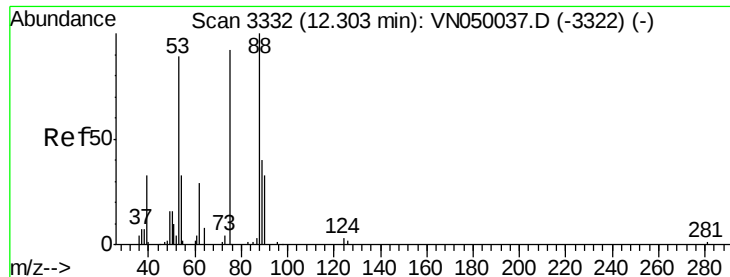
#63
Toluene-d8
Concen: 29.79 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050766.D
Acq: 20 Aug 2018 11:44

Tgt Ion: 98 Resp: 698821
Ion Ratio Lower Upper
98 100
100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN

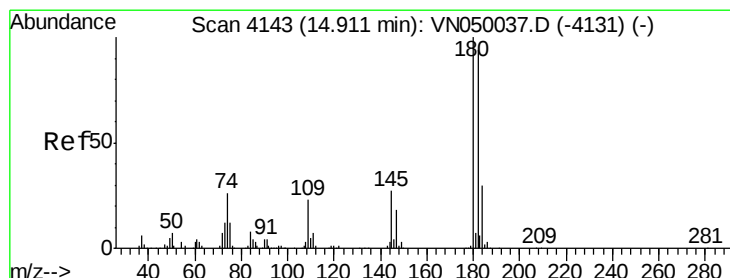
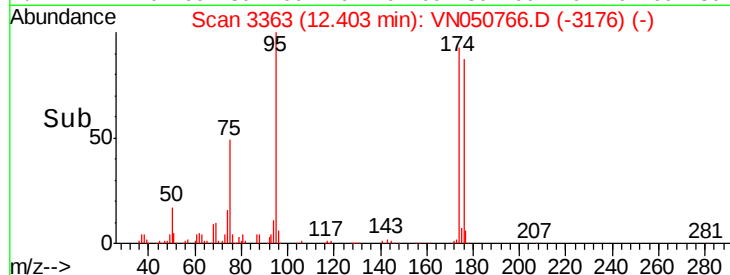
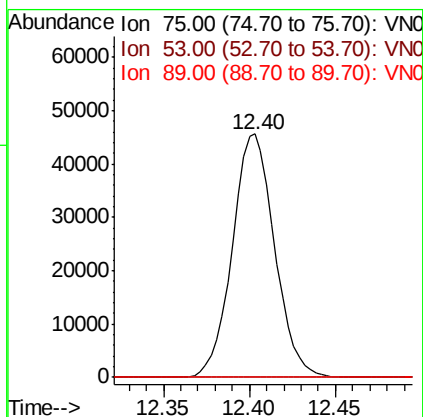
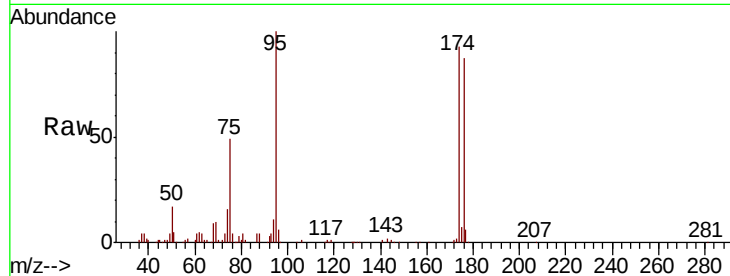




#77
 t-1,4-Dichloro-2-butene
 Concen: 36.41 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050766.D
 Acq: 20 Aug 2018 11:44

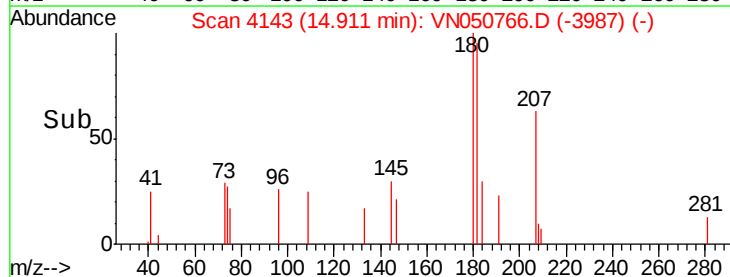
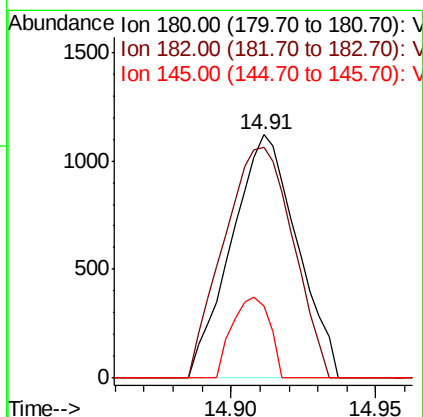
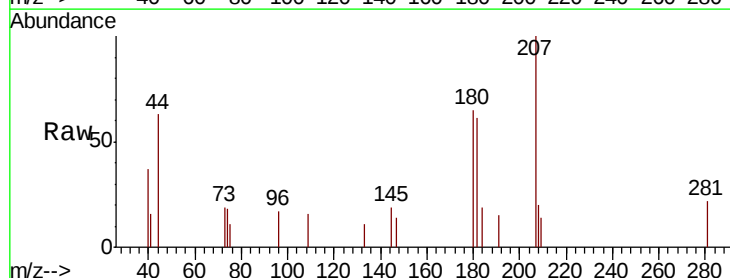
Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-18

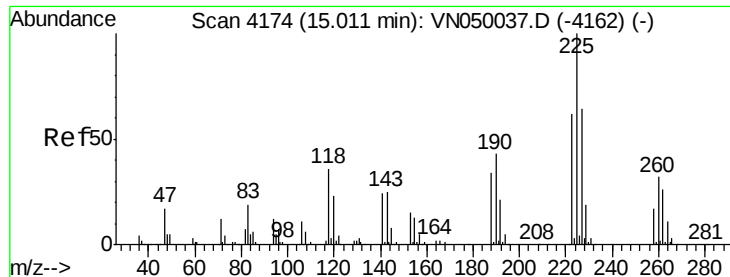
Tot Ion: 75 Resp: 77958
 Ion Ratio Lower Upper
 75 100
 53 0.0 44.6 134.0#
 89 0.0 20.7 62.1#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.29 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050766.D
 Acq: 20 Aug 2018 11:44

Tgt Ion: 180 Resp: 1761
 Ion Ratio Lower Upper
 180 100
 182 100.1 76.7 115.1
 145 18.9 23.4 35.0#

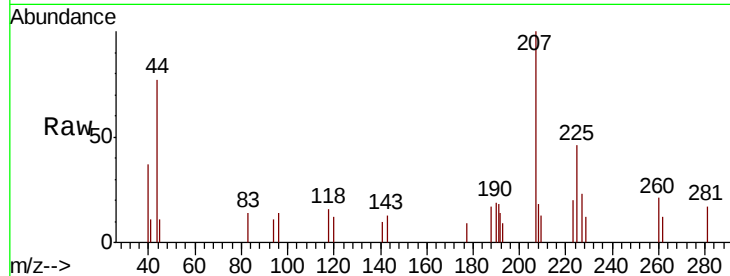




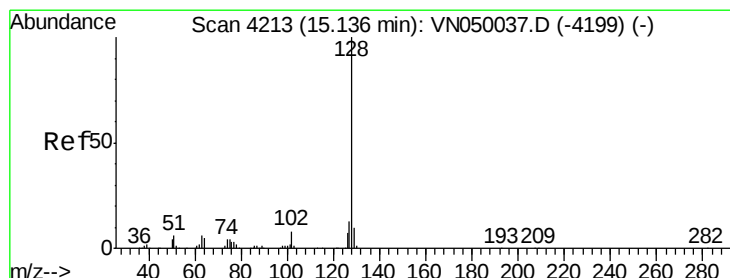
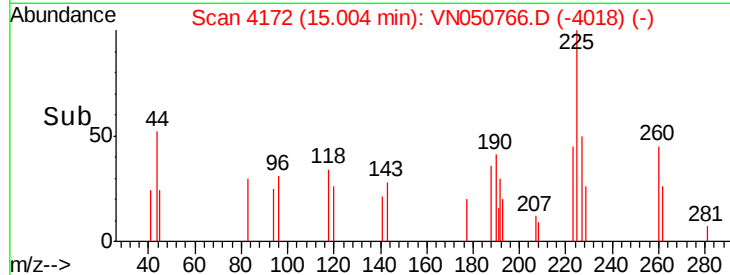
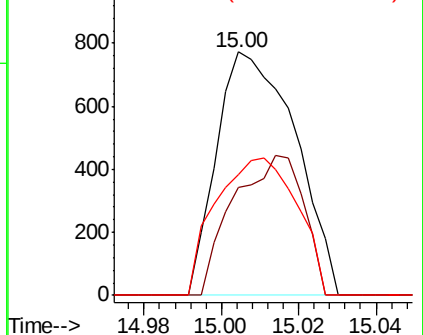
#90
Hexachlorobutadiene
Concen: 0.27 ug/l
RT: 15.00 min Scan# 4172
Delta R.T. -0.01 min
Lab File: VN050766.D
Acq: 20 Aug 2018 11:44

Instrument :
MSVOA_N
ClientSampled :
2-AVE-18

Tot Ion:225 Resp: 1091
Ion Ratio Lower Upper
225 100
223 51.2 0.0 124.4
227 58.4 0.0 133.0

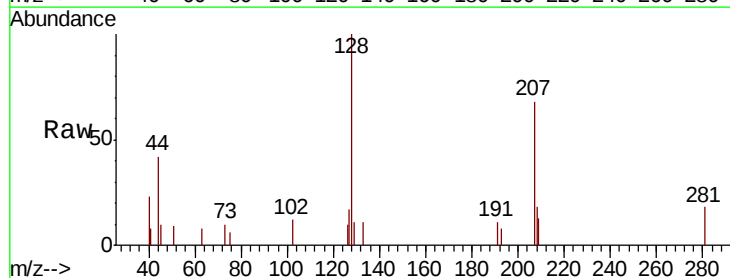


Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V

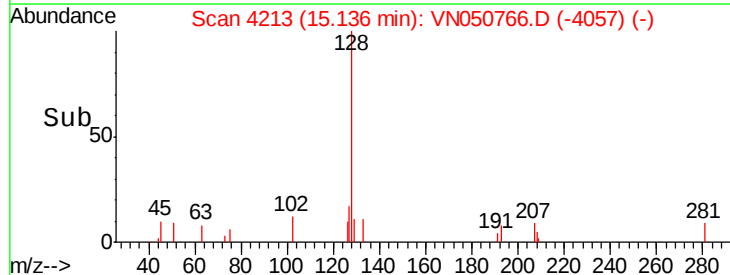
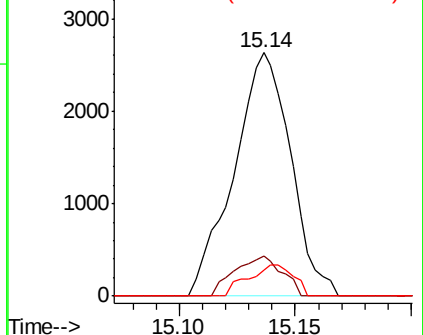


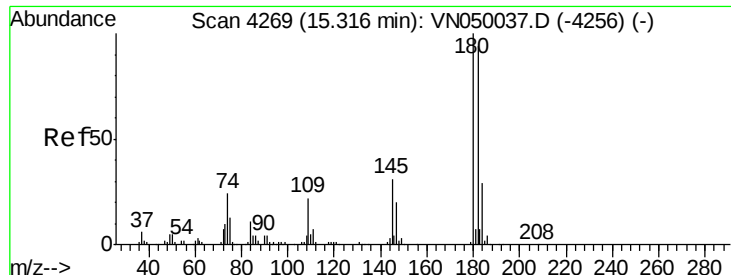
#91
Naphthalene
Concen: 7.88 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050766.D
Acq: 20 Aug 2018 11:44

Tgt Ion:128 Resp: 4475
Ion Ratio Lower Upper
128 100
127 13.8 10.2 15.4
129 10.1 9.0 13.4



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

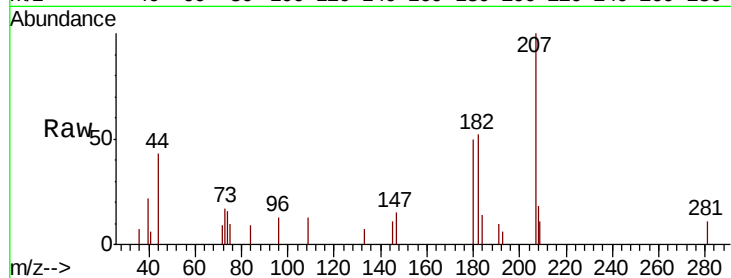




#92
 1,2,3-Trichlorobenzene
 Concen: 0.33 ug/l
 RT: 15.31 min Scan# 4268
 Delta R.T. -0.00 min
 Lab File: VN050766.D
 Acq: 20 Aug 2018 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-18

Tot Ion	Ratio	Lower	Upper
180	100		
182	115.7	0.0	188.8
145	20.6	0.0	60.8



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

