

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049388.D
 Acq On : 19 Jun 2018 16:29
 Operator : MD\SY
 Sample : PB110363ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:30:43 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	1261913	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1948387	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1638350	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	442486	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	841747	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
35) Dibromofluoromethane	7.59	113	733765	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
50) Toluene-d8	10.09	98	2703379	45.04	ug/l	0.00
Spiked Amount			Recovery	=	90.08%	
62) 4-Bromofluorobenzene	12.41	95	664403	33.48	ug/l	0.00
Spiked Amount			Recovery	=	66.96%	

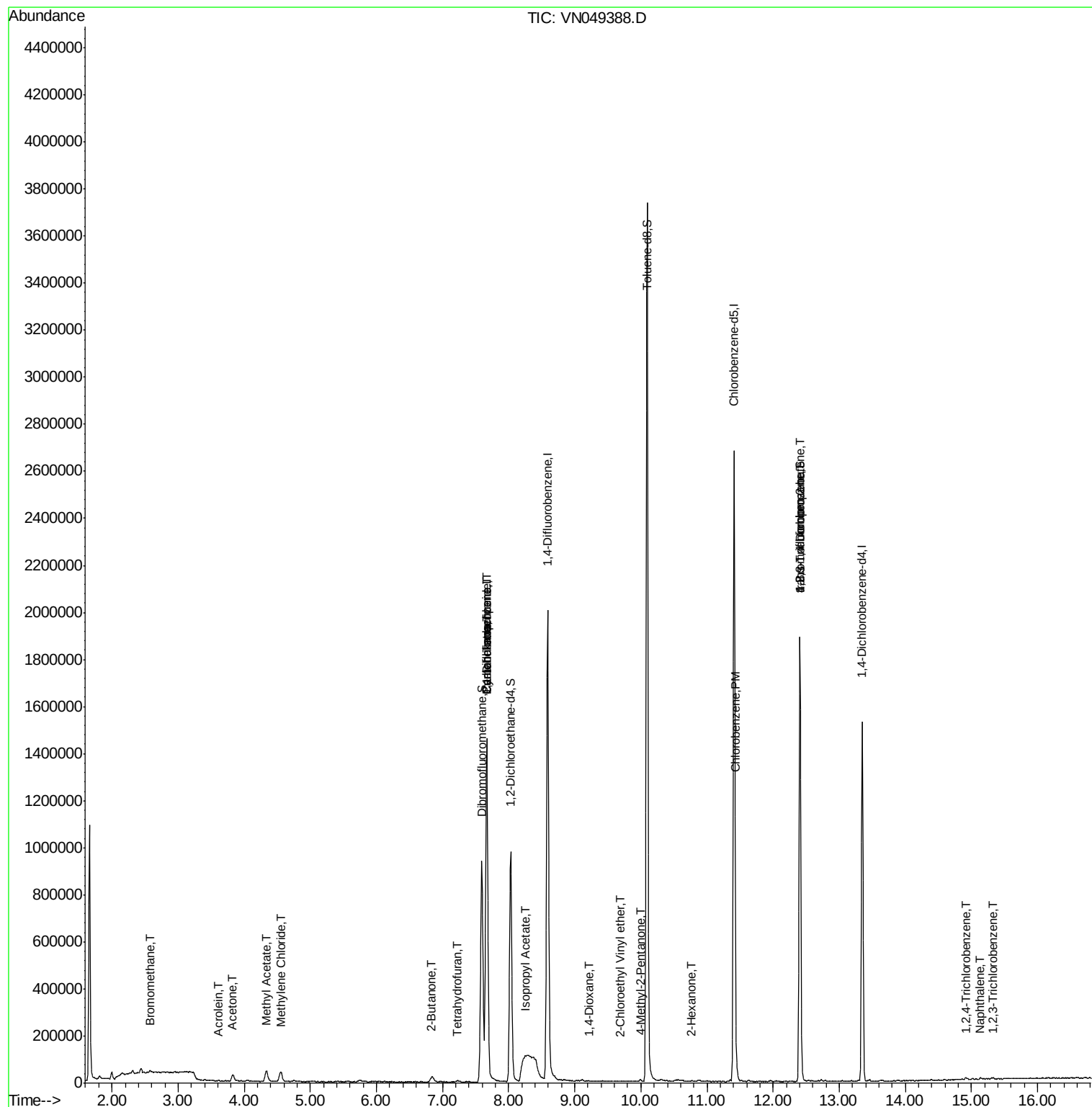
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	6504	0.62	ug/l	99
13) Acrolein	3.61	56	809	0.79	ug/l #	12
16) Acetone	3.82	43	48675	11.98	ug/l #	89
18) Methyl Acetate	4.34	43	91126	7.35	ug/l	93
20) Methylene Chloride	4.55	84	32706	1.93	ug/l	92
25) 2-Butanone	6.84	43	4300	0.79	ug/l	91
29) Tetrahydrofuran	7.22	42	4483	1.28	ug/l #	76
31) Cyclohexane	7.66	56	23962	0.79	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	88046	3.94	ug/l #	46
38) Carbon Tetrachloride	7.67	117	114559	4.96	ug/l #	17
43) Isopropyl Acetate	8.25	43	149682	6.45	ug/l #	64
49) 1,4-Dioxane	9.21	88	375	2.49	ug/l #	91
51) 4-Methyl-2-Pentanone	9.99	43	6516	0.54	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	34	14.33	ug/l #	51
59) 2-Hexanone	10.77	43	1764	0.23	ug/l	90
65) Chlorobenzene	11.44	112	23530	0.56	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	238	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.41	75	320658	42.47	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	320658	134.23	ug/l #	8
90) Hexachloroethane	13.63	117	29	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.92	180	1942	4.97	ug/l	82
94) Hexachlorobutadiene	15.01	225	375	Below Cal	#	42
95) Naphthalene	15.13	128	5316	2.51	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.32	180	2396	3.76	ug/l	91

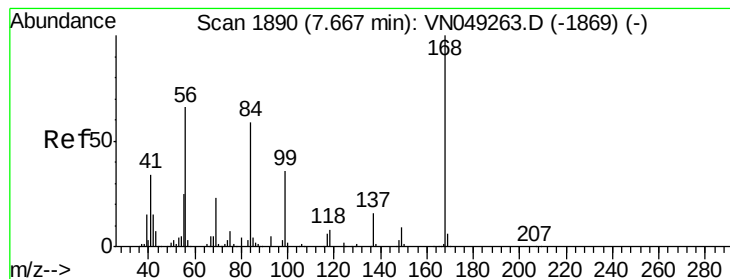
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN049388.D

Acq: 19 Jun 2018 16:29

Instrument :

MSVOA_N

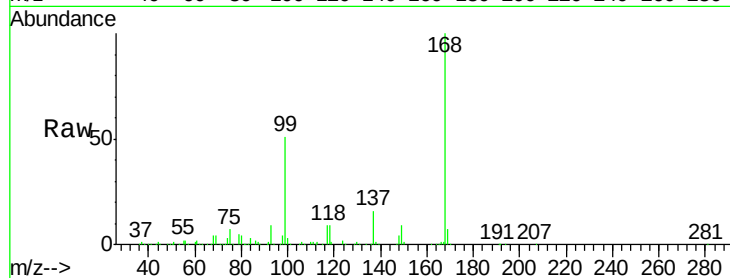
ClientSampleId :

Tot Ion:168 Resp: 1261913

Ion Ratio Lower Upper

168 100

99 50.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

600000

500000

400000

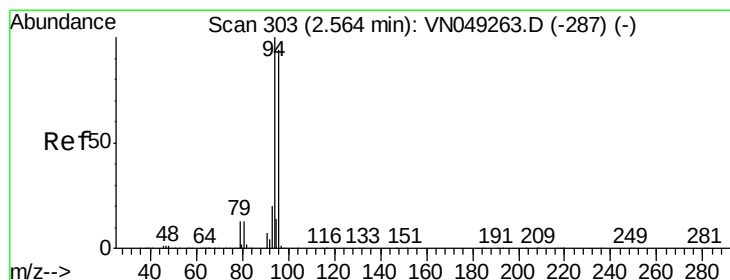
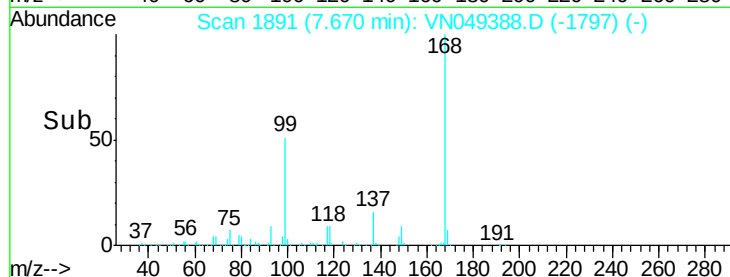
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: 0.62 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049388.D

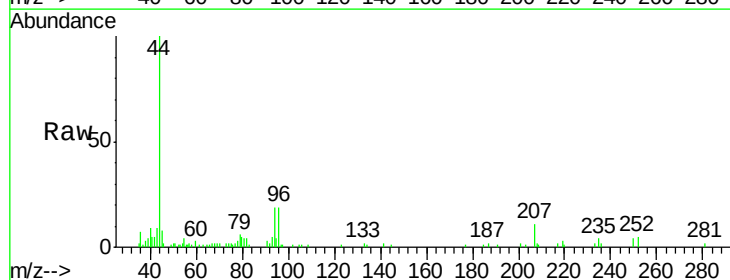
Acq: 19 Jun 2018 16:29

Tgt Ion: 94 Resp: 6504

Ion Ratio Lower Upper

94 100

96 90.2 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

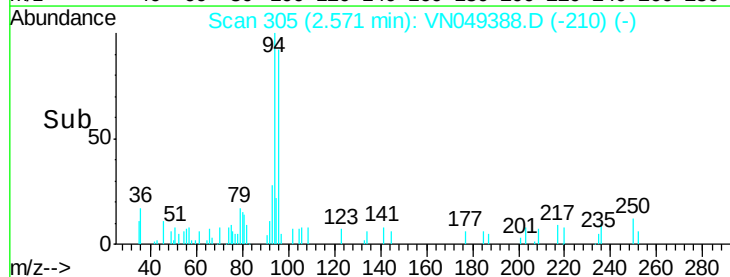
3000

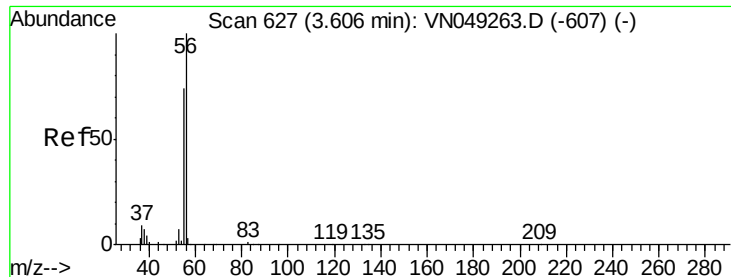
2000

1000

0

Time--> 2.50 2.55 2.60





#13

Acrolein

Concen: 0.79 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

Instrument :

MSVOA_N

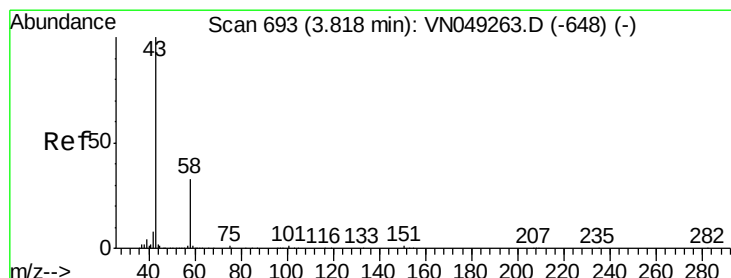
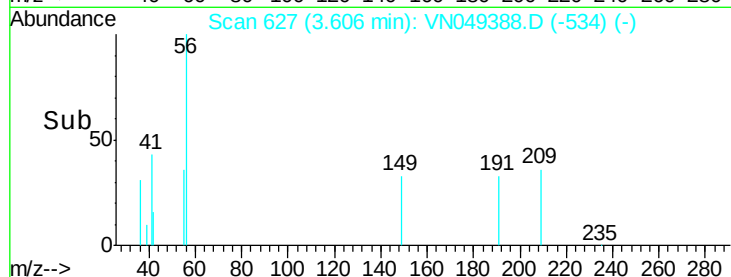
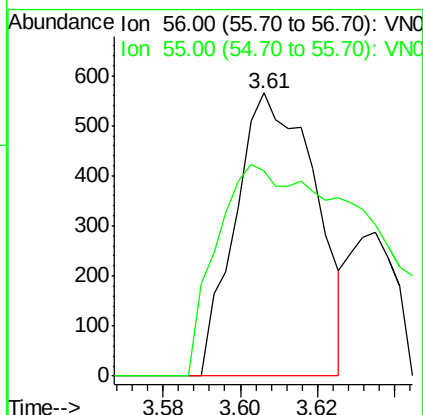
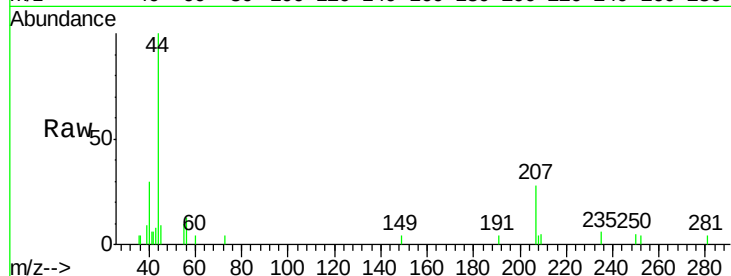
ClientSampled :

Tot Ion: 56 Resp: 809

Ion Ratio Lower Upper

56 100

55 144.3 57.1 85.7#



#16

Acetone

Concen: 11.98 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049388.D

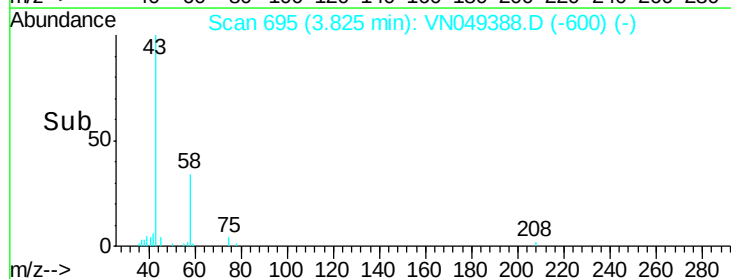
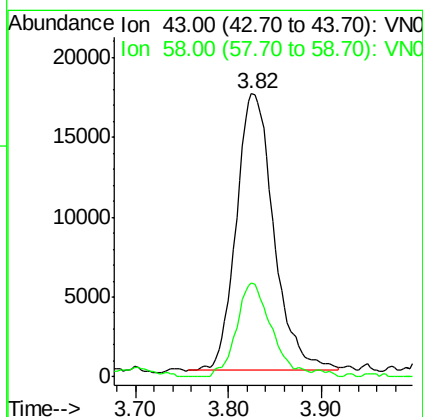
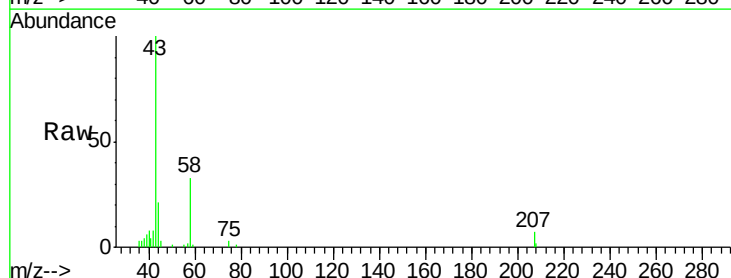
Acq: 19 Jun 2018 16:29

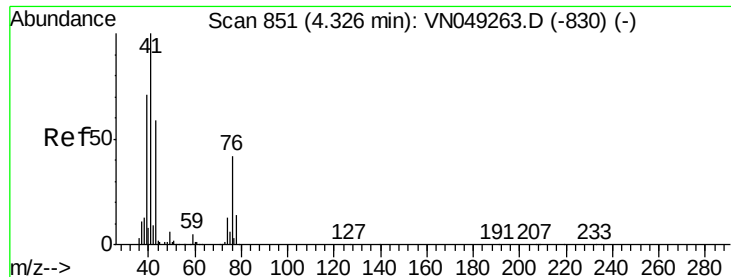
Tgt Ion: 43 Resp: 48675

Ion Ratio Lower Upper

43 100

58 34.0 22.4 33.6#

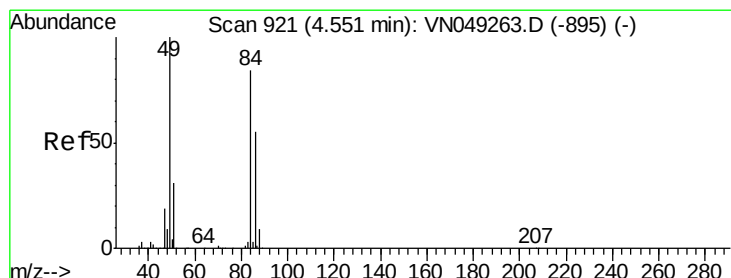
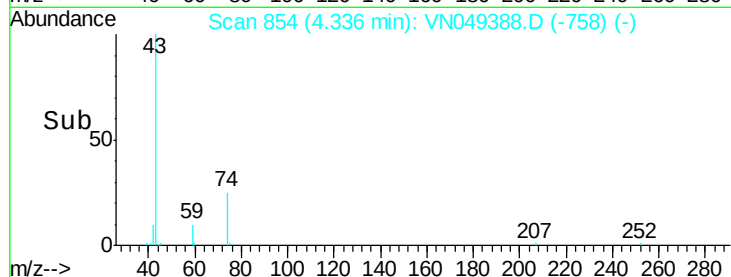
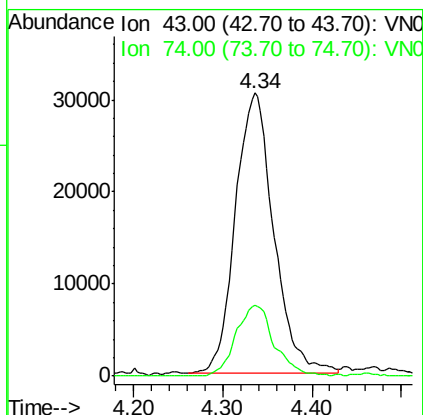
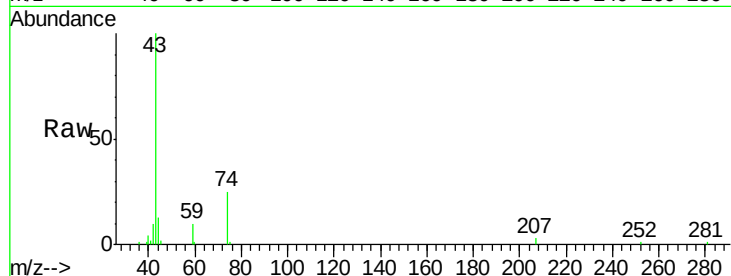




#18
Methvl Acetate
Concen: 7.35 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049388.D
Acq: 19 Jun 2018 16:29

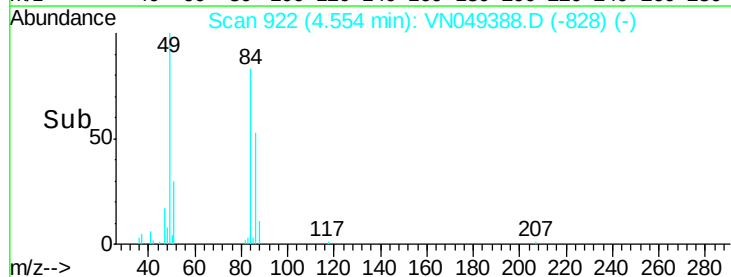
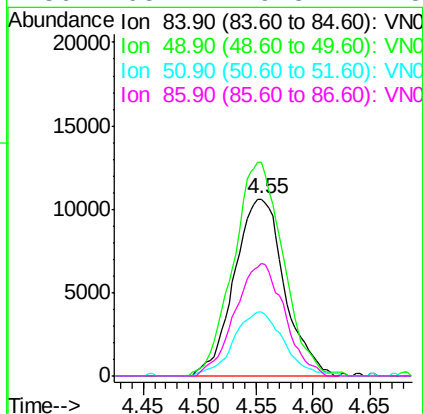
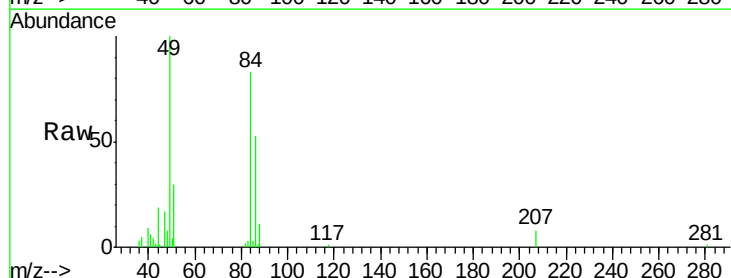
Instrument :
MSVOA_N
ClientSampleId :

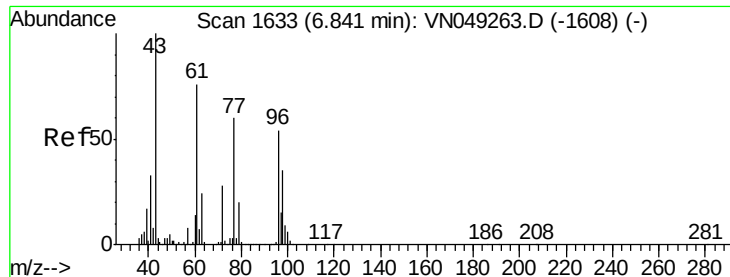
Tot Ion: 43 Resp: 91126
Ion Ratio Lower Upper
43 100
74 25.2 17.4 26.0



#20
Methylene Chloride
Concen: 1.93 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049388.D
Acq: 19 Jun 2018 16:29

Tgt Ion: 84 Resp: 32706
Ion Ratio Lower Upper
84 100
49 120.6 106.9 160.3
51 36.1 32.7 49.1
86 63.4 49.8 74.8

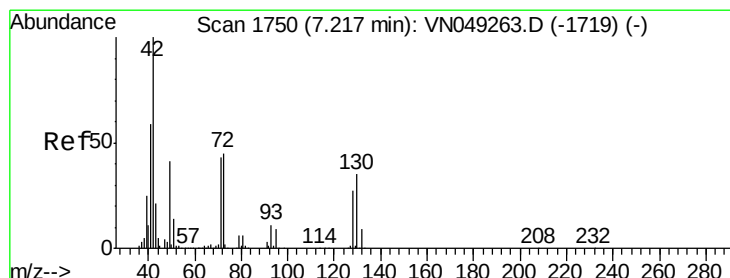
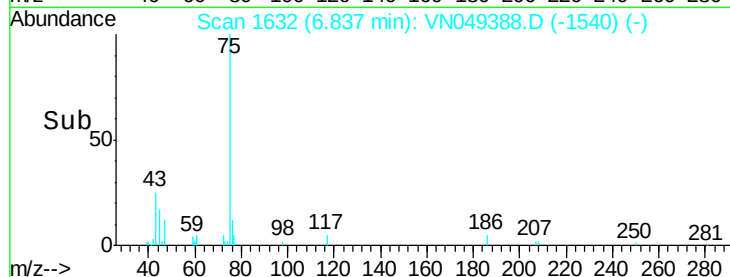
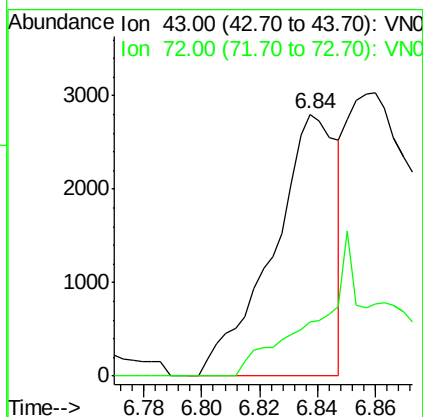
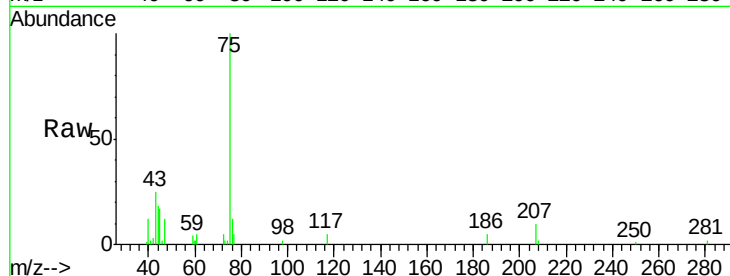




#25
2-Butanone
Concen: 0.79 ug/l
RT: 6.84 min Scan# 1632
Delta R.T. -0.00 min
Lab File: VN049388.D
Acq: 19 Jun 2018 16:29

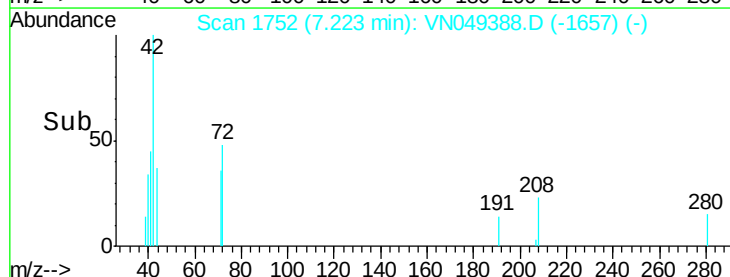
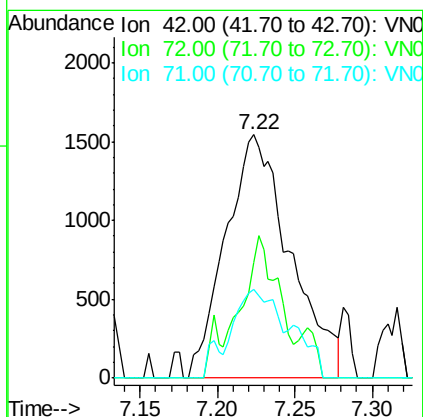
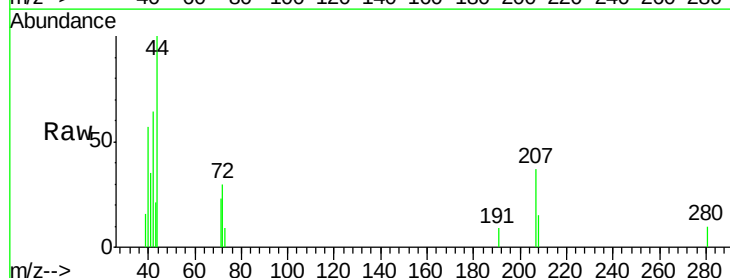
Instrument :
MSVOA_N
ClientSampleId :

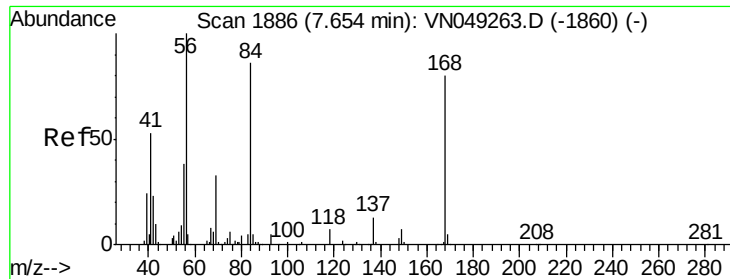
Tot Ion: 43 Resp: 4300
Ion Ratio Lower Upper
43 100
72 20.6 20.2 30.2



#29
Tetrahydrofuran
Concen: 1.28 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN049388.D
Acq: 19 Jun 2018 16:29

Tgt Ion: 42 Resp: 4483
Ion Ratio Lower Upper
42 100
72 31.9 32.2 48.4#
71 17.5 30.5 45.7#

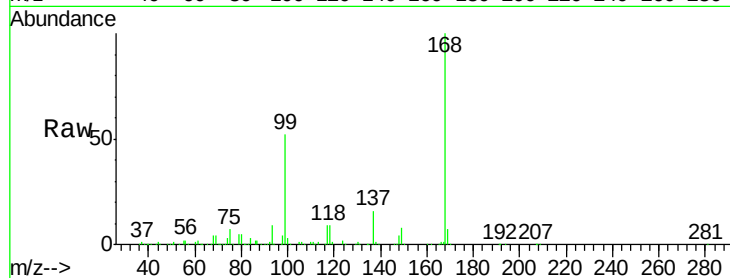




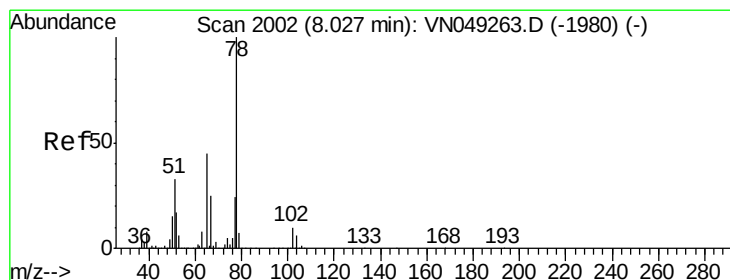
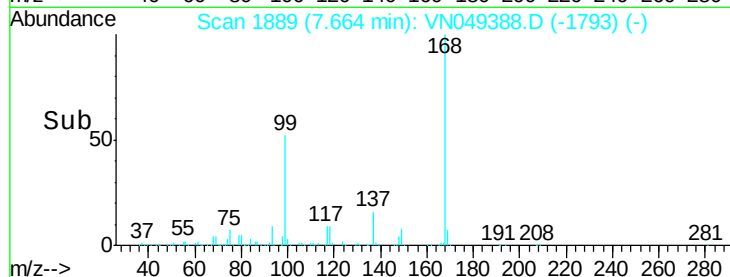
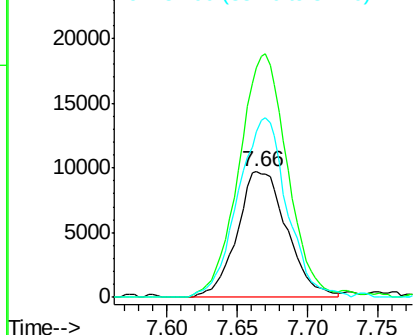
#31
Cyclohexane
Concen: 0.79 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049388.D
Acq: 19 Jun 2018 16:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 23962
Ion Ratio Lower Upper
56 100
69 183.0 25.0 37.4#
84 131.7 64.6 96.8#

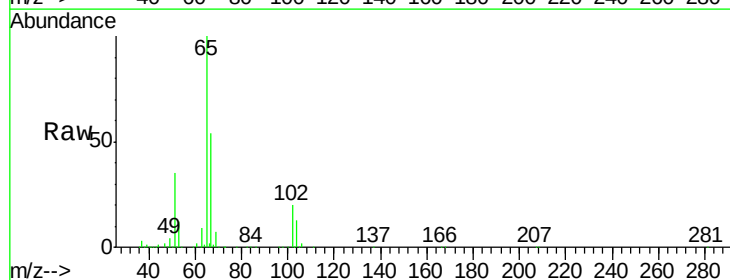


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

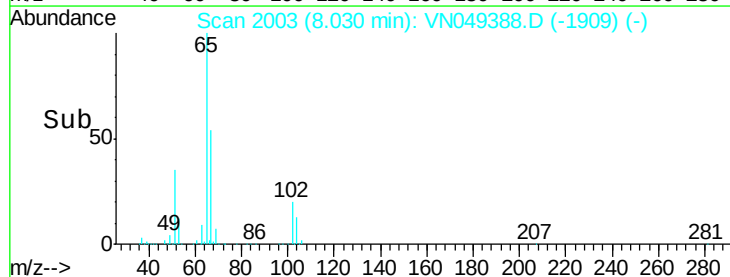
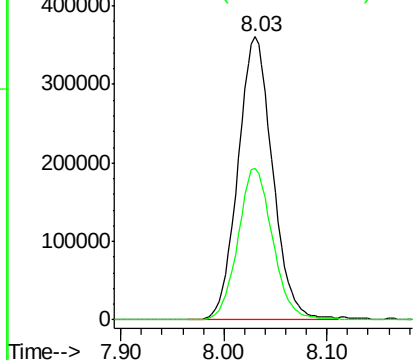


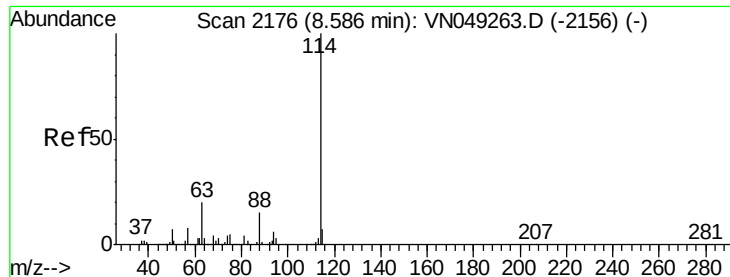
#33
1,2-Dichloroethane-d4
Concen: 50.29 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049388.D
Acq: 19 Jun 2018 16:29

Tgt Ion: 65 Resp: 841747
Ion Ratio Lower Upper
65 100
67 54.0 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0



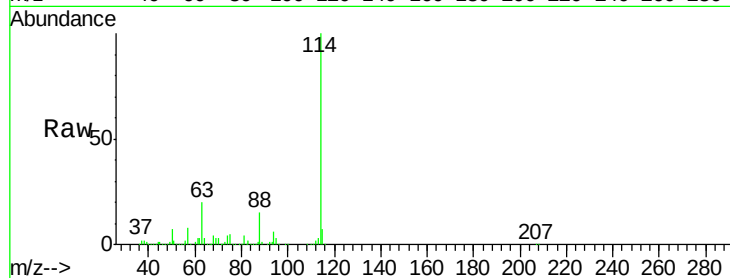


#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049388.D
 Acq: 19 Jun 2018 16:29

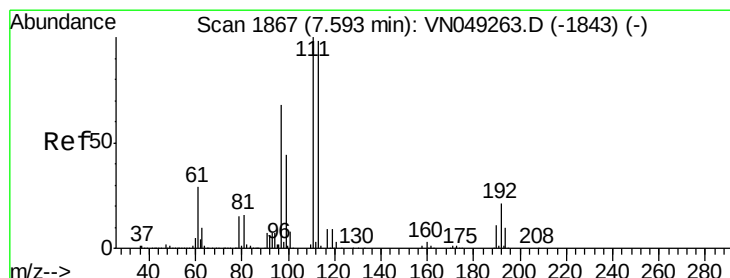
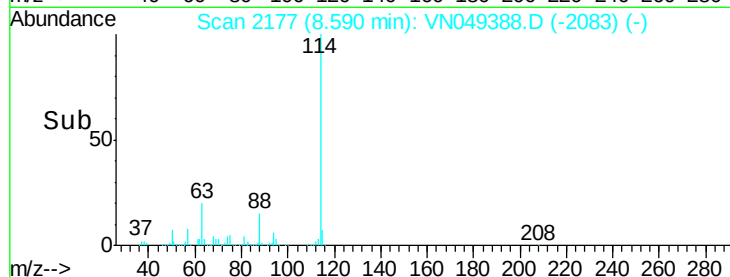
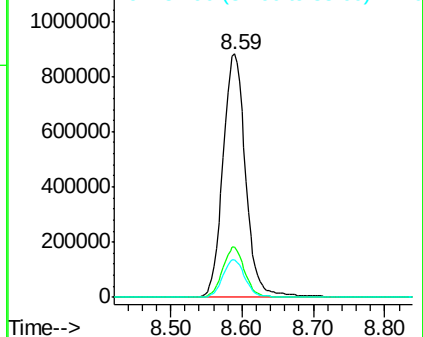
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 1948387

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	44.4
88	15.4	0.0	31.4



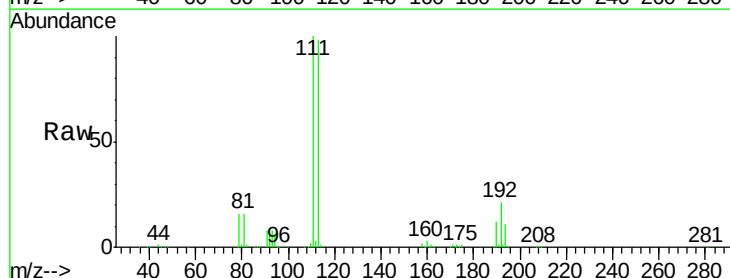
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V



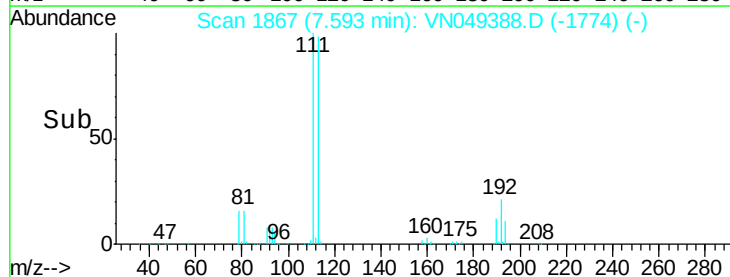
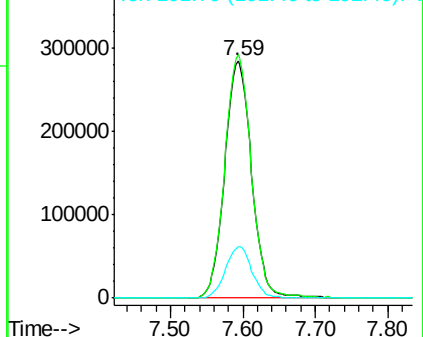
#35
 Dibromofluoromethane
 Concen: 46.55 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049388.D
 Acq: 19 Jun 2018 16:29

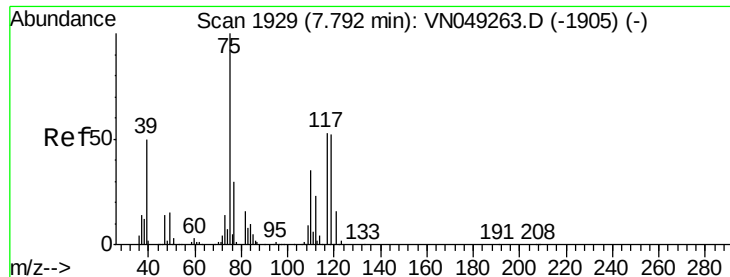
Tgt Ion:113 Resp: 733765

Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.4	123.6
192	21.3	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

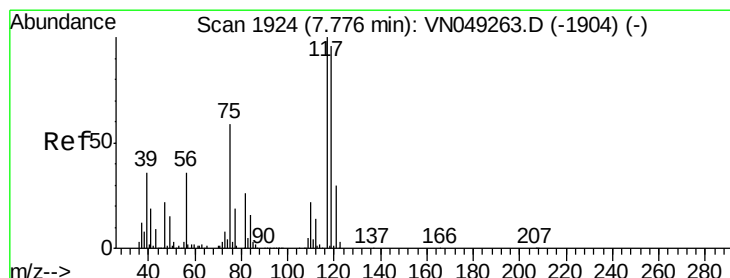
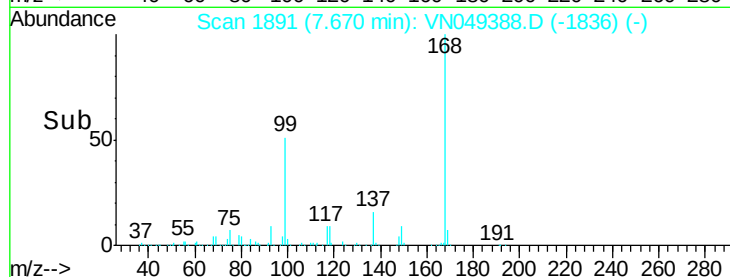
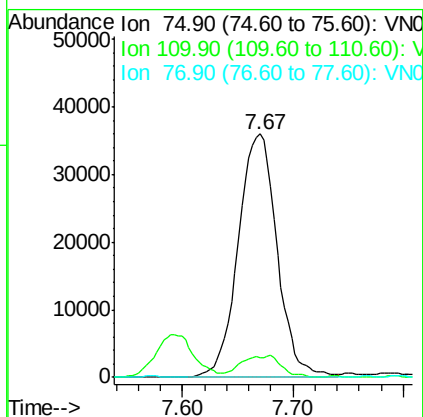
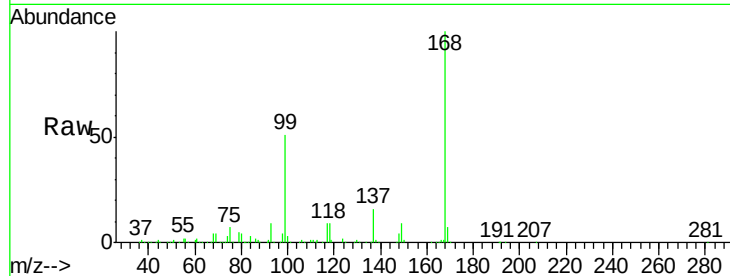




#36
 1,1-Dichloropropene
 Concen: 3.94 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN049388.D
 Acq: 19 Jun 2018 16:29

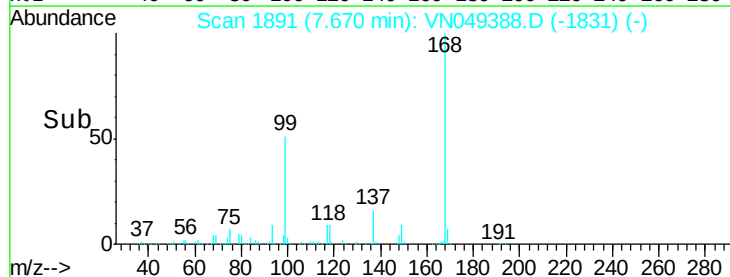
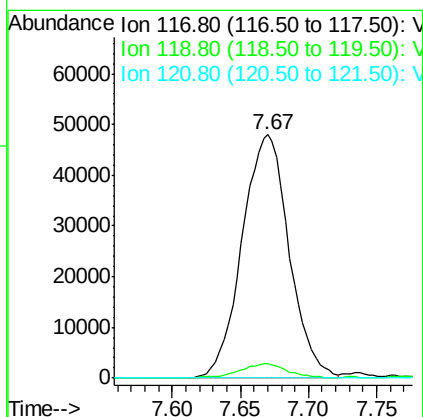
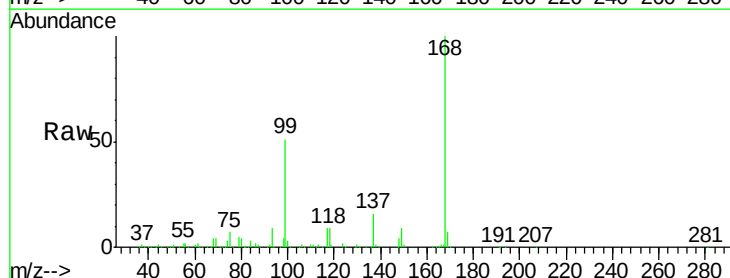
Instrument :
 MSVOA_N
 ClientSampled :

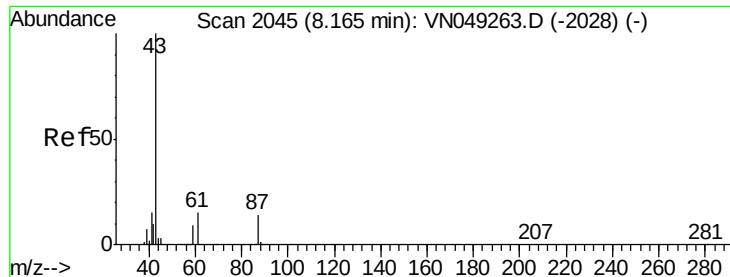
Tot Ion	75	110	77	Resp	Lower	Upper
88046	100	3.8	0.0		17.0	50.9#
					24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.96 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN049388.D
 Acq: 19 Jun 2018 16:29

Tgt Ion	117	119	121	Resp	Lower	Upper
114559	100	5.7	0.0		75.6	113.4#
					24.7	37.1#





#43

Isopropyl Acetate

Concen: 6.45 ug/l

RT: 8.25 min Scan# 2070

Delta R.T. 0.08 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

Instrument :

MSVOA_N

ClientSampled :

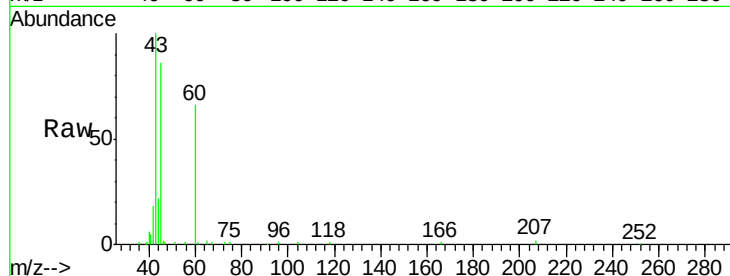
Tot Ion: 43 Resp: 149682

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

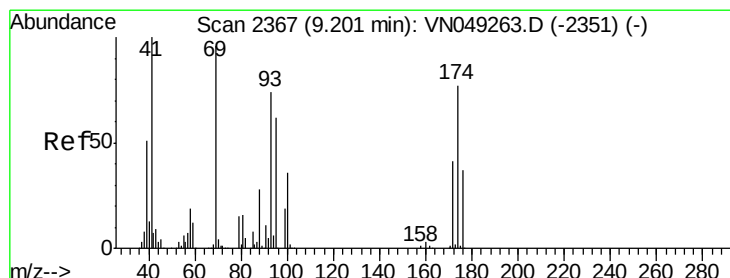
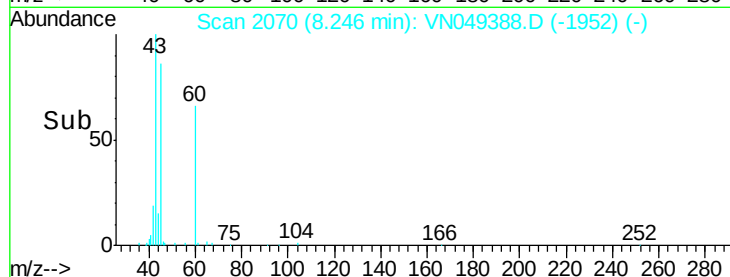
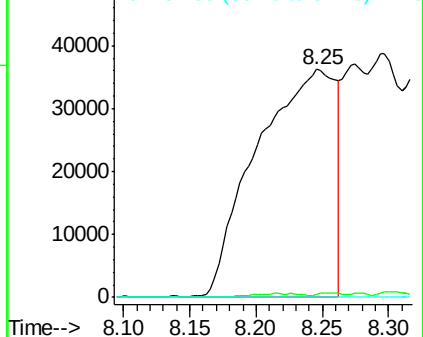
87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#49

1,4-Dioxane

Concen: 2.49 ug/l

RT: 9.21 min Scan# 2371

Delta R.T. 0.01 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

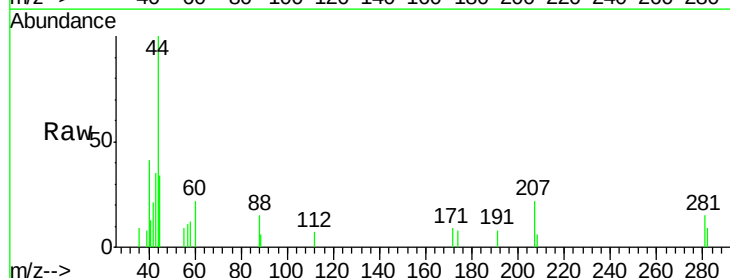
Tgt Ion: 88 Resp: 375

Ion Ratio Lower Upper

88 100

43 26.1 30.9 46.3#

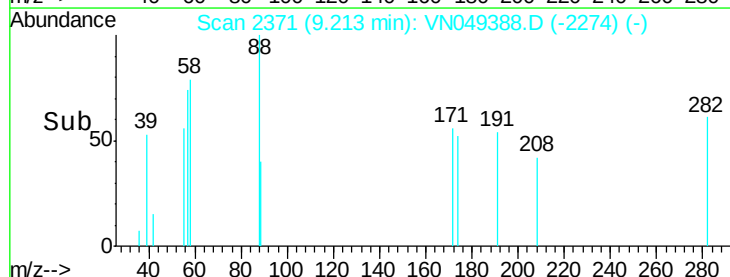
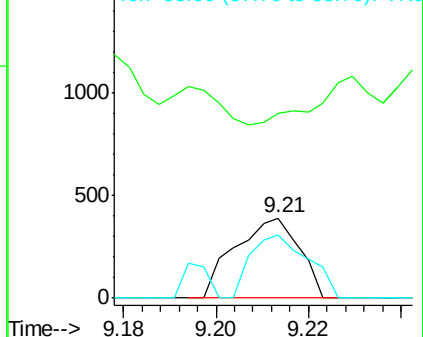
58 70.9 58.9 88.3

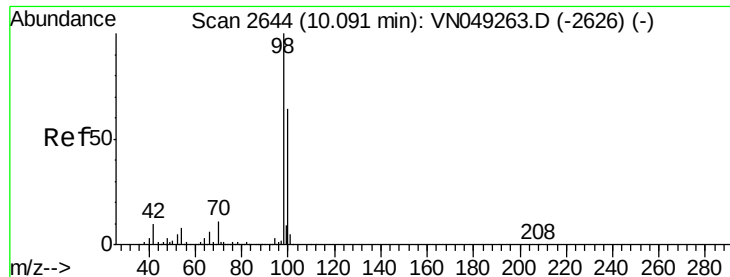


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 45.04 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

Instrument :

MSVOA_N

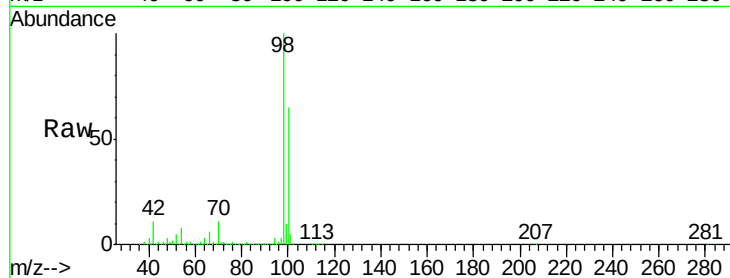
ClientSampleId :

Tot Ion: 98 Resp: 2703379

Ion Ratio Lower Upper

98 100

100 63.9 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049263.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN049263.D (-2626) (-)

10.09

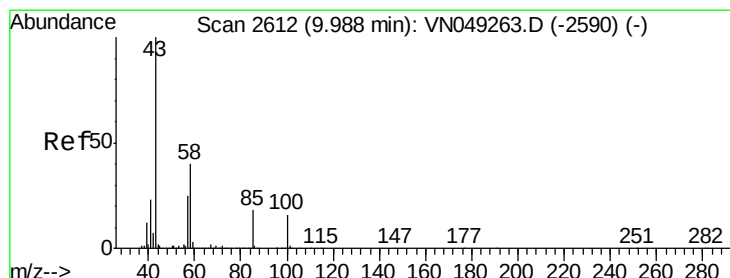
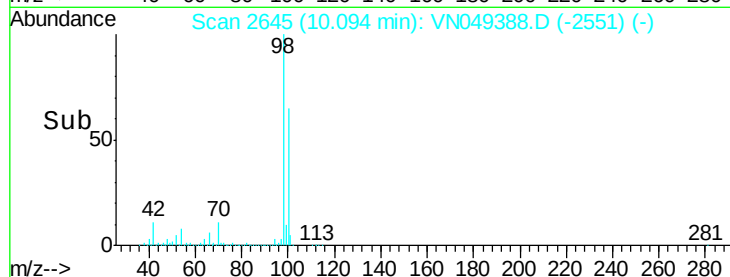
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.54 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. -0.00 min

Lab File: VN049388.D

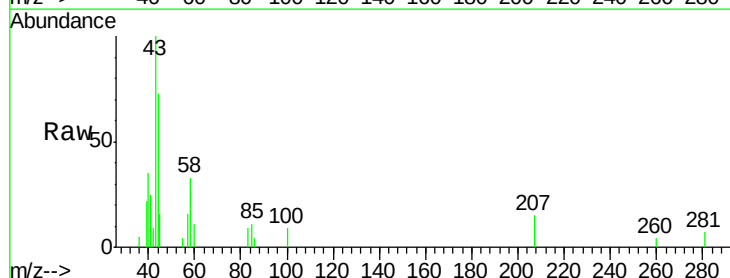
Acq: 19 Jun 2018 16:29

Tgt Ion: 43 Resp: 6516

Ion Ratio Lower Upper

43 100

58 37.2 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN049263.D (-2590) (-)

Ion 58.00 (57.70 to 58.70): VN049263.D (-2590) (-)

9.99

4000

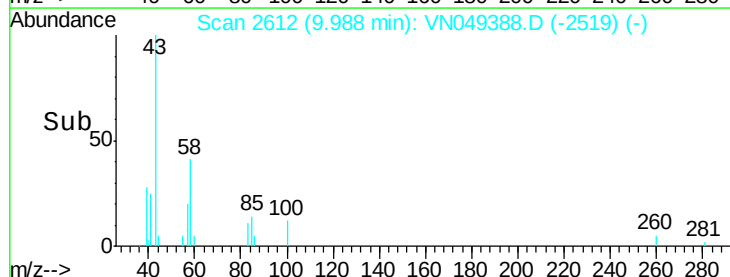
3000

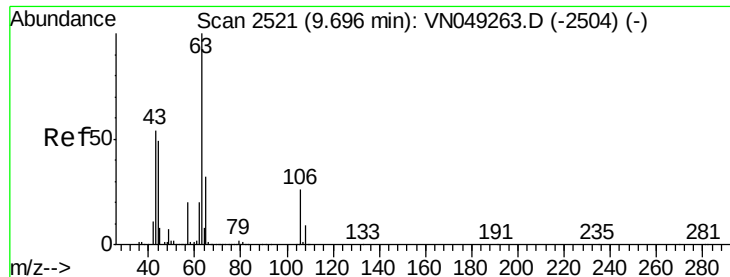
2000

1000

0

Time-->





#58

2-Chloroethyl Vinyl ether

Concen: 14.33 ug/l

RT: 9.69 min Scan# 2520

Delta R.T. -0.00 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

Instrument :

MSVOA_N

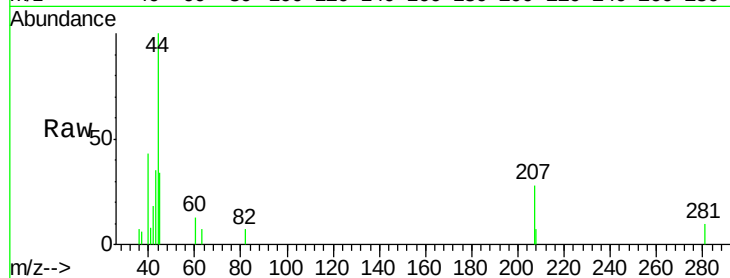
ClientSampleId :

Tot Ion: 63 Resp: 34

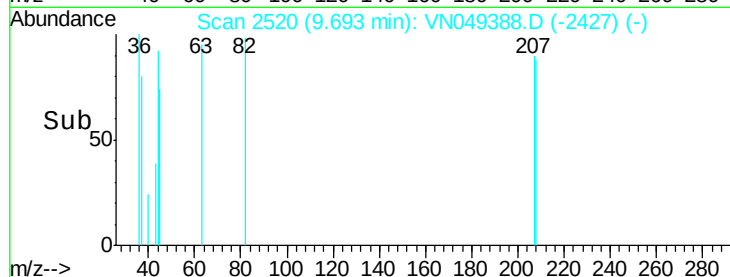
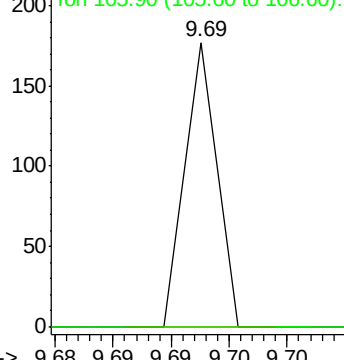
Ion Ratio Lower Upper

63 100

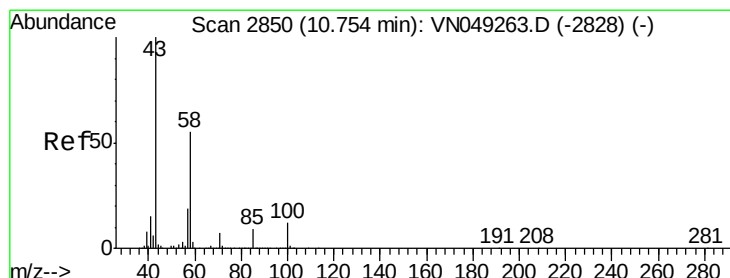
106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN049388.D (-2427) (-)



Time--> 9.68 9.69 9.69 9.70 9.70



#59

2-Hexanone

Concen: 0.23 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN049388.D

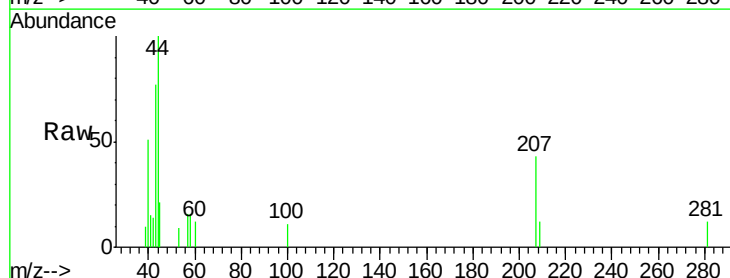
Acq: 19 Jun 2018 16:29

Tgt Ion: 43 Resp: 1764

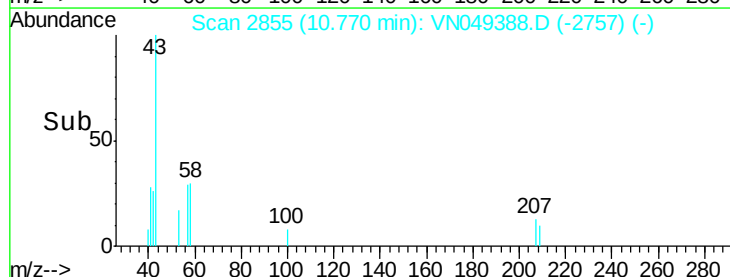
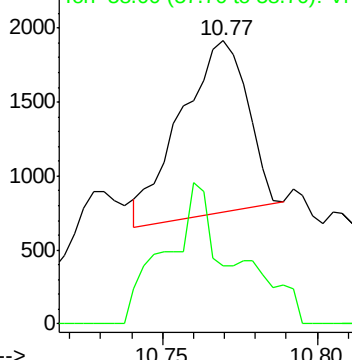
Ion Ratio Lower Upper

43 100

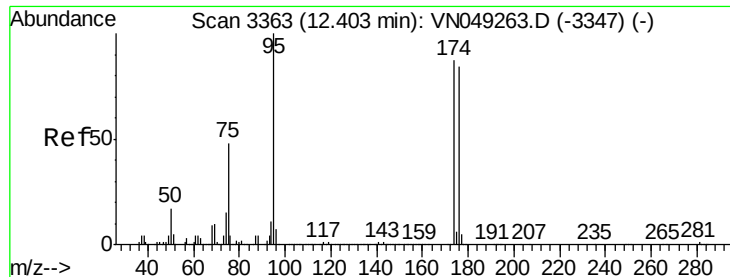
58 57.4 25.2 75.6



Abundance Ion 43.00 (42.70 to 43.70): VN049388.D (-2757) (-)



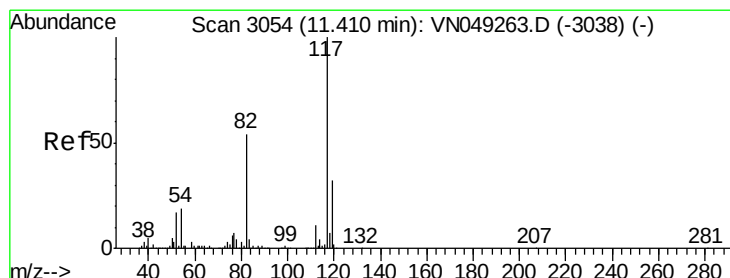
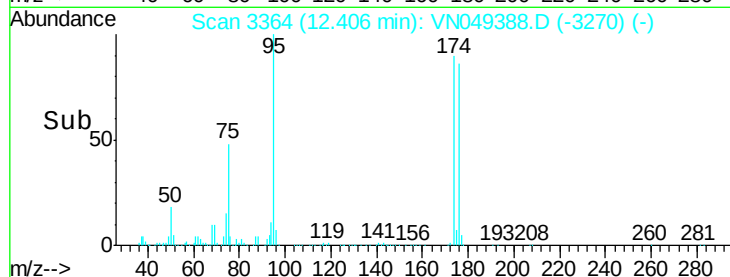
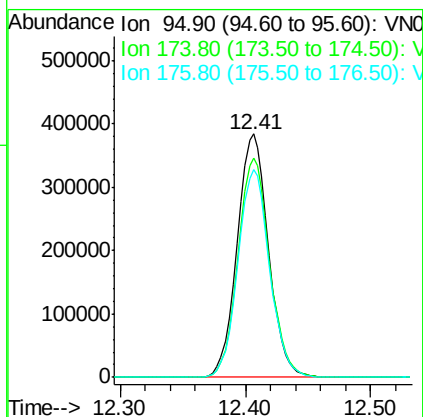
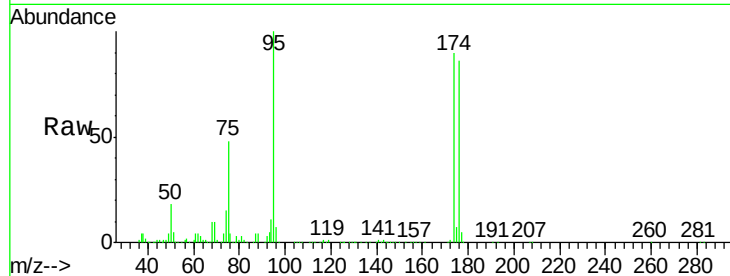
Time--> 10.75 10.75 10.77 10.80



#62
4-Bromofluorobenzene
Concen: 33.48 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN049388.D
Acq: 19 Jun 2018 16:29

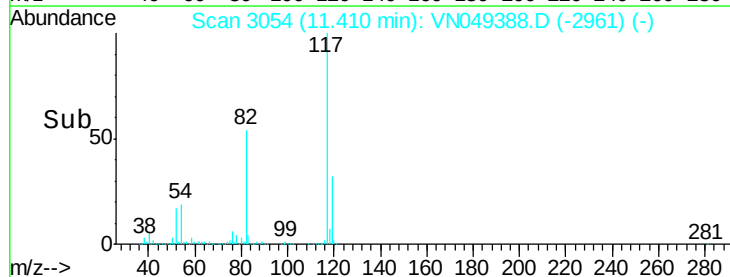
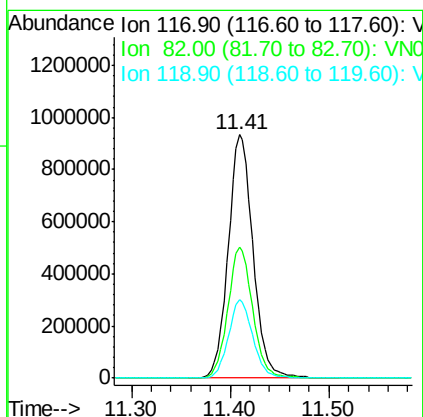
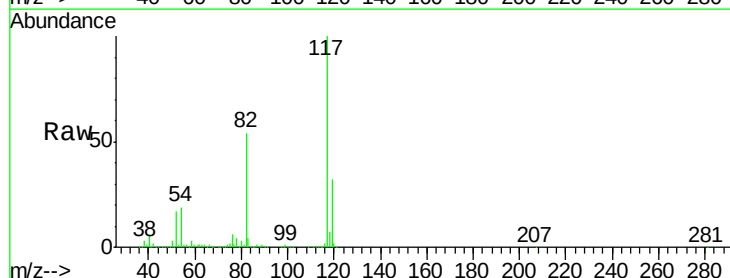
Instrument :
MSVOA_N
ClientSampled :

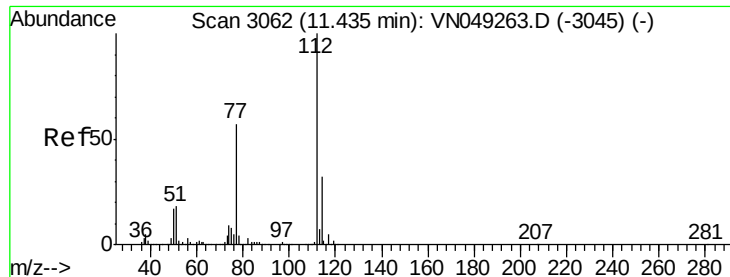
Tot Ion: 95 Resp: 664403
Ion Ratio Lower Upper
95 100
174 90.9 0.0 165.6
176 86.3 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049388.D
Acq: 19 Jun 2018 16:29

Tgt Ion: 117 Resp: 1638350
Ion Ratio Lower Upper
117 100
82 53.8 45.9 68.9
119 32.0 25.5 38.3





#65

Chlorobenzene

Concen: 0.56 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

Instrument :

MSVOA_N

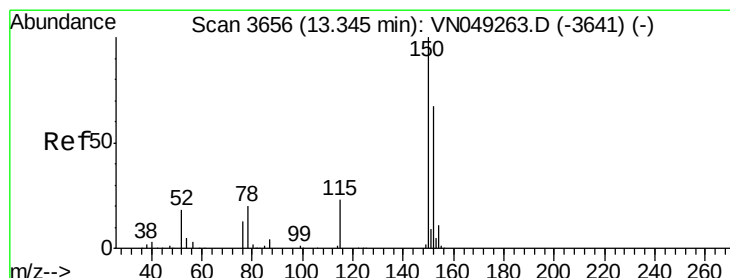
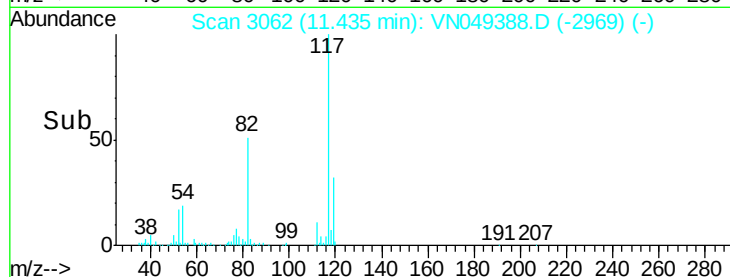
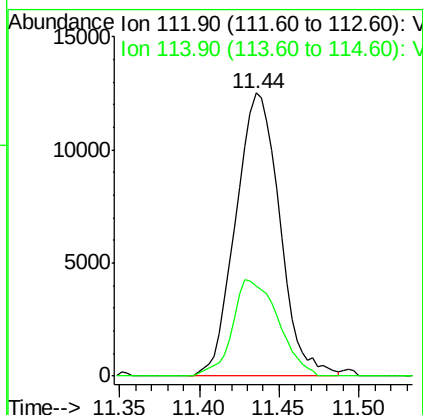
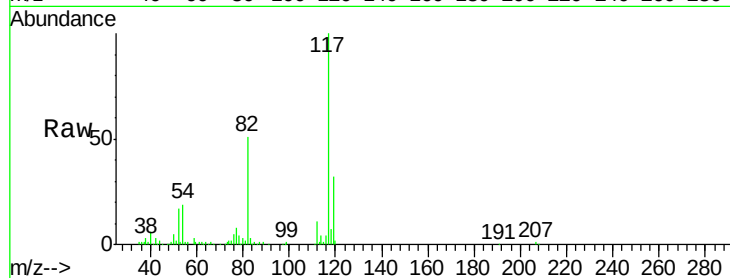
ClientSampled :

Tot Ion:112 Resp: 23530

Ion Ratio Lower Upper

112 100

114 31.7 26.2 39.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

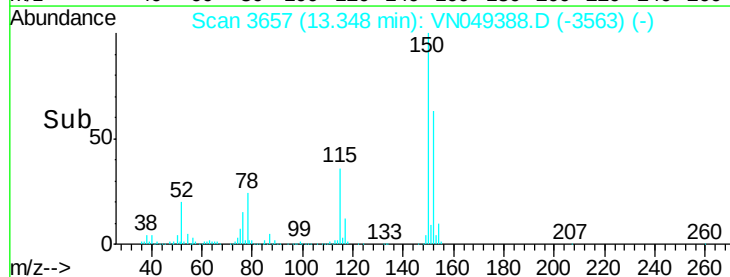
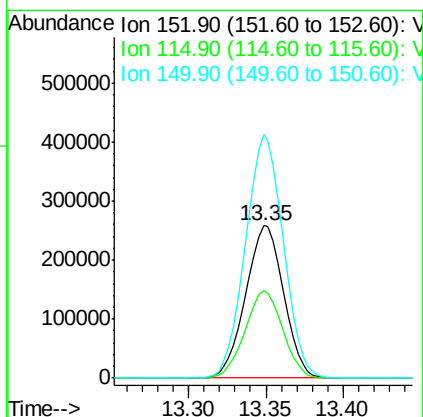
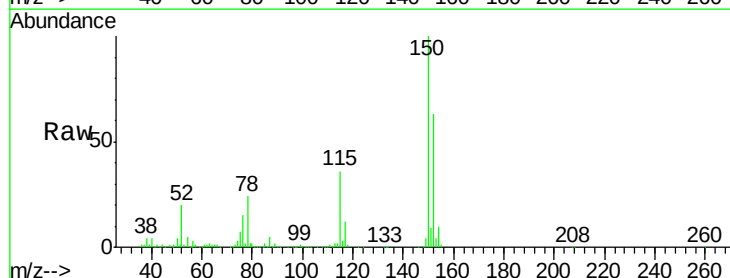
Tgt Ion:152 Resp: 442486

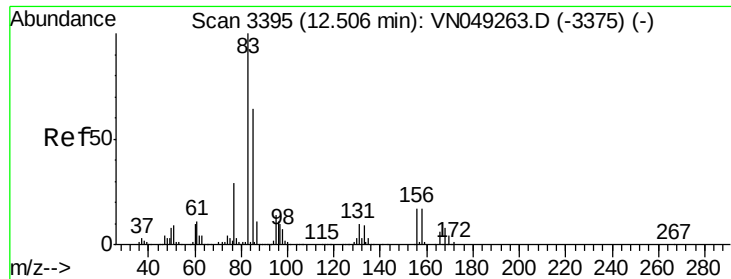
Ion Ratio Lower Upper

152 100

115 56.7 28.7 86.1

150 158.9 0.0 351.0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

Instrument :

MSVOA_N

ClientSampleId :

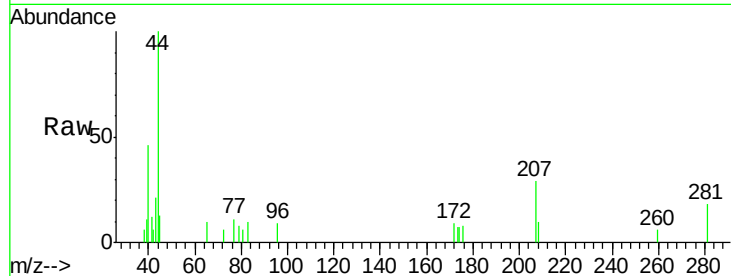
Tot Ion: 83 Resp: 238

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

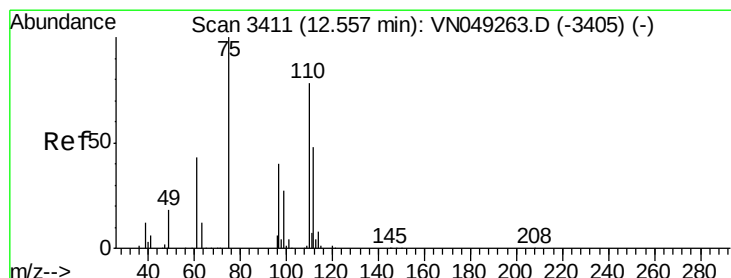
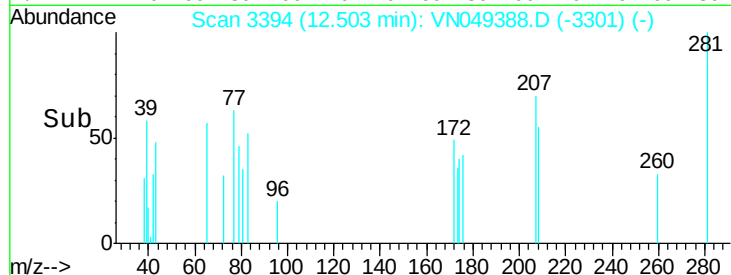
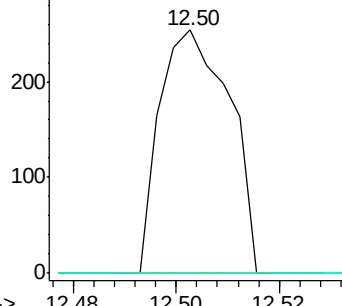
85 0.0 32.0 96.0#



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



#76

1,2,3-Trichloropropane

Concen: 42.47 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049388.D

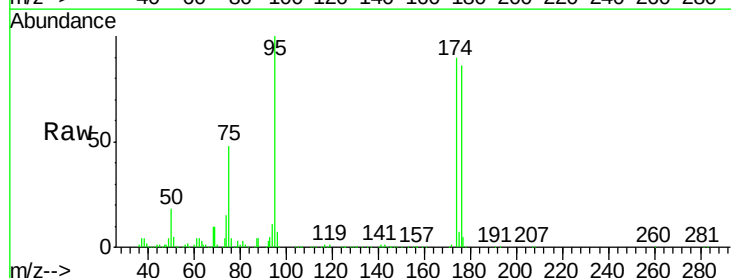
Acq: 19 Jun 2018 16:29

Tgt Ion: 75 Resp: 320658

Ion Ratio Lower Upper

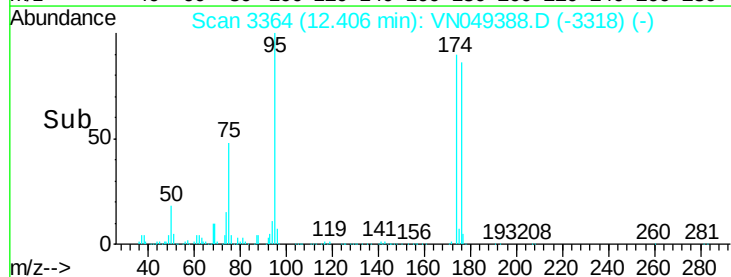
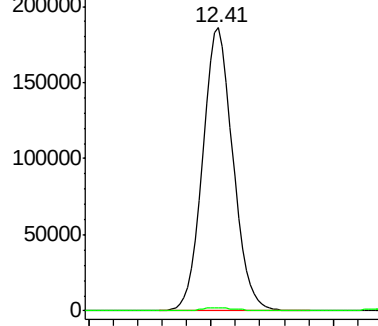
75 100

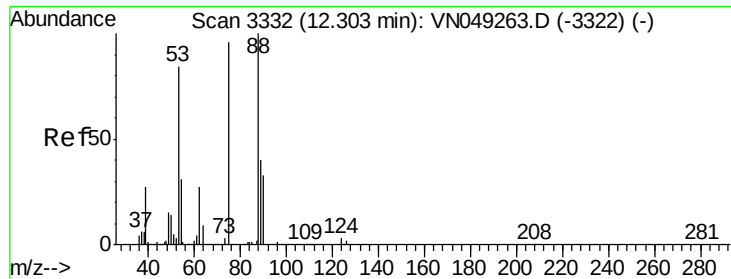
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 134.23 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

Instrument :

MSVOA_N

ClientSampled :

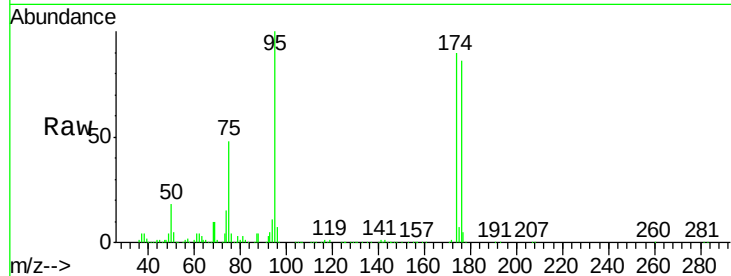
Tot Ion: 75 Resp: 320658

Ion Ratio Lower Upper

75 100

53 0.1 82.7 124.1#

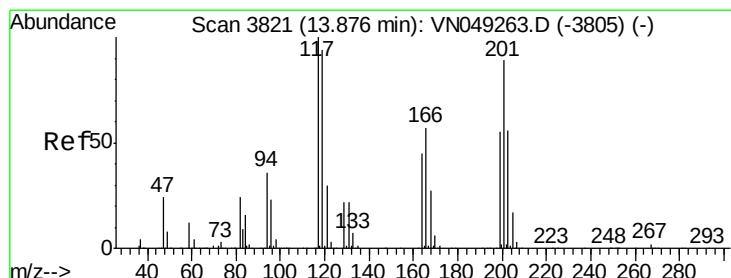
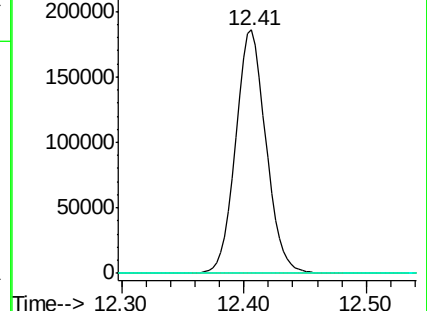
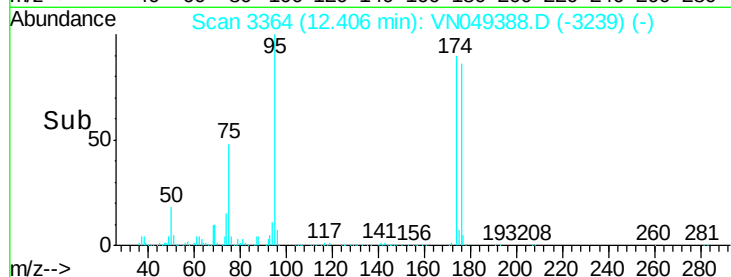
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049388.D (-3364) (-)

Ion 53.00 (52.70 to 53.70): VN049388.D (-3364) (-)

Ion 88.90 (88.60 to 89.60): VN049388.D (-3364) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.63 min Scan# 3745

Delta R.T. -0.24 min

Lab File: VN049388.D

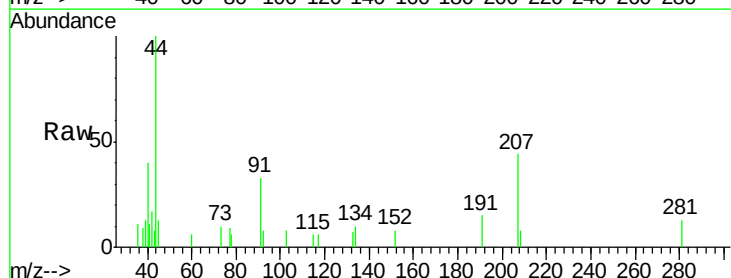
Acq: 19 Jun 2018 16:29

Tgt Ion: 117 Resp: 29

Ion Ratio Lower Upper

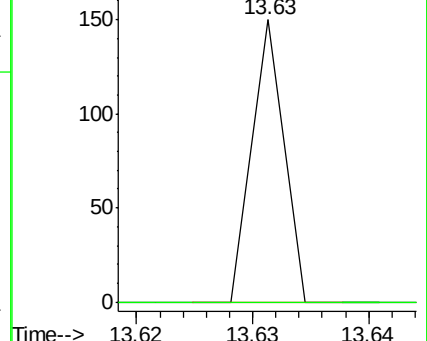
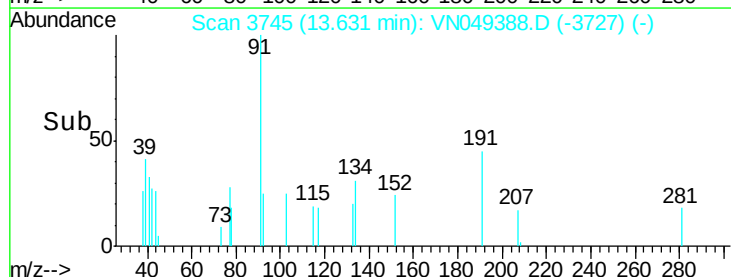
117 100

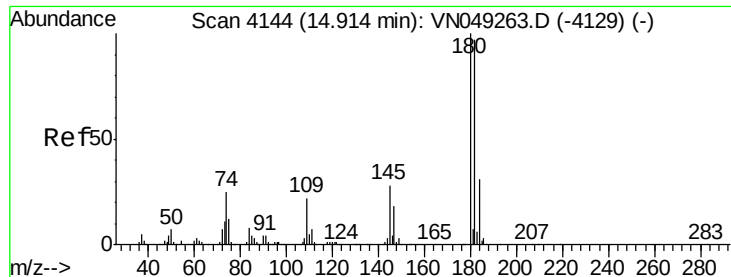
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): VN049388.D (-3745) (-)

Ion 200.70 (200.40 to 201.40): VN049388.D (-3745) (-)

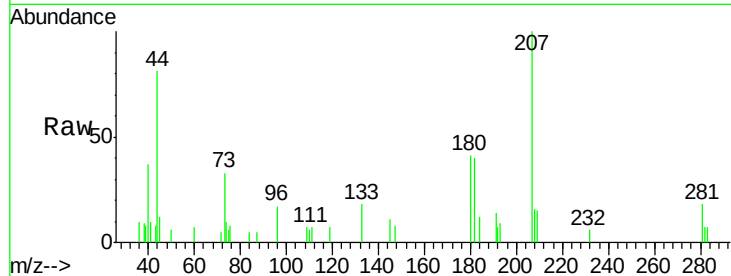




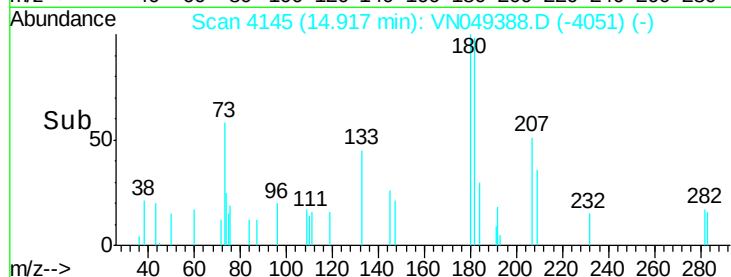
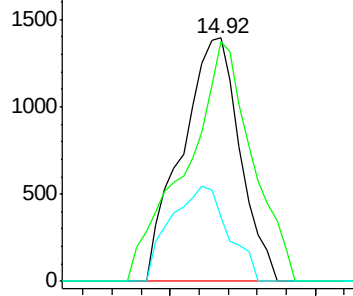
#93
 1,2,4-Trichlorobenzene
 Concen: 4.97 ug/l
 RT: 14.92 min Scan# 4145
 Delta R.T. 0.00 min
 Lab File: VN049388.D
 Acq: 19 Jun 2018 16:29

Instrument :
 MSVOA_N
 ClientSampled :

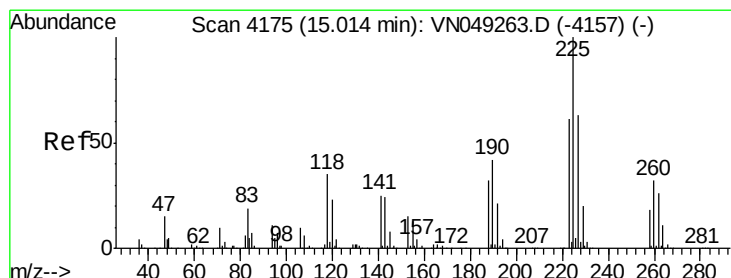
Tot Ion:180 Resp: 1942
 Ion Ratio Lower Upper
 180 100
 182 112.2 46.9 140.8
 145 38.5 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

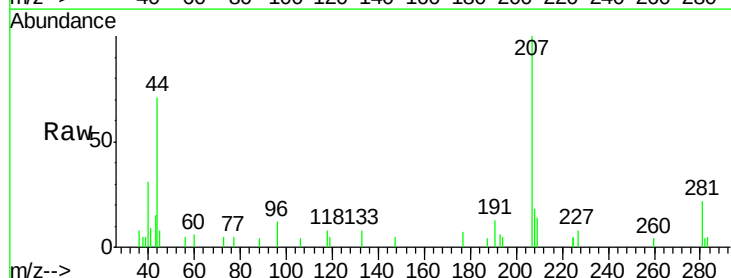


Time-->

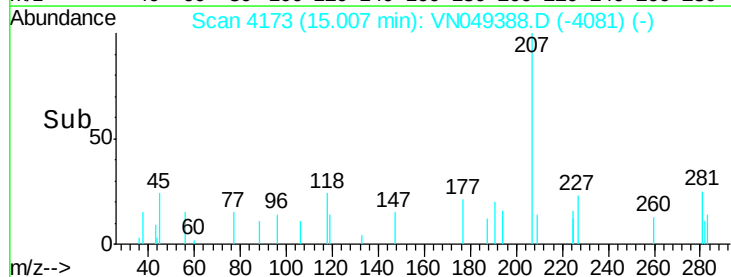
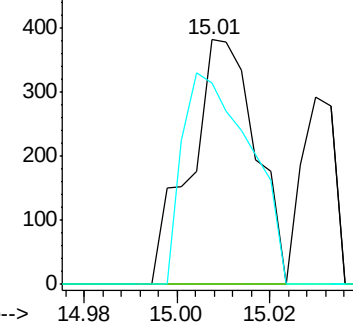


#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4173
 Delta R.T. -0.01 min
 Lab File: VN049388.D
 Acq: 19 Jun 2018 16:29

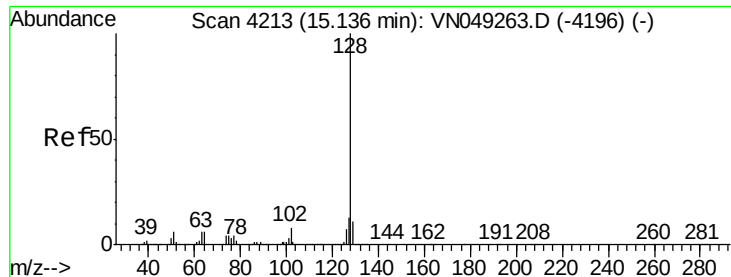
Tgt Ion:225 Resp: 375
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.1 96.3#
 227 89.6 31.8 95.3



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 2.51 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

Instrument :

MSVOA_N

ClientSampleId :

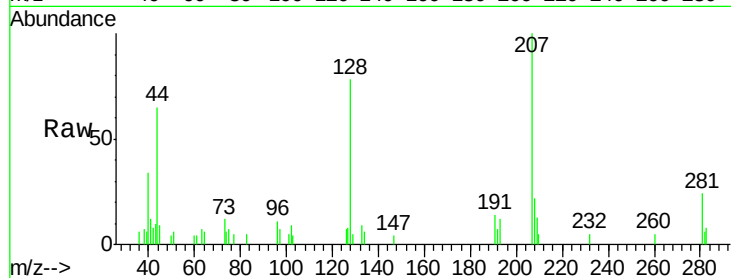
Tot Ion:128 Resp: 5316

Ion Ratio Lower Upper

128 100

127 5.2 10.6 16.0#

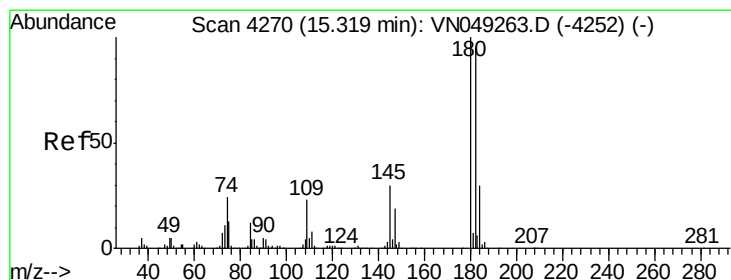
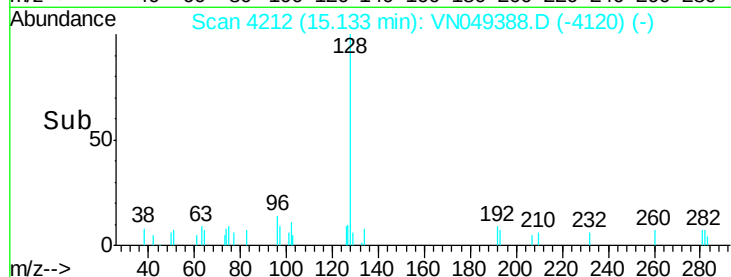
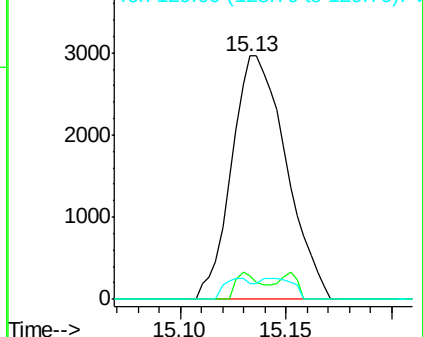
129 4.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.76 ug/l

RT: 15.32 min Scan# 4271

Delta R.T. 0.00 min

Lab File: VN049388.D

Acq: 19 Jun 2018 16:29

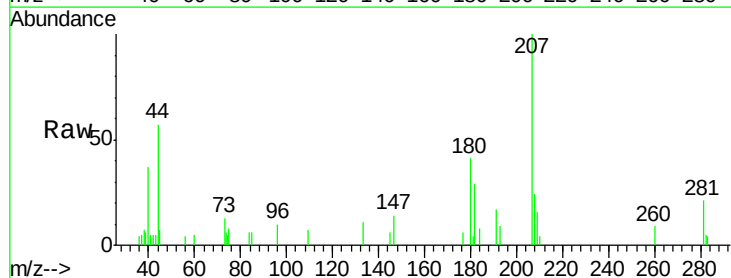
Tgt Ion:180 Resp: 2396

Ion Ratio Lower Upper

180 100

182 89.5 47.3 141.8

145 20.1 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

