

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073118\
 Data File : VN050205.D
 Acq On : 31 Jul 2018 10:02
 Operator : MD\SY
 Sample : J4239-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-17

Quant Time: Jul 31 17:37:53 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	123793	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	669880	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	547166	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	261976	31.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.77%
60) 4-Bromofluorobenzene	12.40	95	186397	22.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	73.90%
63) Toluene-d8	10.09	98	766308	29.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.73%

Target Compounds

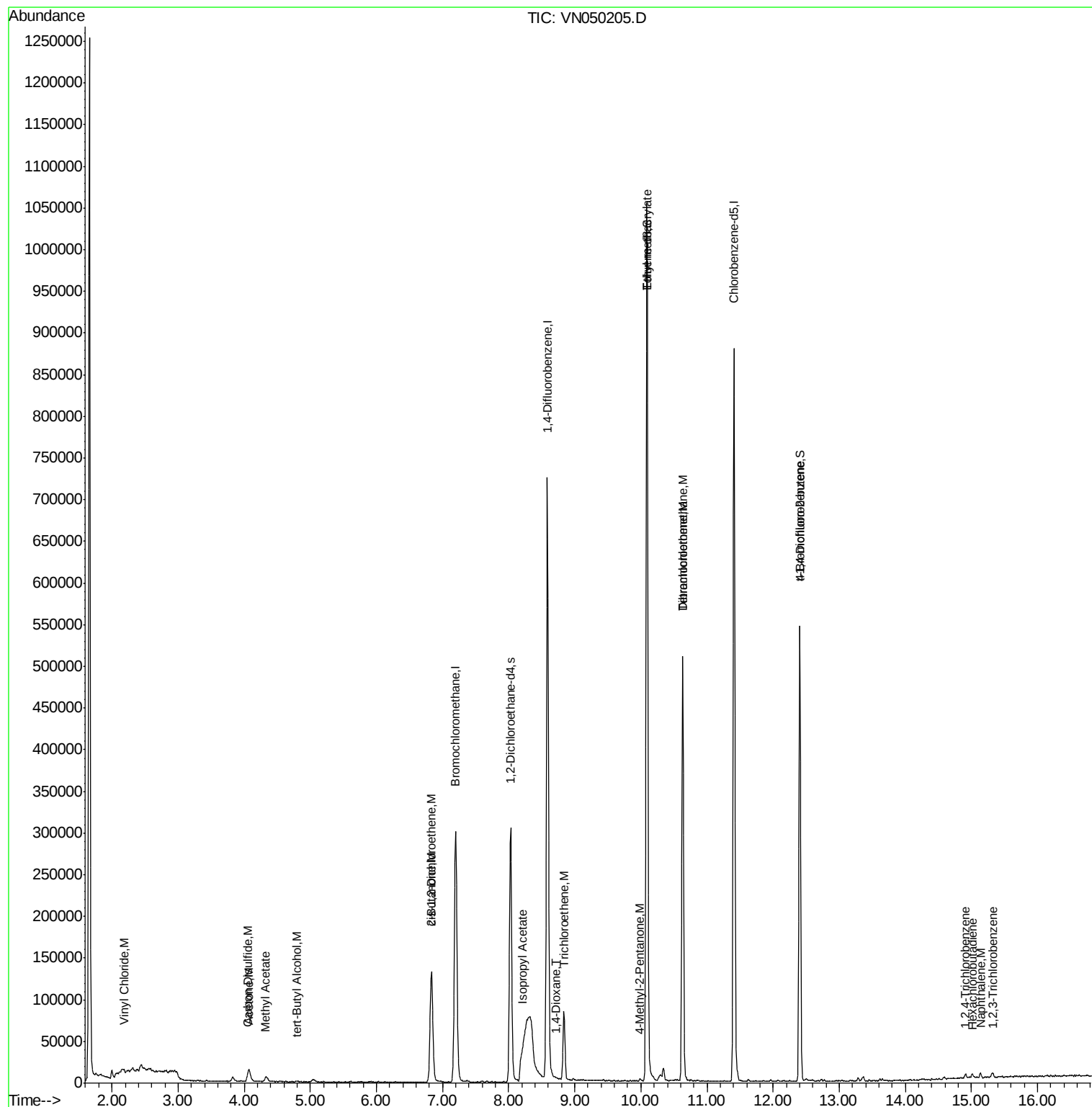
						Ovalue
4) Vinyl Chloride	2.18	62	1951	0.21	ug/l	94
12) Methyl Acetate	4.33	43	12040	1.59	ug/l	96
15) Acetone	4.08	58	585	0.87	ug/l	73
16) Carbon Disulfide	4.05	76	6240	0.31	ug/l	# 93
22) cis-1,2-Dichloroethene	6.83	96	91635	11.69	ug/l	92
23) tert-Butyl Alcohol	4.80	59	402	0.71	ug/l	# 100
30) 2-Butanone	6.84	43	668	0.20	ug/l	# 25
37) Trichloroethene	8.84	130	31805	3.84	ug/l	99
44) Isopropyl Acetate	8.20	43	24733	1.96	ug/l	# 58
45) 1,4-Dioxane	8.72	88	155	1.87	ug/l	# 41
51) Ethyl methacrylate	10.09	69	2671	0.30	ug/l	81
53) Dibromochloromethane	10.63	129	112844	13.48	ug/l	# 11
58) 4-Methyl-2-Pentanone	9.99	43	2702	0.42	ug/l	# 55
61) Tetrachloroethene	10.63	164	125779	16.97	ug/l	97
77) t-1,4-Dichloro-2-butene	12.40	75	89565	37.55	ug/l	# 14
89) 1,2,4-Trichlorobenzene	14.91	180	2057	0.31	ug/l	94
90) Hexachlorobutadiene	15.01	225	1080	0.24	ug/l	89
91) Naphthalene	15.13	128	5162	7.88	ug/l	# 79
92) 1,2,3-Trichlorobenzene	15.32	180	2183	0.32	ug/l	88

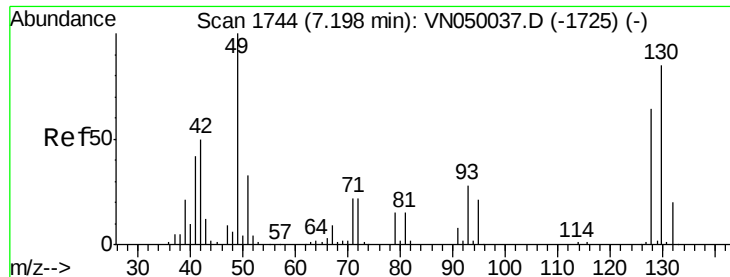
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. -0.00 min

Lab File: VN050205.D

Acq: 31 Jul 2018 10:02

Instrument :

MSVOA_N

ClientSampled :

2-AVE-17

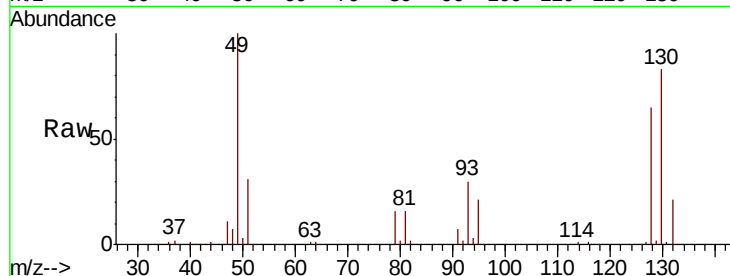
Tot Ion:128 Resp: 123793

Ion Ratio Lower Upper

128 100

49 157.9 0.0 378.3

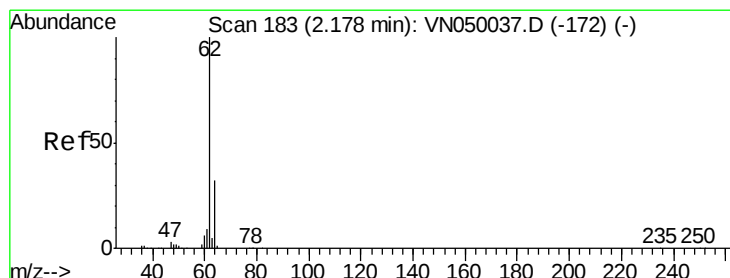
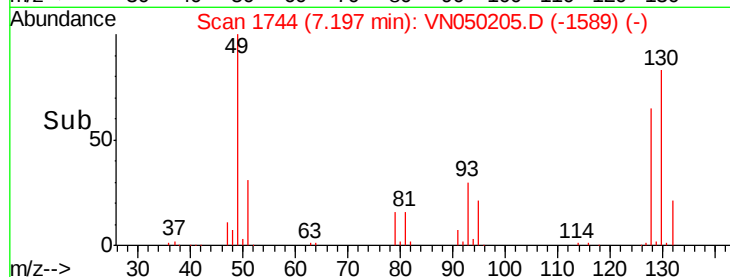
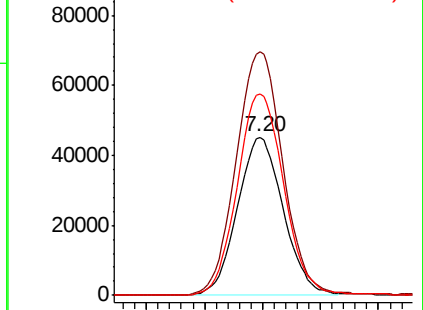
130 129.7 0.0 320.7



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



#4

Vinyl Chloride

Concen: 0.21 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050205.D

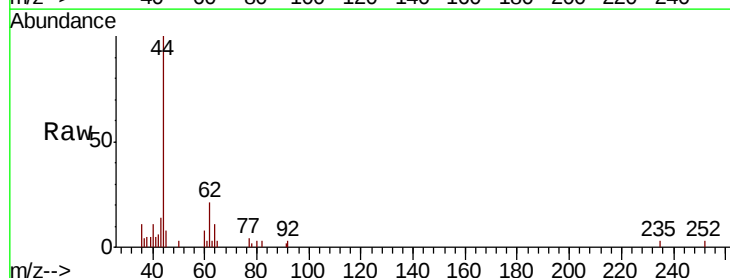
Acq: 31 Jul 2018 10:02

Tgt Ion: 62 Resp: 1951

Ion Ratio Lower Upper

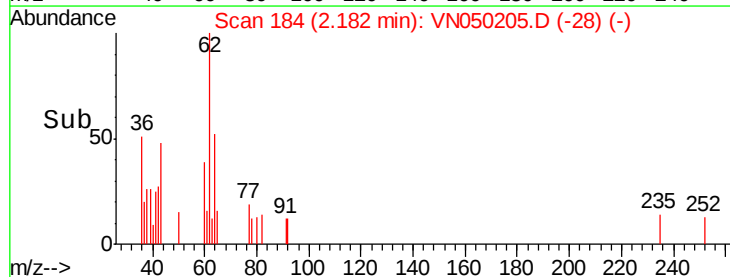
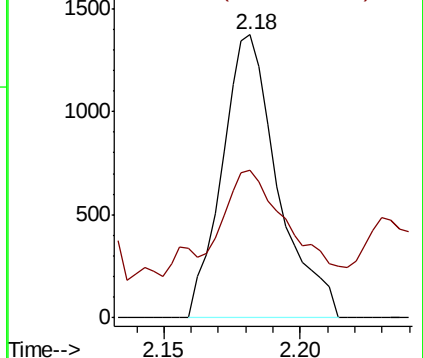
62 100

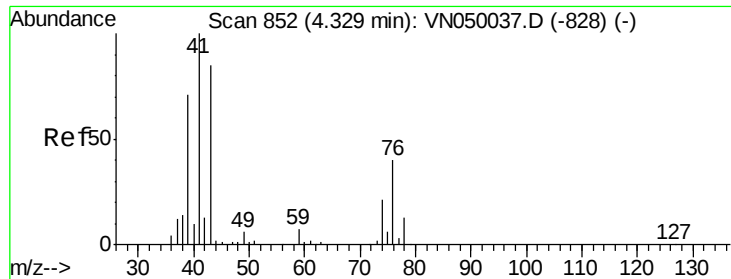
64 34.0 24.4 36.6



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0

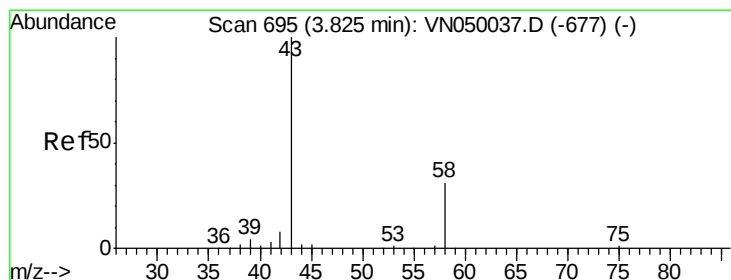
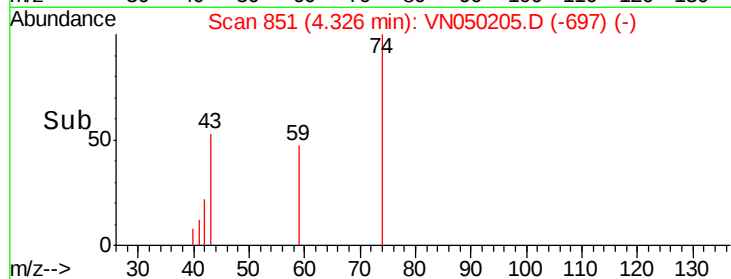
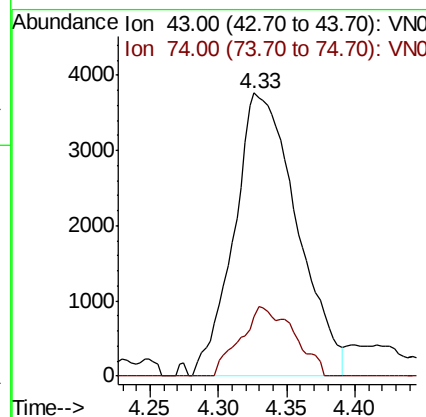
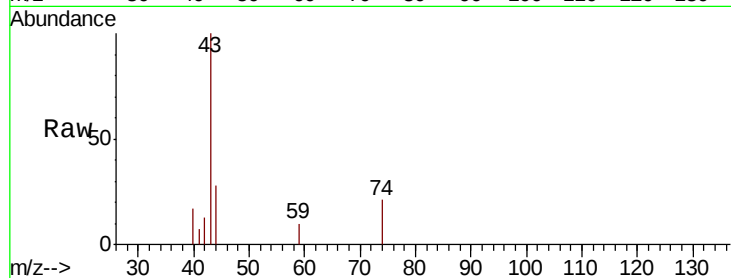




#12
Methvl Acetate
Concen: 1.59 ug/l
RT: 4.33 min Scan# 851
Delta R.T. -0.00 min
Lab File: VN050205.D
Acq: 31 Jul 2018 10:02

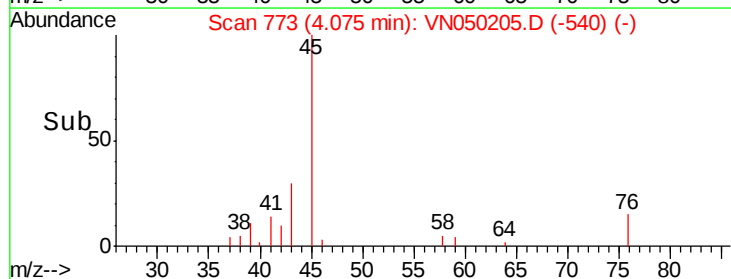
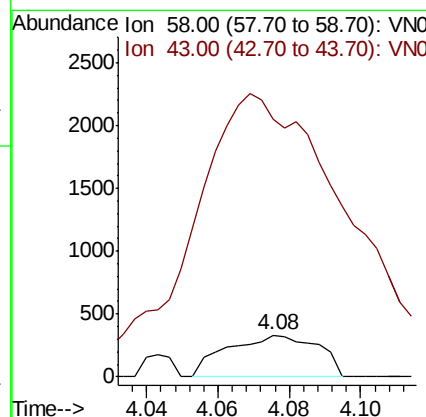
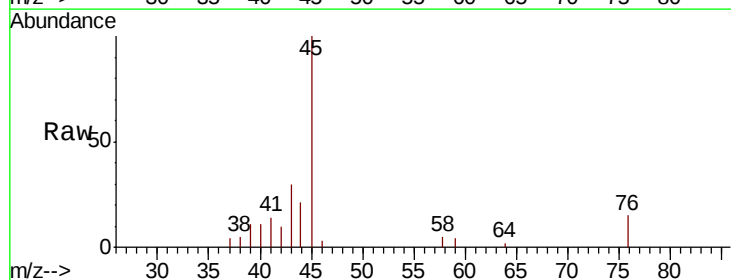
Instrument :
MSVOA_N
ClientSampleId :
2-AVE-17

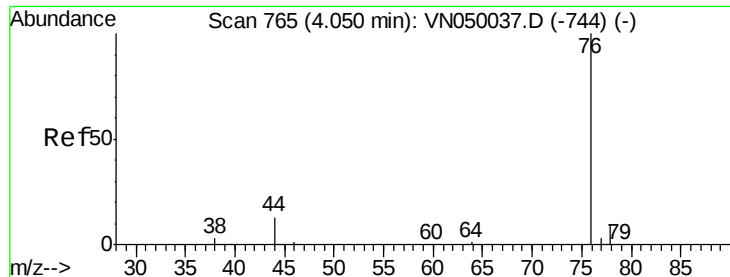
Tot Ion: 43 Resp: 12040
Ion Ratio Lower Upper
43 100
74 22.1 19.3 28.9



#15
Acetone
Concen: 0.87 ug/l
RT: 4.08 min Scan# 773
Delta R.T. 0.25 min
Lab File: VN050205.D
Acq: 31 Jul 2018 10:02

Tgt Ion: 58 Resp: 585
Ion Ratio Lower Upper
58 100
43 260.4 252.0 378.0

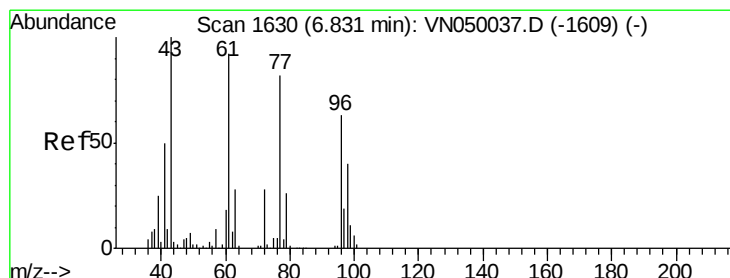
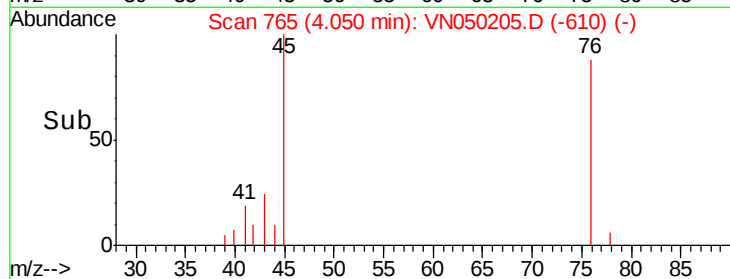
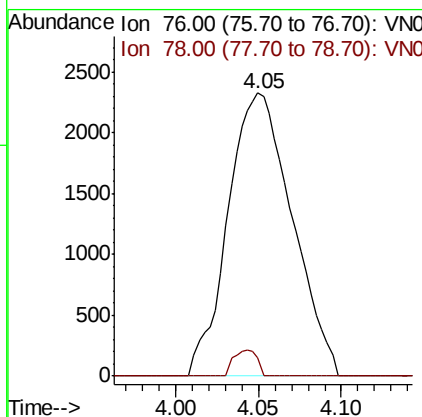
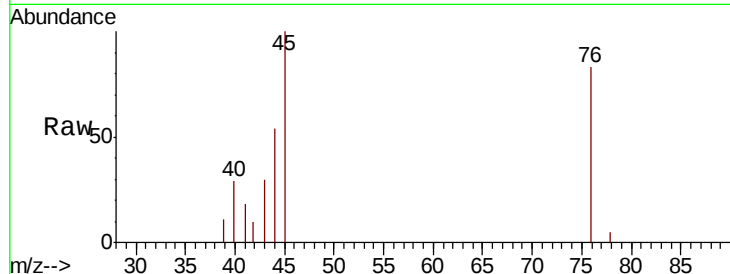




#16
Carbon Disulfide
Concen: 0.31 ug/l
RT: 4.05 min Scan# 765
Delta R.T. -0.00 min
Lab File: VN050205.D
Acq: 31 Jul 2018 10:02

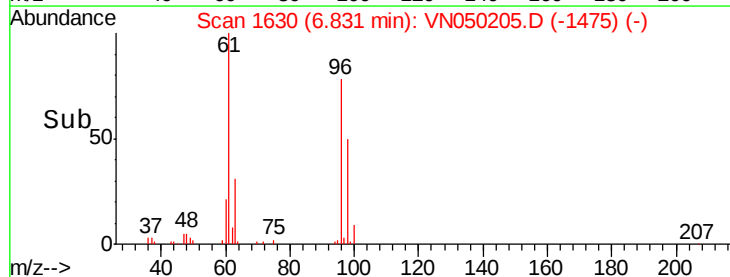
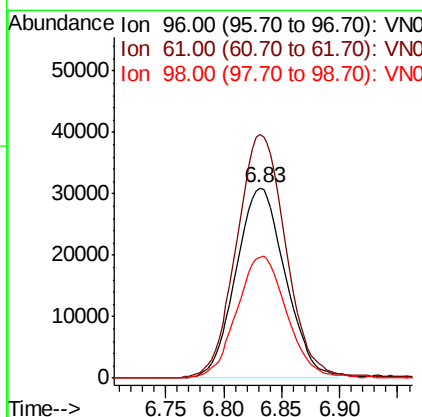
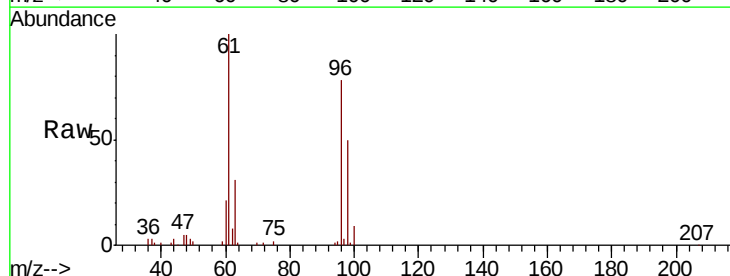
Instrument :
MSVOA_N
ClientSampled :
2-AVE-17

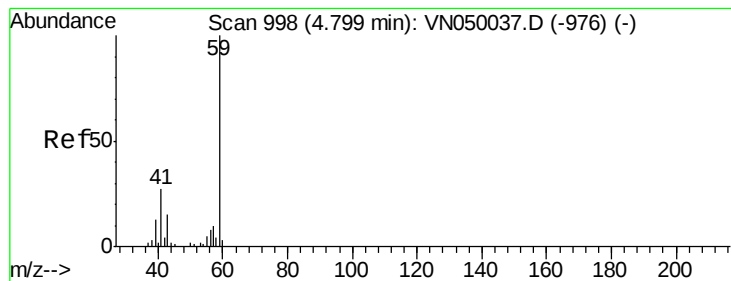
Tot Ion: 76 Resp: 6240
Ion Ratio Lower Upper
76 100
78 6.6 7.3 10.9#



#22
cis-1,2-Dichloroethene
Concen: 11.69 ug/l
RT: 6.83 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VN050205.D
Acq: 31 Jul 2018 10:02

Tgt Ion: 96 Resp: 91635
Ion Ratio Lower Upper
96 100
61 128.1 114.2 171.2
98 65.1 51.7 77.5





#23

tert-Butyl Alcohol

Concen: 0.71 ug/l

RT: 4.80 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN050205.D

Acq: 31 Jul 2018 10:02

Instrument :

MSVOA_N

ClientSampled :

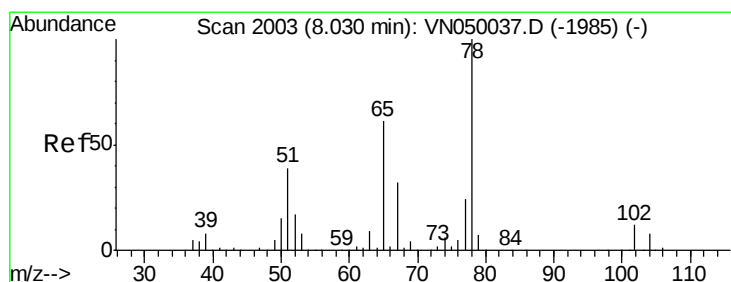
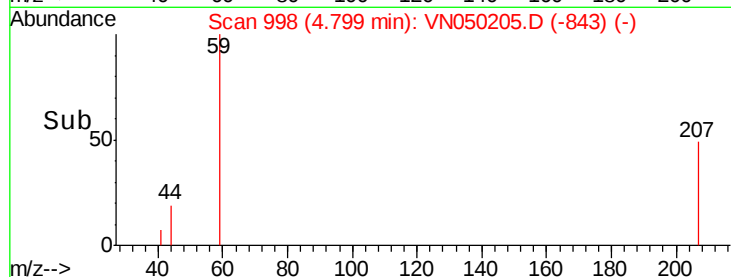
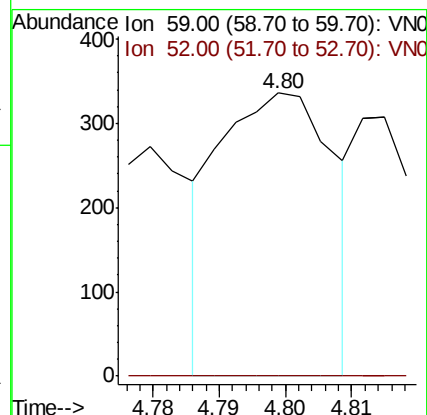
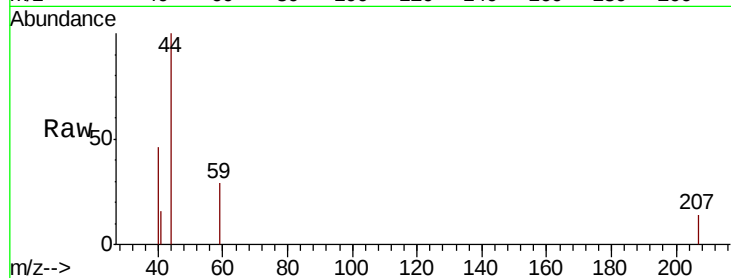
2-AVE-17

Tot Ion: 59 Resp: 402

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



#27

1,2-Dichloroethane-d4

Concen: 31.13 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050205.D

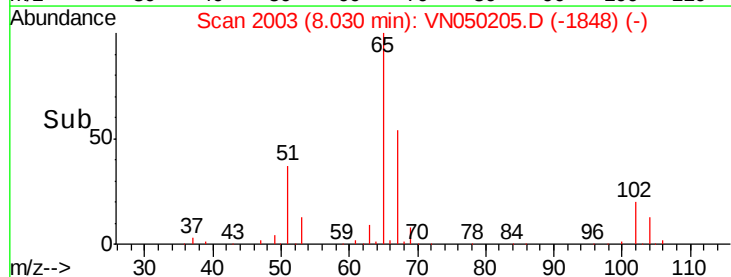
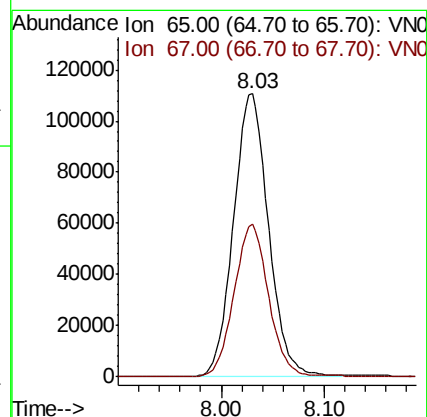
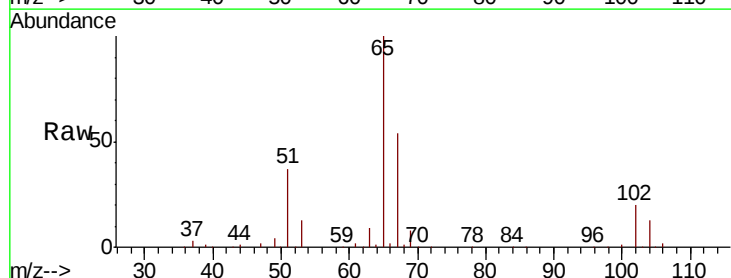
Acq: 31 Jul 2018 10:02

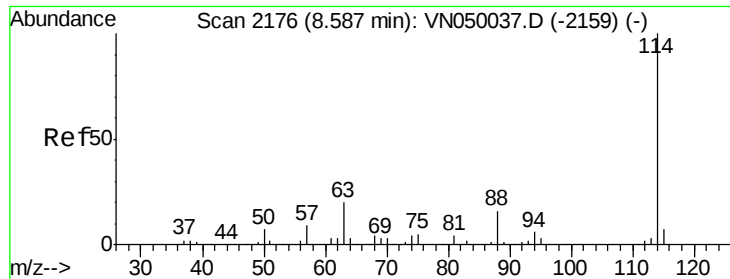
Tgt Ion: 65 Resp: 261976

Ion Ratio Lower Upper

65 100

67 53.1 42.7 64.1

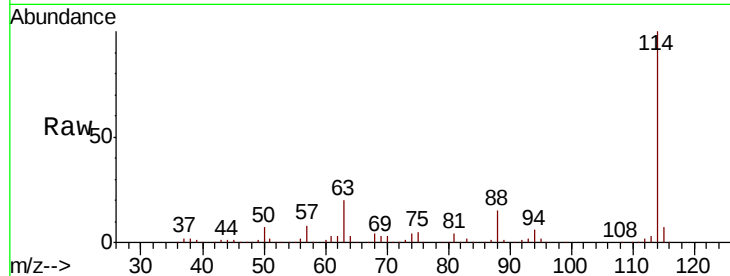




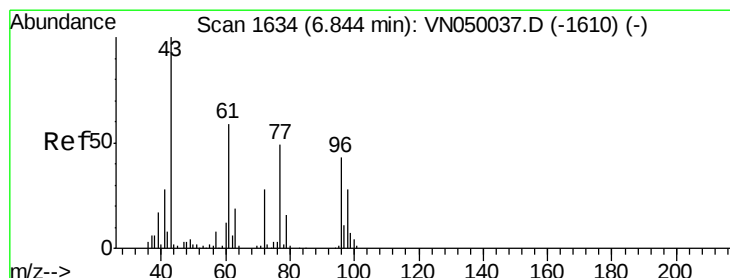
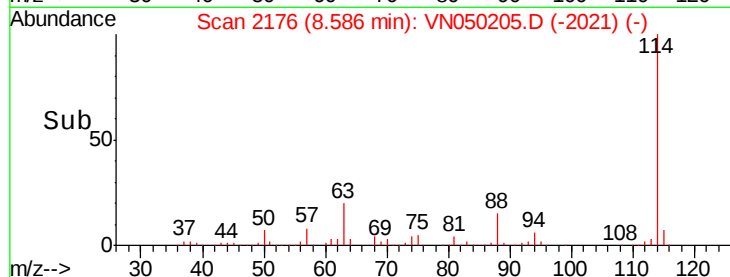
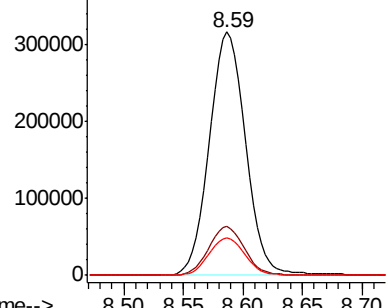
#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050205.D
 Acq: 31 Jul 2018 10:02

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-17

Tot Ion:114 Resp: 669880
 Ion Ratio Lower Upper
 114 100
 63 20.0 16.2 24.2
 88 15.3 12.3 18.5

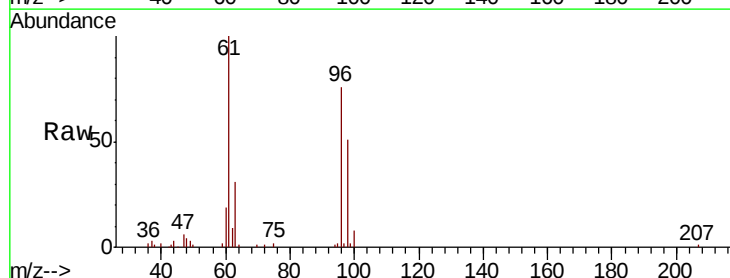


Abundance Ion 114.00 (113.70 to 114.70): VN050037.D (-2159) (-)
 Ion 63.00 (62.70 to 63.70): VN050037.D (-2159) (-)
 Ion 88.00 (87.70 to 88.70): VN050037.D (-2159) (-)

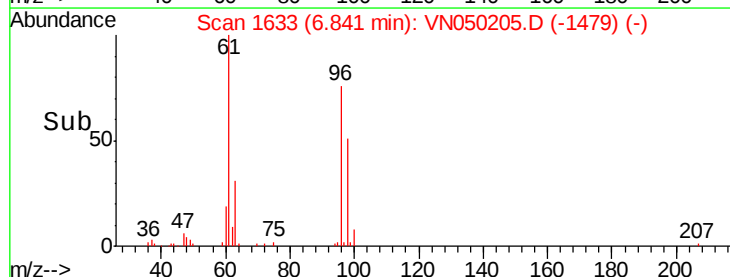
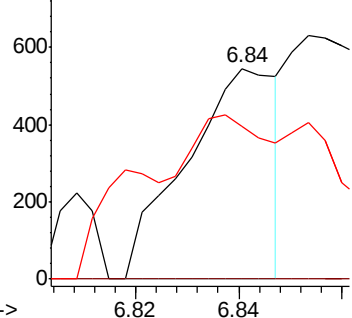


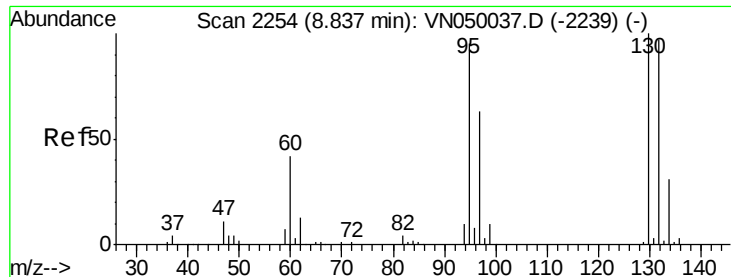
#30
 2-Butanone
 Concen: 0.20 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. -0.00 min
 Lab File: VN050205.D
 Acq: 31 Jul 2018 10:02

Tgt Ion: 43 Resp: 668
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.8 10.2#
 72 74.0 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VN050037.D (-1610) (-)
 Ion 57.00 (56.70 to 57.70): VN050037.D (-1610) (-)
 Ion 72.00 (71.70 to 72.70): VN050037.D (-1610) (-)

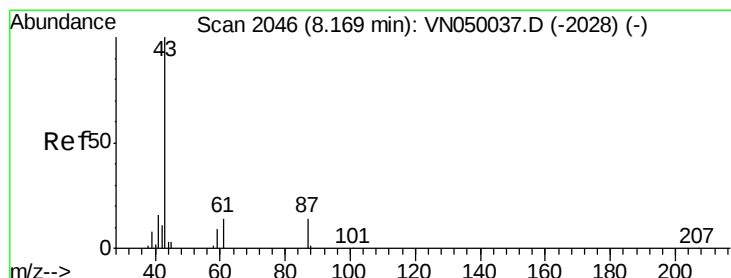
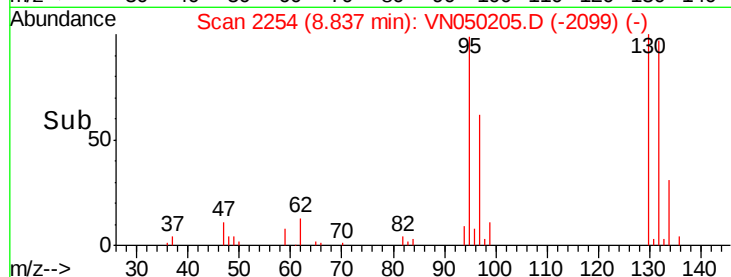
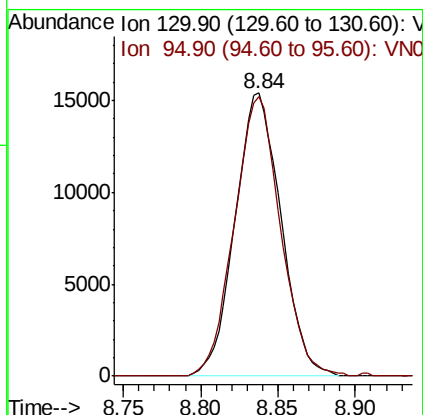
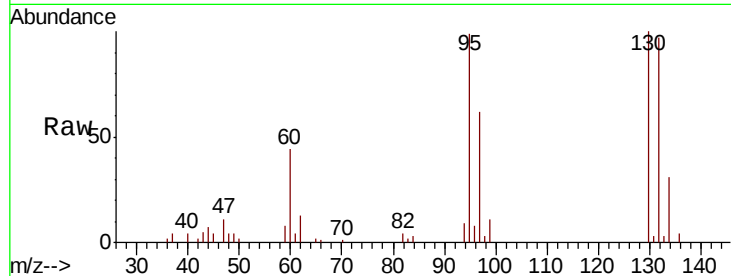




#37
 Trichloroethene
 Concen: 3.84 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. -0.00 min
 Lab File: VN050205.D
 Acq: 31 Jul 2018 10:02

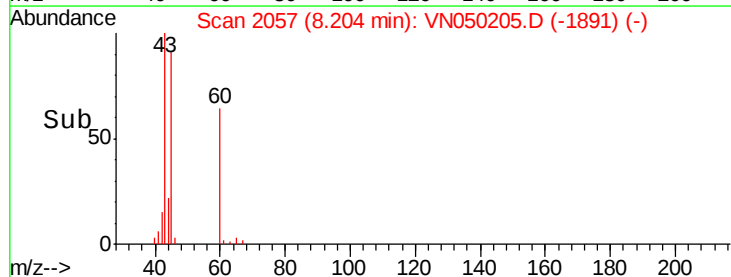
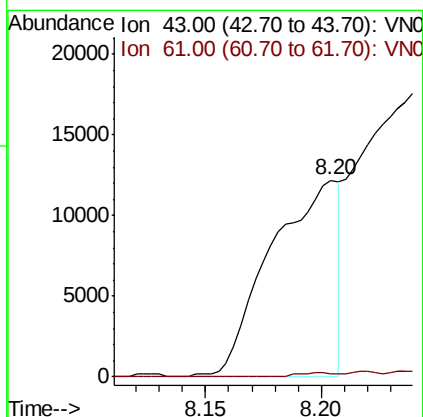
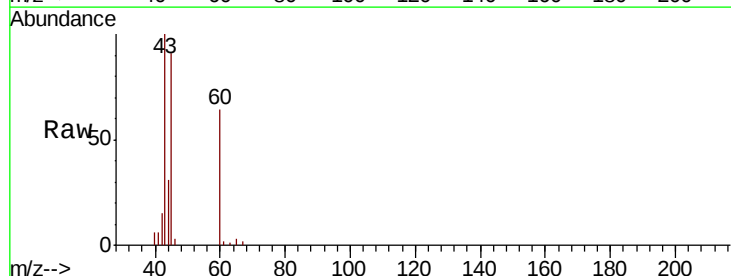
Instrument :
 MSVOA_N
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 2-AVE-17

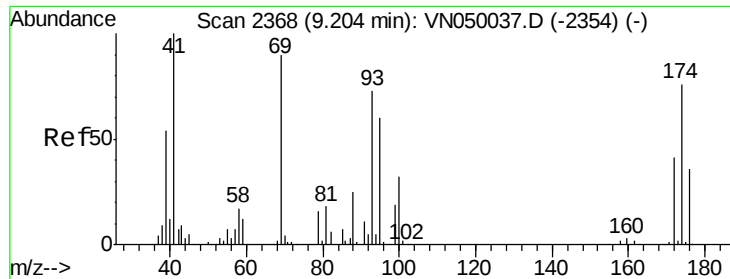
Tot Ion:130 Resp: 31805
 Ion Ratio Lower Upper
 130 100
 95 98.5 79.7 119.5



#44
 Isopropyl Acetate
 Concen: 1.96 ug/l
 RT: 8.20 min Scan# 2057
 Delta R.T. 0.04 min
 Lab File: VN050205.D
 Acq: 31 Jul 2018 10:02

Tgt Ion: 43 Resp: 24733
 Ion Ratio Lower Upper
 43 100
 61 1.2 16.4 24.6#





#45

1,4-Dioxane

Concen: 1.87 ug/l

RT: 8.72 min Scan# 2217

Delta R.T. -0.49 min

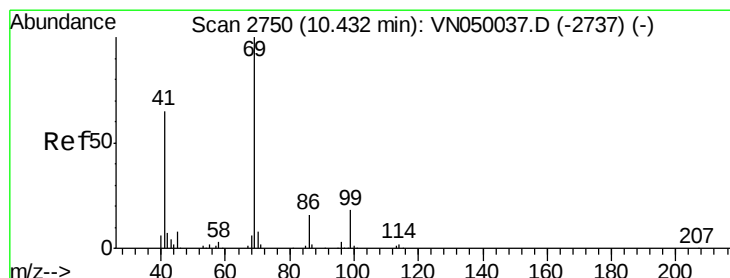
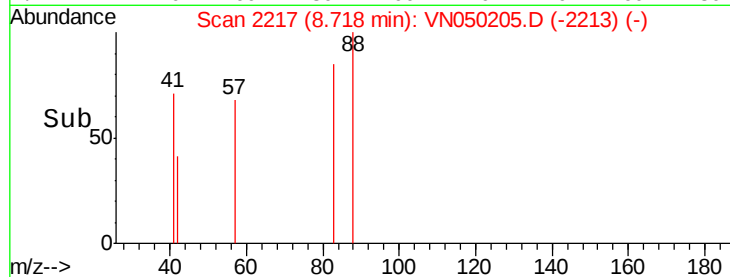
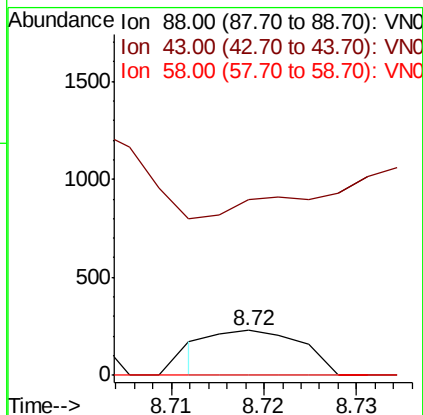
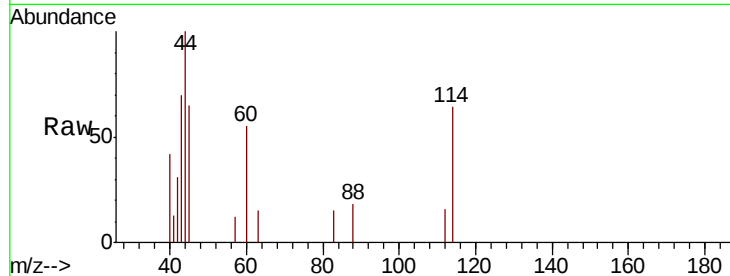
Lab File: VN050205.D

Acq: 31 Jul 2018 10:02

Instrument :
MSVOA_N
ClientSampled :
2-AVE-17

Tot Ion: 88 Resp: 155

Ion	Ratio	Lower	Upper
88	100		
43	38.7	26.9	40.3
58	0.0	53.6	80.4#



#51

Ethyl methacrylate

Concen: 0.30 ug/l

RT: 10.09 min Scan# 2645

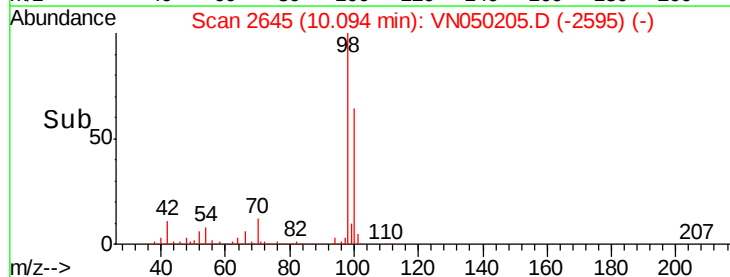
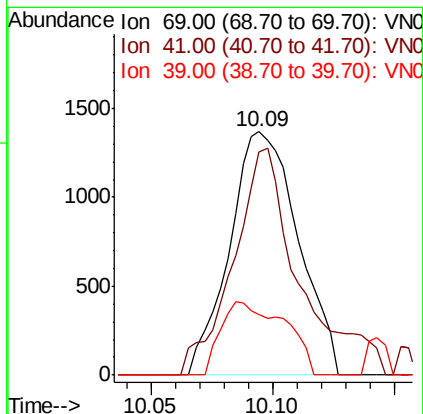
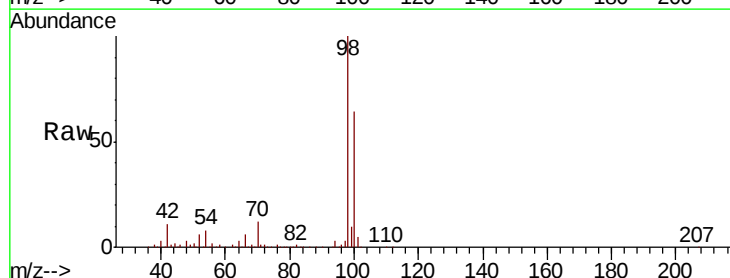
Delta R.T. -0.34 min

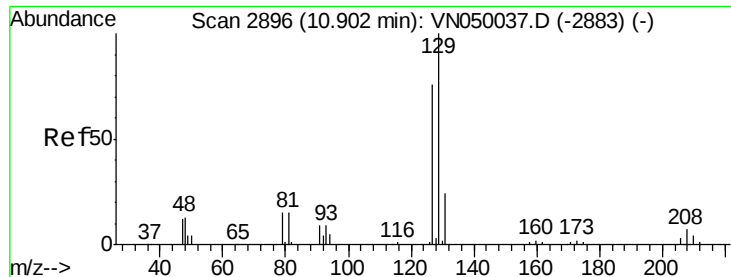
Lab File: VN050205.D

Acq: 31 Jul 2018 10:02

Tgt Ion: 69 Resp: 2671

Ion	Ratio	Lower	Upper
69	100		
41	80.1	31.9	95.9
39	24.7	16.7	50.1





#53

Dibromochloromethane

Concen: 13.48 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.27 min

Lab File: VN050205.D

Acq: 31 Jul 2018 10:02

Instrument :

MSVOA_N

ClientSampleId :

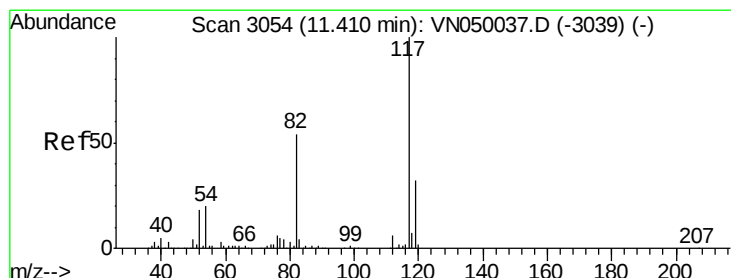
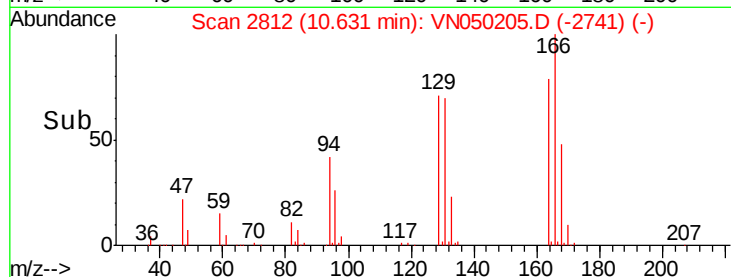
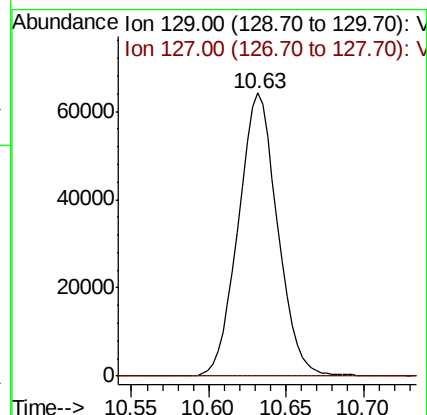
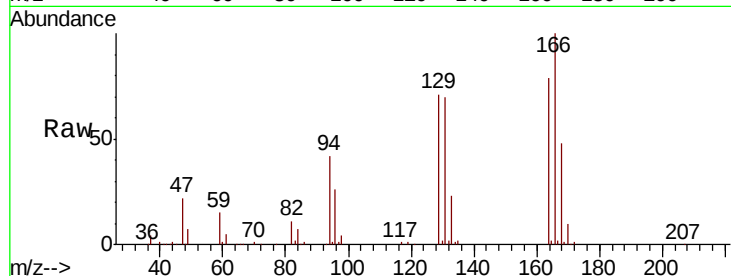
2-AVE-17

Tot Ion:129 Resp: 112844

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.5#



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050205.D

Acq: 31 Jul 2018 10:02

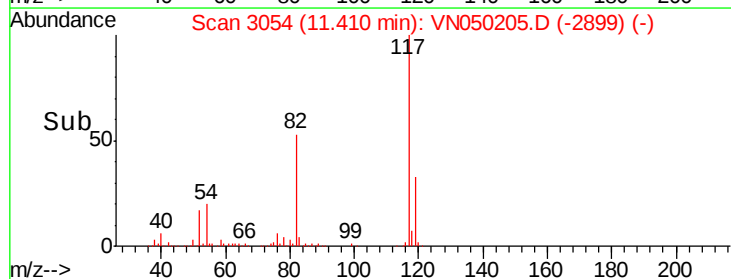
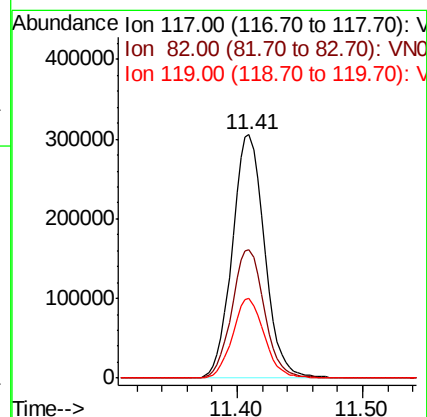
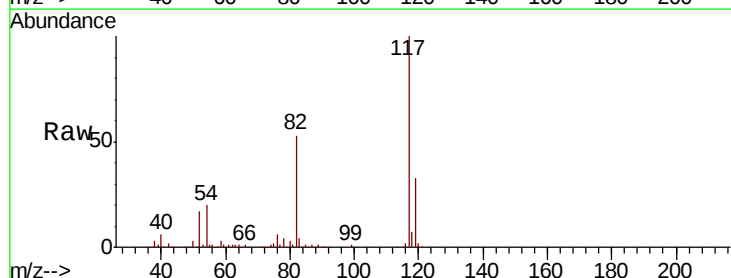
Tgt Ion:117 Resp: 547166

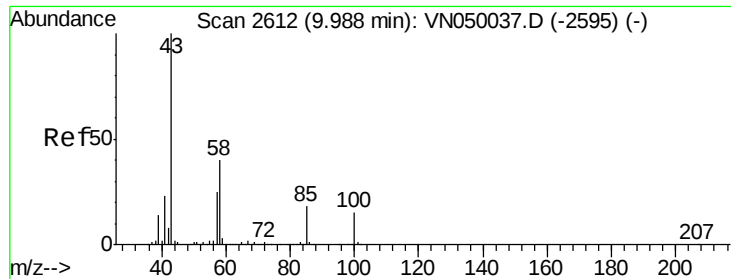
Ion Ratio Lower Upper

117 100

82 53.1 42.4 63.6

119 32.3 25.4 38.0

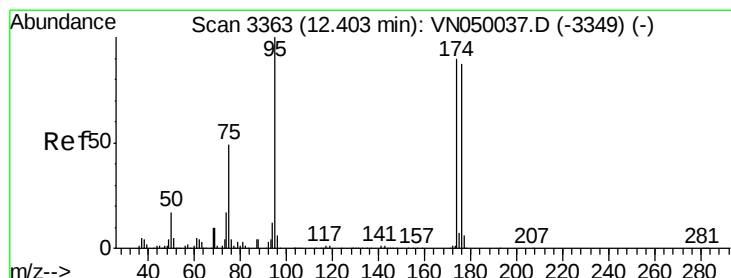
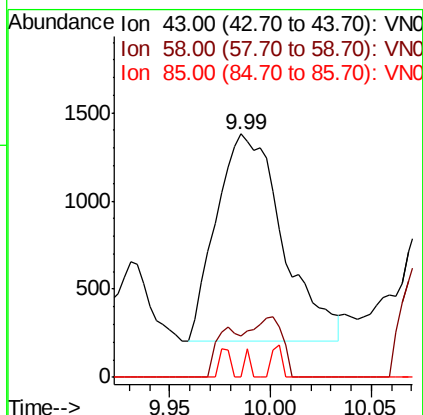
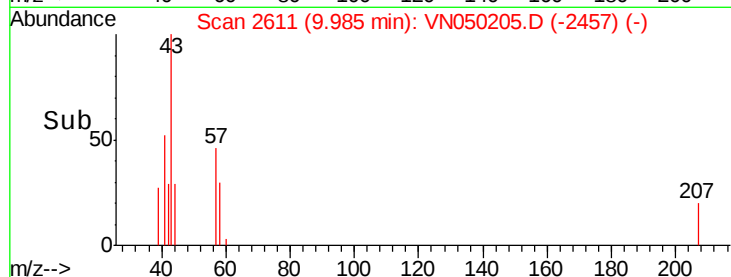
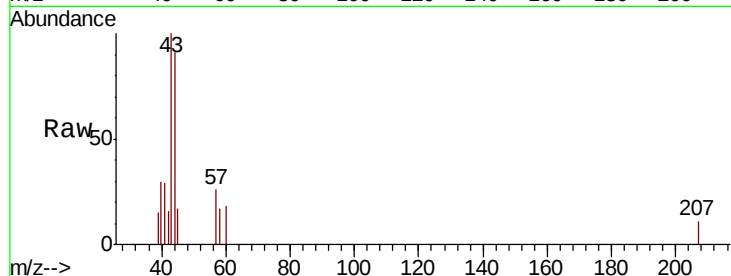




#58
4-Methyl-2-Pentanone
Concen: 0.42 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050205.D
Acq: 31 Jul 2018 10:02

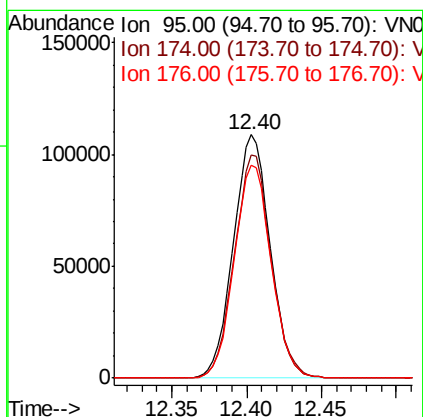
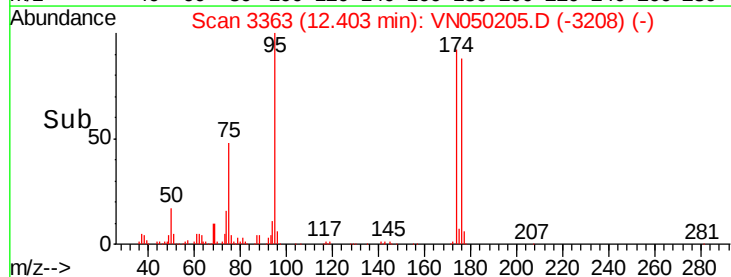
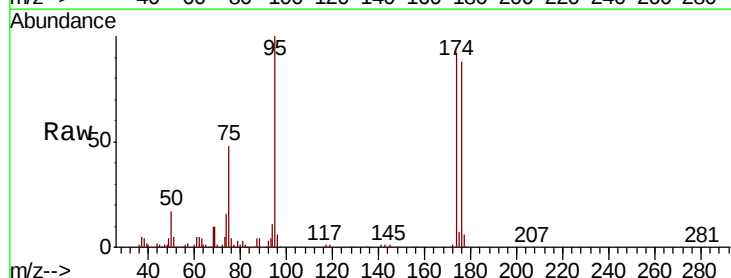
Instrument :
MSVOA_N
ClientSampled :
2-AVE-17

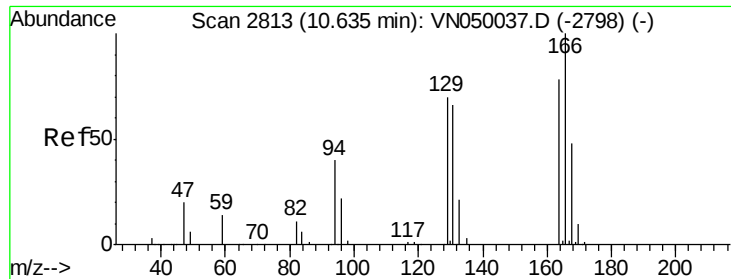
Tot Ion: 43 Resp: 2702
Ion Ratio Lower Upper
43 100
58 8.8 31.2 46.8#
85 2.3 14.4 21.6#



#60
4-Bromofluorobenzene
Concen: 22.17 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050205.D
Acq: 31 Jul 2018 10:02

Tgt Ion: 95 Resp: 186397
Ion Ratio Lower Upper
95 100
174 91.4 72.3 108.5
176 88.1 70.0 105.0





#61

Tetrachloroethene

Concen: 16.97 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN050205.D

Acq: 31 Jul 2018 10:02

Instrument :

MSVOA_N

ClientSampled :

2-AVE-17

Tot Ion:164 Resp: 125779

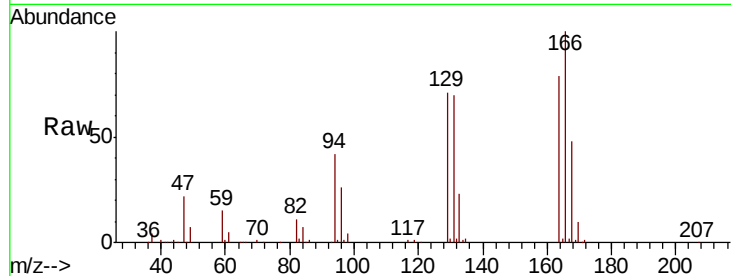
Ion Ratio Lower Upper

164 100

166 126.7 100.0 150.0

129 90.6 69.3 103.9

131 88.7 68.8 103.2

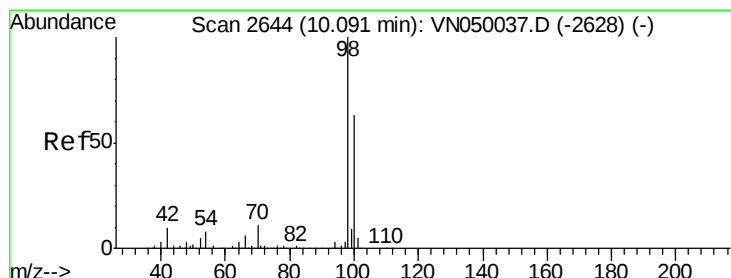
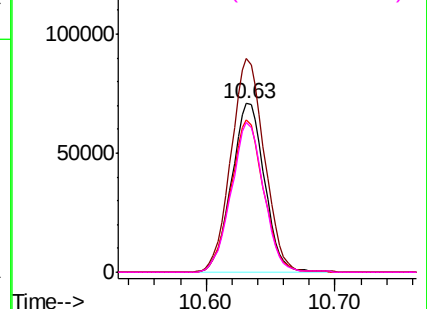
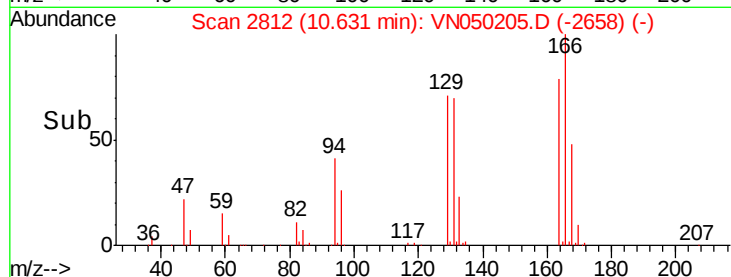


Abundance Ion 163.85 (163.55 to 164.55): V

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: 29.32 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050205.D

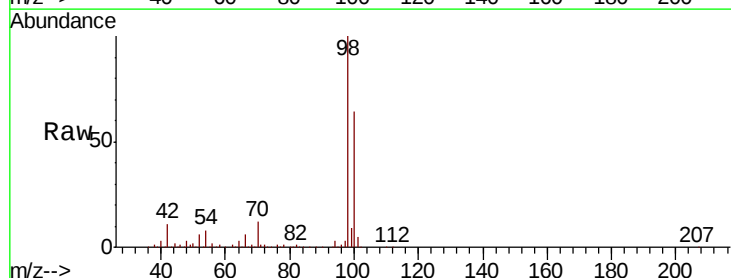
Acq: 31 Jul 2018 10:02

Tgt Ion: 98 Resp: 766308

Ion Ratio Lower Upper

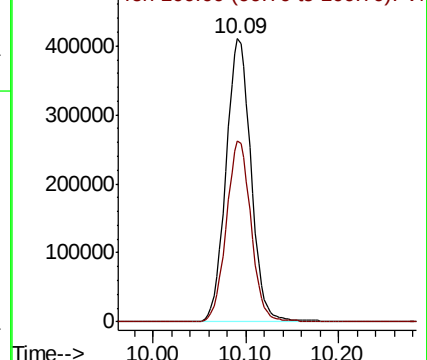
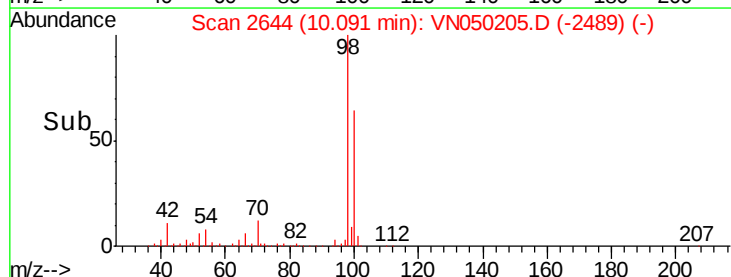
98 100

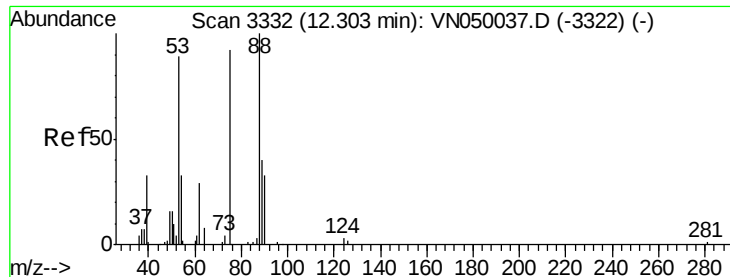
100 63.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

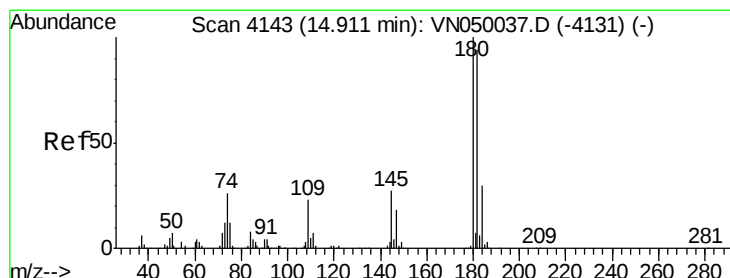
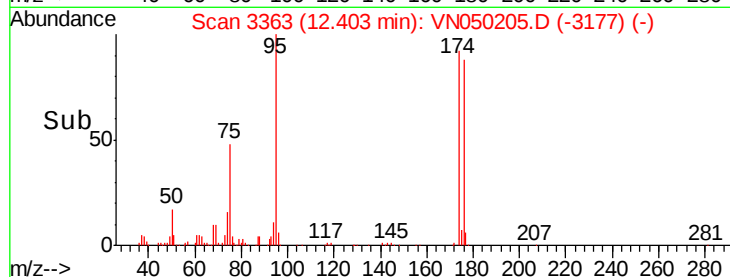
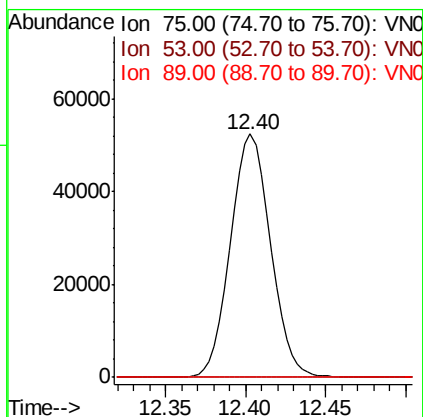
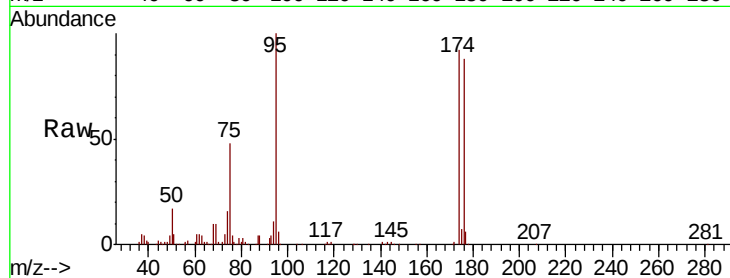




#77
t-1,4-Dichloro-2-butene
Concen: 37.55 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050205.D
Acq: 31 Jul 2018 10:02

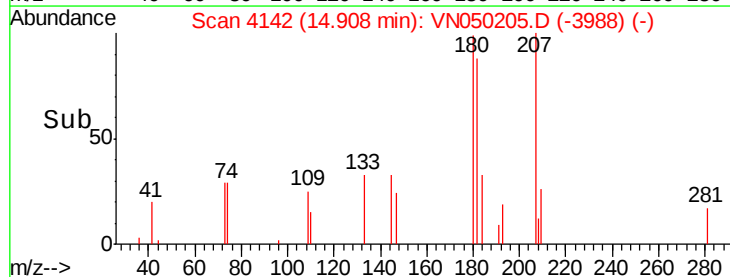
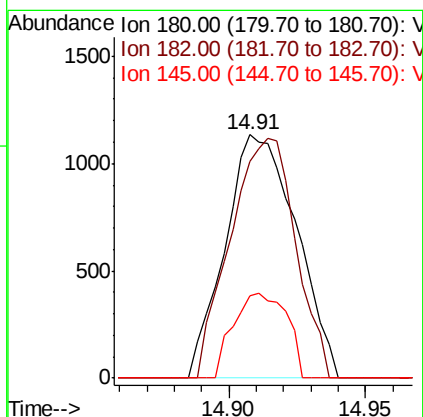
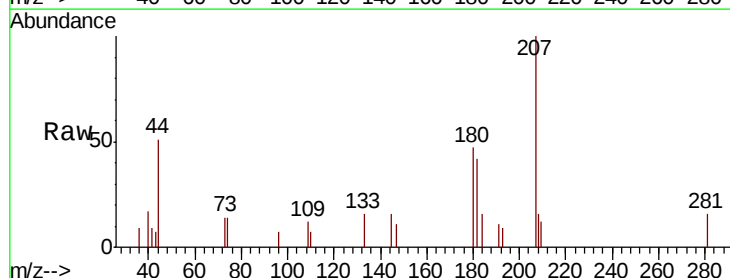
Instrument :
MSVOA_N
ClientSampleId :
2-AVE-17

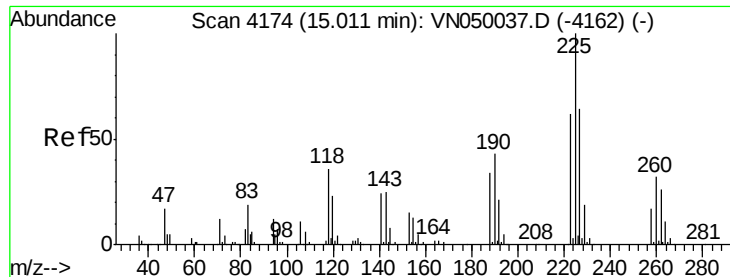
Tot Ion: 75 Resp: 89565
Ion Ratio Lower Upper
75 100
53 0.4 44.6 134.0#
89 0.0 20.7 62.1#



#89
1,2,4-Trichlorobenzene
Concen: 0.31 ug/l
RT: 14.91 min Scan# 4142
Delta R.T. -0.00 min
Lab File: VN050205.D
Acq: 31 Jul 2018 10:02

Tgt Ion: 180 Resp: 2057
Ion Ratio Lower Upper
180 100
182 90.0 76.7 115.1
145 26.0 23.4 35.0





#90

Hexachlorobutadiene

Concen: 0.24 ug/l

RT: 15.01 min Scan# 4174

Delta R.T. -0.00 min

Lab File: VN050205.D

Acq: 31 Jul 2018 10:02

Instrument :

MSVOA_N

ClientSampled :

2-AVE-17

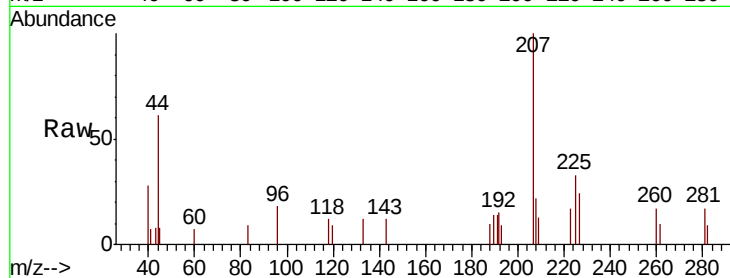
Tot Ion:225 Resp: 1080

Ion Ratio Lower Upper

225 100

223 49.3 0.0 124.4

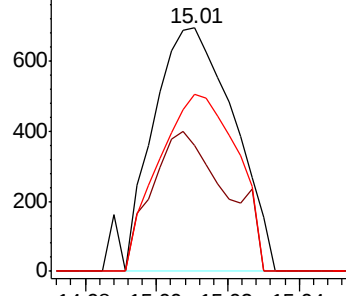
227 71.2 0.0 133.0



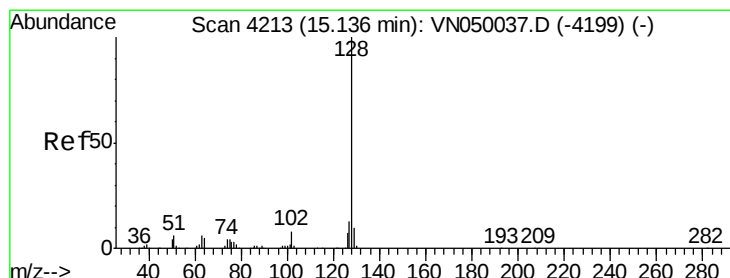
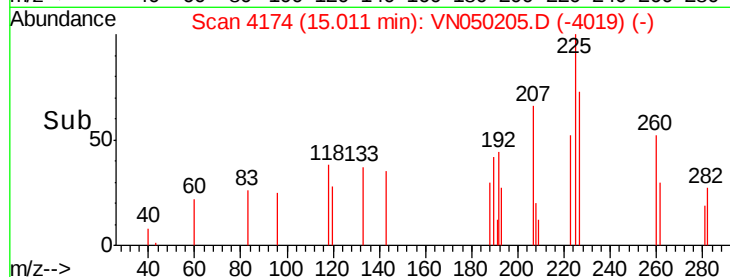
Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



Time-->



#91

Naphthalene

Concen: 7.88 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050205.D

Acq: 31 Jul 2018 10:02

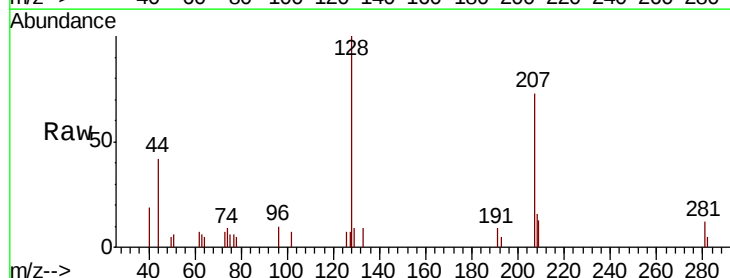
Tgt Ion:128 Resp: 5162

Ion Ratio Lower Upper

128 100

127 0.9 10.2 15.4#

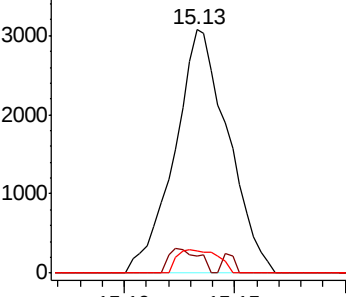
129 7.3 9.0 13.4#



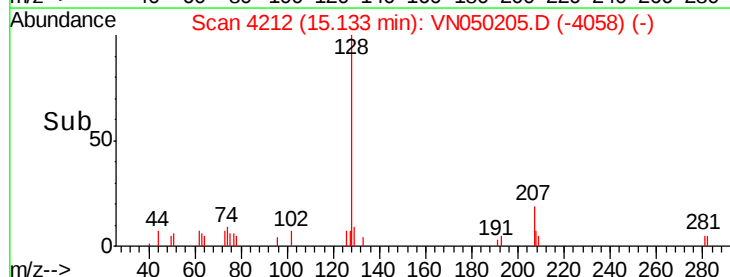
Abundance Ion 128.00 (127.70 to 128.70): V

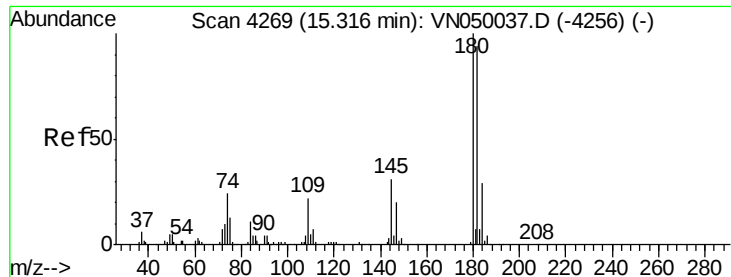
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->





#92

1,2,3-Trichlorobenzene

Concen: 0.32 ug/l

RT: 15.32 min Scan# 4271

Delta R.T. 0.01 min

Lab File: VN050205.D

Acq: 31 Jul 2018 10:02

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-17

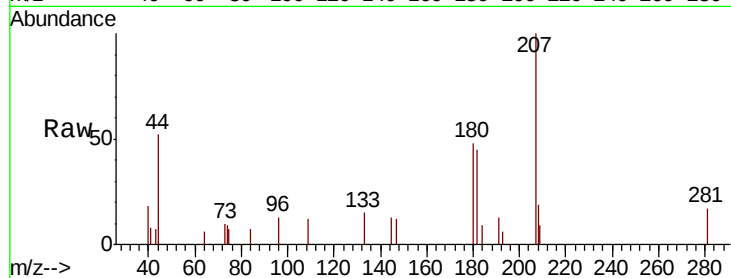
Tot Ion:180 Resp: 2183

Ion Ratio Lower Upper

180 100

182 105.9 0.0 188.8

145 36.4 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

