

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062718\
 Data File : VN049580.D
 Acq On : 27 Jun 2018 18:39
 Operator : MD\SY
 Sample : PB110627ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 28 01:24:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1113140	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1787751	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1455253	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	538461	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	737104	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
35) Dibromofluoromethane	7.59	113	616364	42.61	ug/l	0.00
Spiked Amount			Recovery	=	85.22%	
50) Toluene-d8	10.09	98	2402068	43.62	ug/l	0.00
Spiked Amount			Recovery	=	87.24%	
62) 4-Bromofluorobenzene	12.40	95	669298	36.75	ug/l	0.00
Spiked Amount			Recovery	=	73.50%	

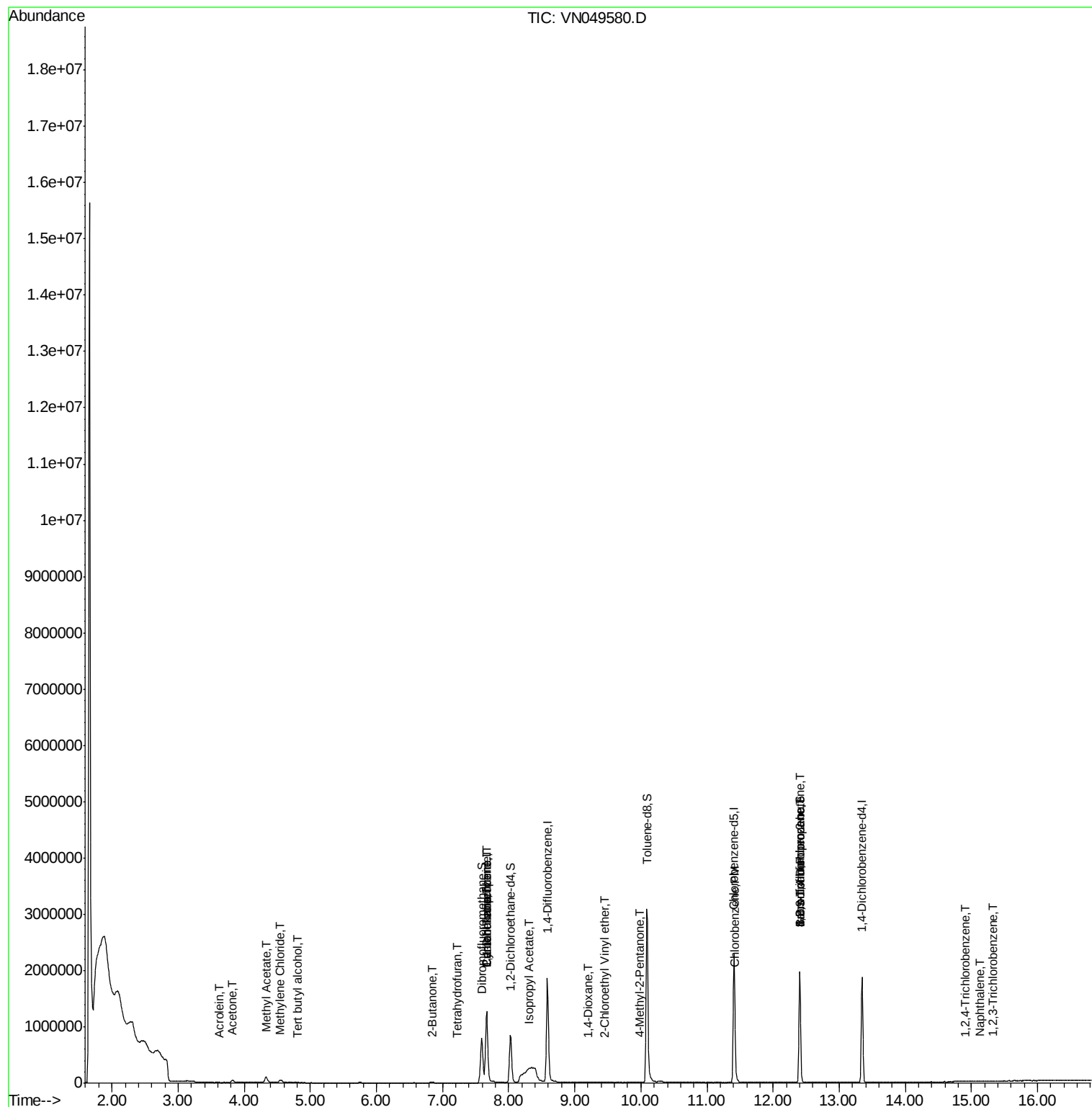
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.80	59	418	0.48	ug/l #	86
13) Acrolein	3.61	56	1924	2.12	ug/l #	81
16) Acetone	3.82	43	87328	24.36	ug/l	92
18) Methyl Acetate	4.33	43	198059	18.12	ug/l	97
20) Methylene Chloride	4.55	84	35706	2.38	ug/l #	85
25) 2-Butanone	6.85	43	9701	2.02	ug/l	91
29) Tetrahydrofuran	7.22	42	2299	0.74	ug/l #	55
31) Cyclohexane	7.67	56	21180	0.80	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	74537	3.64	ug/l #	51
38) Carbon Tetrachloride	7.67	117	99344	4.68	ug/l #	18
43) Isopropyl Acetate	8.29	43	486084	22.84	ug/l #	64
49) 1,4-Dioxane	9.20	88	58	0.42	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	7324	0.66	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.46	63	65	14.34	ug/l #	51
65) Chlorobenzene	11.43	112	17861	0.48	ug/l #	84
71) Bromoform	12.40	173	4294	0.47	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.51	83	80	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	323942	35.26	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	323942	111.44	ug/l #	9
90) Hexachloroethane	13.98	117	112	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.91	180	404	4.78	ug/l #	35
95) Naphthalene	15.13	128	1290	2.17	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.33	180	104	3.47	ug/l #	6

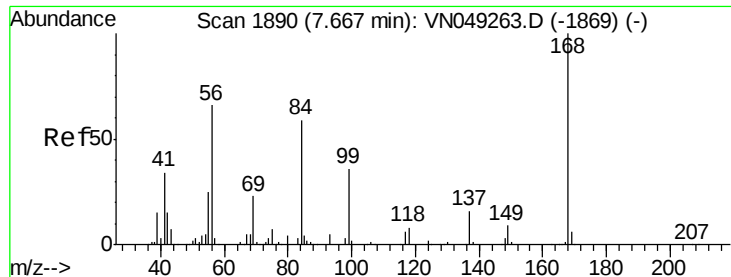
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

Instrument :

MSVOA_N

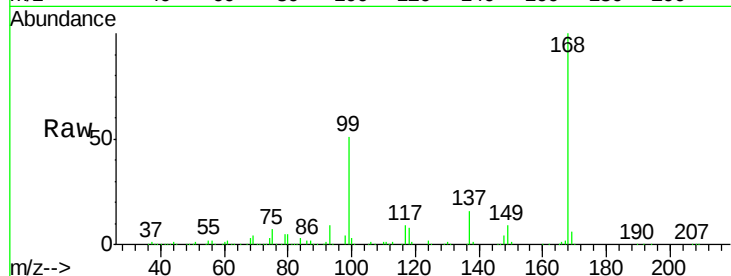
ClientSampled :

Tot Ion:168 Resp: 1113140

Ion Ratio Lower Upper

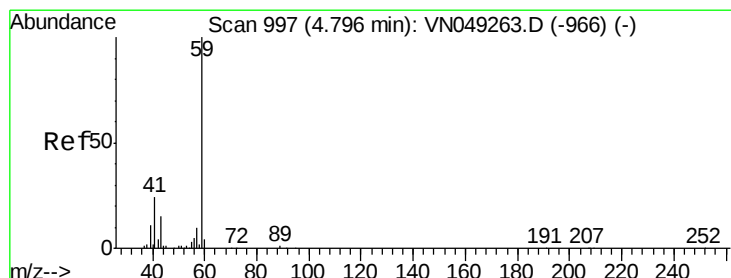
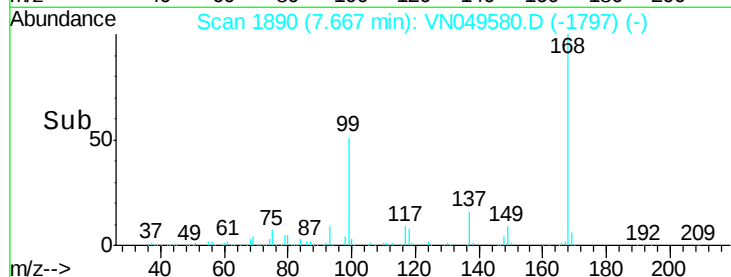
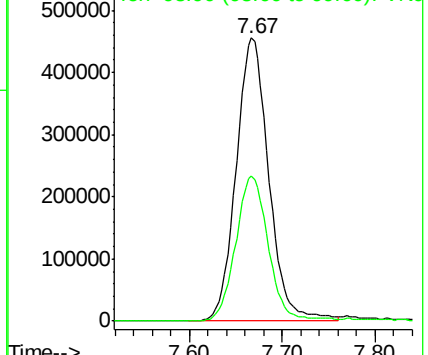
168 100

99 51.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.48 ug/l

RT: 4.80 min Scan# 997

Delta R.T. -0.00 min

Lab File: VN049580.D

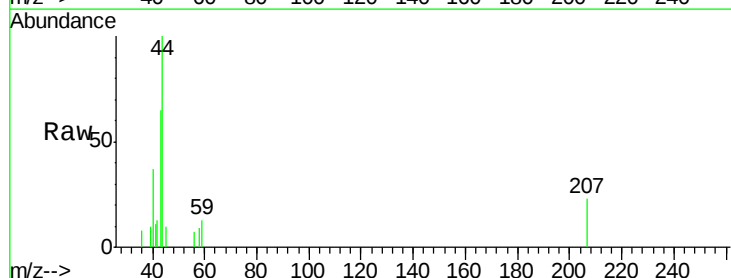
Acq: 27 Jun 2018 18:39

Tgt Ion: 59 Resp: 418

Ion Ratio Lower Upper

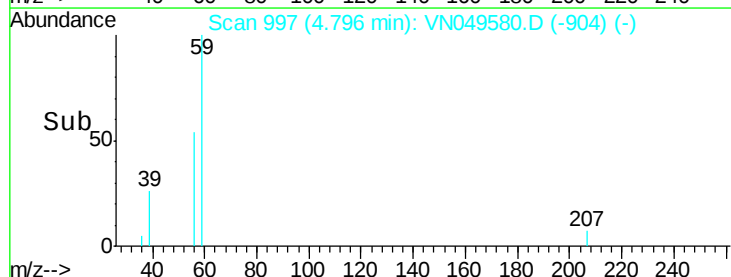
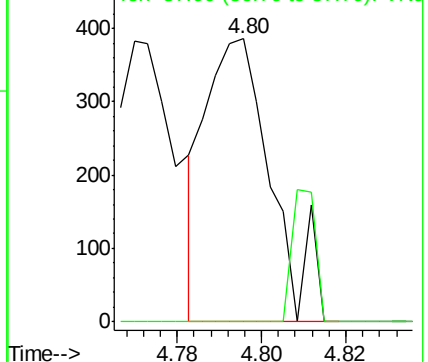
59 100

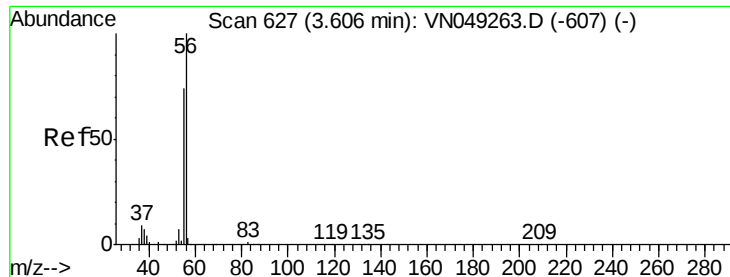
57 16.5 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#13

Acrolein

Concen: 2.12 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

Instrument :

MSVOA_N

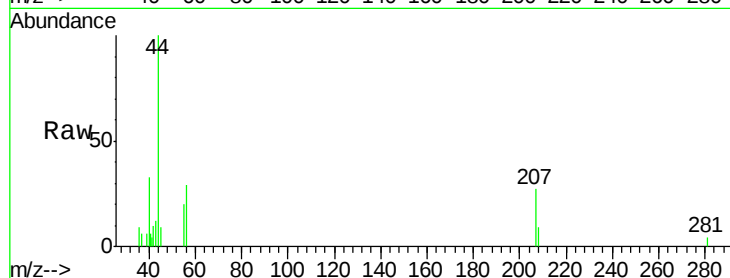
ClientSampled :

Tot Ion: 56 Resp: 1924

Ion Ratio Lower Upper

56 100

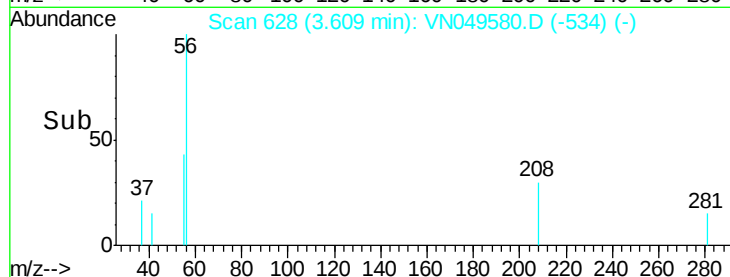
55 56.0 57.1 85.7#



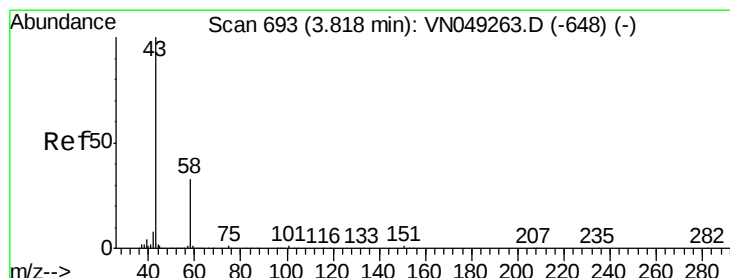
Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Time-->



Time-->



#16

Acetone

Concen: 24.36 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049580.D

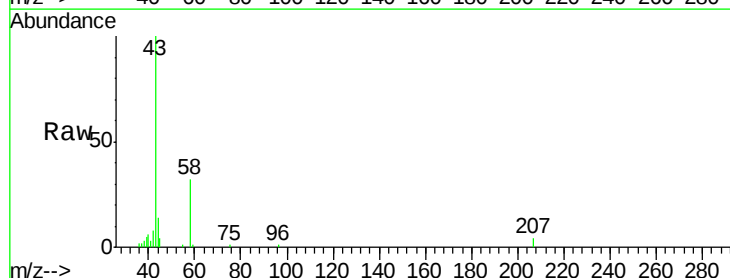
Acq: 27 Jun 2018 18:39

Tgt Ion: 43 Resp: 87328

Ion Ratio Lower Upper

43 100

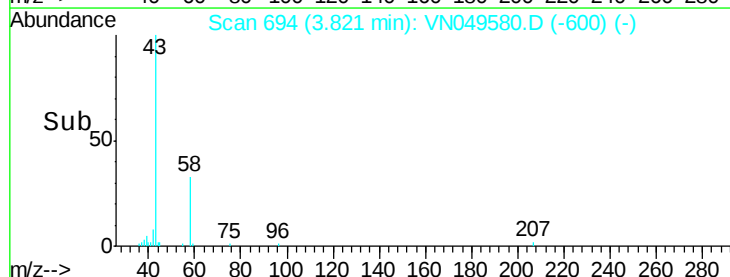
58 32.1 22.4 33.6



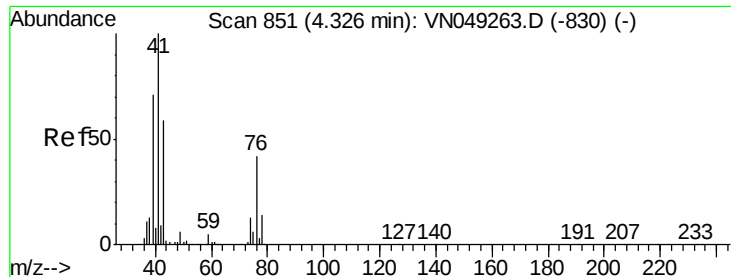
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Time-->



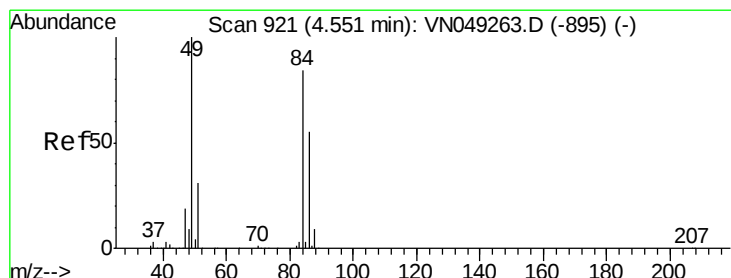
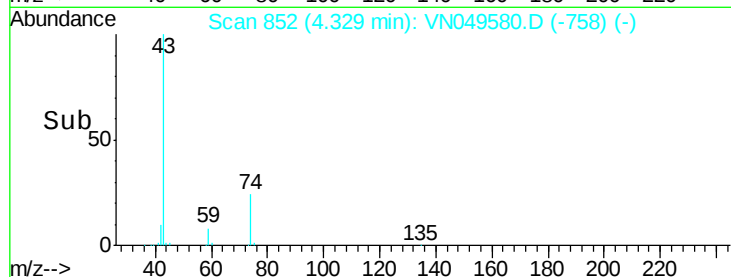
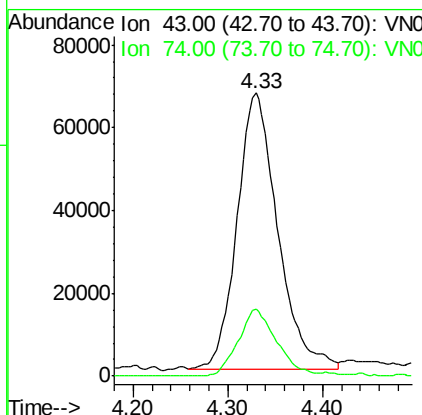
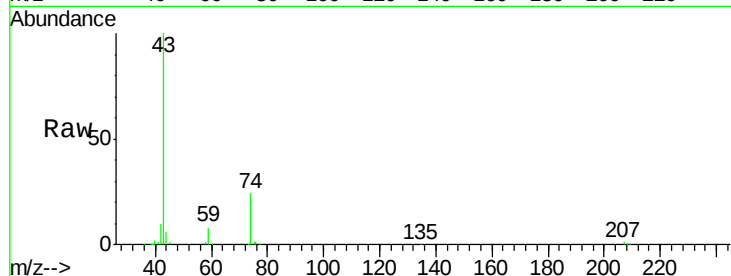
Time-->



#18
Methvl Acetate
Concen: 18.12 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049580.D
Acq: 27 Jun 2018 18:39

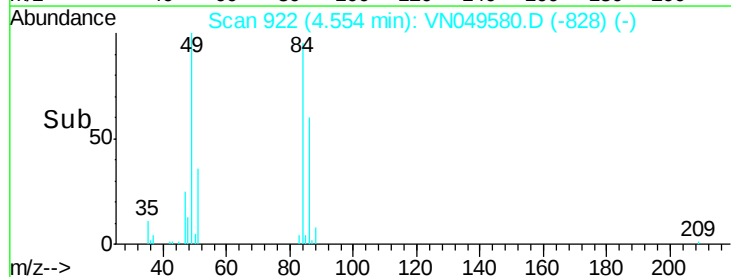
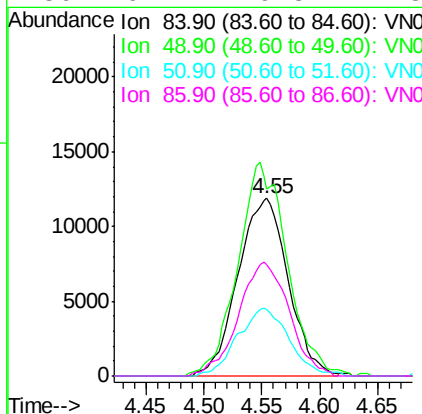
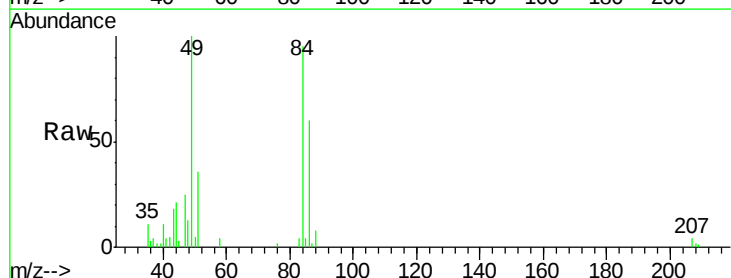
Instrument :
MSVOA_N
ClientSampleId :

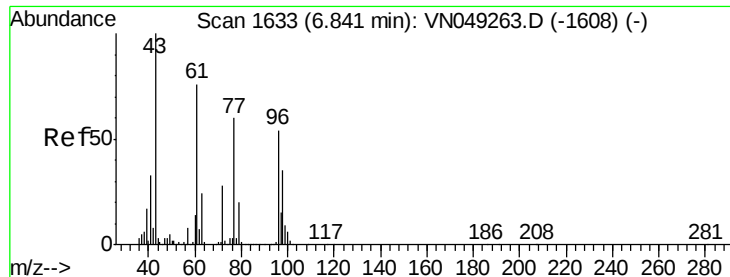
Tot Ion: 43 Resp: 198059
Ion Ratio Lower Upper
43 100
74 23.1 17.4 26.0



#20
Methylene Chloride
Concen: 2.38 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049580.D
Acq: 27 Jun 2018 18:39

Tgt Ion: 84 Resp: 35706
Ion Ratio Lower Upper
84 100
49 103.9 106.9 160.3#
51 37.5 32.7 49.1
86 62.7 49.8 74.8

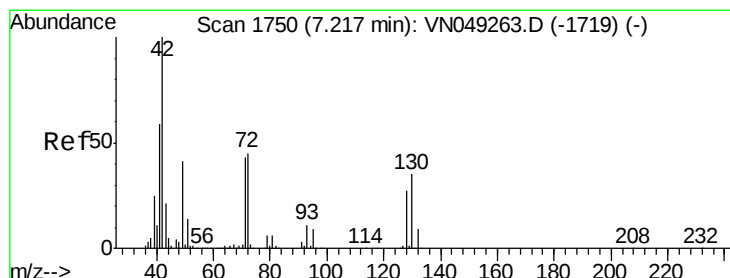
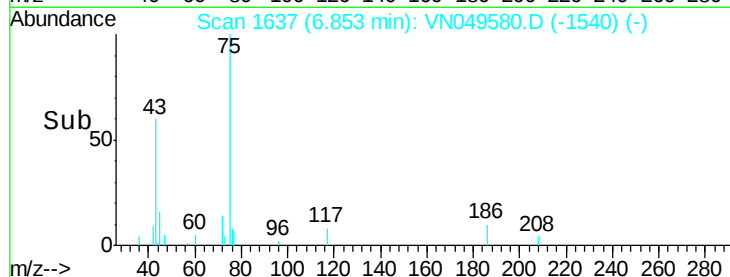
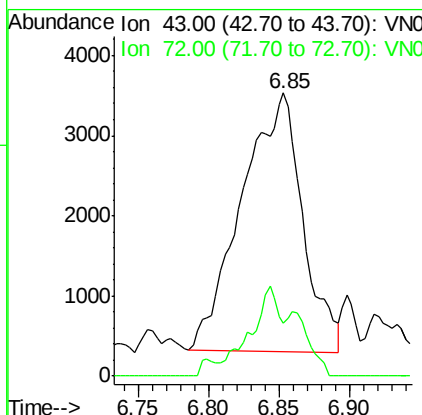
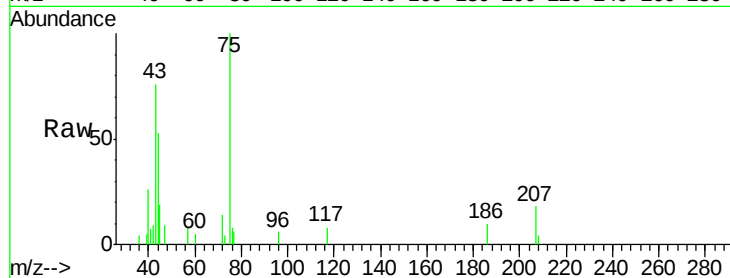




#25
2-Butanone
Concen: 2.02 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN049580.D
Acq: 27 Jun 2018 18:39

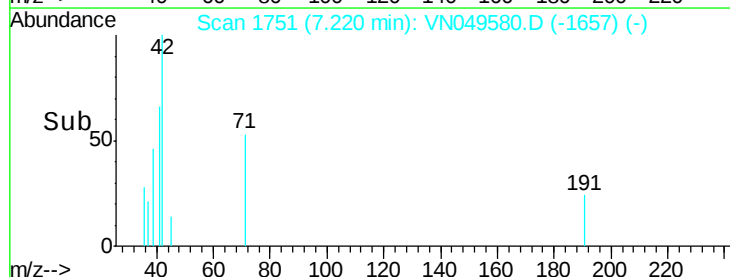
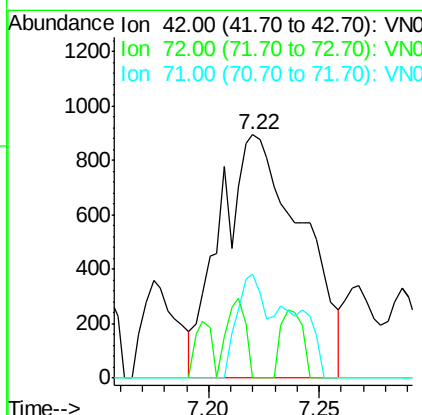
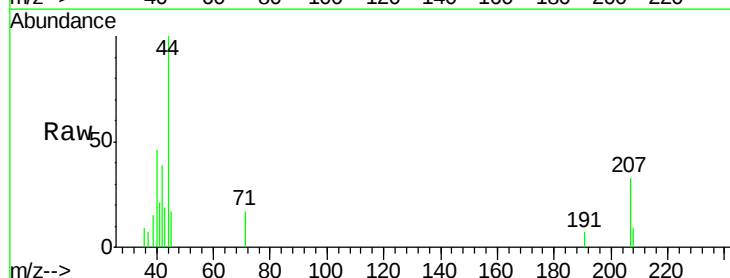
Instrument :
MSVOA_N
ClientSampled :

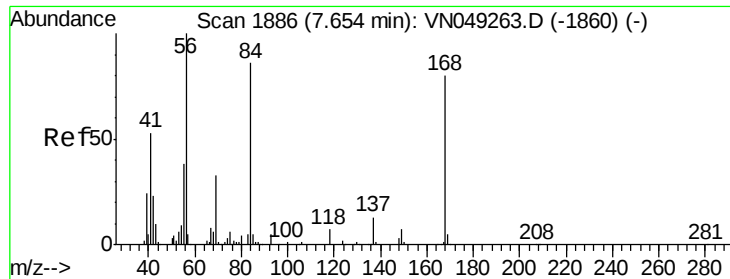
Tot Ion: 43 Resp: 9701
Ion Ratio Lower Upper
43 100
72 20.5 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.74 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049580.D
Acq: 27 Jun 2018 18:39

Tgt Ion: 42 Resp: 2299
Ion Ratio Lower Upper
42 100
72 7.6 32.2 48.4#
71 16.1 30.5 45.7#

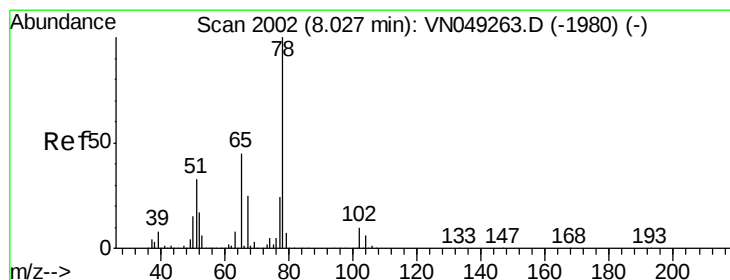
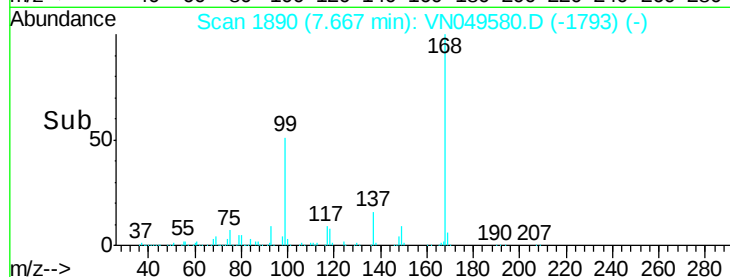
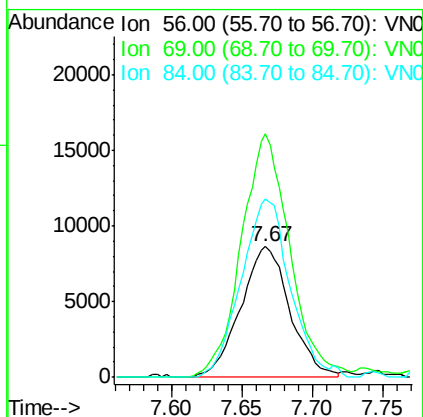
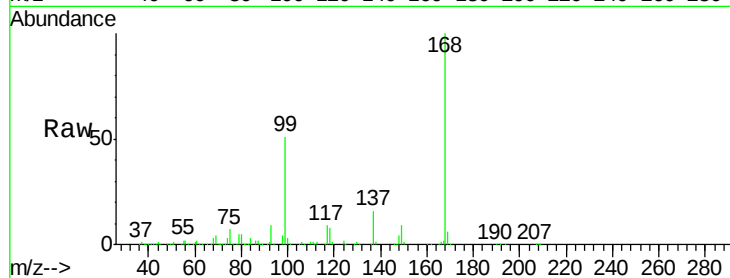




#31
Cyclohexane
Concen: 0.80 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049580.D
Acq: 27 Jun 2018 18:39

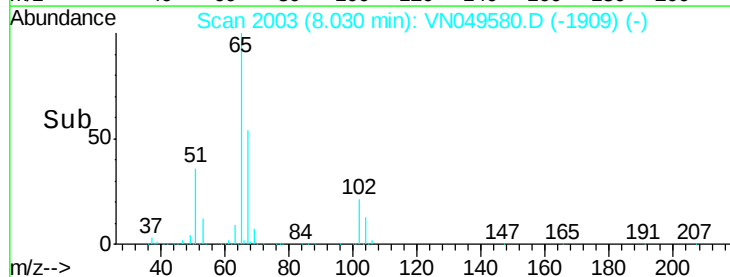
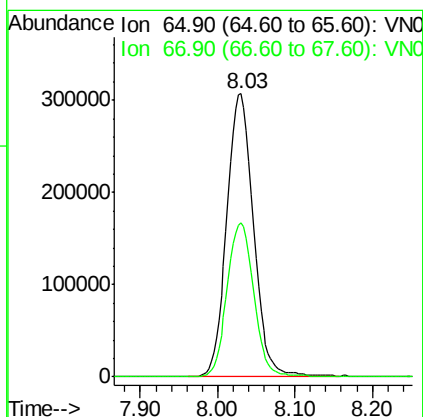
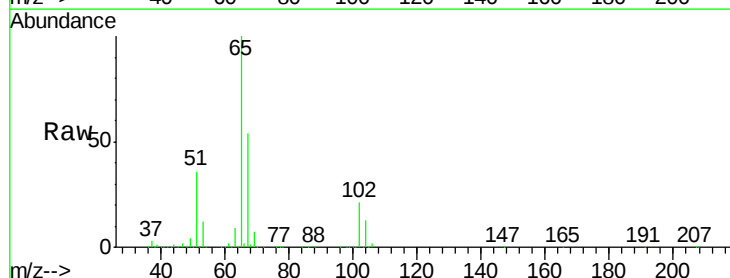
Instrument :
MSVOA_N
ClientSampleId :

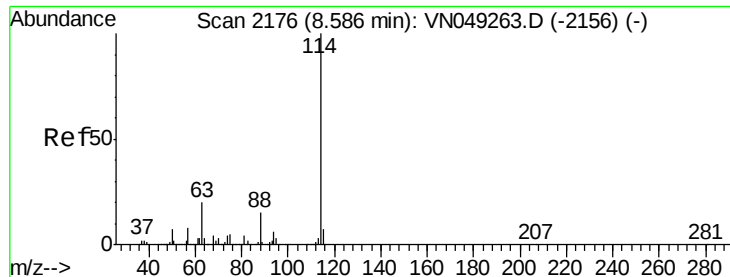
Tot Ion: 56 Resp: 21180
Ion Ratio Lower Upper
56 100
69 186.0 25.0 37.4#
84 136.6 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 49.93 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049580.D
Acq: 27 Jun 2018 18:39

Tgt Ion: 65 Resp: 737104
Ion Ratio Lower Upper
65 100
67 54.0 0.0 103.8



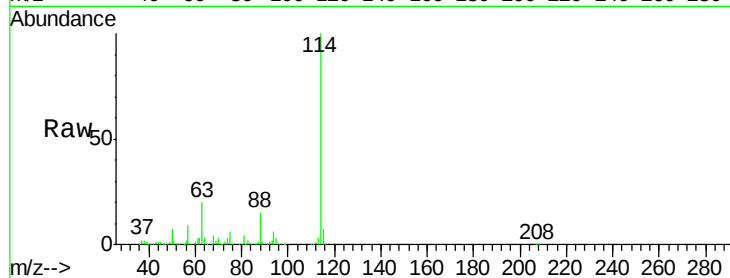


#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049580.D
 Acq: 27 Jun 2018 18:39

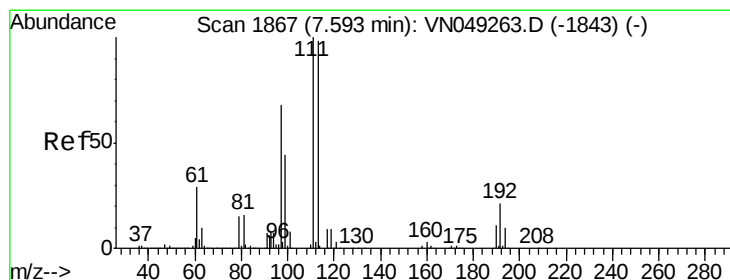
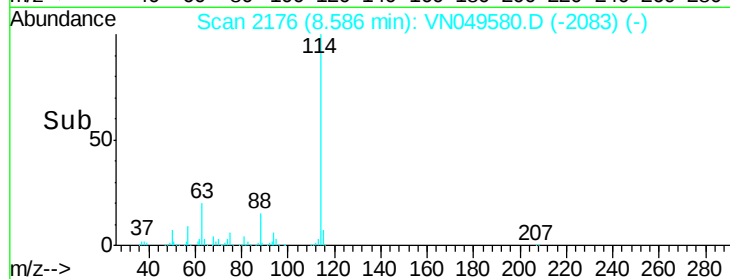
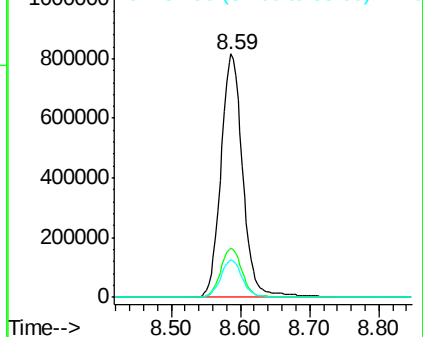
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 1787751

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	44.4
88	15.5	0.0	31.4



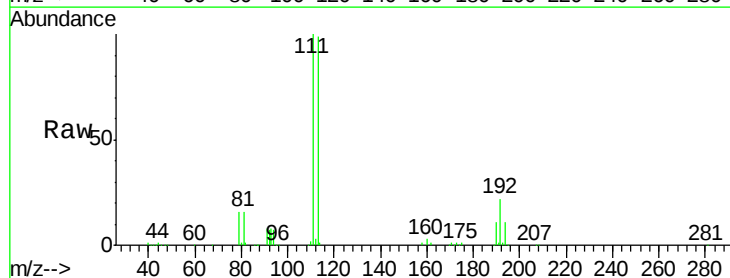
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V



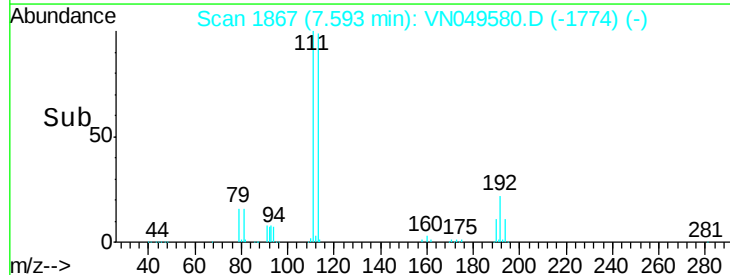
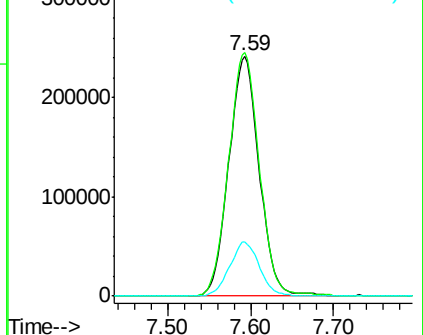
#35
 Dibromofluoromethane
 Concen: 42.61 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049580.D
 Acq: 27 Jun 2018 18:39

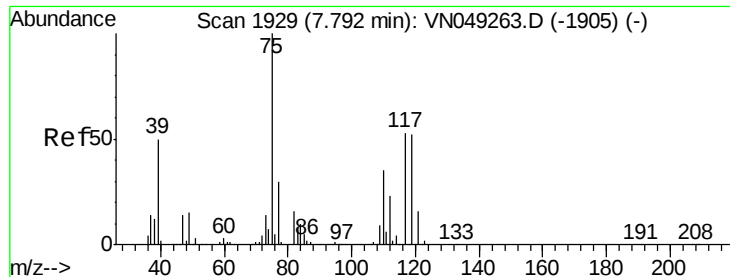
Tgt Ion:113 Resp: 616364

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	22.3	15.0	22.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.64 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

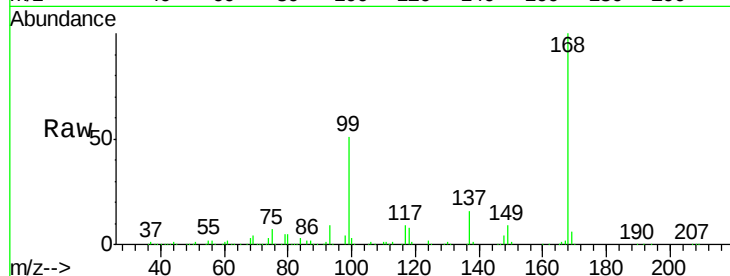
Tot Ion: 75 Resp: 74537

Ion Ratio Lower Upper

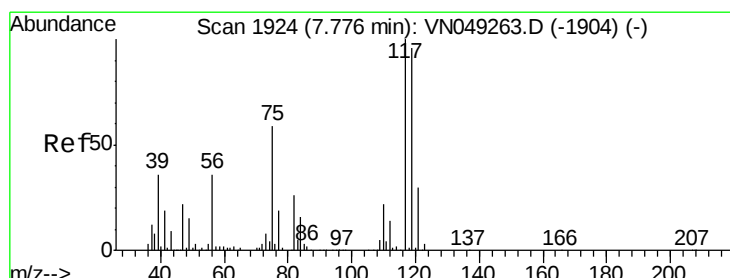
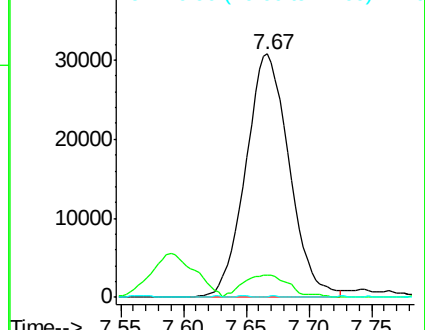
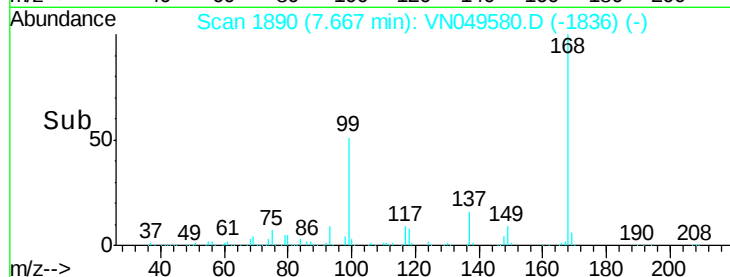
75 100

110 9.7 17.0 50.9#

77 0.1 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VN049580.D (-1836) (-)



#38

Carbon Tetrachloride

Concen: 4.68 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

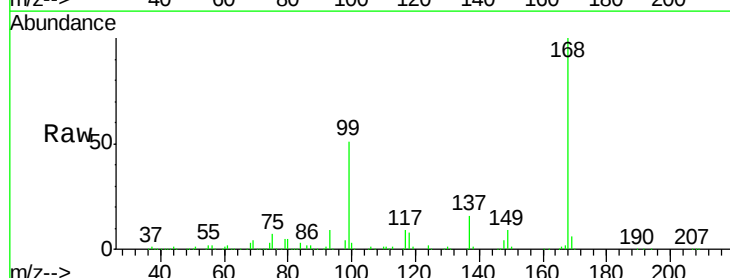
Tgt Ion: 117 Resp: 99344

Ion Ratio Lower Upper

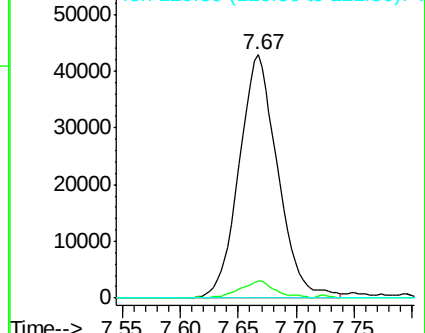
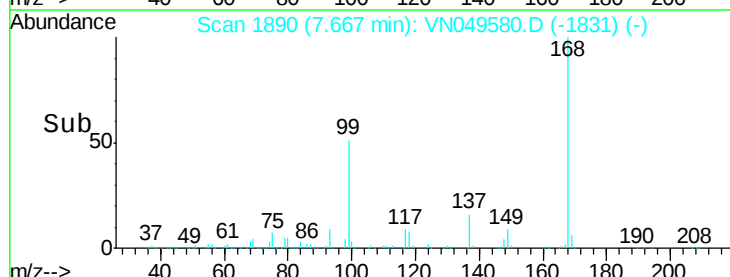
117 100

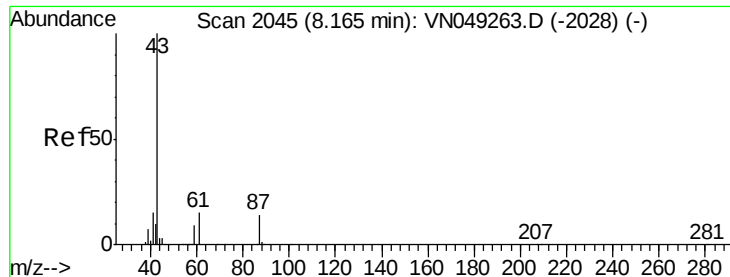
119 7.0 75.6 113.4#

121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): VN049580.D (-1831) (-)



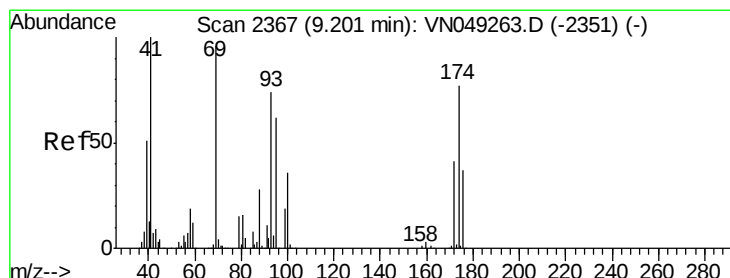
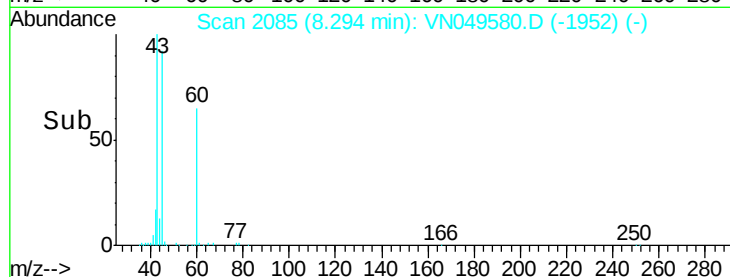
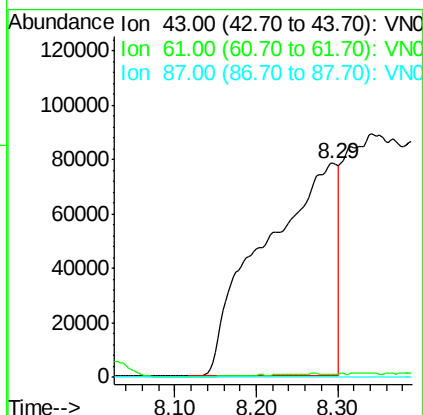
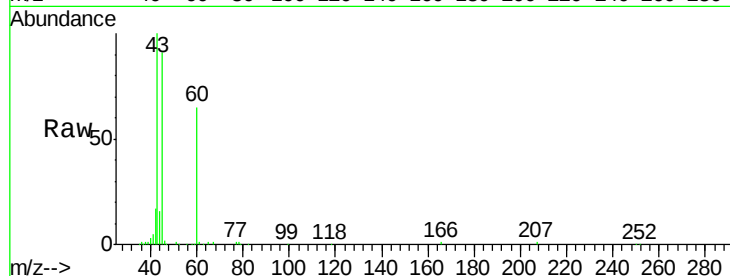


#43

Isopropyl Acetate
 Concen: 22.84 ug/l
 RT: 8.29 min Scan# 2085
 Delta R.T. 0.13 min
 Lab File: VN049580.D
 Acq: 27 Jun 2018 18:39

Instrument :
 MSVOA_N
 ClientSampleId :

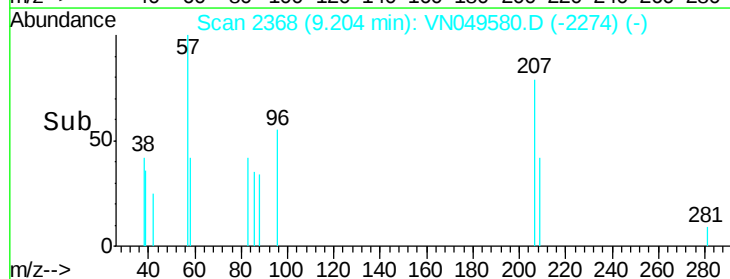
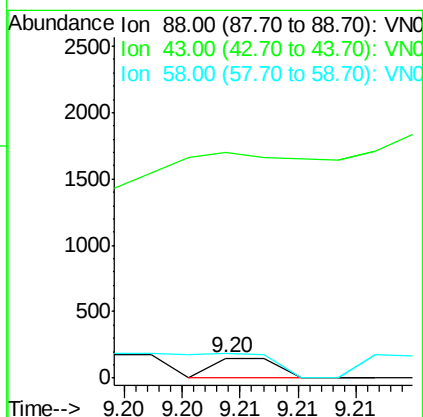
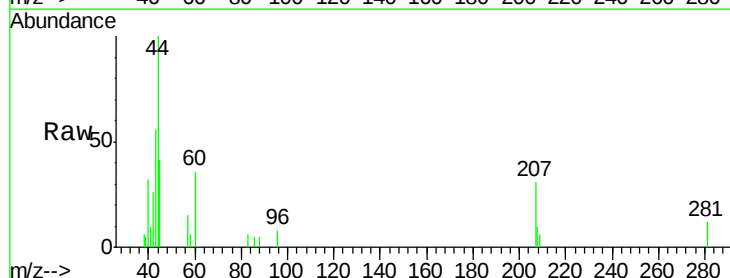
Tot Ion	43	Resp	486084
Ion Ratio	100		
Lower	14.2		
Upper	21.4#		
61	0.0		
87	0.0		
	9.4		
	14.0#		

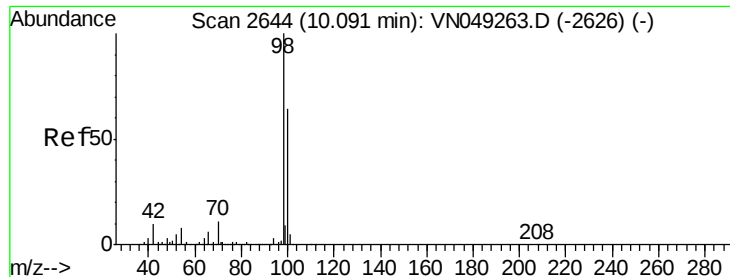


#49

1,4-Dioxane
 Concen: 0.42 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN049580.D
 Acq: 27 Jun 2018 18:39

Tgt Ion	88	Resp	58
Ion Ratio	100		
Lower	30.9		
Upper	46.3#		
43	425.9		
58	300.0		
	58.9		
	88.3#		

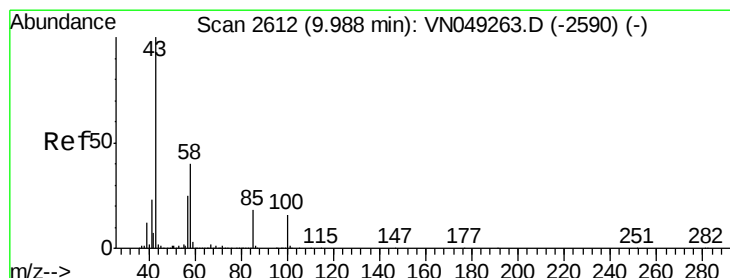
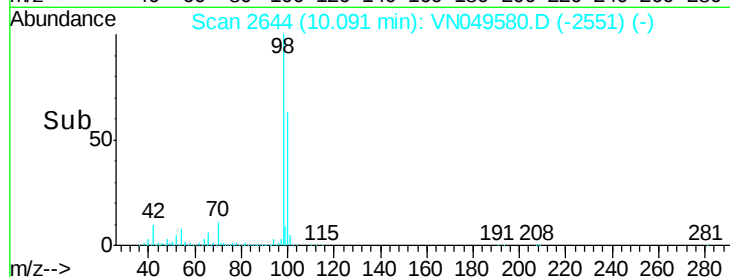
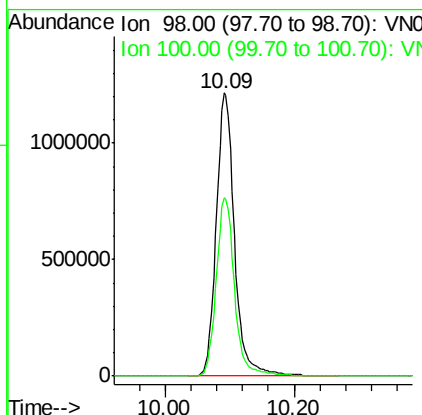
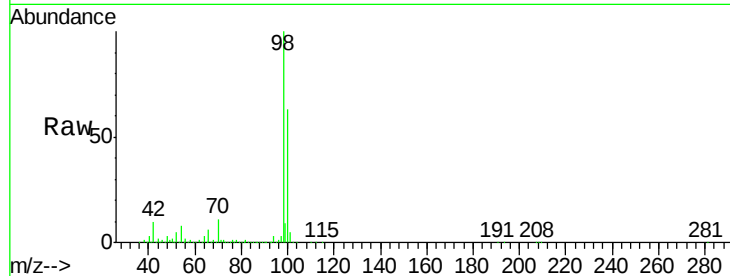




#50
Toluene-d8
Concen: 43.62 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049580.D
Acq: 27 Jun 2018 18:39

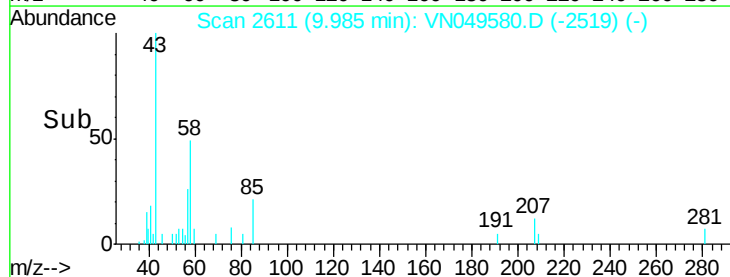
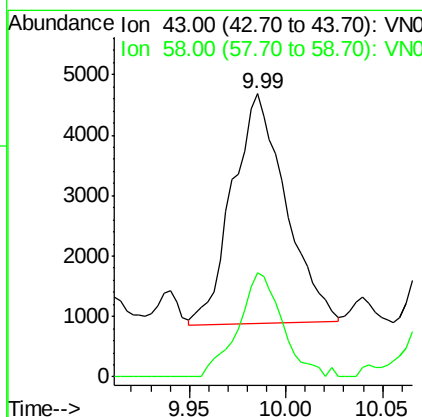
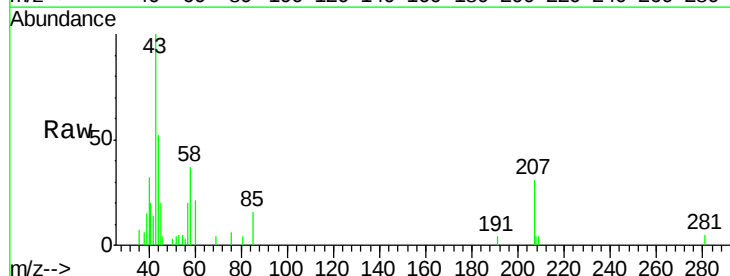
Instrument :
MSVOA_N
ClientSampled :

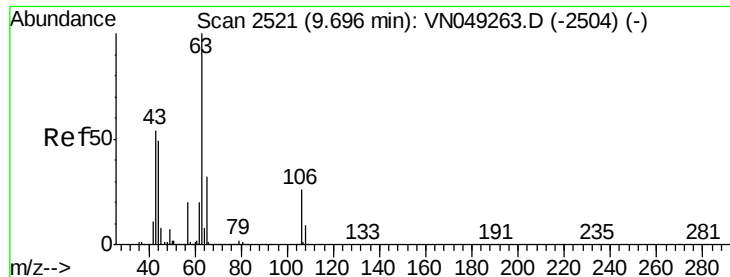
Tot Ion: 98 Resp: 2402068
Ion Ratio Lower Upper
98 100
100 63.4 49.8 74.8



#51
4-Methyl-2-Pentanone
Concen: 0.66 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN049580.D
Acq: 27 Jun 2018 18:39

Tgt Ion: 43 Resp: 7324
Ion Ratio Lower Upper
43 100
58 37.6 29.0 43.6





#58

2-Chloroethyl Vinyl ether

Concen: 14.34 ug/l

RT: 9.46 min Scan# 2448

Delta R.T. -0.23 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

Instrument :

MSVOA_N

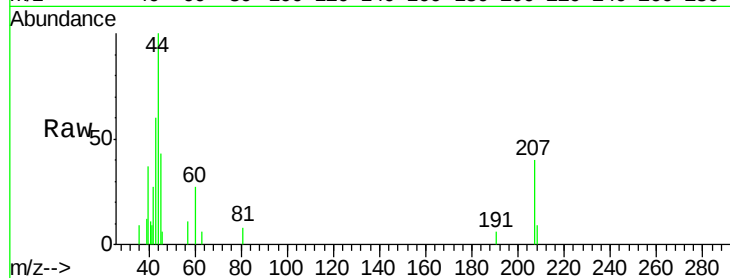
ClientSampleId :

Tot Ion: 63 Resp: 65

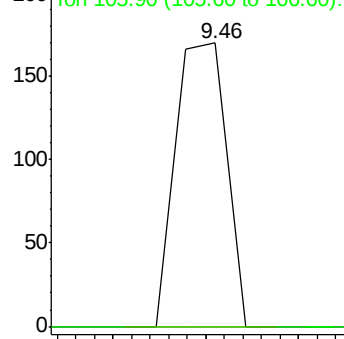
Ion Ratio Lower Upper

63 100

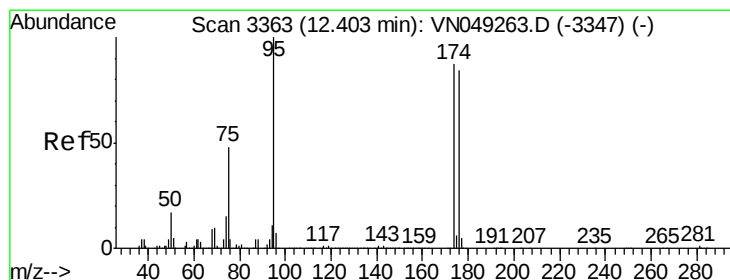
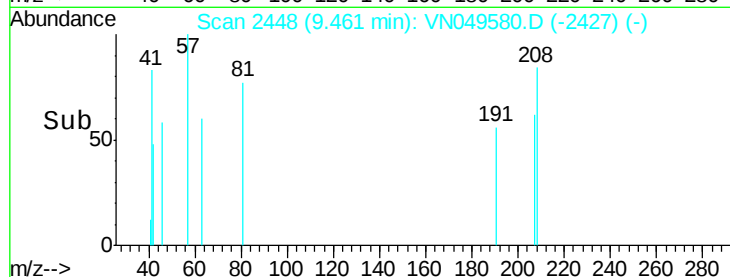
106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN049263.D (-2504) (-)



Time-->



#62

4-Bromofluorobenzene

Concen: 36.75 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

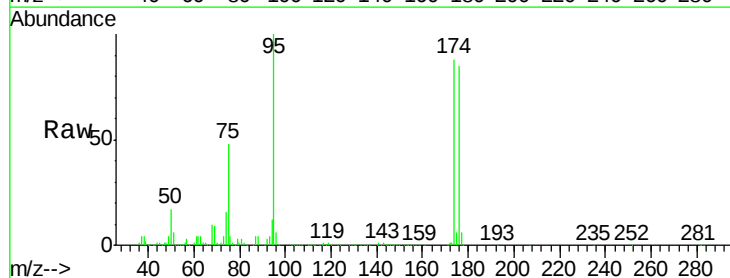
Tgt Ion: 95 Resp: 669298

Ion Ratio Lower Upper

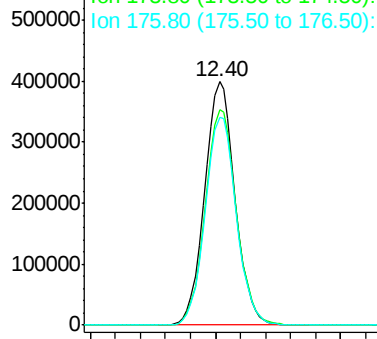
95 100

174 90.7 0.0 165.6

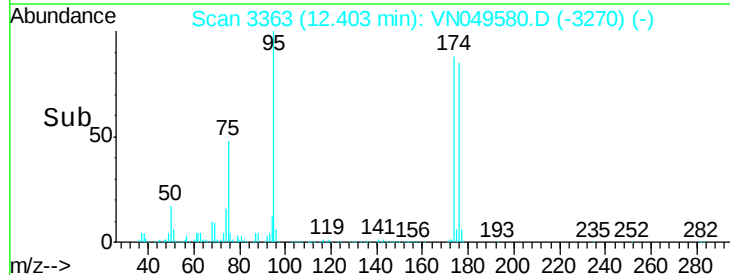
176 87.5 0.0 157.4

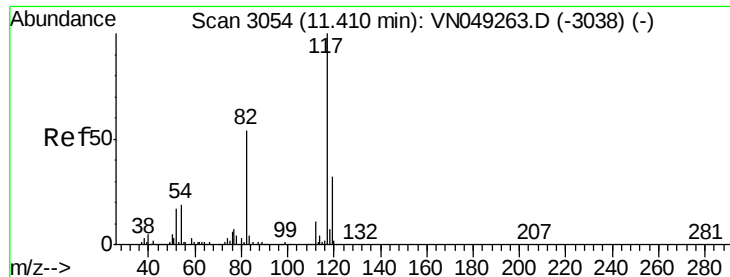


Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)



Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

Instrument :

MSVOA_N

ClientSampled :

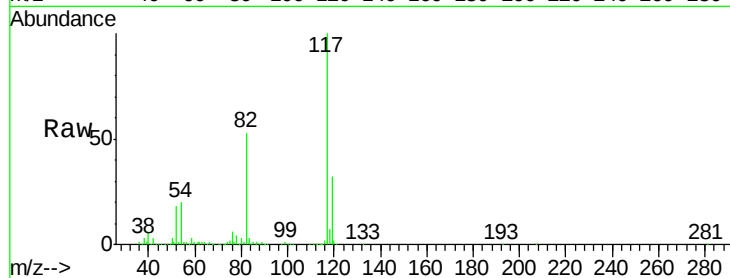
Tot Ion:117 Resp: 1455253

Ion Ratio Lower Upper

117 100

82 53.4 45.9 68.9

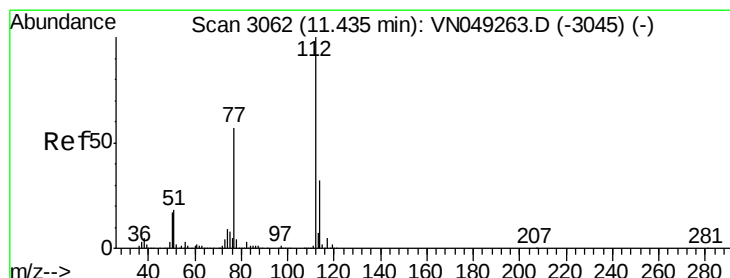
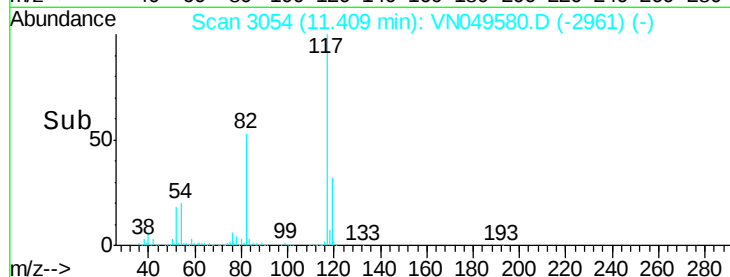
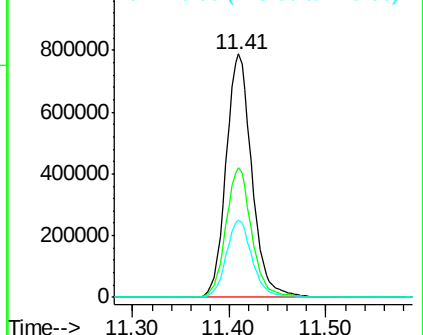
119 31.8 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#65

Chlorobenzene

Concen: 0.48 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN049580.D

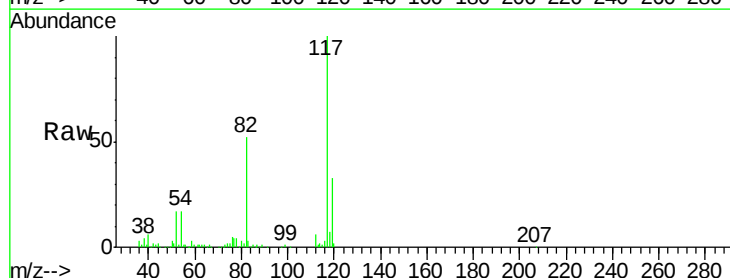
Acq: 27 Jun 2018 18:39

Tgt Ion:112 Resp: 17861

Ion Ratio Lower Upper

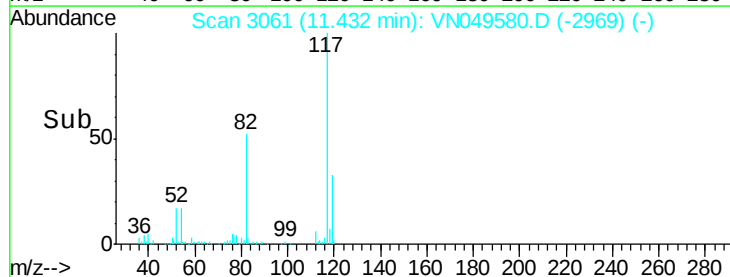
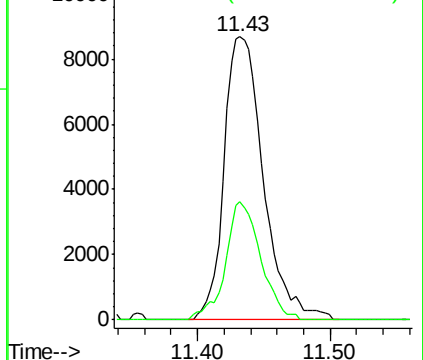
112 100

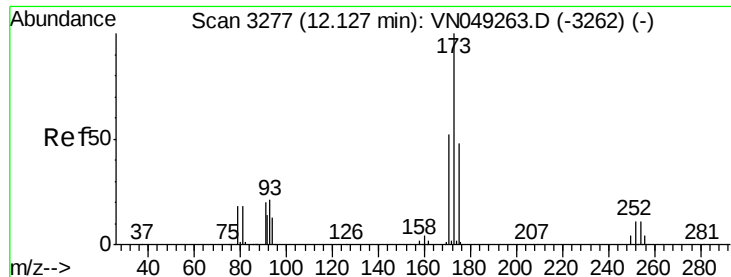
114 41.8 26.2 39.4#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

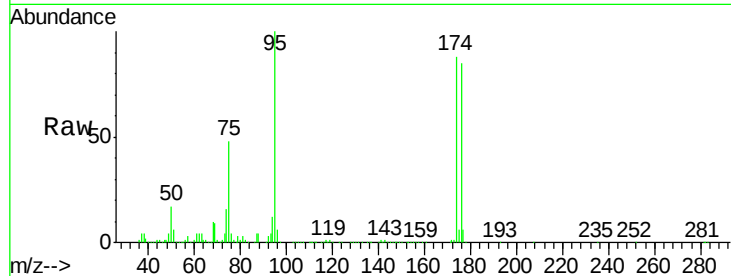
Tot Ion:173 Resp: 4294

Ion Ratio Lower Upper

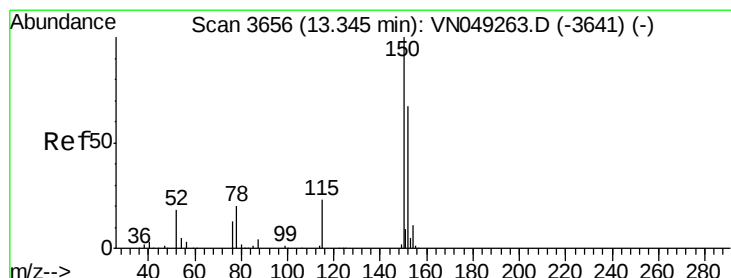
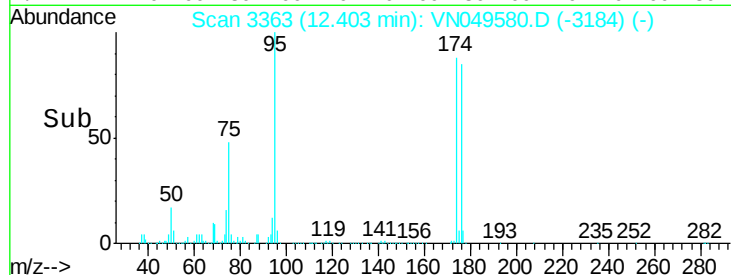
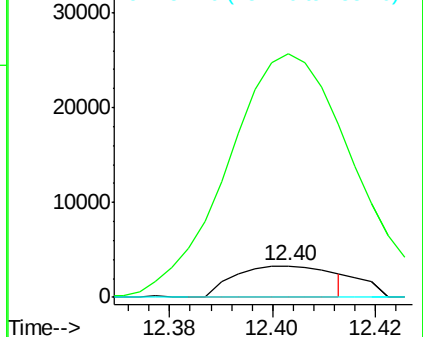
173 100

175 834.7 24.5 73.5#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

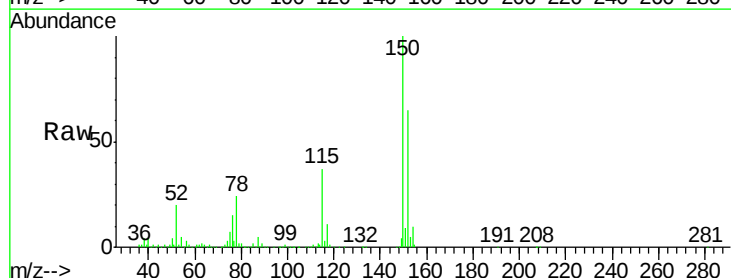
Tgt Ion:152 Resp: 538461

Ion Ratio Lower Upper

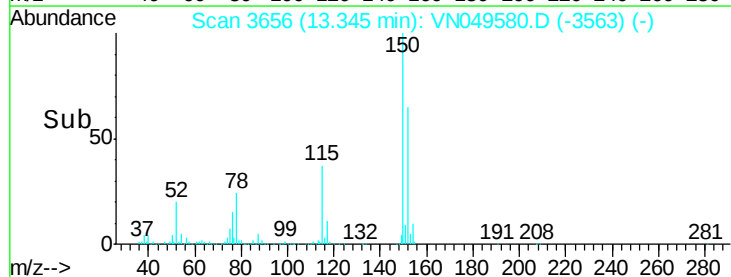
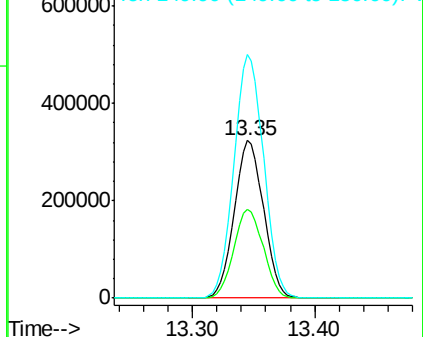
152 100

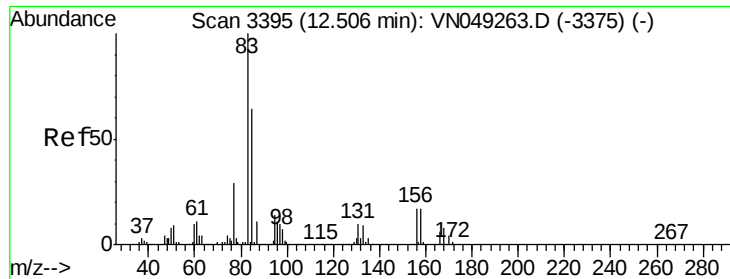
115 56.8 28.7 86.1

150 157.0 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

Instrument :

MSVOA_N

ClientSampled :

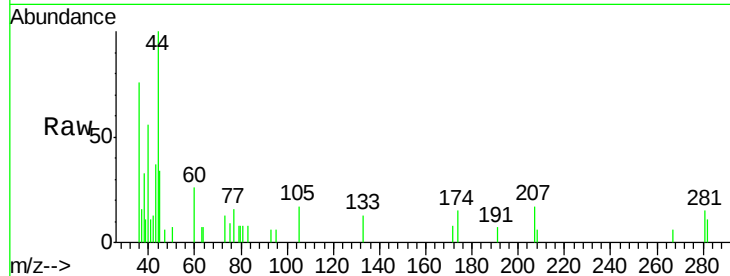
Tot Ion: 83 Resp: 80

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

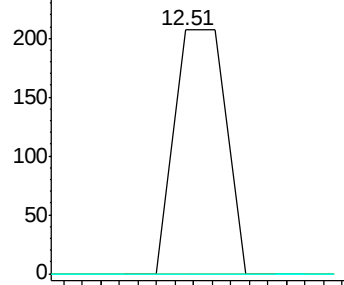
85 0.0 32.0 96.0#



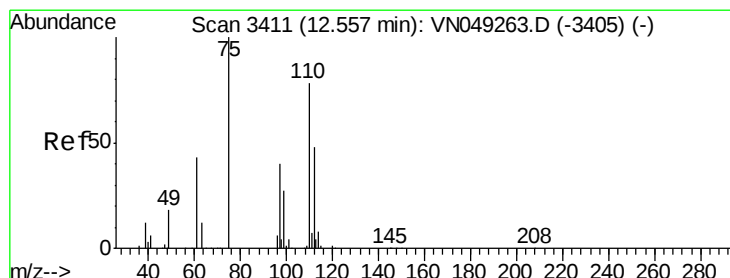
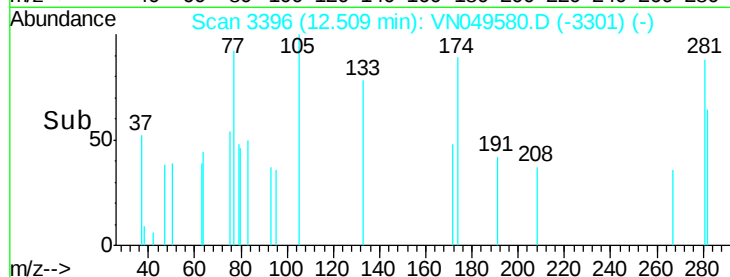
Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



Time-->



#76

1,2,3-Trichloropropane

Concen: 35.26 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049580.D

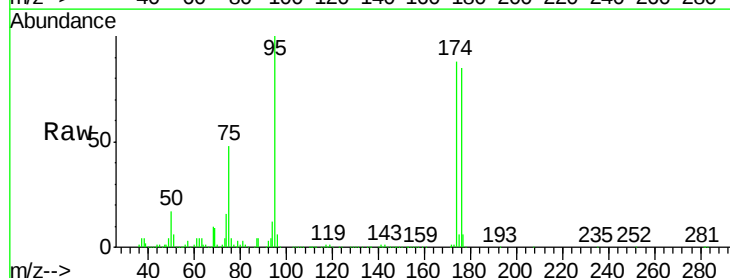
Acq: 27 Jun 2018 18:39

Tgt Ion: 75 Resp: 323942

Ion Ratio Lower Upper

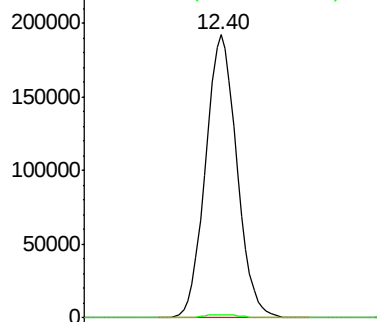
75 100

77 1.3 0.0 0.0#

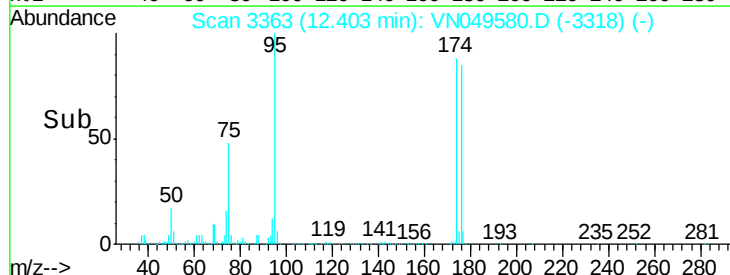


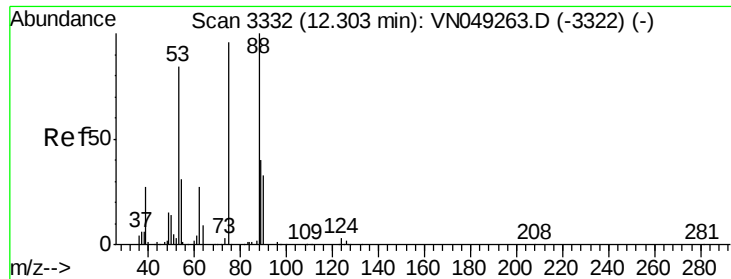
Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 111.44 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049580.D

Acq: 27 Jun 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

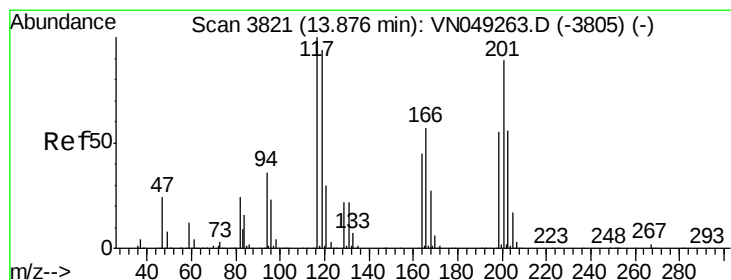
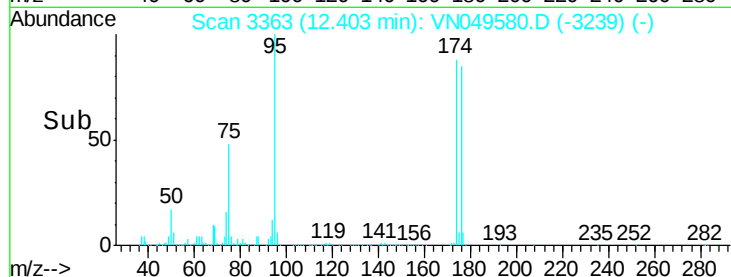
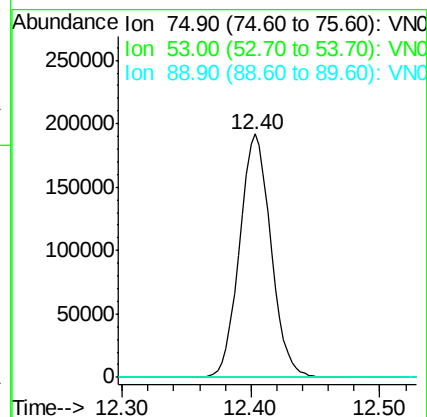
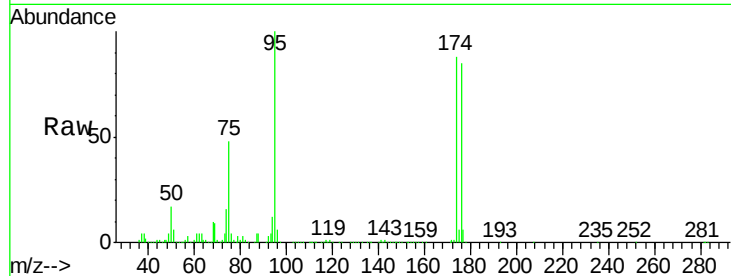
Tot Ion: 75 Resp: 323942

Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

89 0.0 36.5 54.7#



#90

Hexachloroethane

Concen: Below Cal

RT: 13.98 min Scan# 3855

Delta R.T. 0.11 min

Lab File: VN049580.D

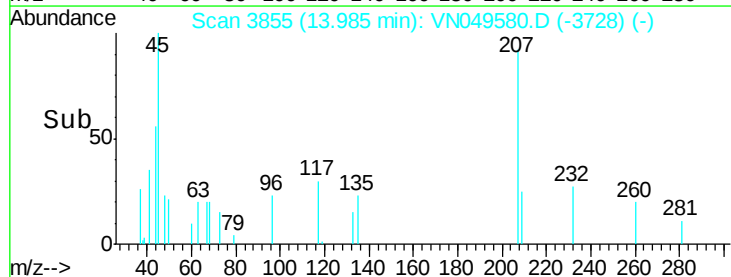
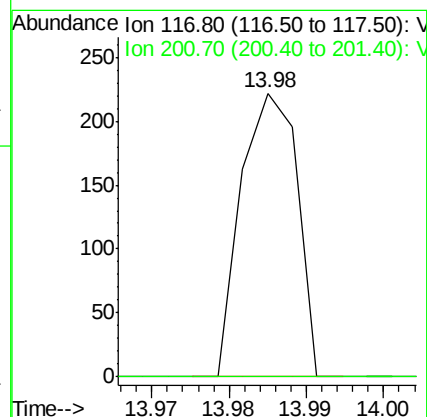
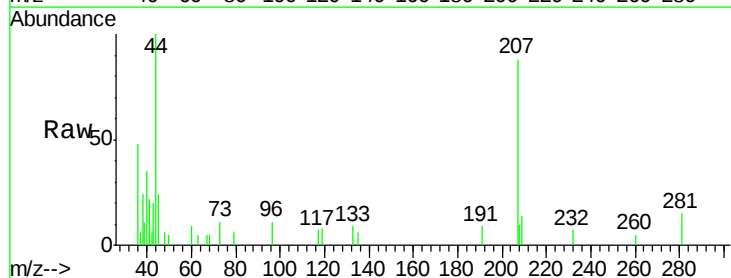
Acq: 27 Jun 2018 18:39

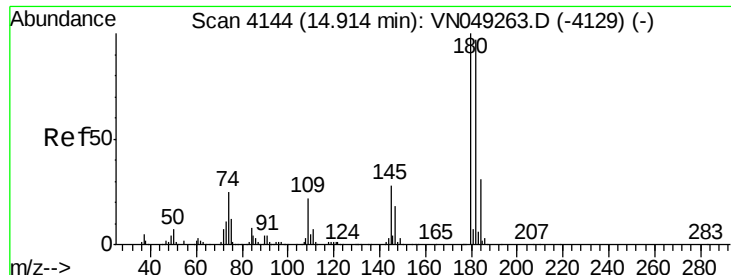
Tgt Ion: 117 Resp: 112

Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#

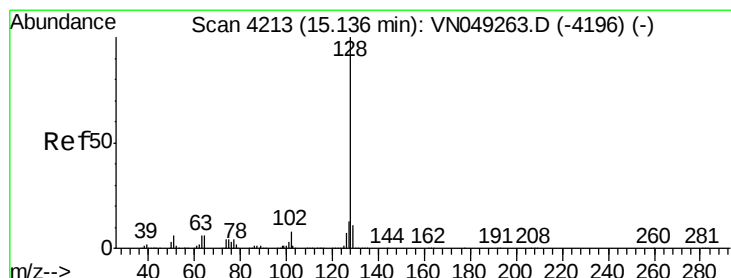
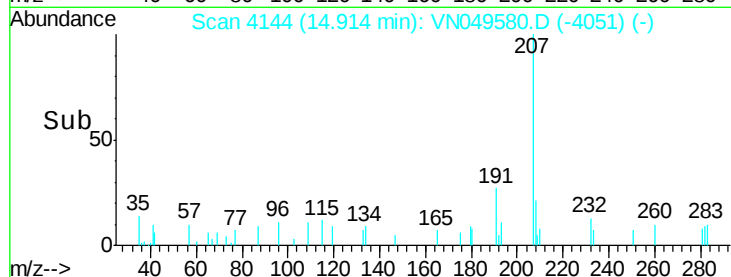
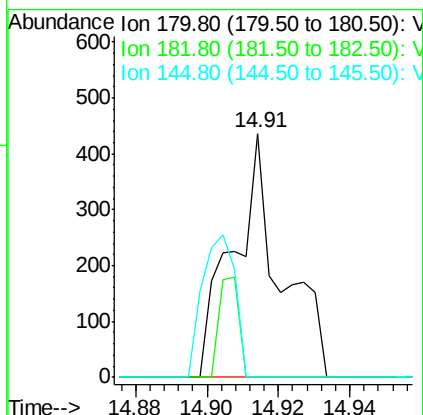
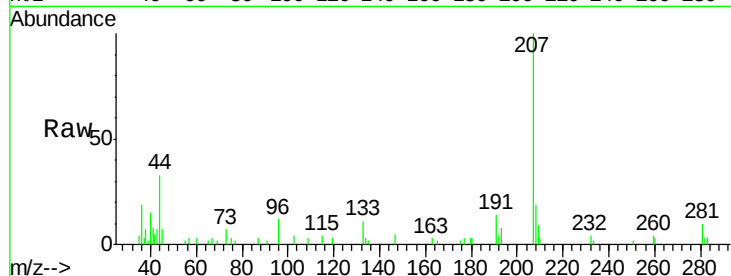




#93
 1,2,4-Trichlorobenzene
 Concen: 4.78 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049580.D
 Acq: 27 Jun 2018 18:39

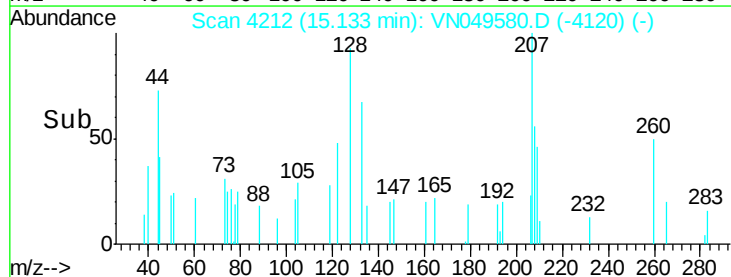
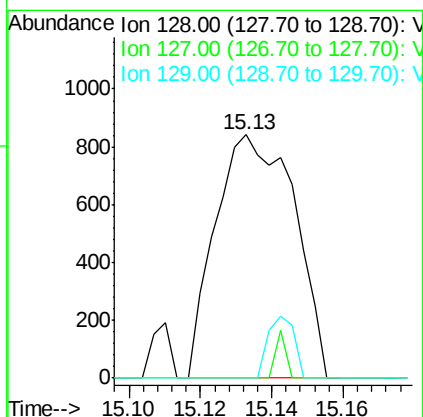
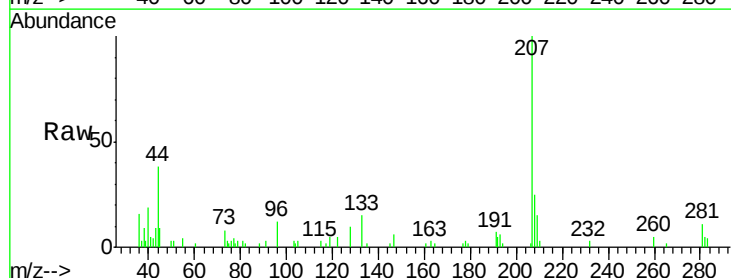
Instrument :
 MSVOA_N
 ClientSampled :

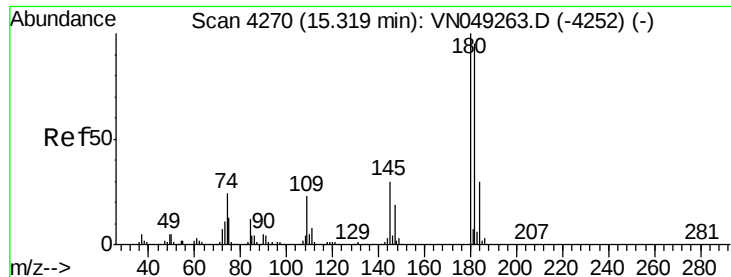
Tot Ion:180 Resp: 404
 Ion Ratio Lower Upper
 180 100
 182 16.8 46.9 140.8#
 145 39.9 14.7 44.1



#95
 Naphthalene
 Concen: 2.17 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN049580.D
 Acq: 27 Jun 2018 18:39

Tgt Ion:128 Resp: 1290
 Ion Ratio Lower Upper
 128 100
 127 2.5 10.6 16.0#
 129 8.4 8.5 12.7#

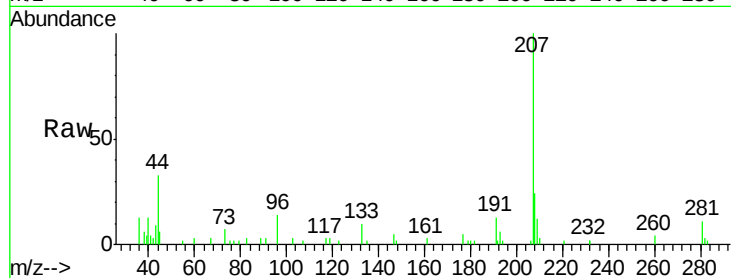




#96
 1,2,3-Trichlorobenzene
 Concen: 3.47 ug/l
 RT: 15.33 min Scan# 4272
 Delta R.T. 0.01 min
 Lab File: VN049580.D
 Acq: 27 Jun 2018 18:39

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	197.1	47.3	141.8#
145	0.0	15.6	46.7#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

