

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049406.D
 Acq On : 20 Jun 2018 00:13
 Operator : MD\SY
 Sample : PB110363ZHE#18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:36:05 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	1146197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1892972	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1528689	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	396914	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	806563	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	
35) Dibromofluoromethane	7.59	113	705102	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	
50) Toluene-d8	10.09	98	2544563	43.64	ug/l	0.00
Spiked Amount			Recovery	=	87.28%	
62) 4-Bromofluorobenzene	12.41	95	607671	31.52	ug/l	0.00
Spiked Amount			Recovery	=	63.04%	

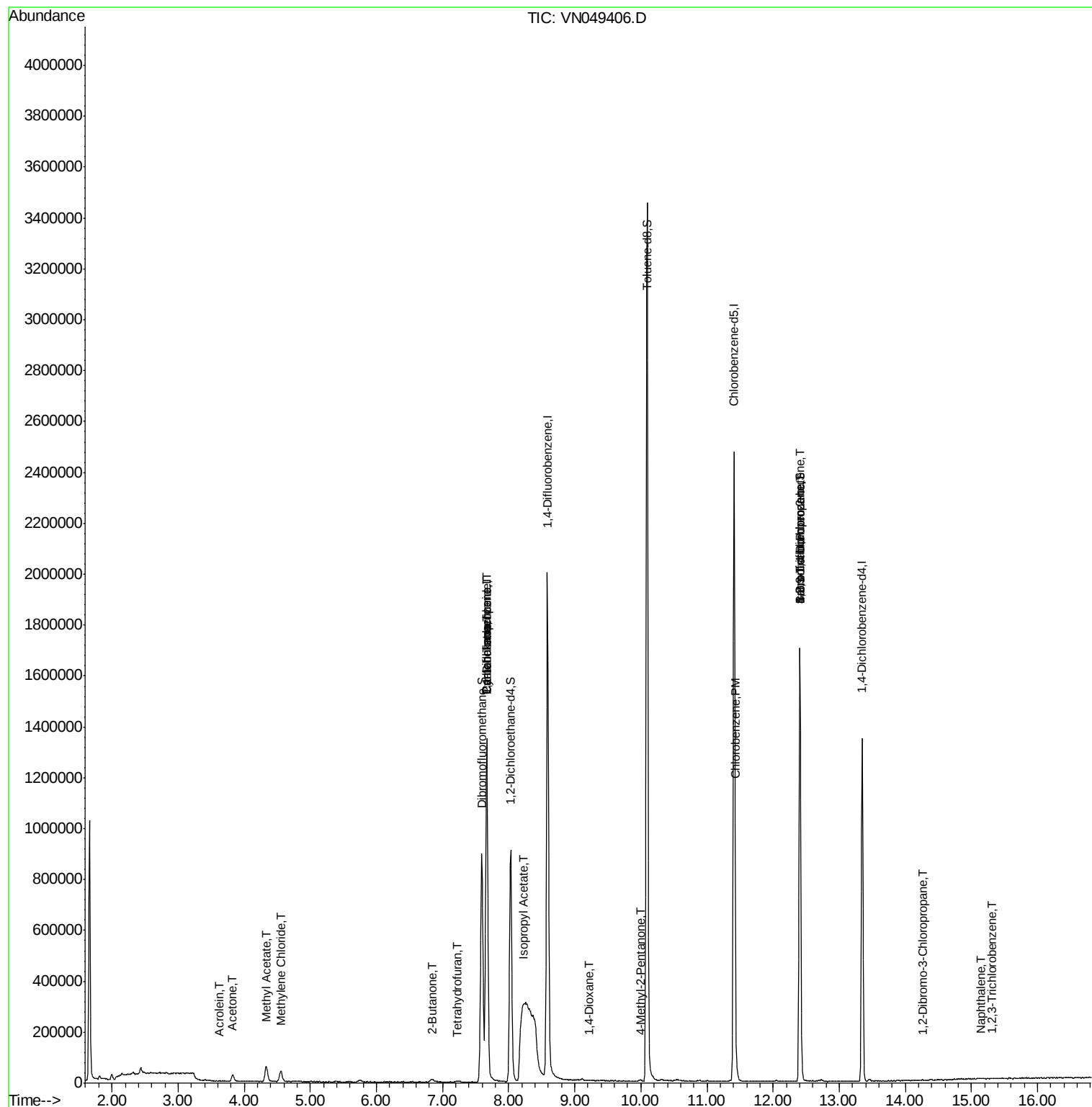
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	266	0.28	ug/l	# 1
16) Acetone	3.82	43	43176	11.70	ug/l	94
18) Methyl Acetate	4.33	43	115765	10.29	ug/l	95
20) Methylene Chloride	4.55	84	30257	1.96	ug/l	94
25) 2-Butanone	6.85	43	7052	1.42	ug/l	98
29) Tetrahydrofuran	7.22	42	1032	0.32	ug/l	# 54
31) Cyclohexane	7.67	56	21787	0.80	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	80394	3.71	ug/l	# 50
38) Carbon Tetrachloride	7.67	117	105384	4.69	ug/l	# 18
43) Isopropyl Acetate	8.22	43	335192	14.87	ug/l	# 64
49) 1,4-Dioxane	9.20	88	59	0.40	ug/l	# 1
51) 4-Methyl-2-Pentanone	9.99	43	4819	0.41	ug/l	98
65) Chlorobenzene	11.44	112	22323	0.57	ug/l	99
71) Bromoform	12.41	173	4869	0.51	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.47	83	60	Below	Cal	# 26
76) 1,2,3-Trichloropropane	12.41	75	293866	43.39	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.41	75	293866	137.14	ug/l	# 9
90) Hexachloroethane	13.73	117	66	Below	Cal	# 9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	297	0.24	ug/l	# 4
95) Naphthalene	15.13	128	228	2.10	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.31	180	109	3.47	ug/l	# 13

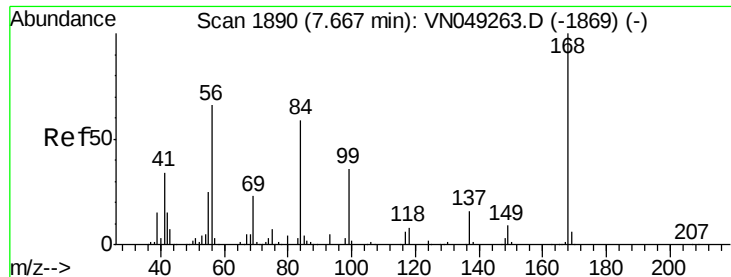
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1891

Delta R.T. 0.00 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

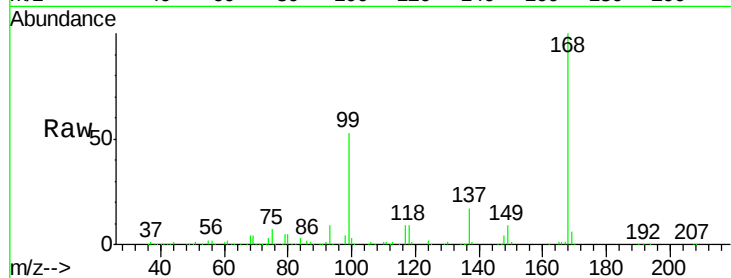
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1146197

Ion Ratio Lower Upper

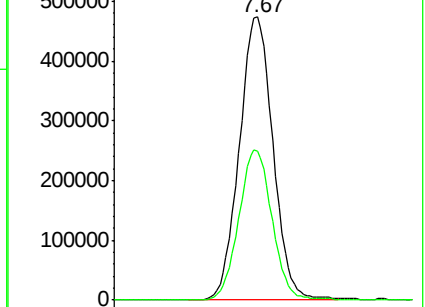
168 100

99 52.7 45.8 68.6

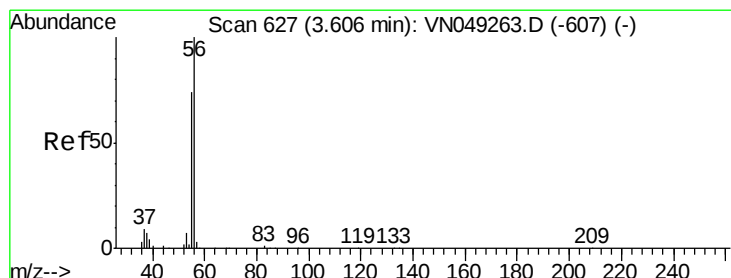
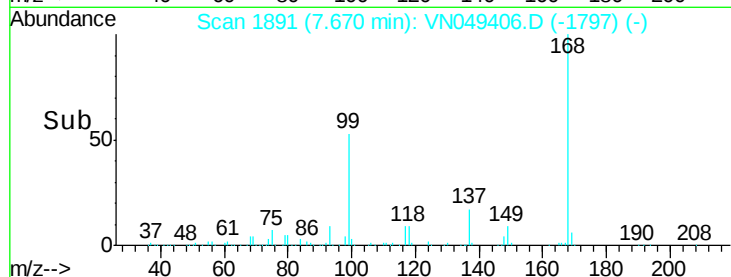


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



Time-->



#13

Acrolein

Concen: 0.28 ug/l

RT: 3.62 min Scan# 632

Delta R.T. 0.02 min

Lab File: VN049406.D

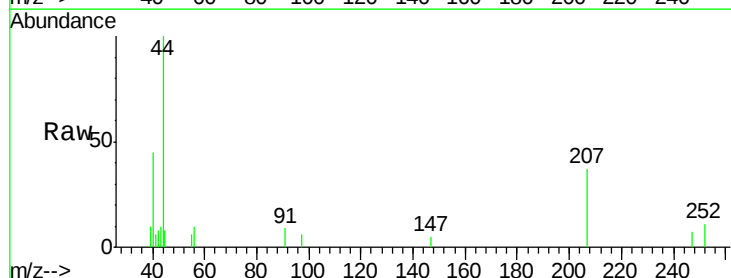
Acq: 20 Jun 2018 00:13

Tgt Ion: 56 Resp: 266

Ion Ratio Lower Upper

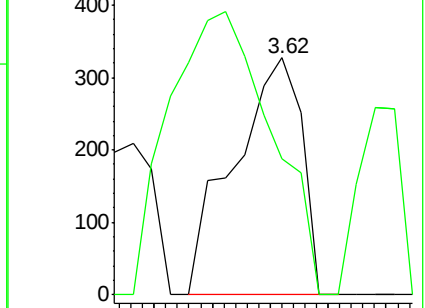
56 100

55 179.7 57.1 85.7#

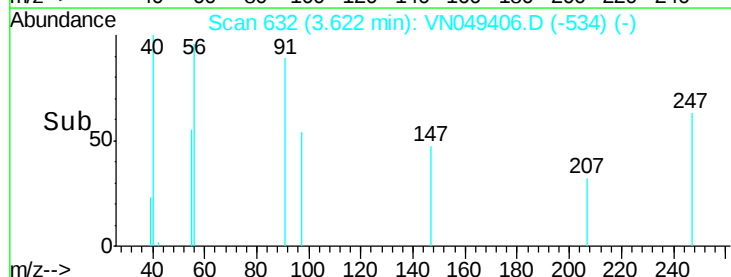


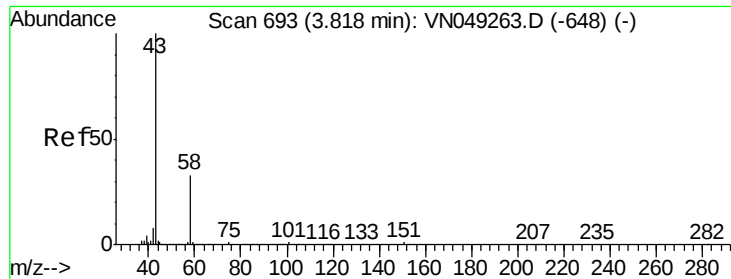
Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



Time-->





#16

Acetone

Concen: 11.70 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

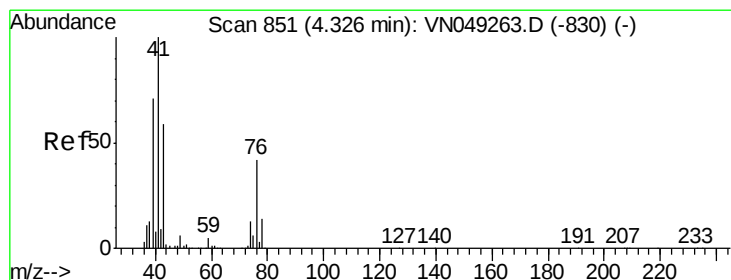
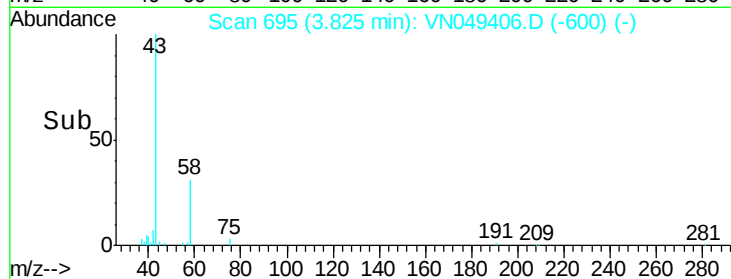
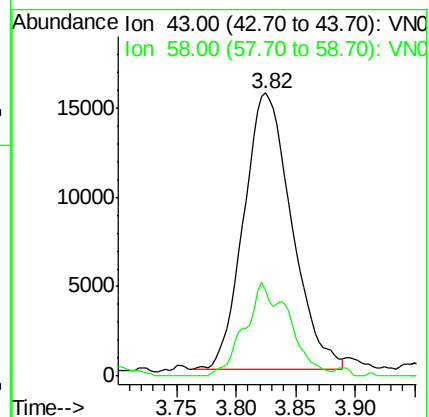
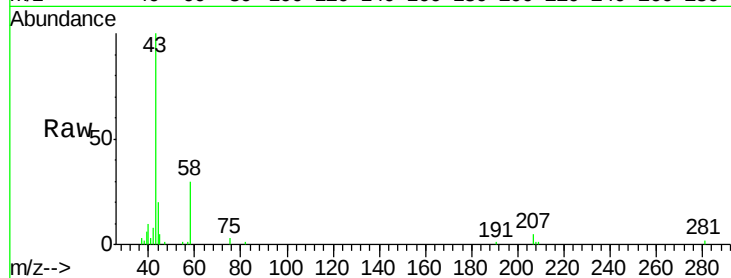
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 43176

Ion Ratio Lower Upper

43 100

58 31.2 22.4 33.6



#18

Methyl Acetate

Concen: 10.29 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049406.D

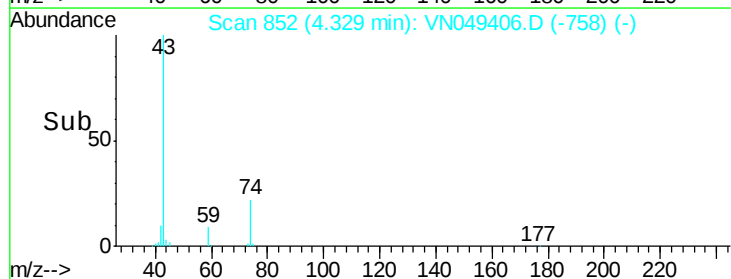
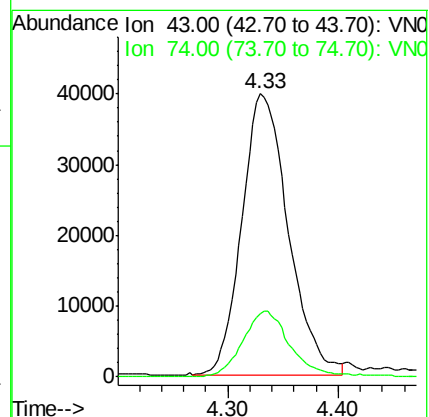
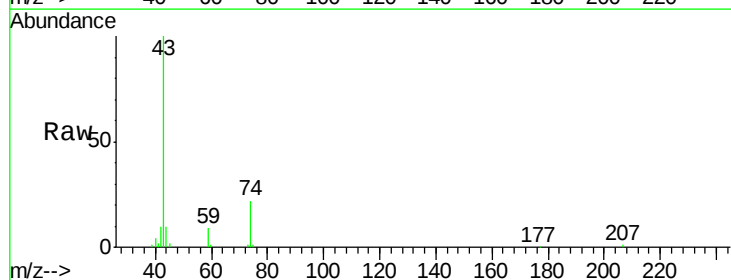
Acq: 20 Jun 2018 00:13

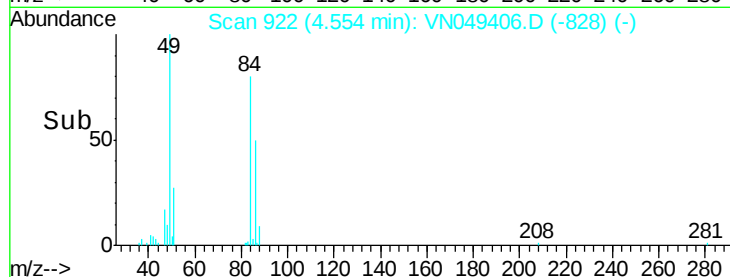
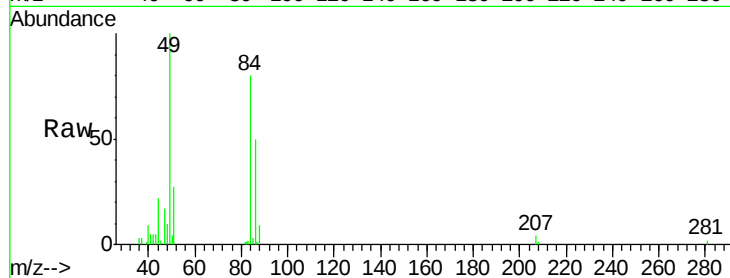
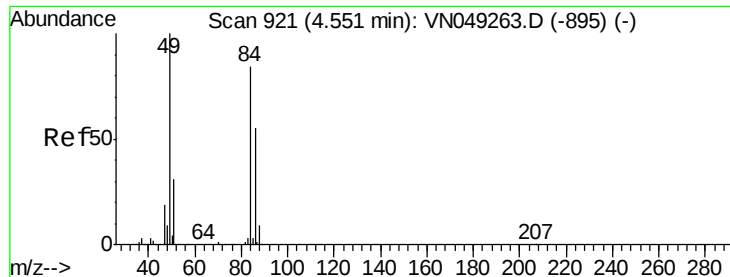
Tgt Ion: 43 Resp: 115765

Ion Ratio Lower Upper

43 100

74 23.9 17.4 26.0

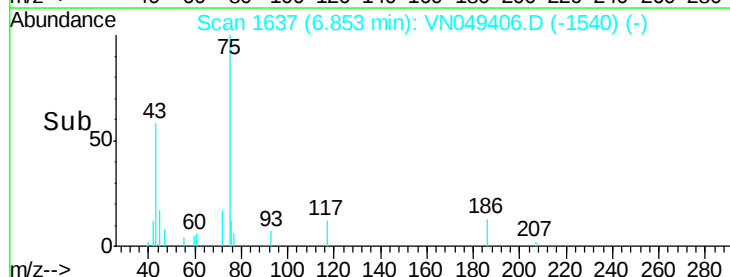
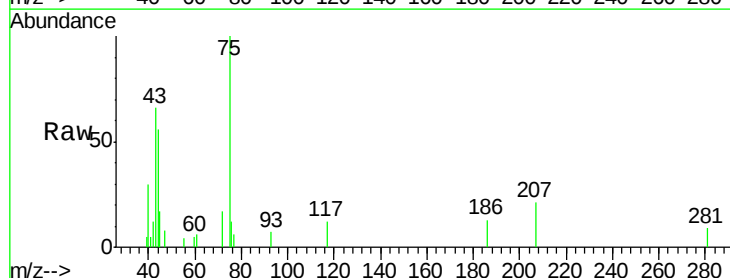
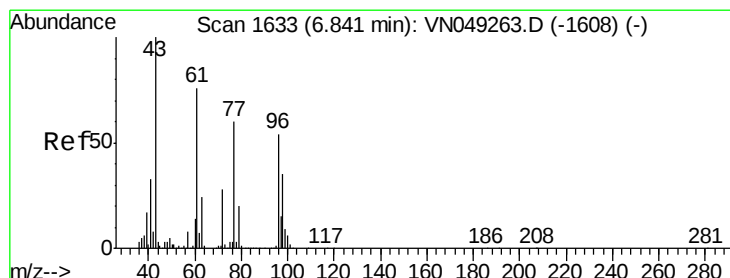
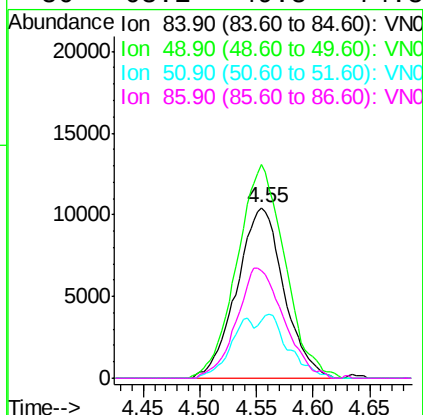




#20
Methvlene Chloride
Concen: 1.96 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049406.D
Acq: 20 Jun 2018 00:13

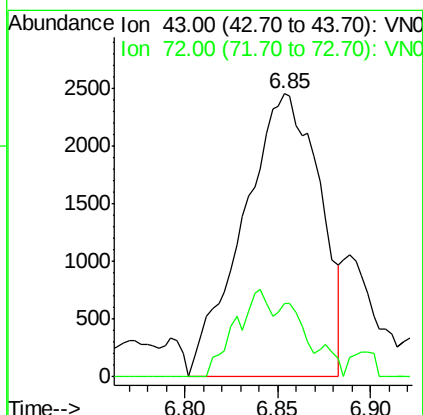
Instrument :
MSVOA_N
ClientSampleId :

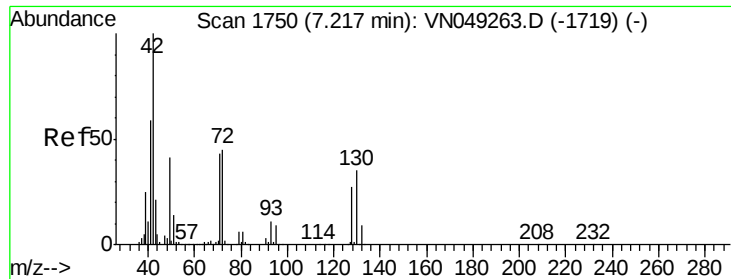
Tot Ion	84	Resp	30257
Ion Ratio	Lower	Upper	
84	100		
49	125.2	106.9	160.3
51	33.6	32.7	49.1
86	63.1	49.8	74.8



#25
2-Butanone
Concen: 1.42 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN049406.D
Acq: 20 Jun 2018 00:13

Tgt Ion	43	Resp	7052
Ion Ratio	Lower	Upper	
43	100		
72	26.1	20.2	30.2





#29

Tetrahydrofuran

Concen: 0.32 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

Instrument :

MSVOA_N

ClientSampled :

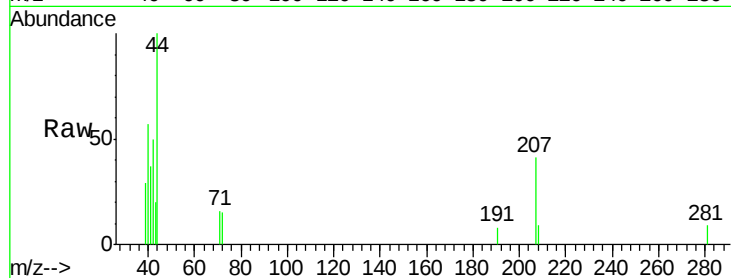
Tot Ion: 42 Resp: 1032

Ion Ratio Lower Upper

42 100

72 59.3 32.2 48.4#

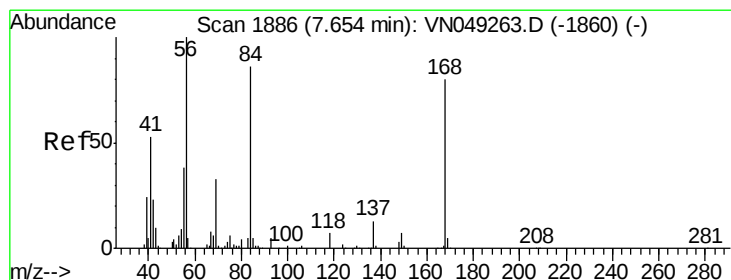
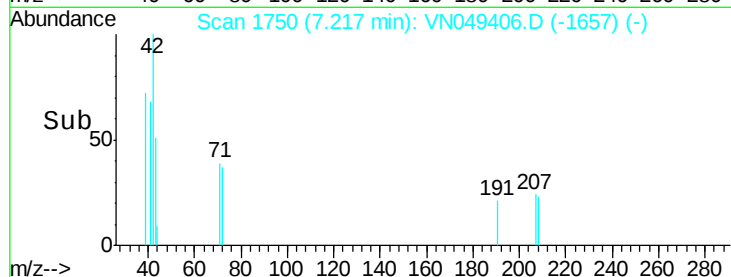
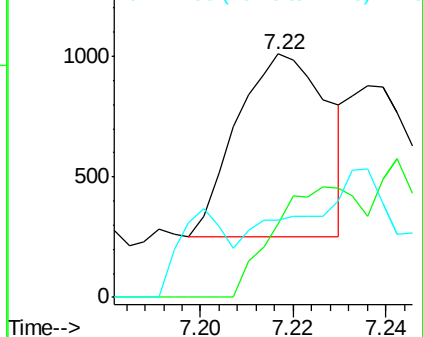
71 0.0 30.5 45.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.80 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

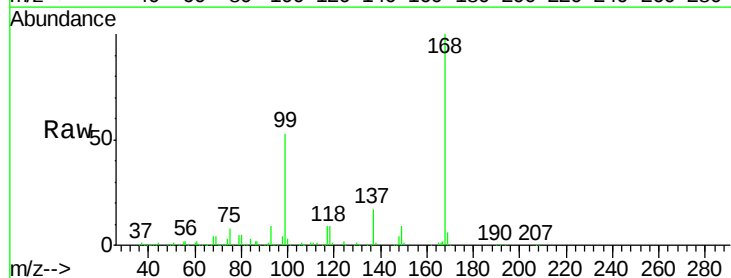
Tgt Ion: 56 Resp: 21787

Ion Ratio Lower Upper

56 100

69 200.2 25.0 37.4#

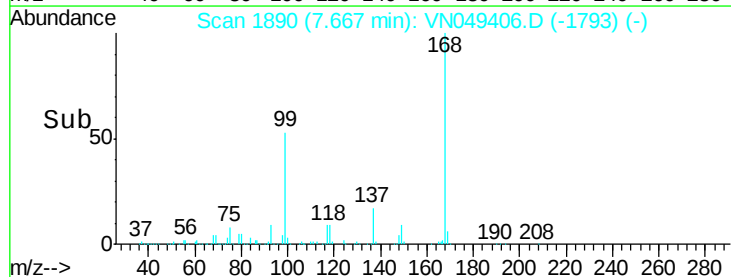
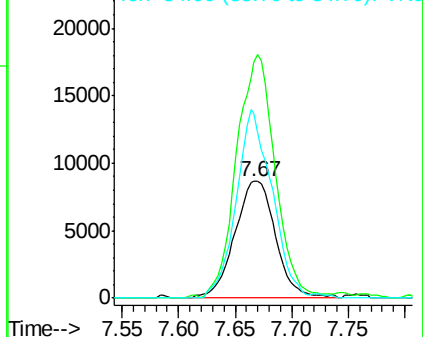
84 158.2 64.6 96.8#

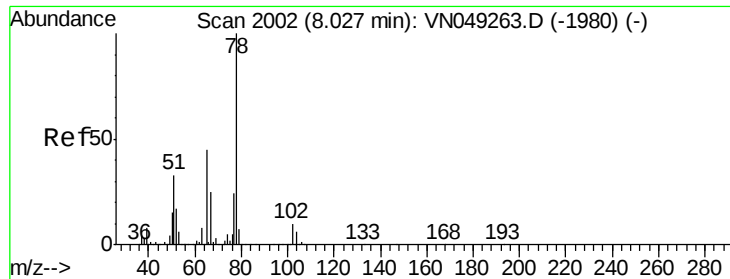


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

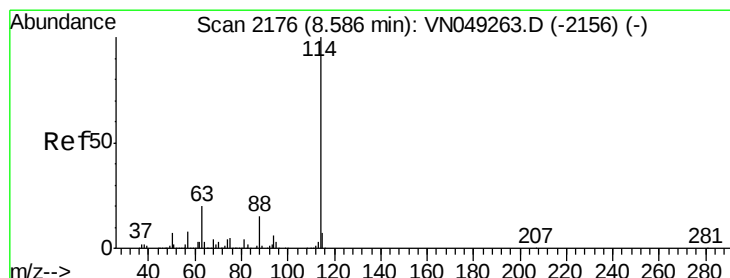
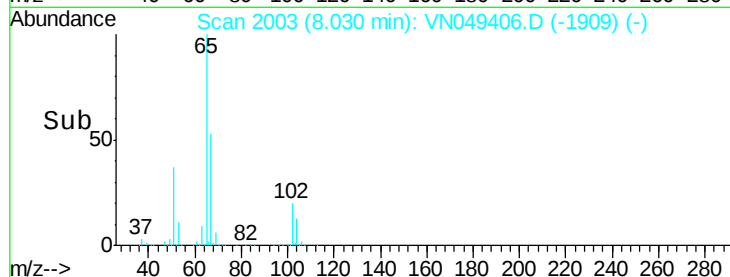
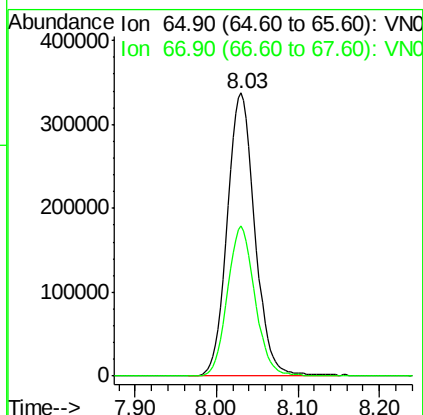
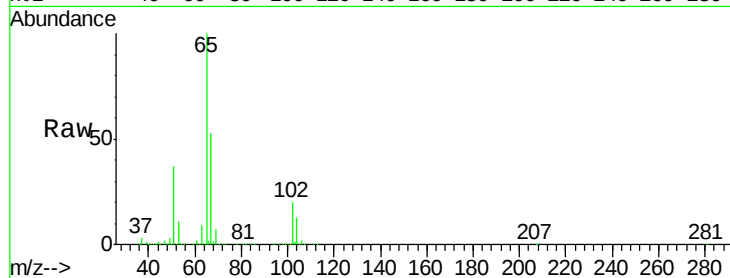




#33
 1,2-Dichloroethane-d4
 Concen: 53.05 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049406.D
 Acq: 20 Jun 2018 00:13

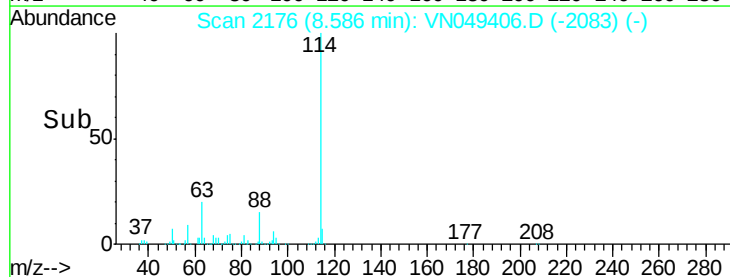
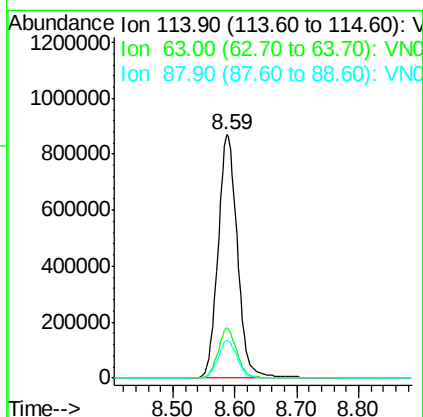
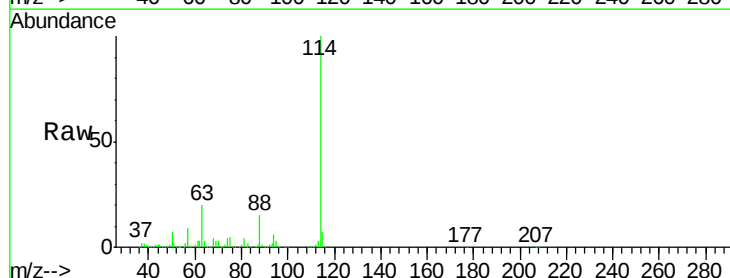
Instrument :
 MSVOA_N
 ClientSampleId :

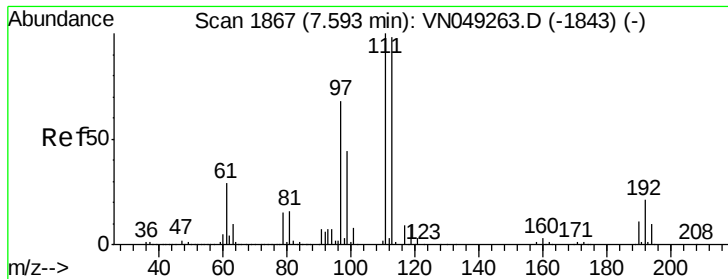
Tot Ion: 65 Resp: 806563
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049406.D
 Acq: 20 Jun 2018 00:13

Tgt Ion: 114 Resp: 1892972
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 44.4
 88 15.4 0.0 31.4

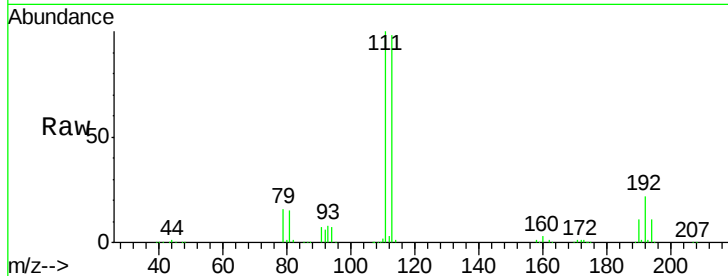




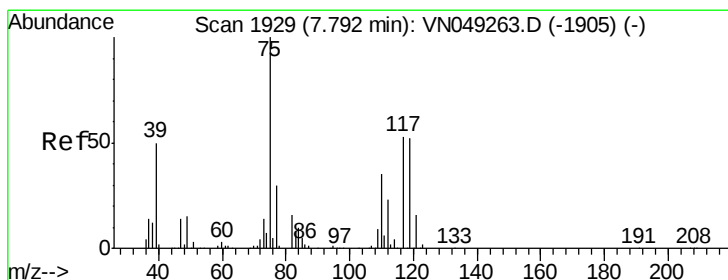
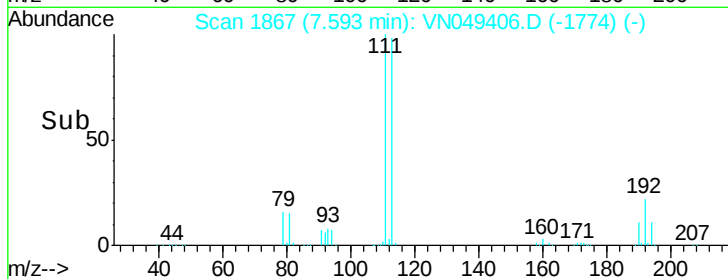
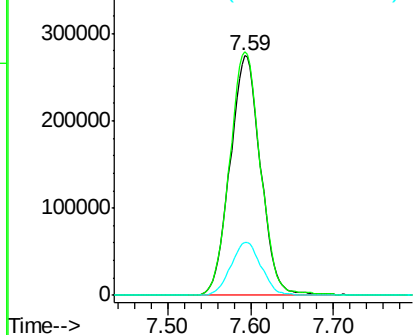
#35
Dibromofluoromethane
Concen: 46.04 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN049406.D
Acq: 20 Jun 2018 00:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:113 Resp: 705102
Ion Ratio Lower Upper
113 100
111 102.4 82.4 123.6
192 22.1 15.0 22.6

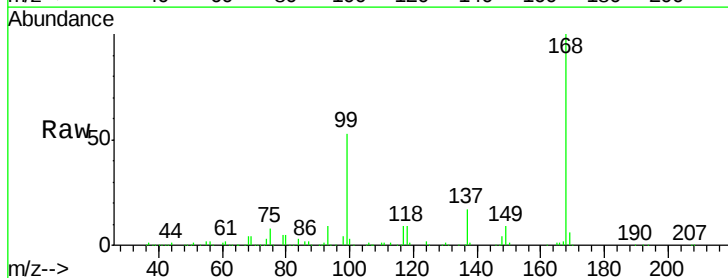


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

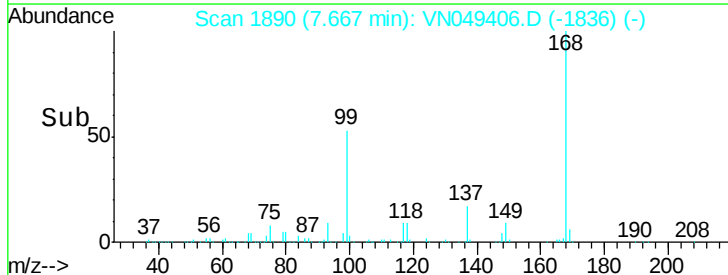
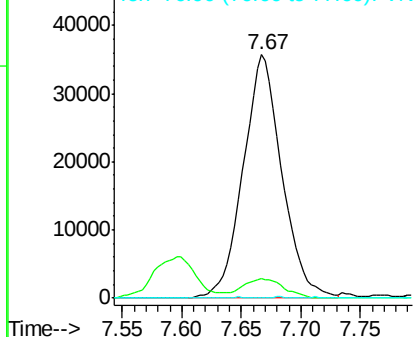


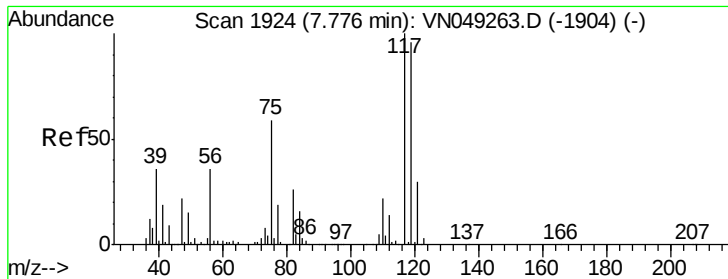
#36
1,1-Dichloropropene
Concen: 3.71 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.13 min
Lab File: VN049406.D
Acq: 20 Jun 2018 00:13

Tgt Ion: 75 Resp: 80394
Ion Ratio Lower Upper
75 100
110 8.5 17.0 50.9#
77 0.1 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.69 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

Instrument :

MSVOA_N

ClientSampleId :

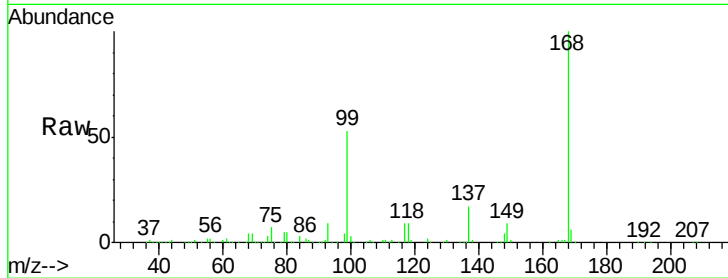
Tot Ion:117 Resp: 105384

Ion Ratio Lower Upper

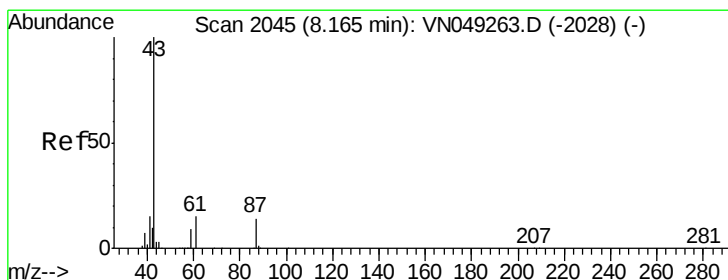
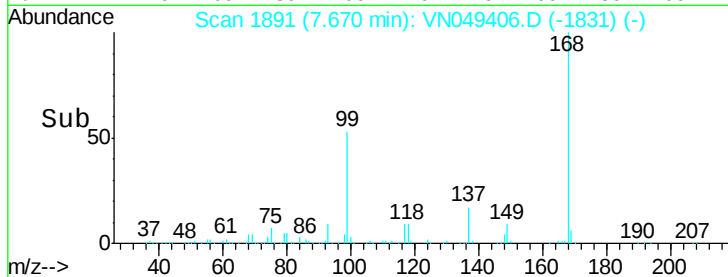
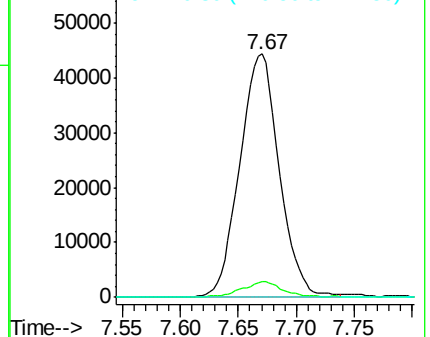
117 100

119 6.4 75.6 113.4#

121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 14.87 ug/l

RT: 8.22 min Scan# 2061

Delta R.T. 0.05 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

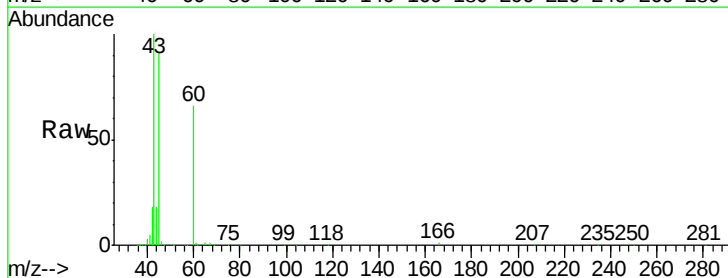
Tgt Ion: 43 Resp: 335192

Ion Ratio Lower Upper

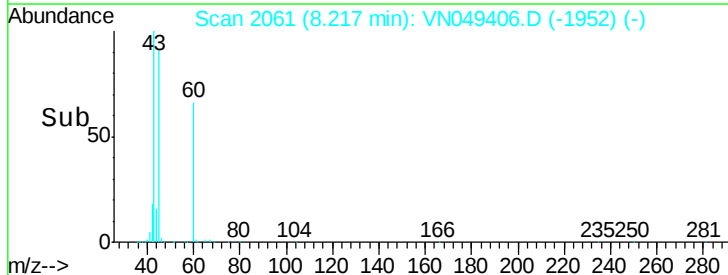
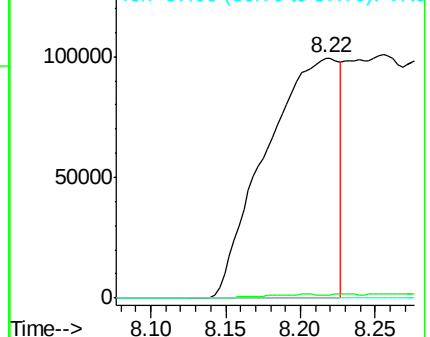
43 100

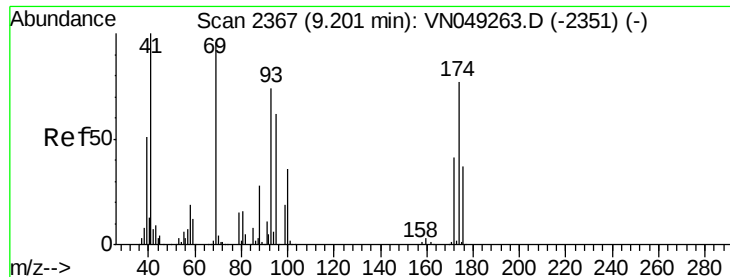
61 0.4 14.2 21.4#

87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

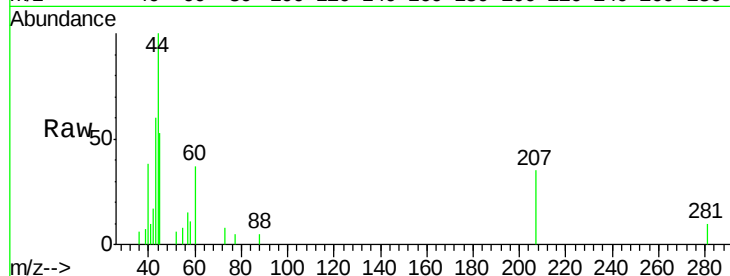




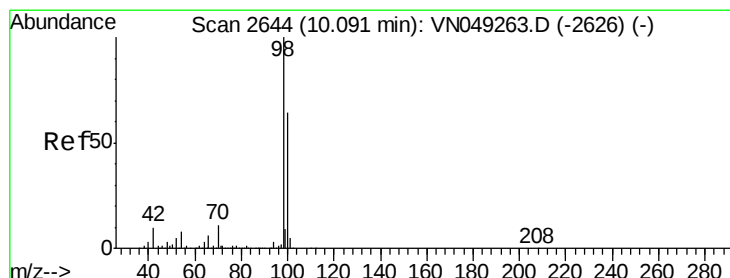
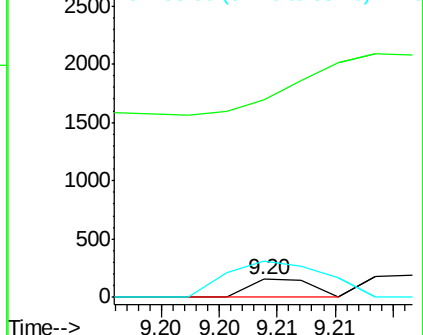
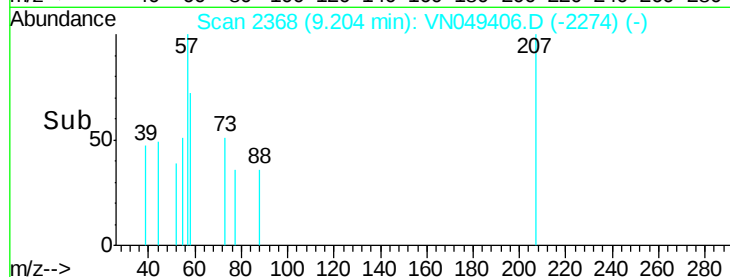
#49
1,4-Dioxane
Concen: 0.40 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049406.D
Acq: 20 Jun 2018 00:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 847.5 30.9 46.3#
58 316.9 58.9 88.3#

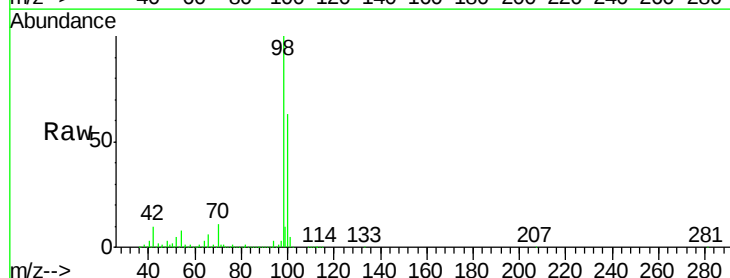


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

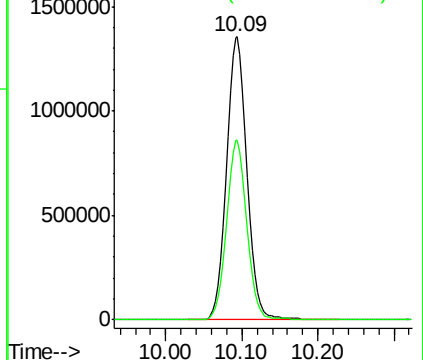
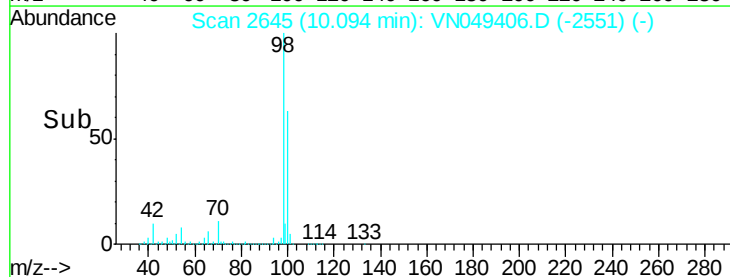


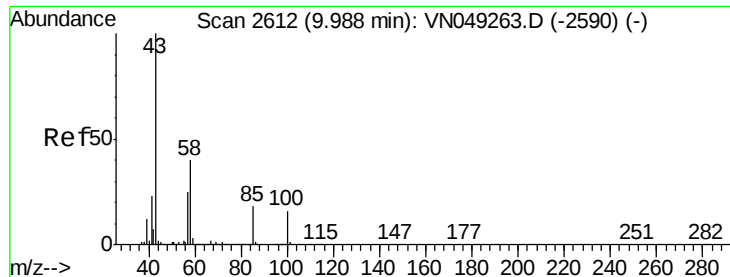
#50
Toluene-d8
Concen: 43.64 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049406.D
Acq: 20 Jun 2018 00:13

Tgt Ion: 98 Resp: 2544563
Ion Ratio Lower Upper
98 100
100 63.2 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.41 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

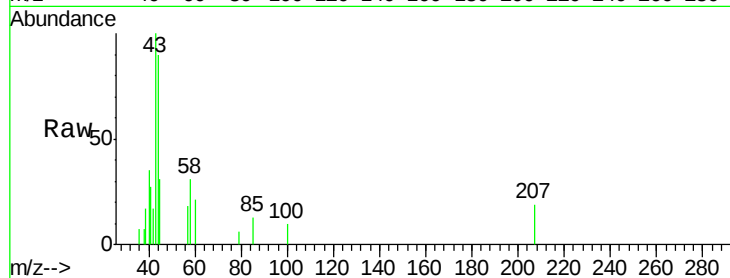
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 4819

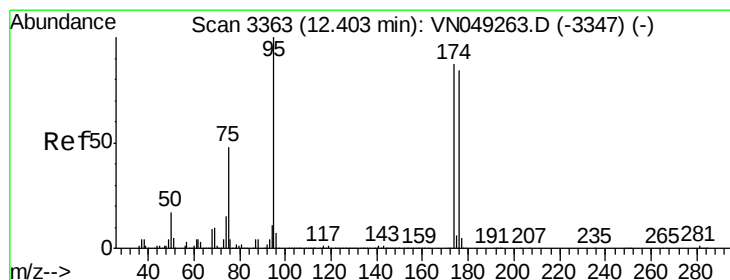
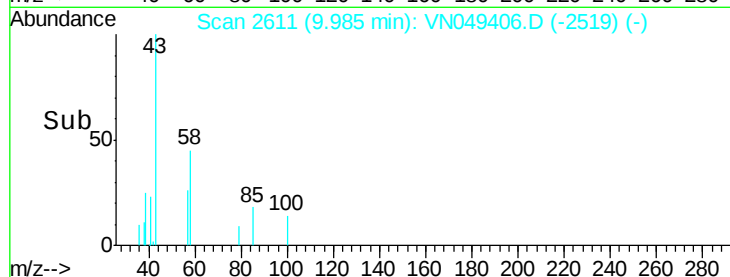
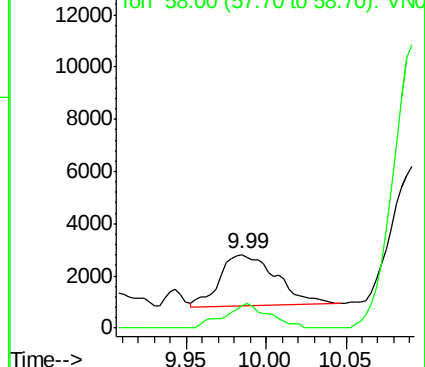
Ion Ratio Lower Upper

43 100

58 37.6 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN049406.D (-2519) (-)



#62

4-Bromofluorobenzene

Concen: 31.52 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

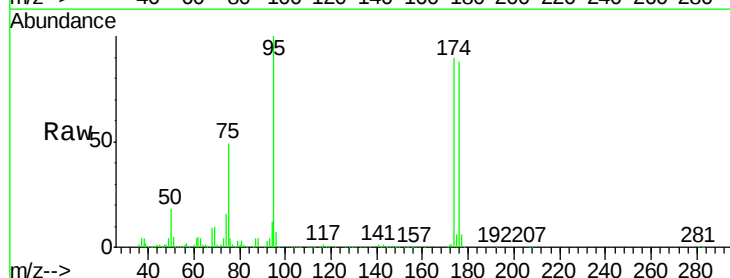
Tgt Ion: 95 Resp: 607671

Ion Ratio Lower Upper

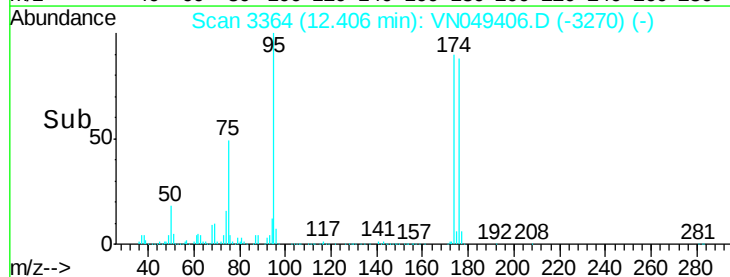
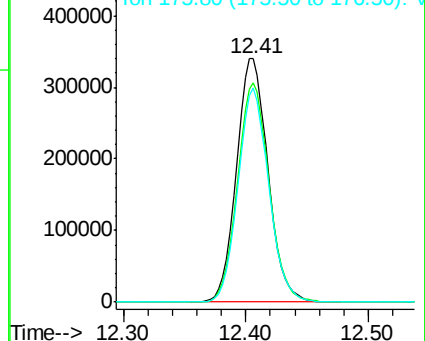
95 100

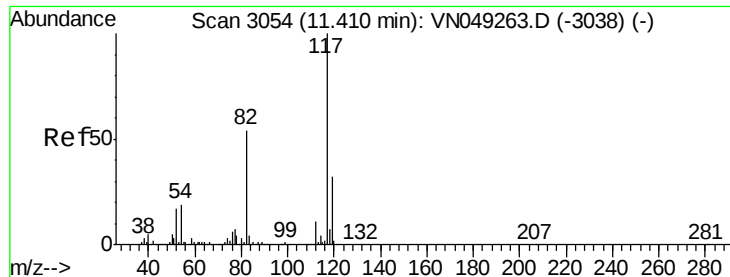
174 89.9 0.0 165.6

176 85.5 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049406.D (-3270) (-)

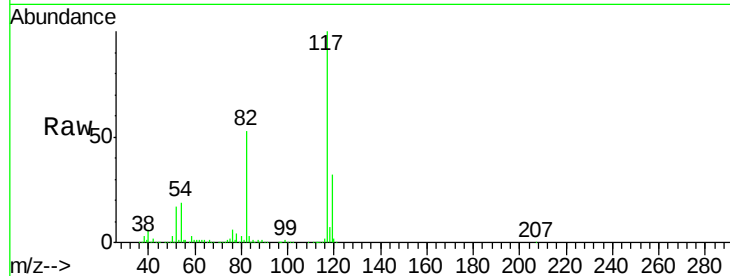




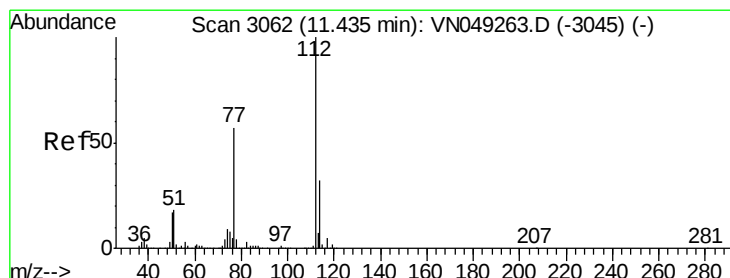
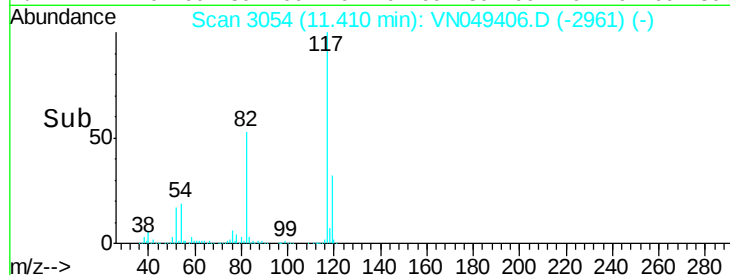
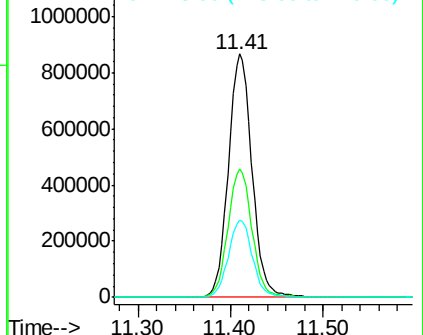
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049406.D
Acq: 20 Jun 2018 00:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1528689
Ion Ratio Lower Upper
117 100
82 52.9 45.9 68.9
119 31.6 25.5 38.3

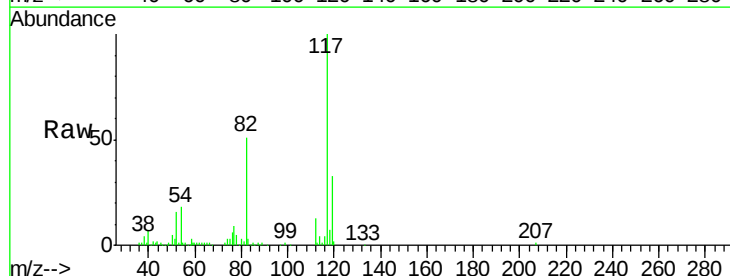


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

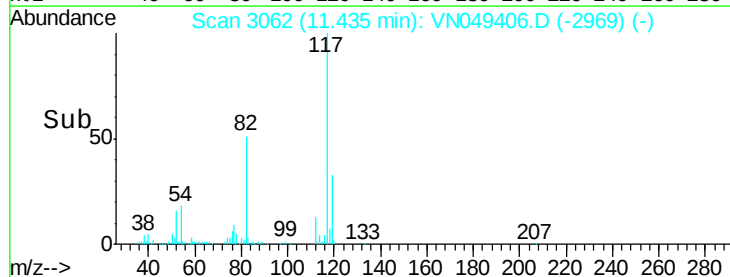
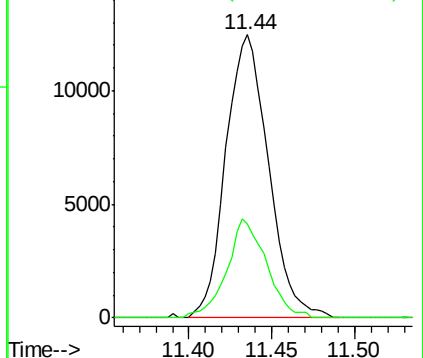


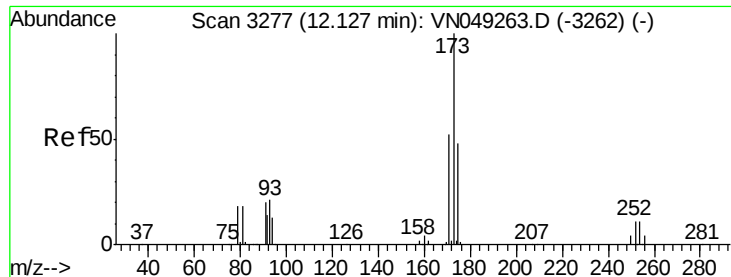
#65
Chlorobenzene
Concen: 0.57 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049406.D
Acq: 20 Jun 2018 00:13

Tgt Ion:112 Resp: 22323
Ion Ratio Lower Upper
112 100
114 33.4 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

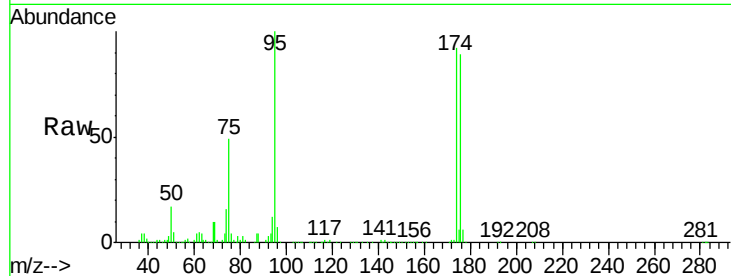




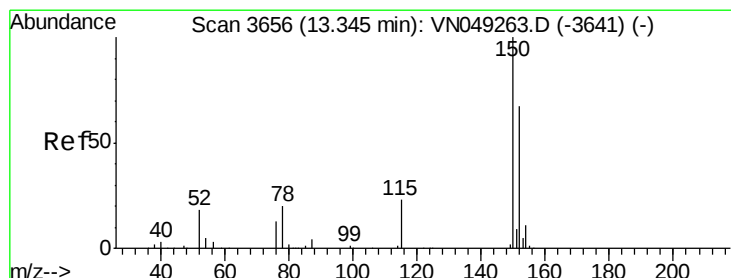
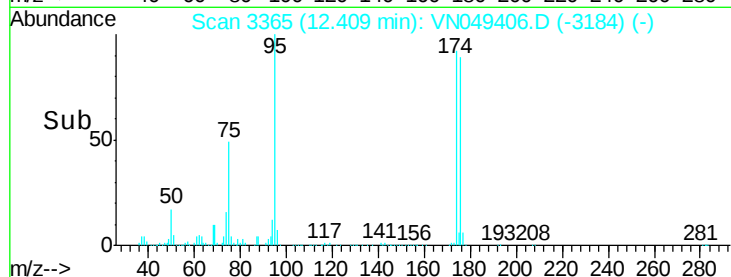
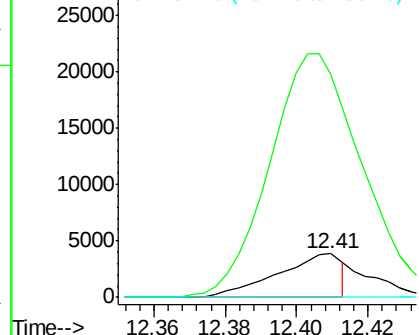
#71
Bromoform
Concen: 0.51 ug/l
RT: 12.41 min Scan# 3365
Delta R.T. 0.28 min
Lab File: VN049406.D
Acq: 20 Jun 2018 00:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 4869
Ion Ratio Lower Upper
173 100
175 605.1 24.5 73.5#
254 0.0 0.1 0.1#

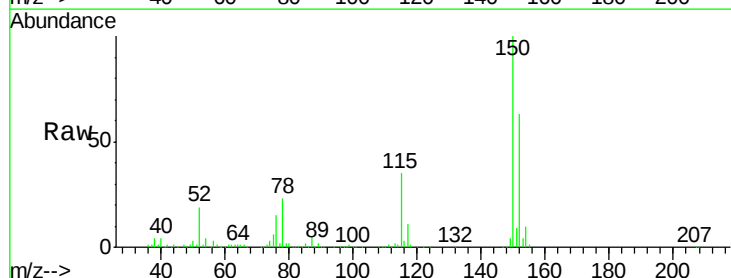


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

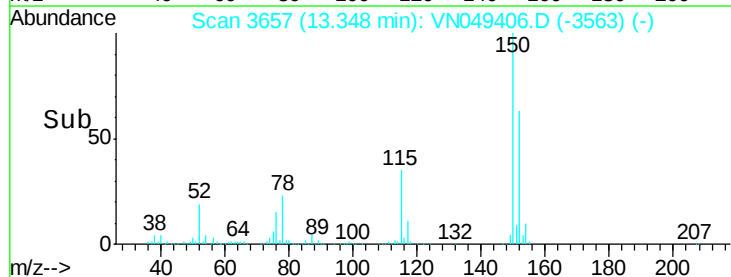
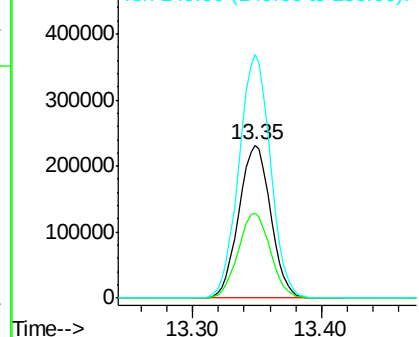


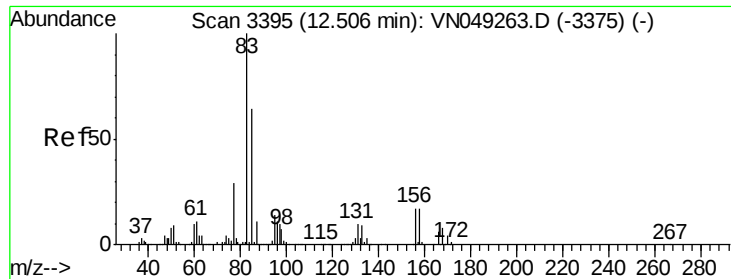
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3657
Delta R.T. 0.00 min
Lab File: VN049406.D
Acq: 20 Jun 2018 00:13

Tgt Ion:152 Resp: 396914
Ion Ratio Lower Upper
152 100
115 56.1 28.7 86.1
150 158.1 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: 12.47 min Scan# 3385

Delta R.T. -0.03 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

Instrument :

MSVOA_N

ClientSampleId :

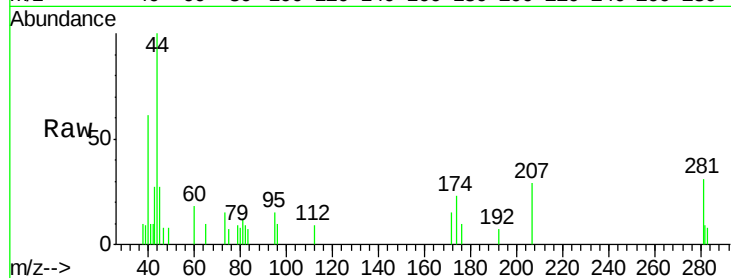
Tot Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 32.0 96.0#



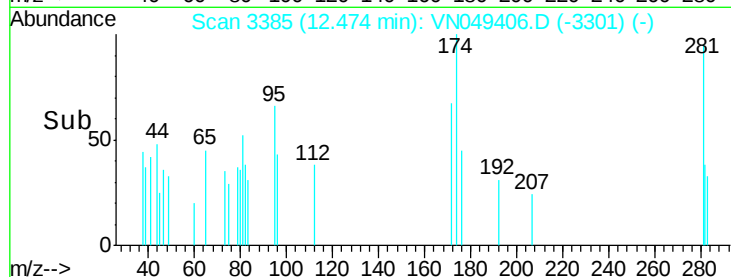
Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

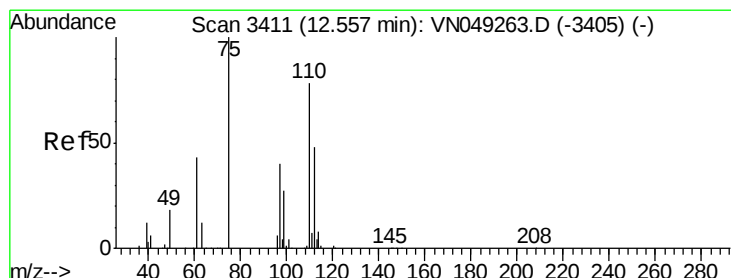
Ion 84.90 (84.60 to 85.60): VNC

12.47

12.46 12.47 12.48



Time-->



#76

1,2,3-Trichloropropane

Concen: 43.39 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049406.D

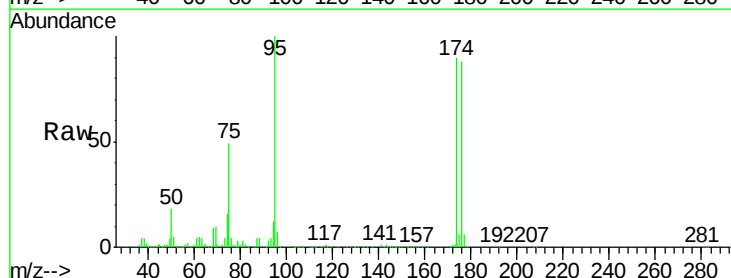
Acq: 20 Jun 2018 00:13

Tgt Ion: 75 Resp: 293866

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#

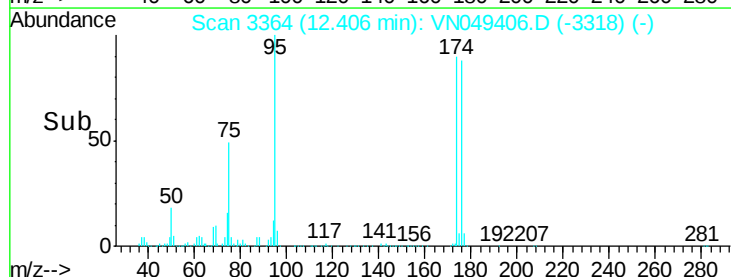


Abundance Ion 74.90 (74.60 to 75.60): VNC

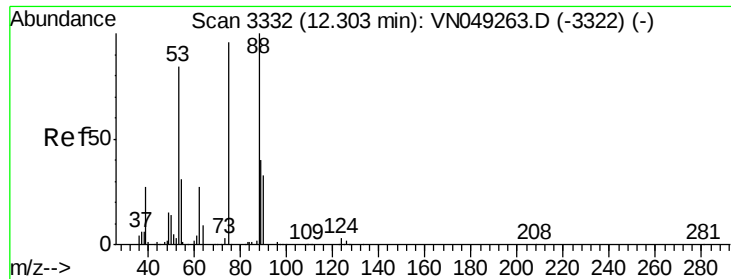
Ion 77.00 (76.70 to 77.70): VNC

12.41

12.30 12.40 12.50



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 137.14 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

Instrument :

MSVOA_N

ClientSampleId :

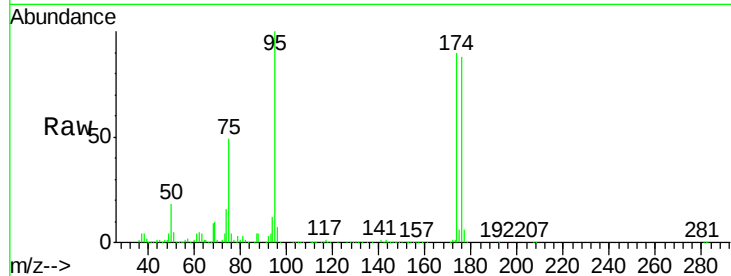
Tot Ion: 75 Resp: 293866

Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

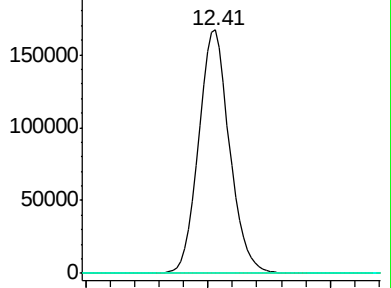
89 0.0 36.5 54.7#



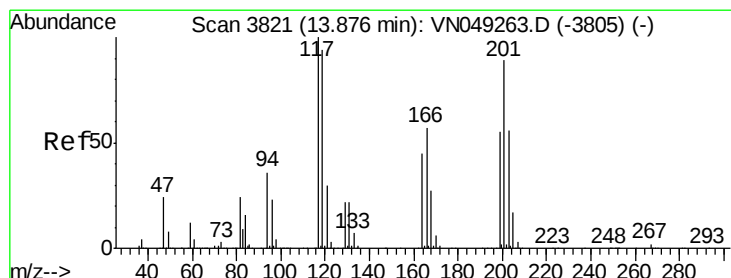
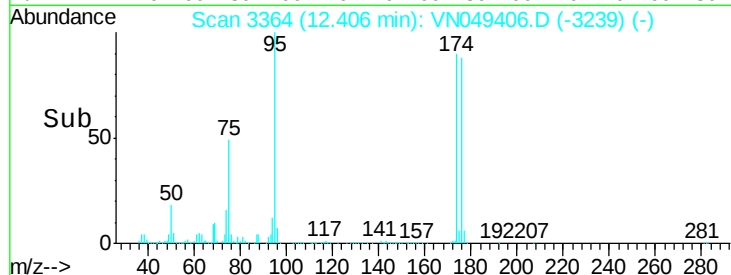
Abundance Ion 74.90 (74.60 to 75.60): VN049406.D (-3364) (-)

Ion 53.00 (52.70 to 53.70): VN049406.D (-3364) (-)

Ion 88.90 (88.60 to 89.60): VN049406.D (-3364) (-)



Time-->



#90

Hexachloroethane

Concen: Below Cal

RT: 13.73 min Scan# 3775

Delta R.T. -0.15 min

Lab File: VN049406.D

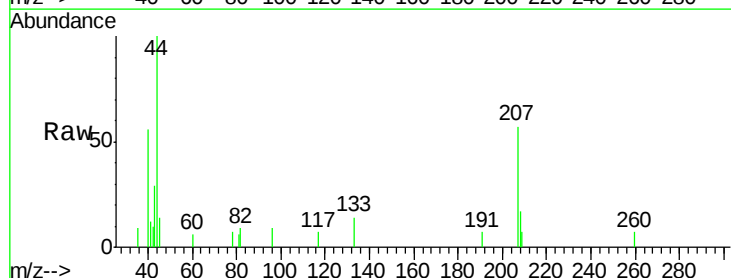
Acq: 20 Jun 2018 00:13

Tgt Ion: 117 Resp: 66

Ion Ratio Lower Upper

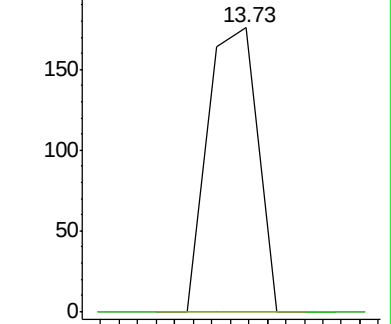
117 100

201 0.0 40.1 120.2#

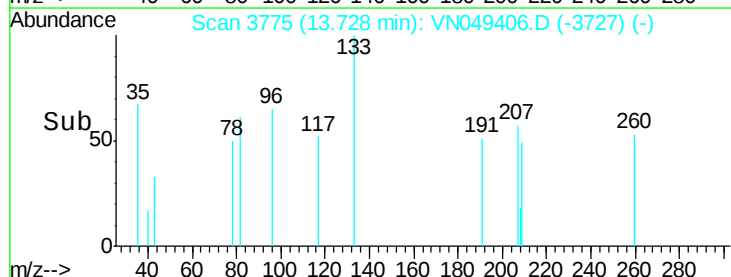


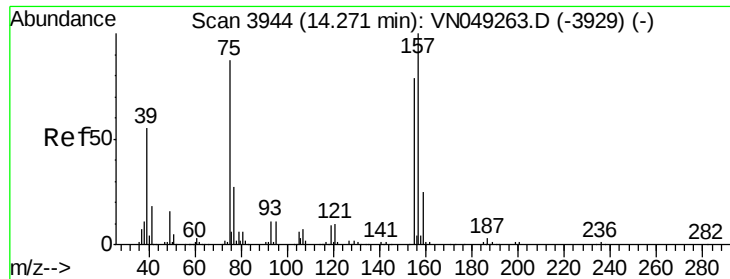
Abundance Ion 116.80 (116.50 to 117.50): VN049406.D (-3775) (-)

Ion 200.70 (200.40 to 201.40): VN049406.D (-3775) (-)



Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.24 ug/l

RT: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

Instrument :

MSVOA_N

ClientSampled :

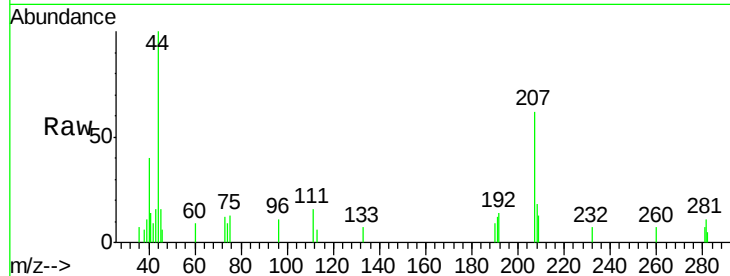
Tot Ion: 75 Resp: 297

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

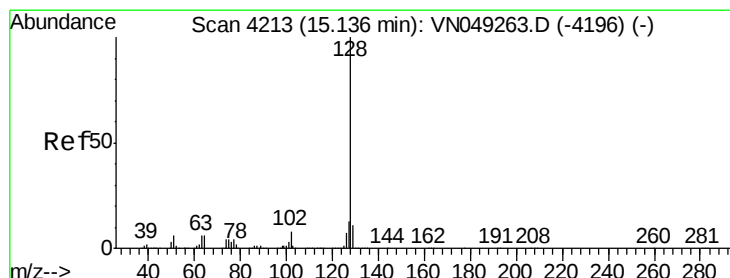
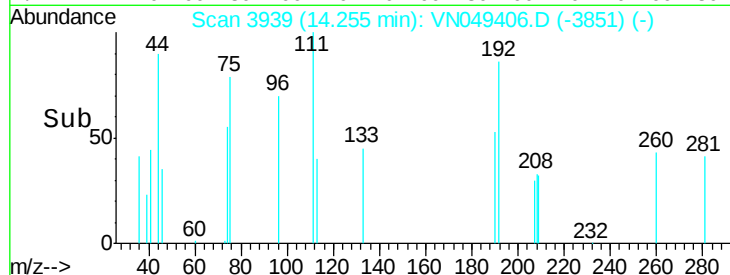
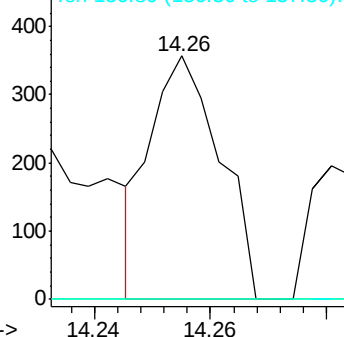
157 0.0 51.0 153.1#



Abundance Ion 74.90 (74.60 to 75.60): VN049406.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049406.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049406.D (-3851) (-)



#95

Naphthalene

Concen: 2.10 ug/l

RT: 15.13 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

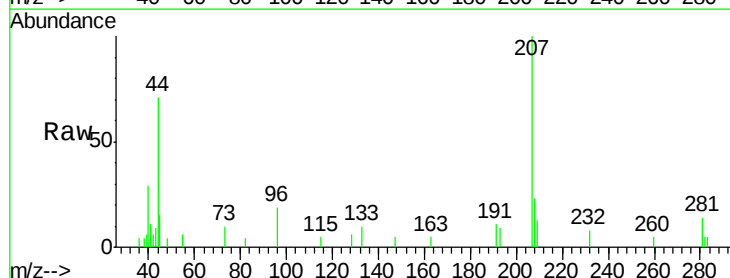
Tgt Ion: 128 Resp: 228

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

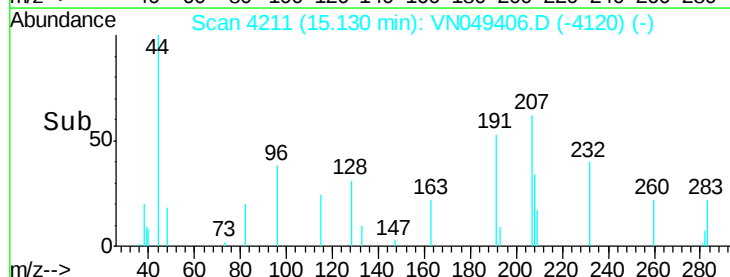
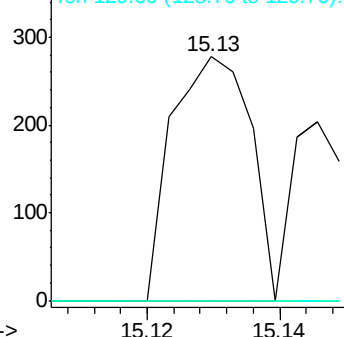
129 0.0 8.5 12.7#

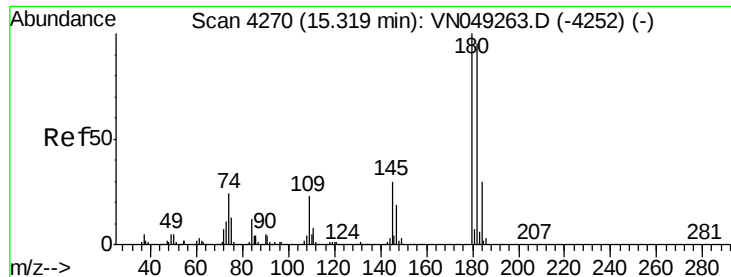


Abundance Ion 128.00 (127.70 to 128.70): VN049406.D (-4120) (-)

Ion 127.00 (126.70 to 127.70): VN049406.D (-4120) (-)

Ion 129.00 (128.70 to 129.70): VN049406.D (-4120) (-)





#96

1,2,3-Trichlorobenzene

Concen: 3.47 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. -0.01 min

Lab File: VN049406.D

Acq: 20 Jun 2018 00:13

Instrument :

MSVOA_N

ClientSampleId :

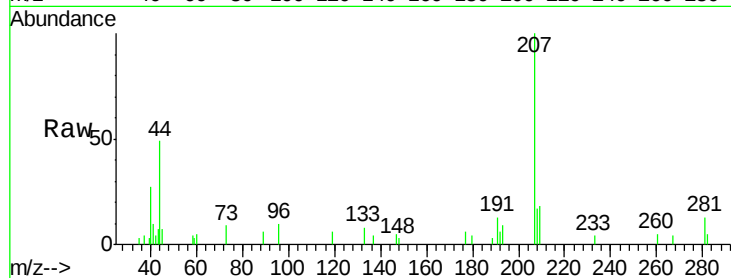
Tot Ion:180 Resp: 109

Ion Ratio Lower Upper

180 100

182 0.0 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

