

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062818\
 Data File : VN049588.D
 Acq On : 28 Jun 2018 14:33
 Operator : MD\SY
 Sample : PB110627ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 29 01:37:45 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	1196414	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1924940	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1597816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	626605	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	787677	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
35) Dibromofluoromethane	7.59	113	657331	42.21	ug/l	0.00
Spiked Amount			Recovery	=	84.42%	
50) Toluene-d8	10.09	98	2568618	43.32	ug/l	0.00
Spiked Amount			Recovery	=	86.64%	
62) 4-Bromofluorobenzene	12.40	95	761563	38.84	ug/l	0.00
Spiked Amount			Recovery	=	77.68%	

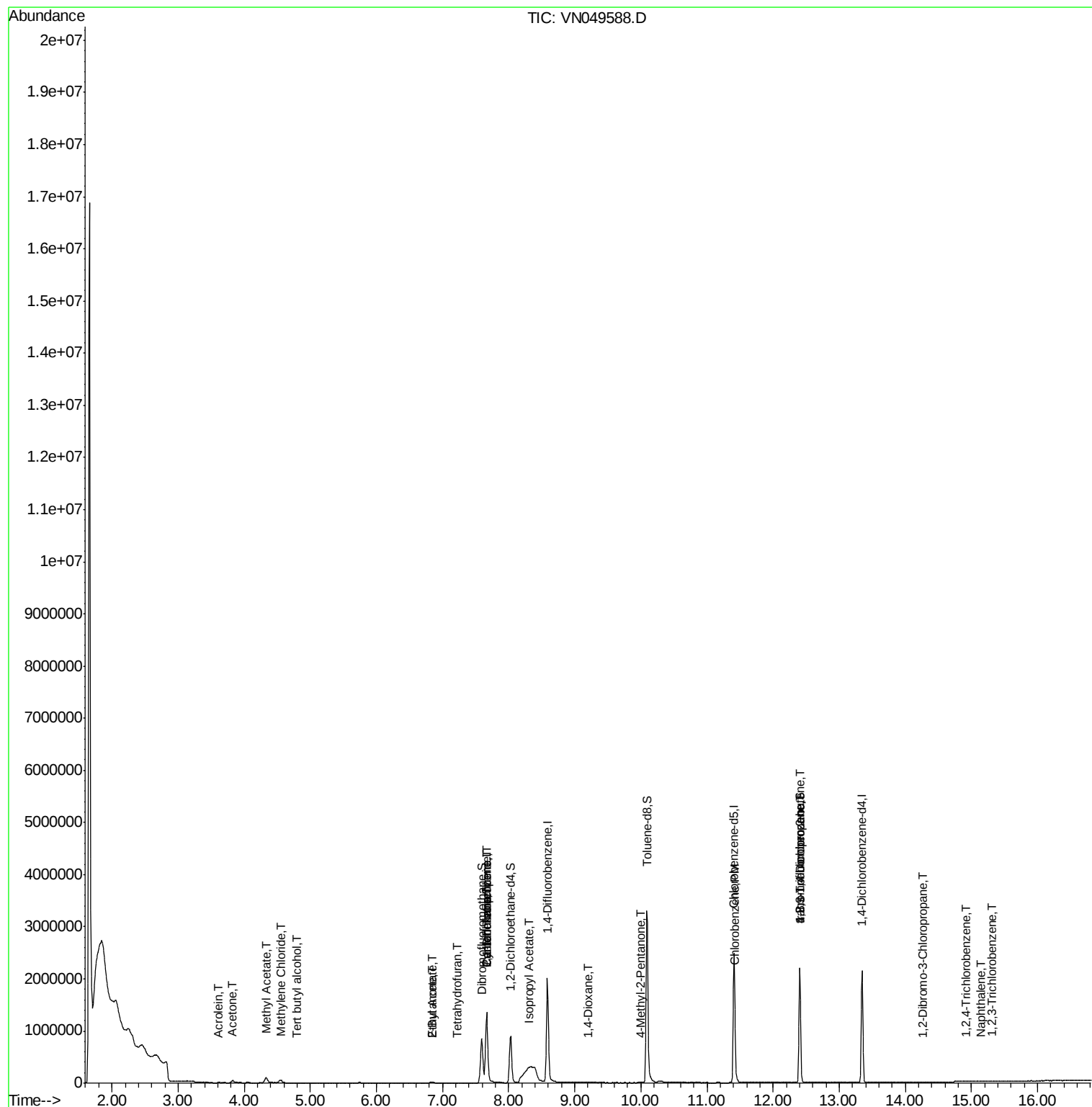
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.80	59	378	0.41	ug/l #	84
13) Acrolein	3.60	56	1601	1.64	ug/l #	47
16) Acetone	3.82	43	76728	19.91	ug/l	93
18) Methyl Acetate	4.33	43	188303	16.03	ug/l	95
20) Methylene Chloride	4.55	84	35685	2.22	ug/l	84
25) 2-Butanone	6.85	43	10227	1.98	ug/l	95
29) Tetrahydrofuran	7.23	42	2731	0.82	ug/l #	43
31) Cyclohexane	7.67	56	21358	0.74	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	83198	3.77	ug/l #	50
37) Ethyl Acetate	6.85	43	10227	0.85	ug/l #	70
38) Carbon Tetrachloride	7.67	117	105590	4.62	ug/l #	17
43) Isopropyl Acetate	8.31	43	553222	24.14	ug/l #	64
49) 1,4-Dioxane	9.21	88	110	0.74	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	6185	0.51	ug/l #	88
65) Chlorobenzene	11.43	112	18189	0.44	ug/l	88
75) 1,1,2,2-Tetrachloroethane	12.50	83	123	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	366707	34.30	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	366707	108.40	ug/l #	9
90) Hexachloroethane	13.83	117	116	Below Cal	#	9
92) 1,2-Dibromo-3-Chloropropan	14.27	75	542	0.28	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.91	180	815	4.81	ug/l	78
95) Naphthalene	15.14	128	2253	2.21	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.31	180	577	3.51	ug/l #	68

(#) = 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: VN049588.D

Acq: 28 Jun 2018 14:33

Instrument :

MSVOA_N

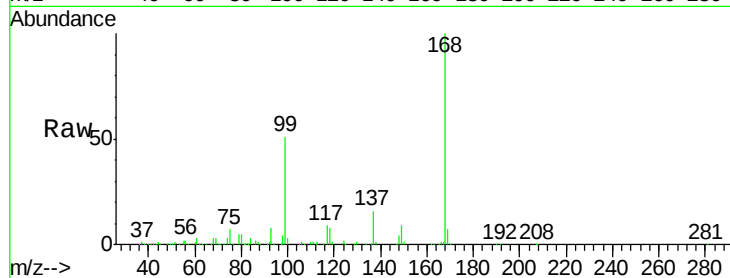
ClientSampled :

Tot Ion:168 Resp: 1196414

Ion Ratio Lower Upper

168 100

99 50.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

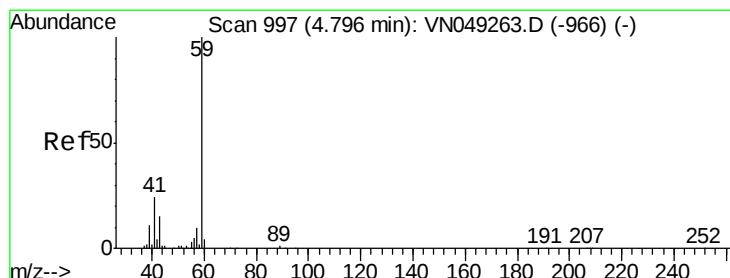
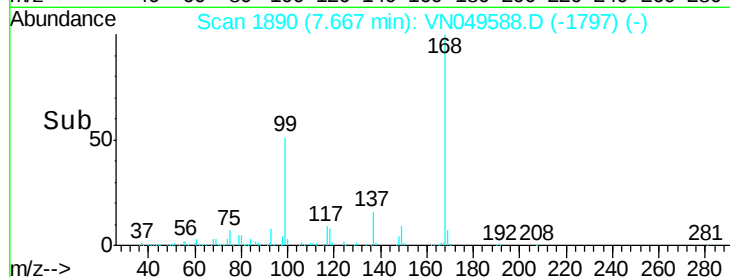
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.41 ug/l

RT: 4.80 min Scan# 998

Delta R.T. 0.00 min

Lab File: VN049588.D

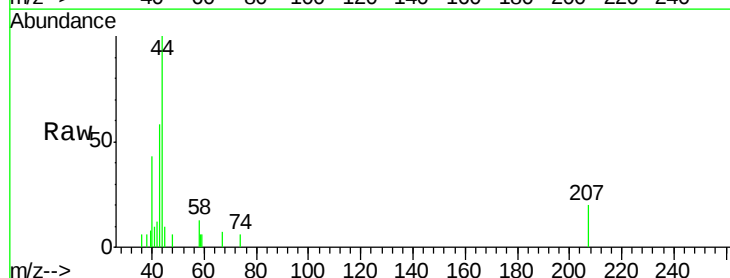
Acq: 28 Jun 2018 14:33

Tgt Ion: 59 Resp: 378

Ion Ratio Lower Upper

59 100

57 17.5 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.80

400

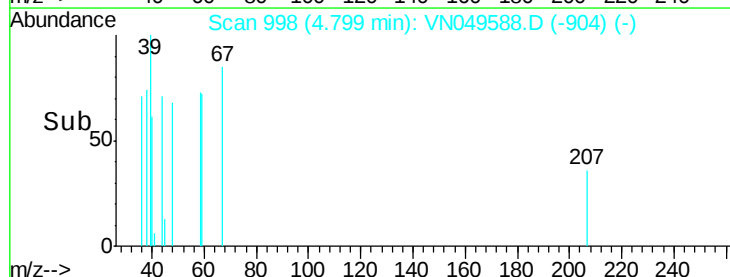
300

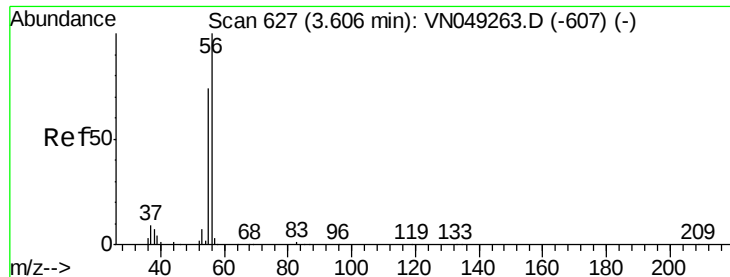
200

100

0

Time-->





#13

Acrolein

Concen: 1.64 ug/l

RT: 3.60 min Scan# 626

Delta R.T. -0.00 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

Instrument :

MSVOA_N

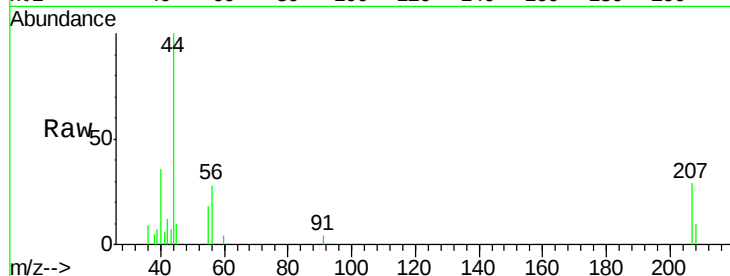
ClientSampled :

Tot Ion: 56 Resp: 1601

Ion Ratio Lower Upper

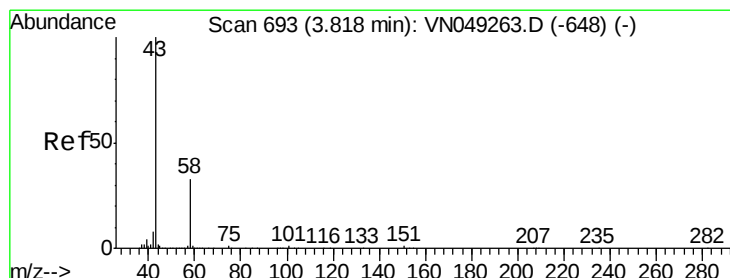
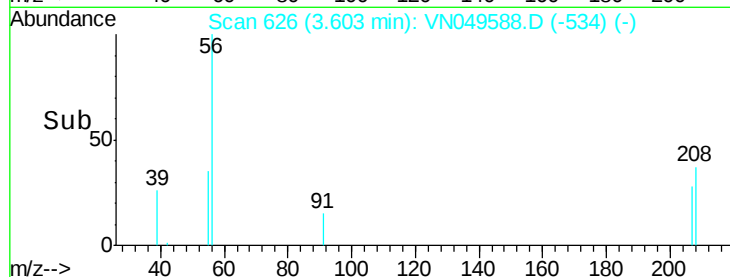
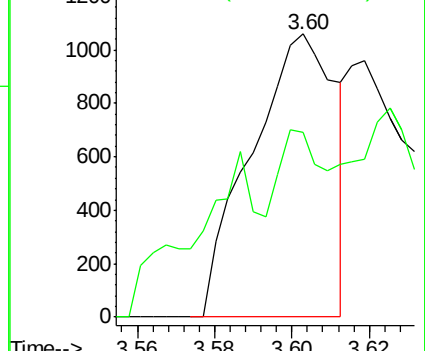
56 100

55 27.6 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 19.91 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049588.D

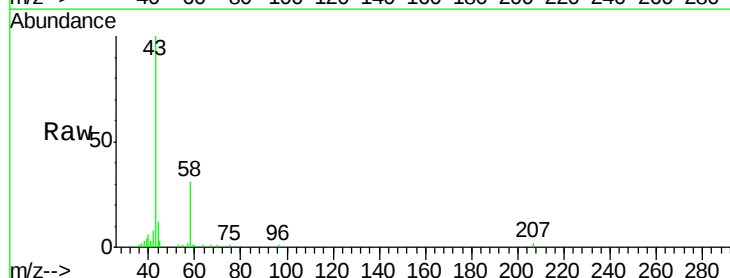
Acq: 28 Jun 2018 14:33

Tgt Ion: 43 Resp: 76728

Ion Ratio Lower Upper

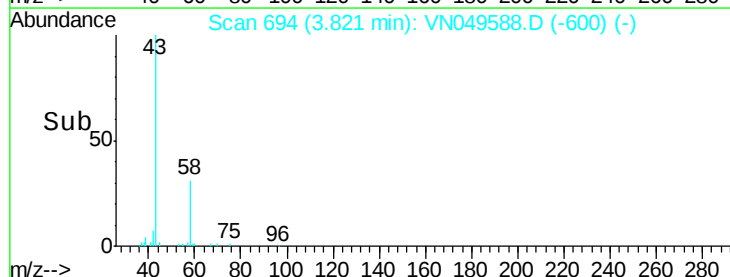
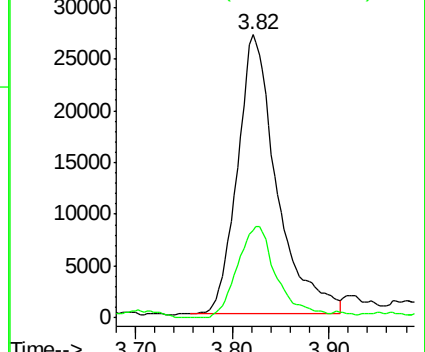
43 100

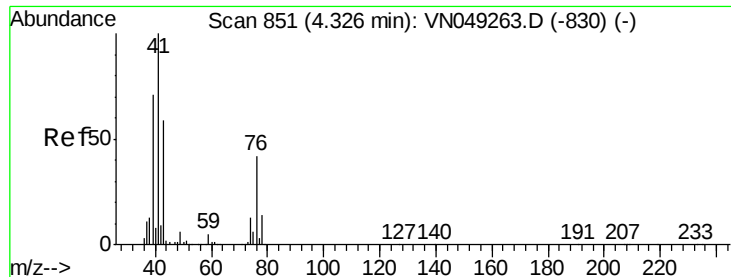
58 31.5 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

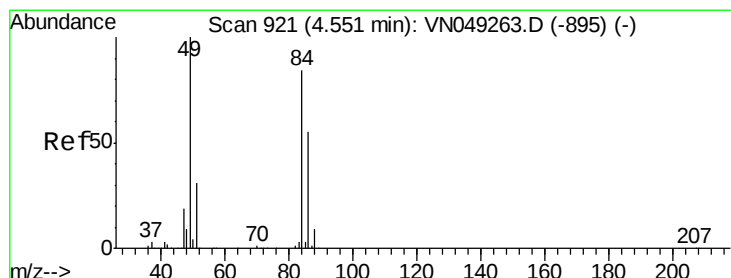
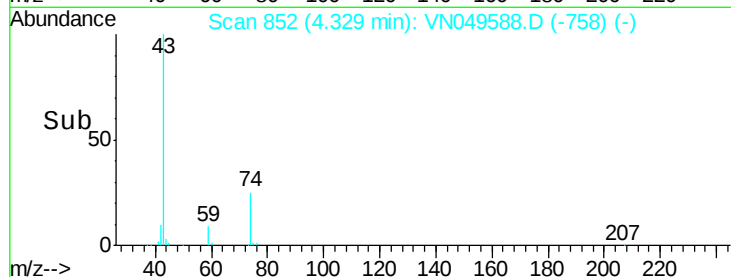
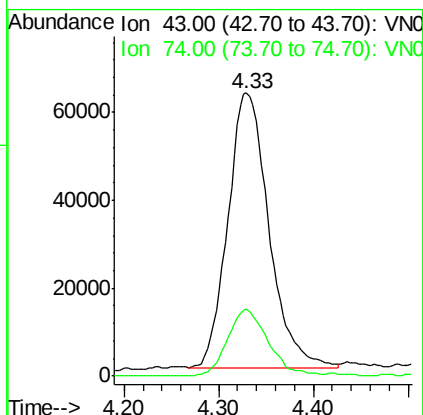
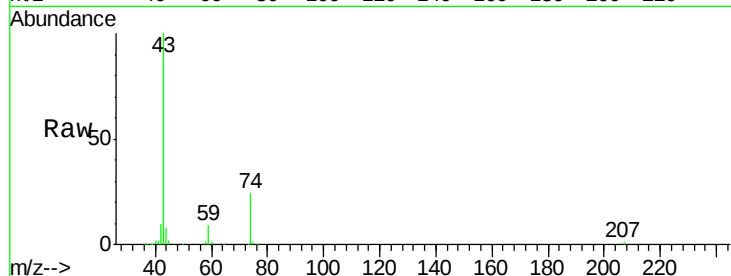




#18
Methvl Acetate
Concen: 16.03 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049588.D
Acq: 28 Jun 2018 14:33

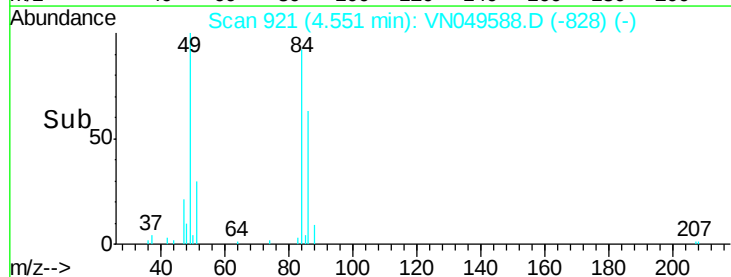
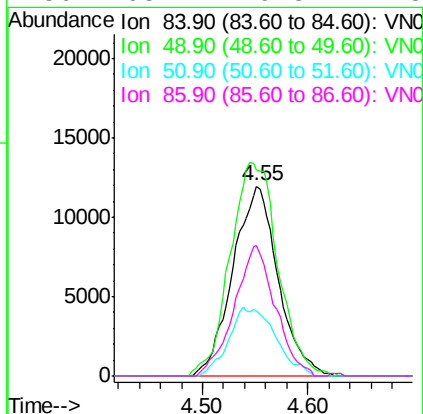
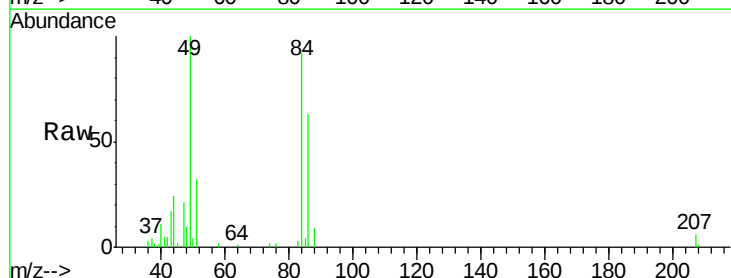
Instrument :
MSVOA_N
ClientSampled :

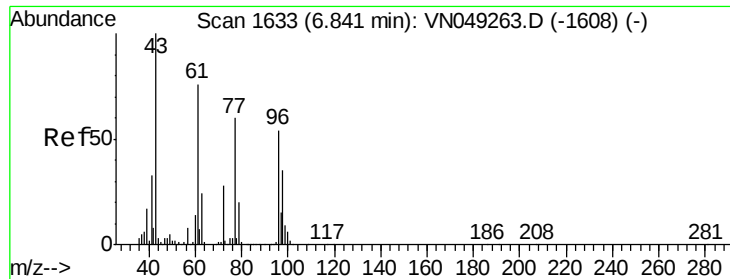
Tot Ion: 43 Resp: 188303
Ion Ratio Lower Upper
43 100
74 24.2 17.4 26.0



#20
Methylene Chloride
Concen: 2.22 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049588.D
Acq: 28 Jun 2018 14:33

Tgt Ion: 84 Resp: 35685
Ion Ratio Lower Upper
84 100
49 108.9 106.9 160.3
51 34.7 32.7 49.1
86 68.7 49.8 74.8

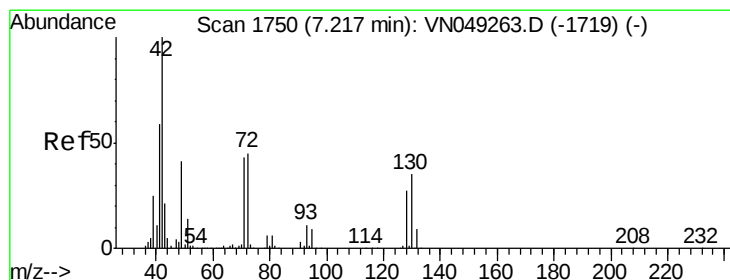
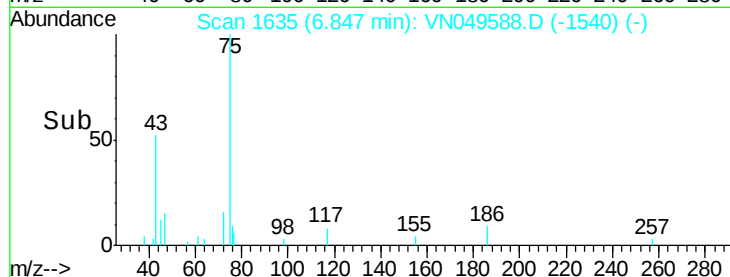
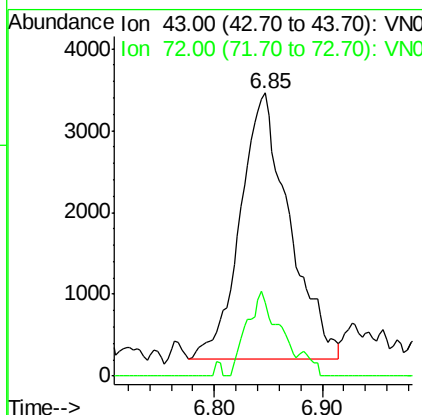
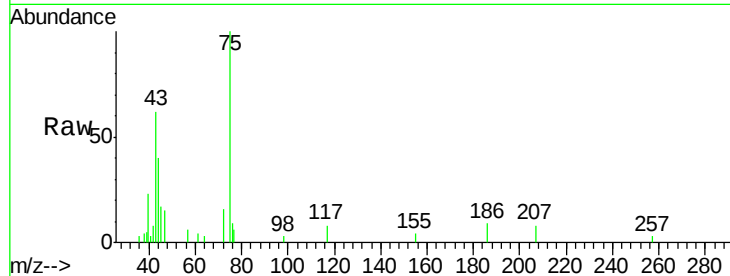




#25
2-Butanone
Concen: 1.98 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN049588.D
Acq: 28 Jun 2018 14:33

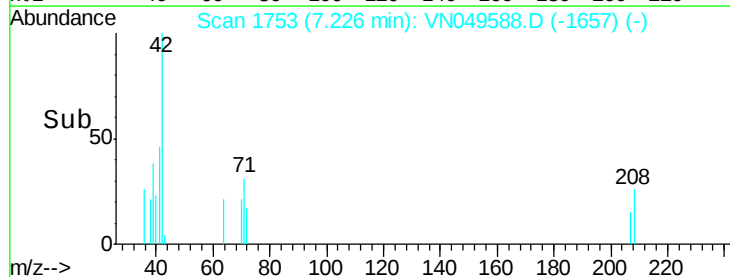
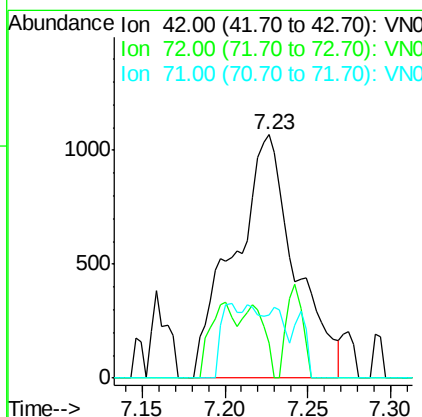
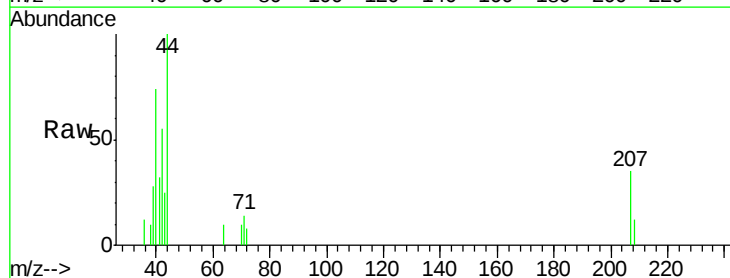
Instrument :
MSVOA_N
ClientSampleId :

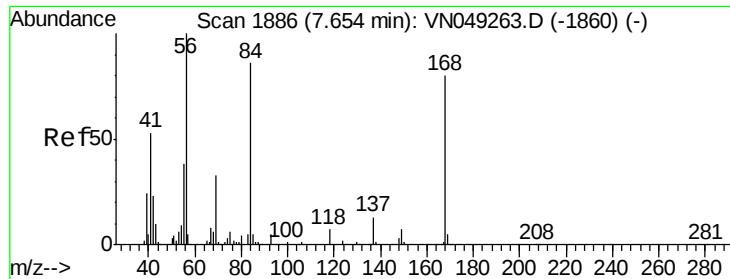
Tot Ion: 43 Resp: 10227
Ion Ratio Lower Upper
43 100
72 27.6 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.82 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN049588.D
Acq: 28 Jun 2018 14:33

Tgt Ion: 42 Resp: 2731
Ion Ratio Lower Upper
42 100
72 9.1 32.2 48.4#
71 0.0 30.5 45.7#

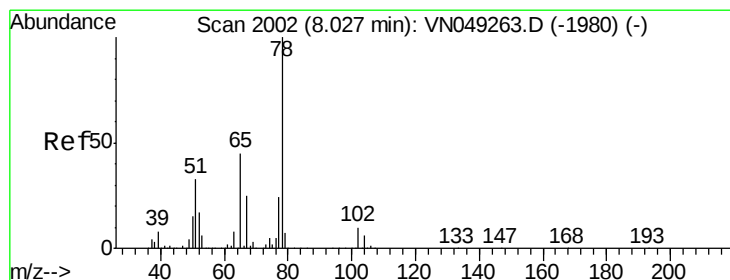
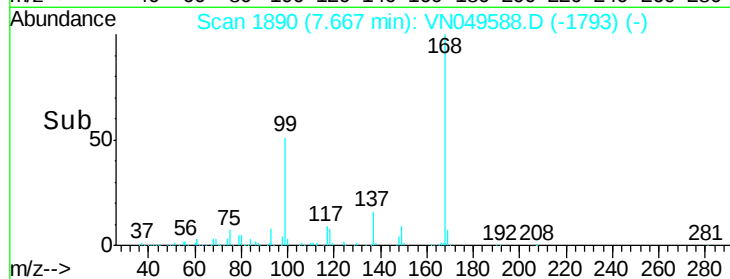
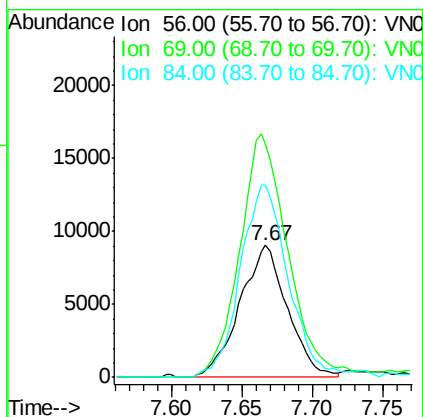
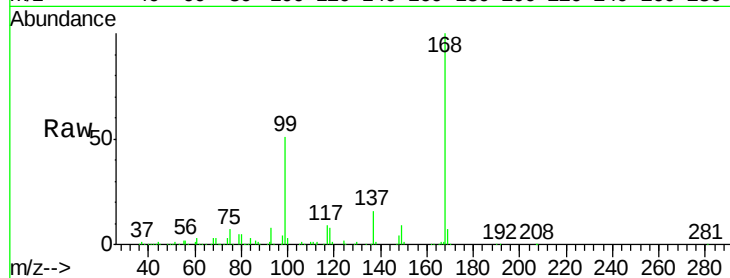




#31
Cyclohexane
Concen: 0.74 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049588.D
Acq: 28 Jun 2018 14:33

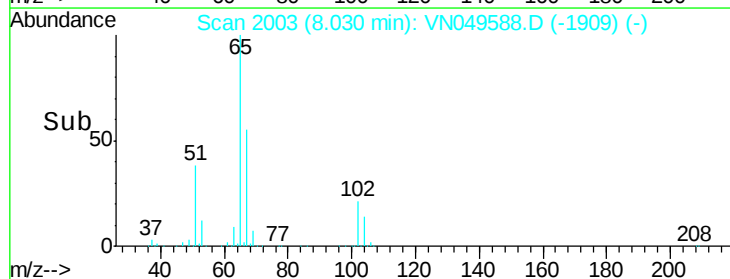
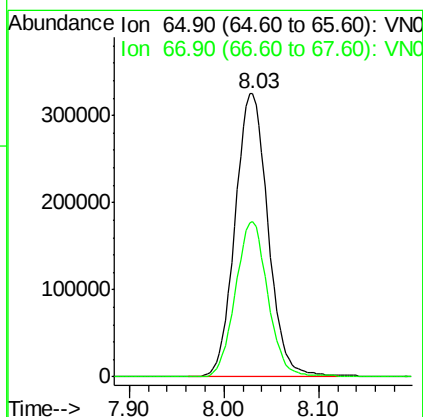
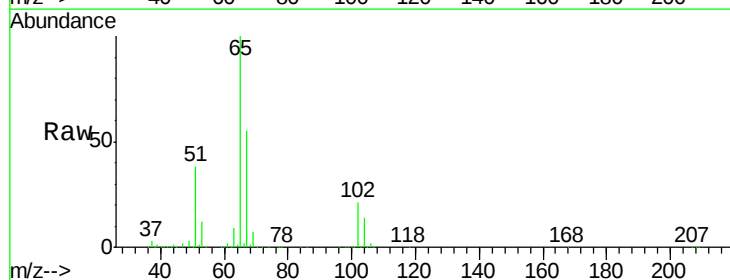
Instrument :
MSVOA_N
ClientSampled :

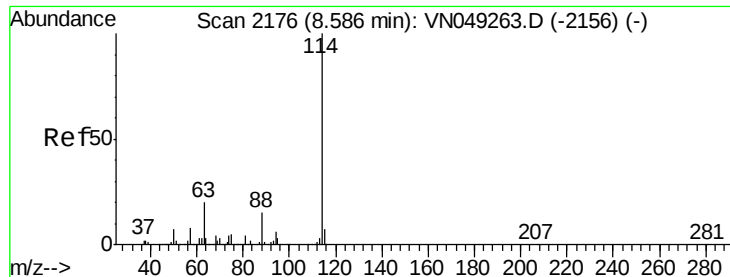
Tot Ion: 56 Resp: 21358
Ion Ratio Lower Upper
56 100
69 176.3 25.0 37.4#
84 145.9 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 49.64 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049588.D
Acq: 28 Jun 2018 14:33

Tgt Ion: 65 Resp: 787677
Ion Ratio Lower Upper
65 100
67 53.8 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: VN049588.D

Acq: 28 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampleId :

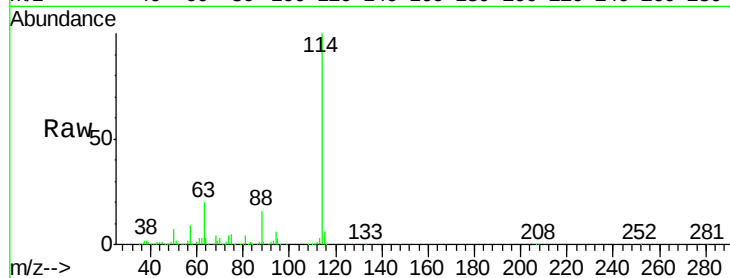
Tot Ion:114 Resp: 1924940

Ion Ratio Lower Upper

114 100

63 20.0 0.0 44.4

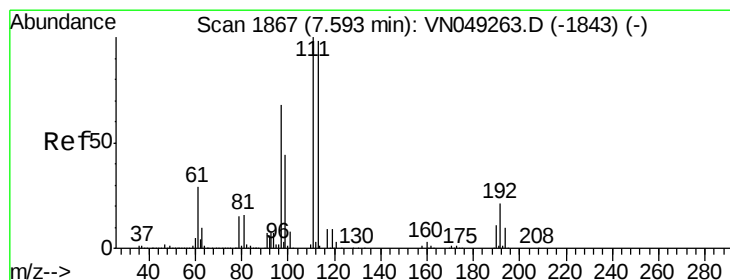
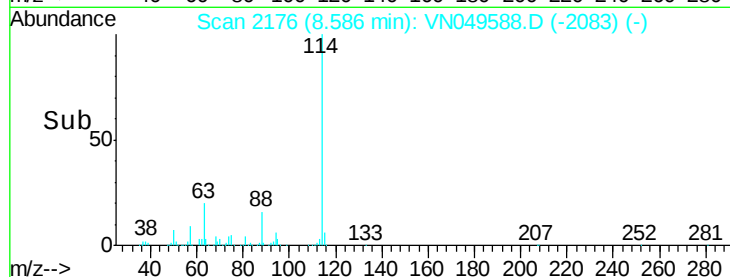
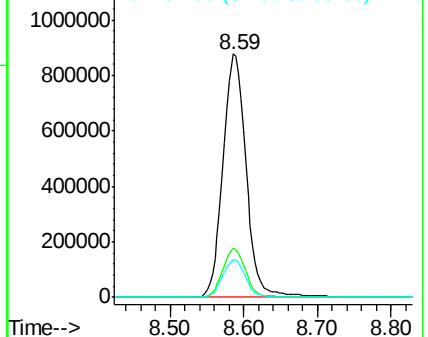
88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 42.21 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

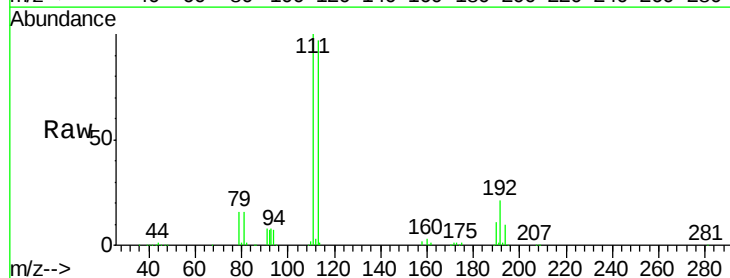
Tgt Ion:113 Resp: 657331

Ion Ratio Lower Upper

113 100

111 101.3 82.4 123.6

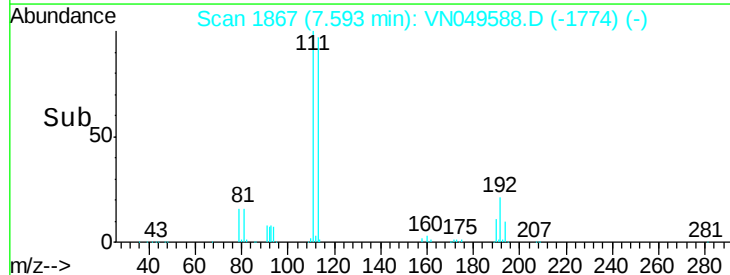
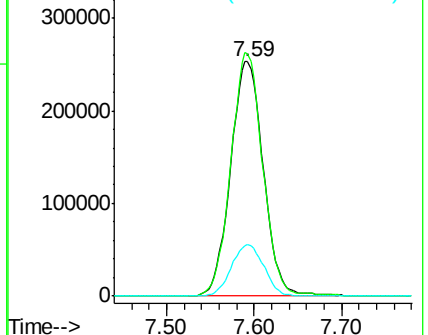
192 21.9 15.0 22.6

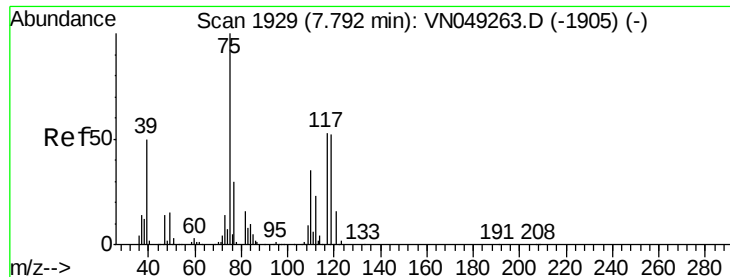


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.77 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampleId :

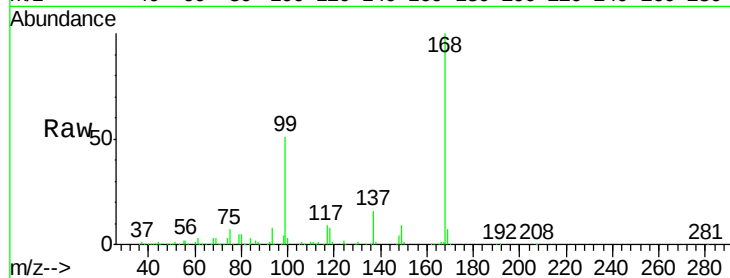
Tot Ion: 75 Resp: 83198

Ion Ratio Lower Upper

75 100

110 8.3 17.0 50.9#

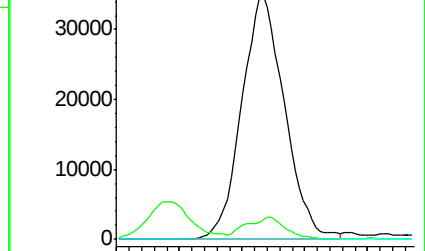
77 0.0 24.4 36.6#



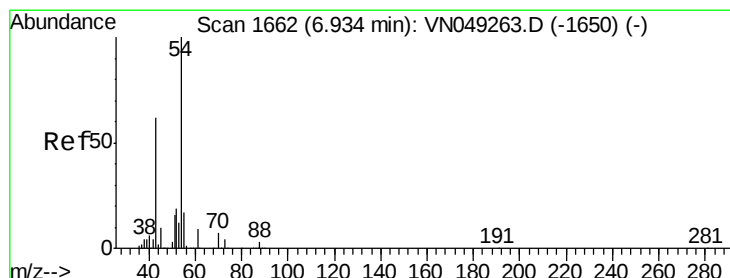
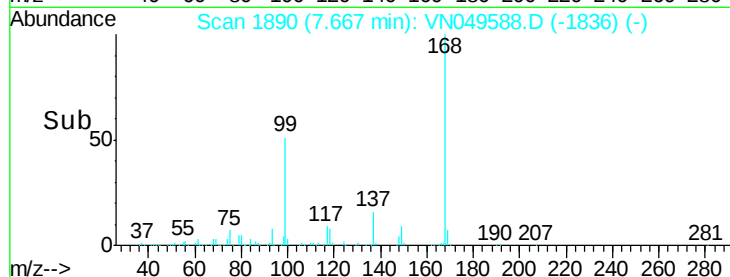
Abundance Ion 74.90 (74.60 to 75.60): VN049588.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049588.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049588.D (-1836) (-)



Time-->



#37

Ethyl Acetate

Concen: 0.85 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. -0.09 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

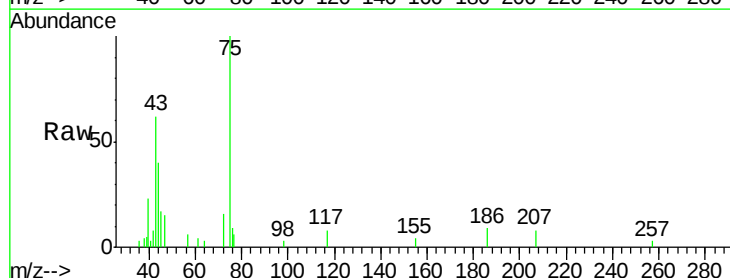
Tgt Ion: 43 Resp: 10227

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

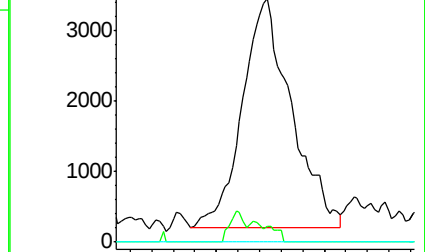
70 0.0 7.2 10.8#



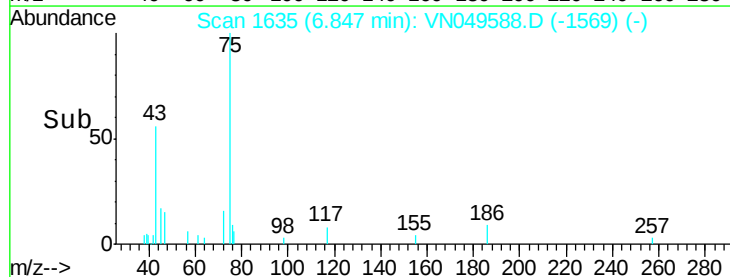
Abundance Ion 43.00 (42.70 to 43.70): VN049588.D (-1569) (-)

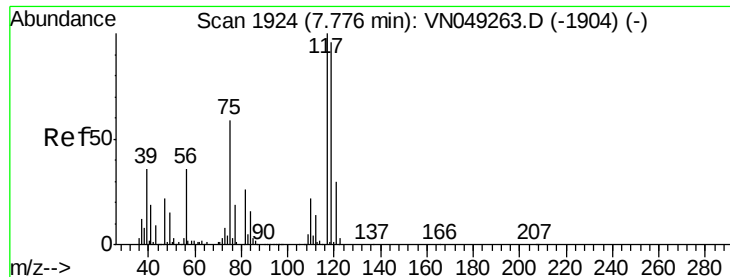
Ion 60.90 (60.60 to 61.60): VN049588.D (-1569) (-)

Ion 70.00 (69.70 to 70.70): VN049588.D (-1569) (-)



Time-->





#38

Carbon Tetrachloride

Concen: 4.62 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampleId :

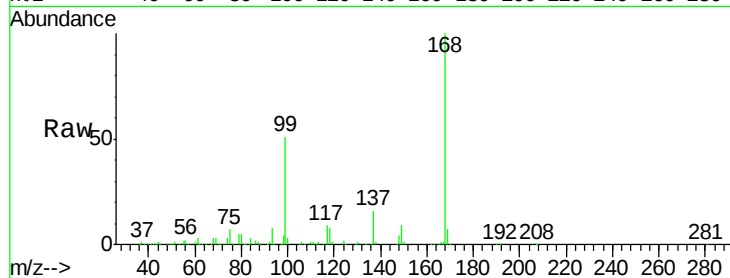
Tot Ion:117 Resp: 105590

Ion Ratio Lower Upper

117 100

119 6.0 75.6 113.4#

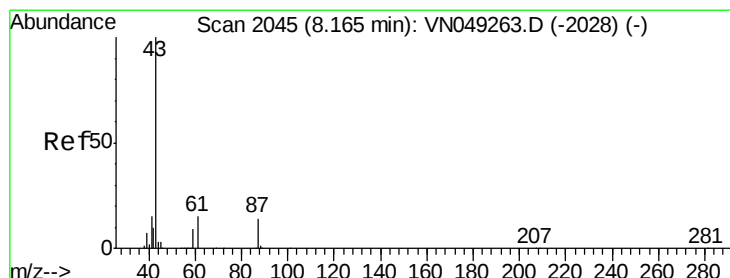
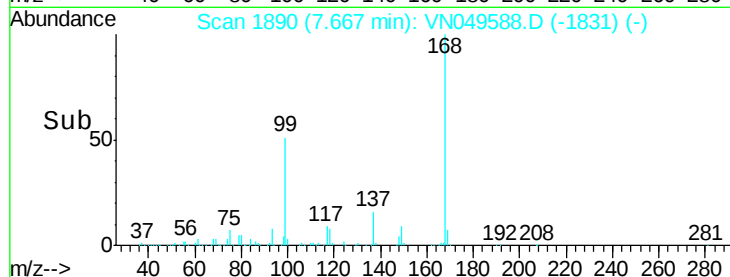
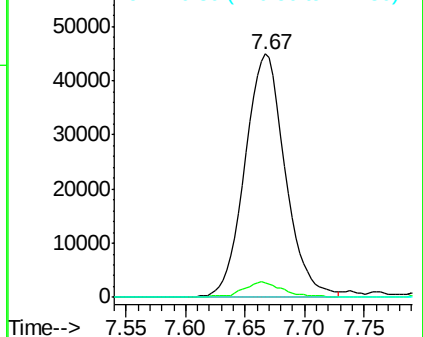
121 0.0 24.7 37.1#



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: 24.14 ug/l

RT: 8.31 min Scan# 2089

Delta R.T. 0.14 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

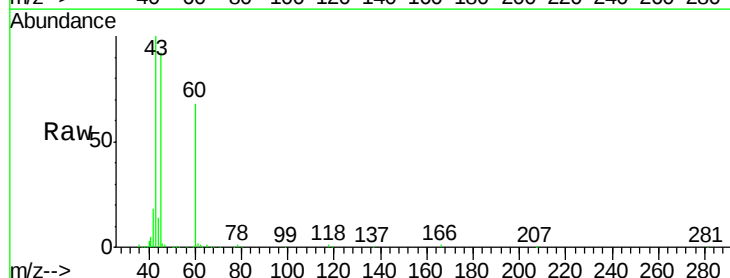
Tgt Ion: 43 Resp: 553222

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

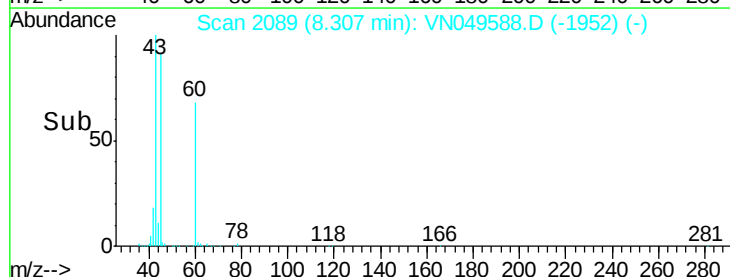
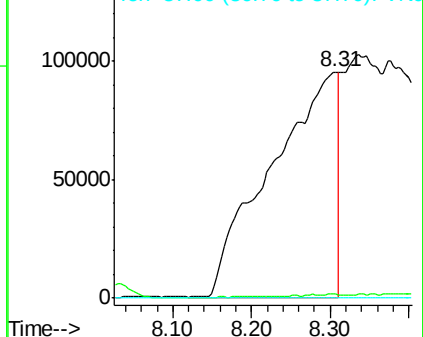
87 0.0 9.4 14.0#

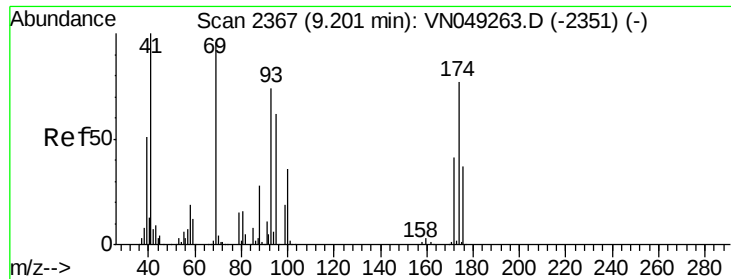


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

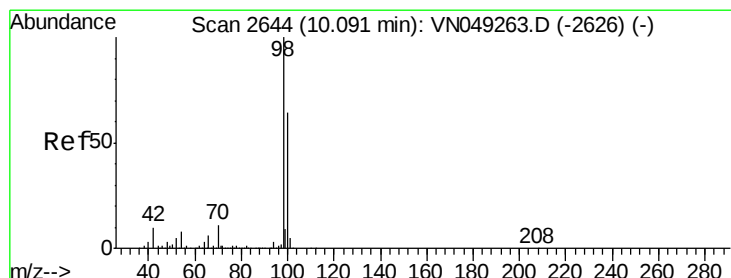
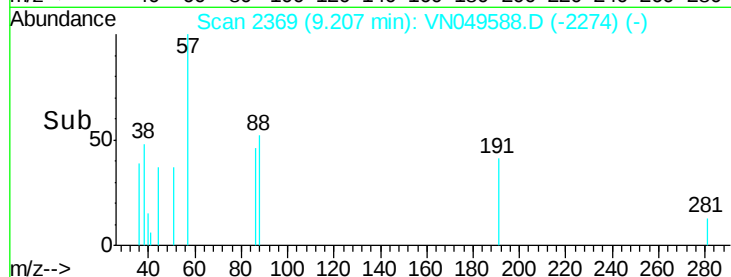
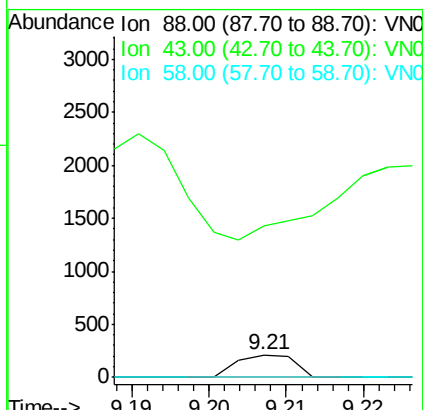
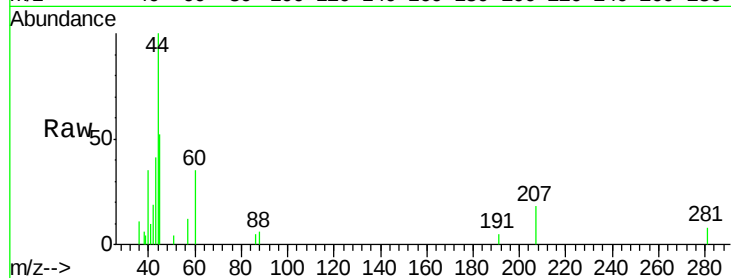




#49
 1,4-Dioxane
 Concen: 0.74 ug/l
 RT: 9.21 min Scan# 2367
 Delta R.T. 0.01 min
 Lab File: VN049588.D
 Acq: 28 Jun 2018 14:33

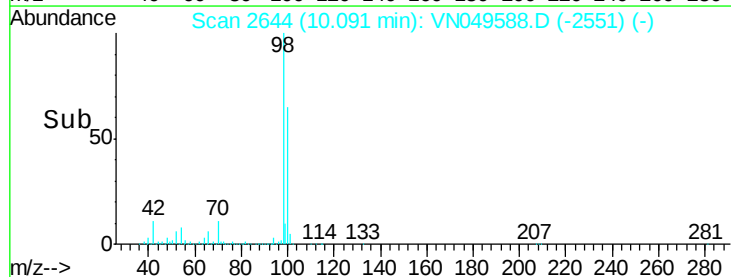
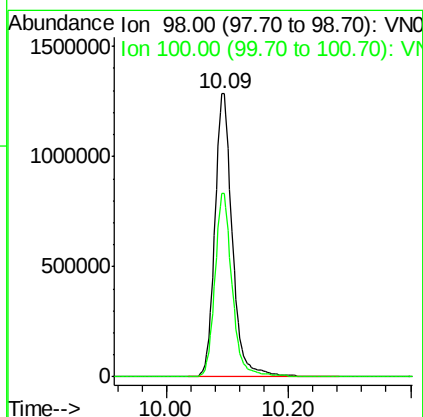
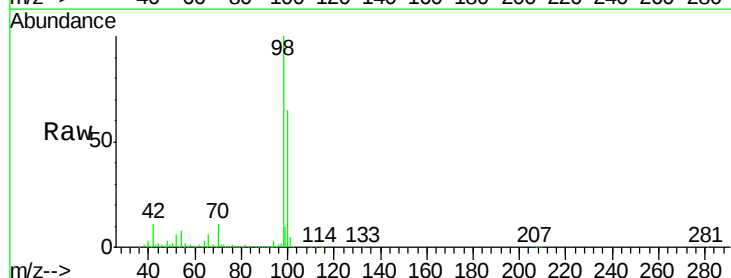
Instrument :
 MSVOA_N
 ClientSampleId :

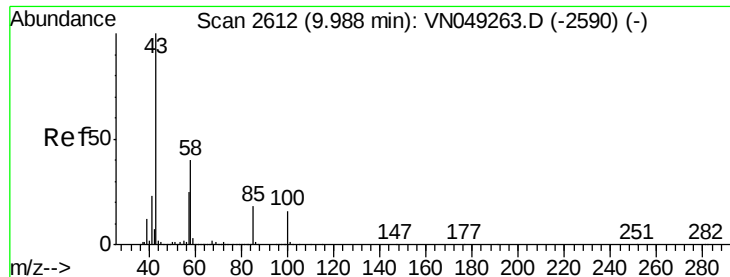
Tot Ion: 88 Resp: 110
 Ion Ratio Lower Upper
 88 100
 43 1018.2 30.9 46.3#
 58 0.0 58.9 88.3#



#50
 Toluene-d8
 Concen: 43.32 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. 0.00 min
 Lab File: VN049588.D
 Acq: 28 Jun 2018 14:33

Tgt Ion: 98 Resp: 2568618
 Ion Ratio Lower Upper
 98 100
 100 64.0 49.8 74.8

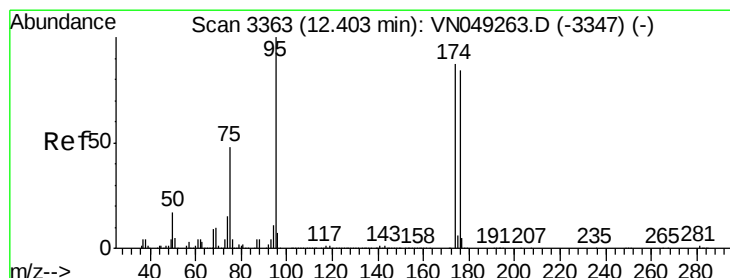
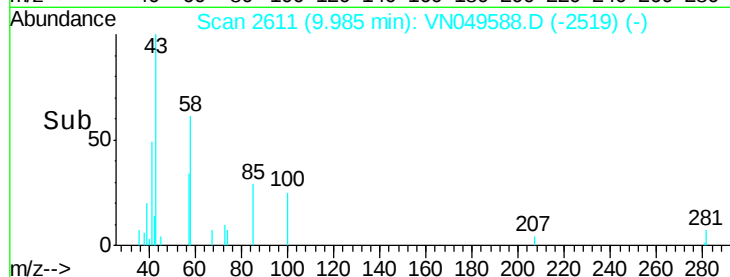
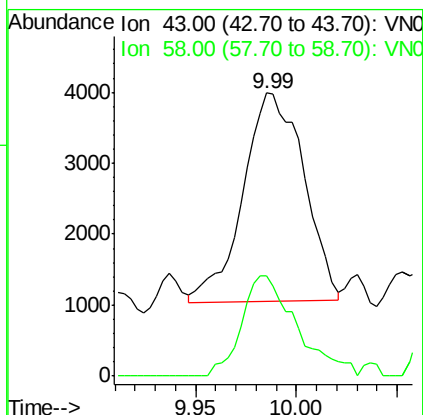
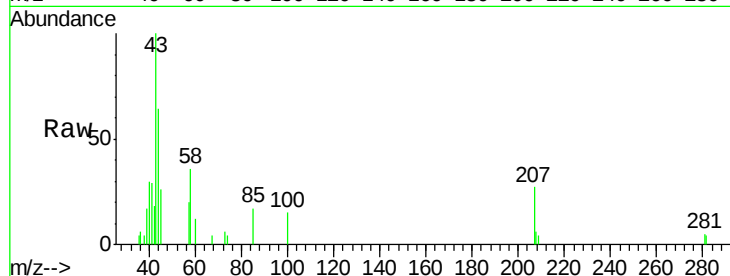




#51
4-Methyl-2-Pentanone
Concen: 0.51 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN049588.D
Acq: 28 Jun 2018 14:33

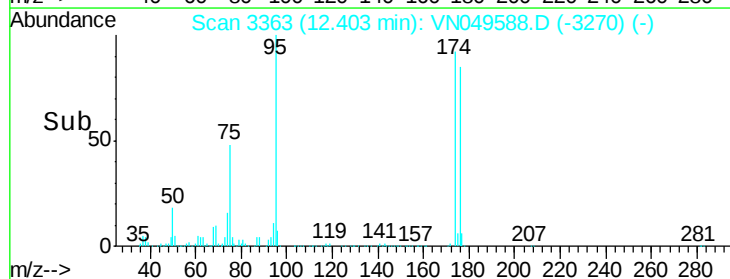
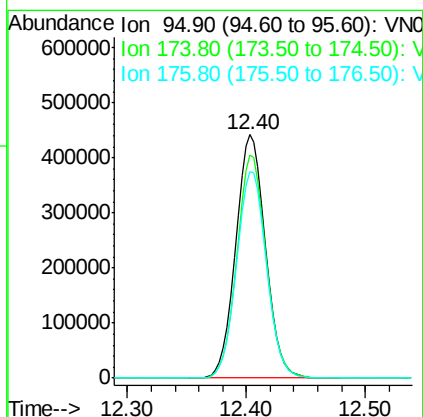
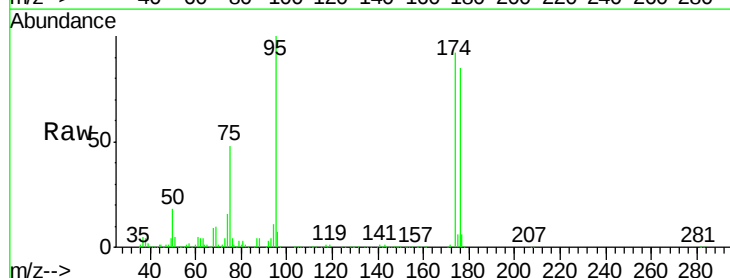
Instrument :
MSVOA_N
ClientSampled :

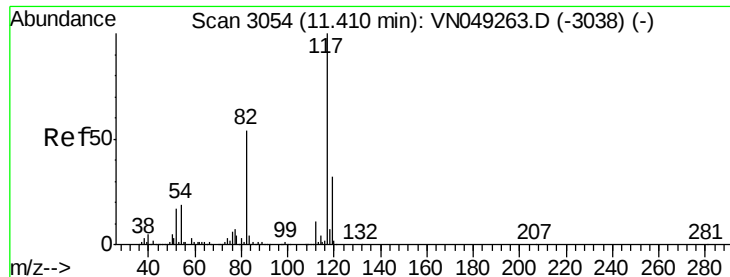
Tot Ion: 43 Resp: 6185
Ion Ratio Lower Upper
43 100
58 43.7 29.0 43.6#



#62
4-Bromofluorobenzene
Concen: 38.84 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049588.D
Acq: 28 Jun 2018 14:33

Tgt Ion: 95 Resp: 761563
Ion Ratio Lower Upper
95 100
174 90.7 0.0 165.6
176 85.7 0.0 157.4

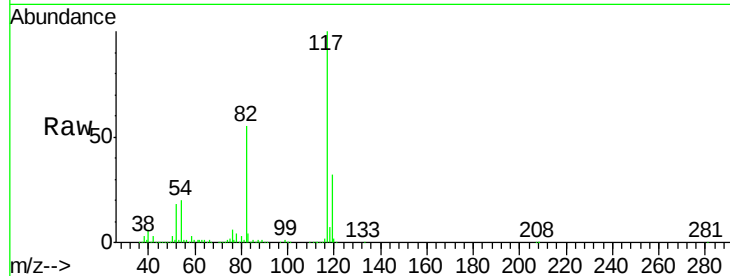




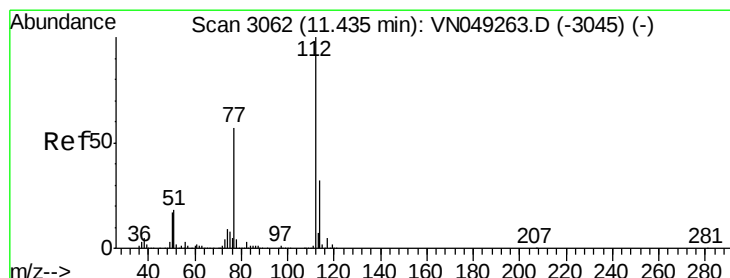
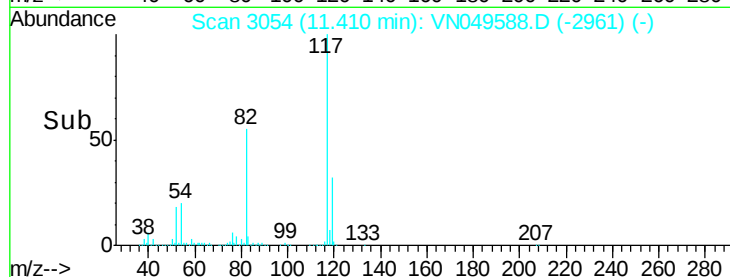
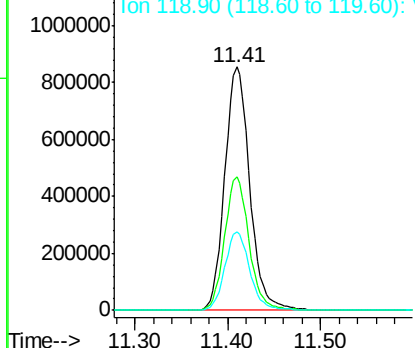
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049588.D
Acq: 28 Jun 2018 14:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 1597816
Ion Ratio Lower Upper
117 100
82 54.9 45.9 68.9
119 32.3 25.5 38.3

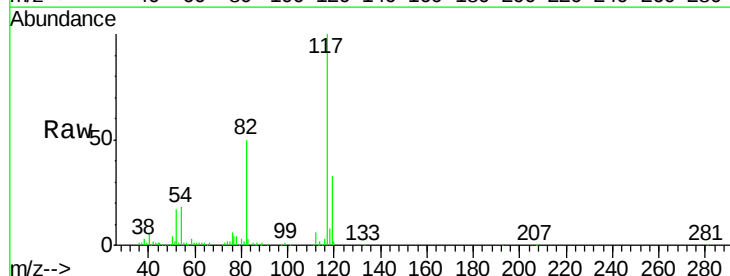


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

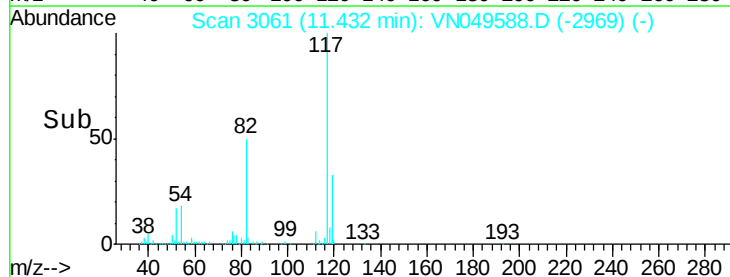
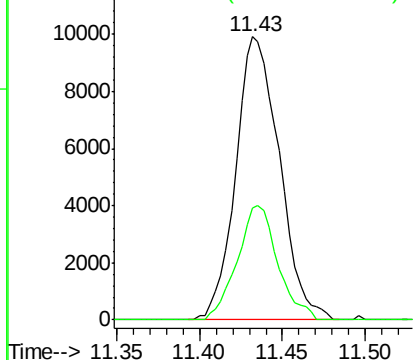


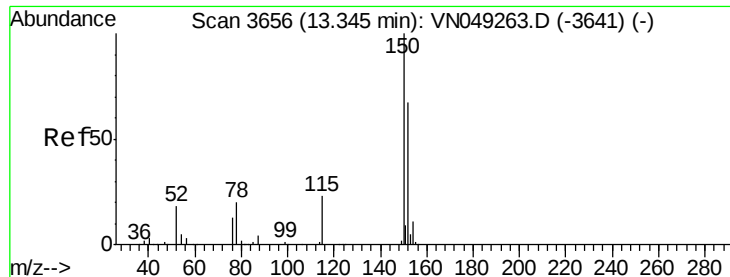
#65
Chlorobenzene
Concen: 0.44 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN049588.D
Acq: 28 Jun 2018 14:33

Tgt Ion:112 Resp: 18189
Ion Ratio Lower Upper
112 100
114 39.4 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): 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: VN049588.D

Acq: 28 Jun 2018 14:33

Instrument :

MSVOA_N

ClientSampleId :

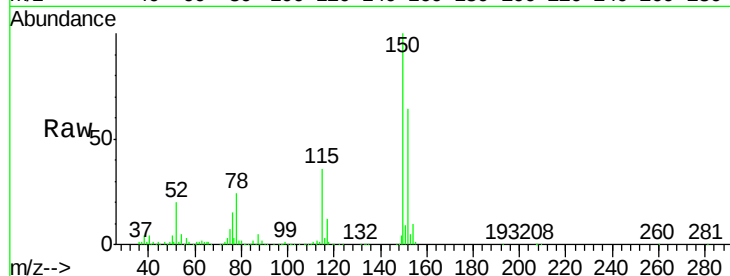
Tot Ion:152 Resp: 626605

Ion Ratio Lower Upper

152 100

115 55.8 28.7 86.1

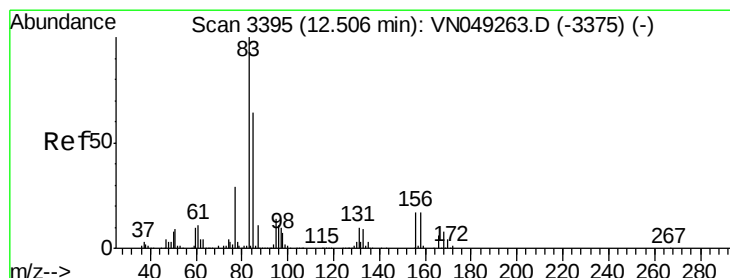
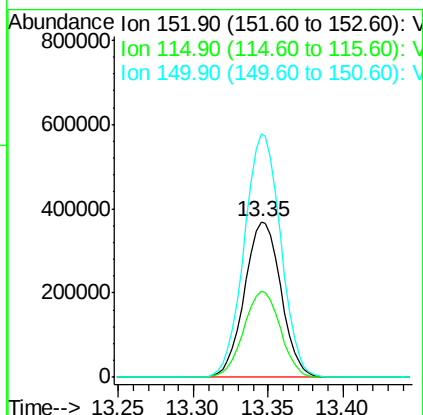
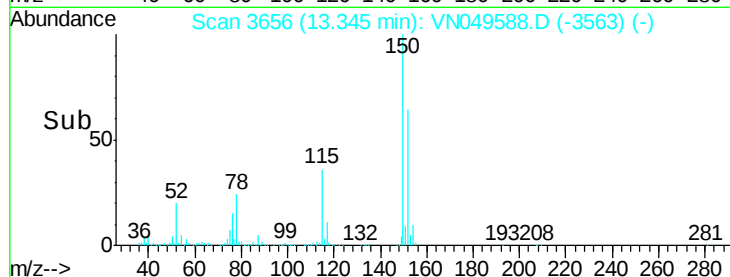
150 156.7 0.0 351.0



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: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

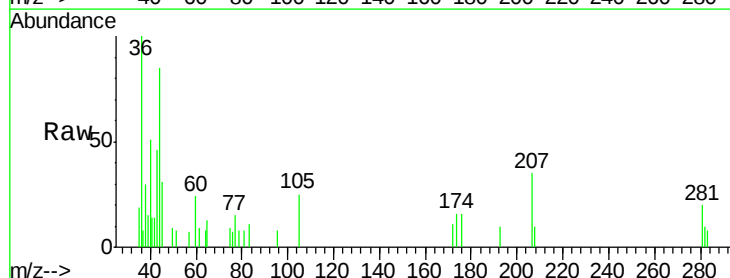
Tgt Ion: 83 Resp: 123

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

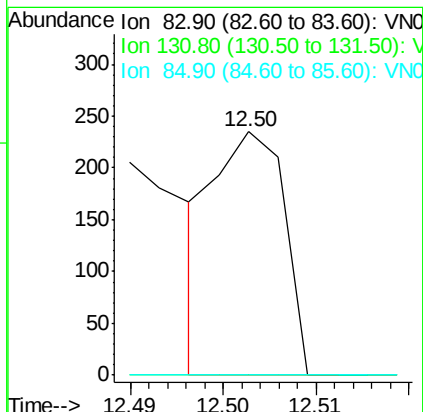
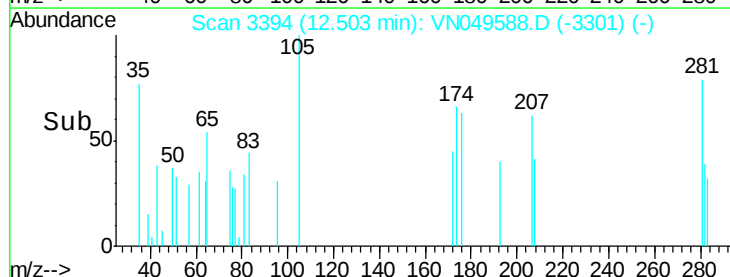
85 0.0 32.0 96.0#

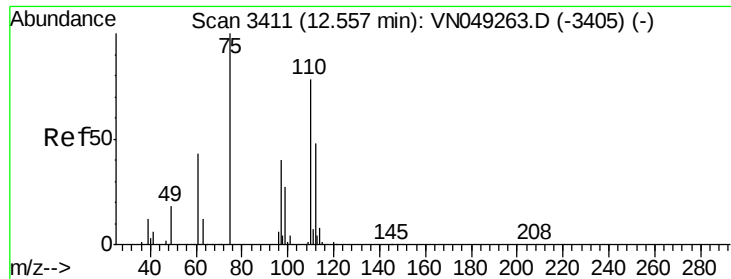


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 34.30 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

Instrument :

MSVOA_N

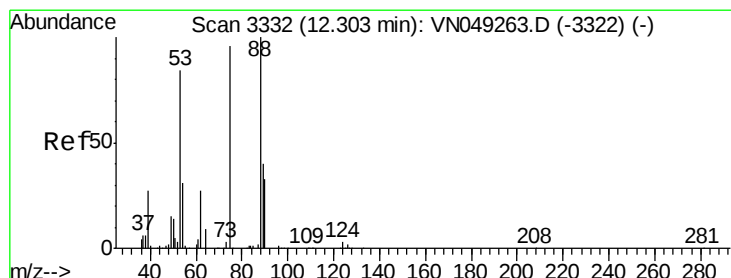
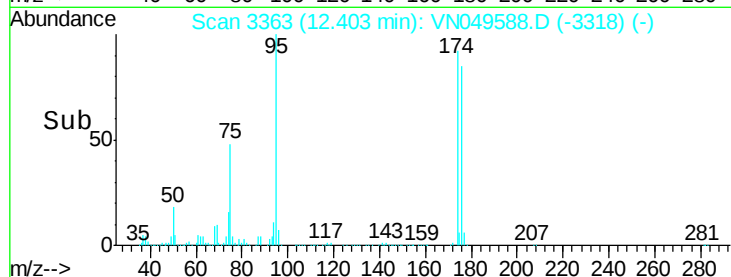
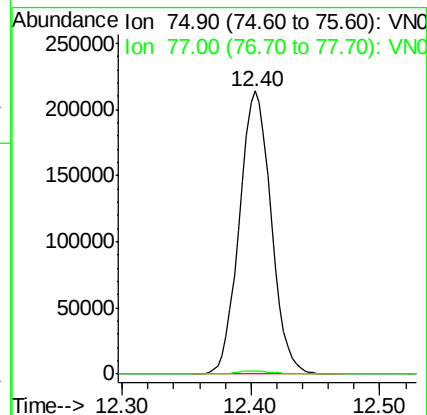
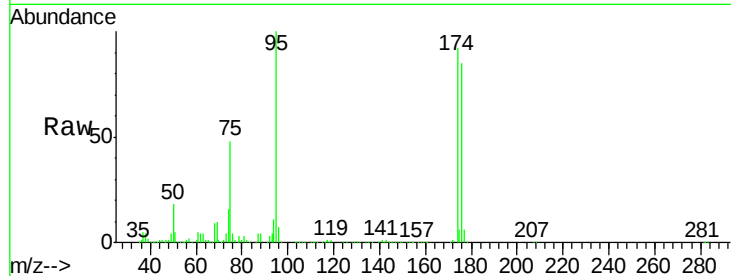
ClientSampled :

Tot Ion: 75 Resp: 366707

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 108.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

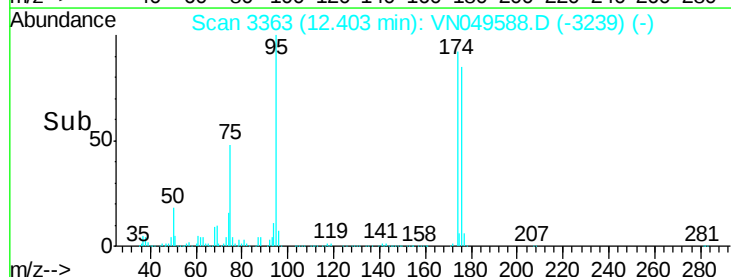
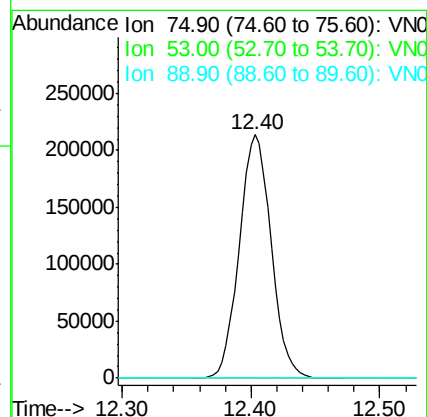
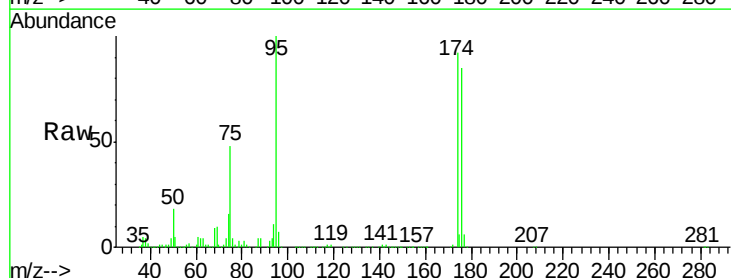
Tgt Ion: 75 Resp: 366707

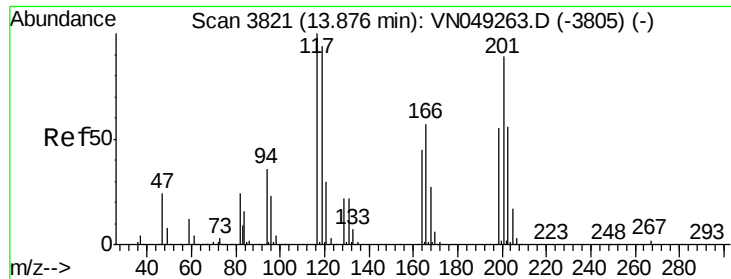
Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.83 min Scan# 3807

Delta R.T. -0.04 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

Instrument :

MSVOA_N

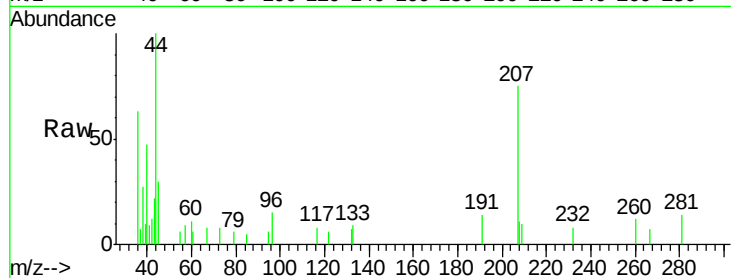
ClientSampled :

Tot Ion:117 Resp: 116

Ion Ratio Lower Upper

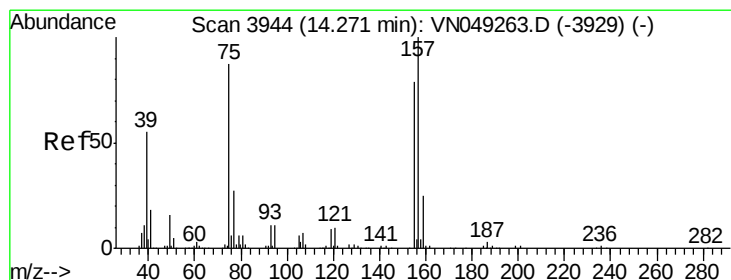
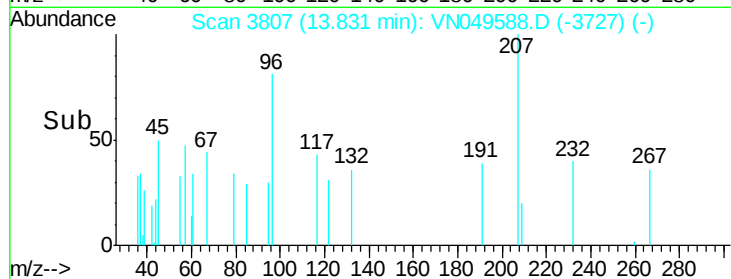
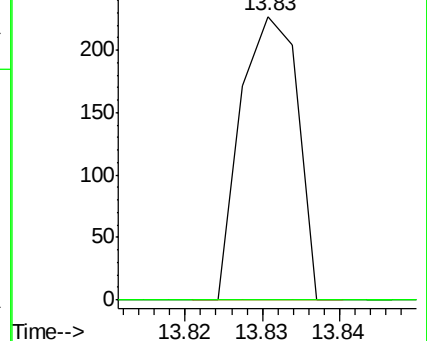
117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.28 ug/l

RT: 14.27 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VN049588.D

Acq: 28 Jun 2018 14:33

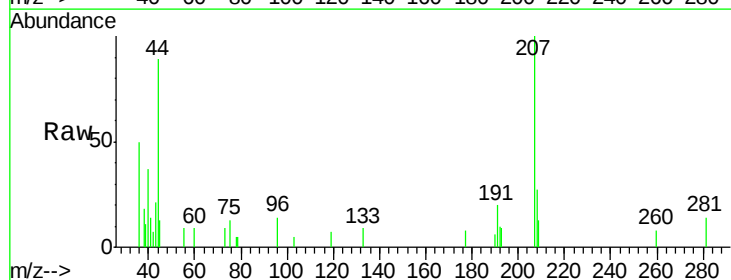
Tgt Ion: 75 Resp: 542

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

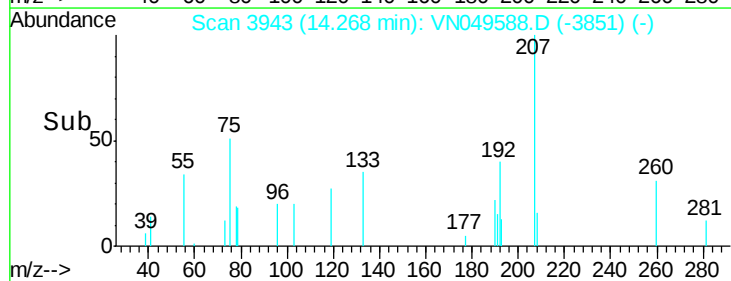
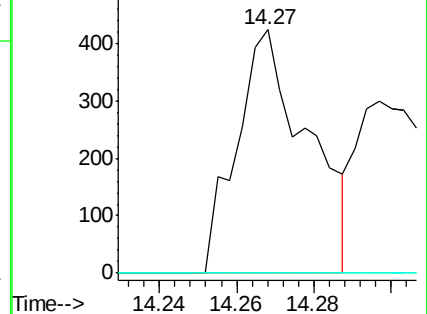
157 0.0 51.0 153.1#

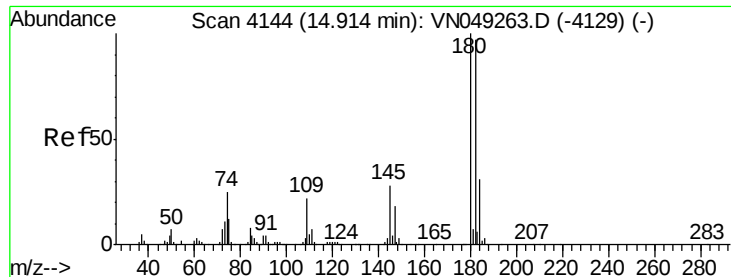


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

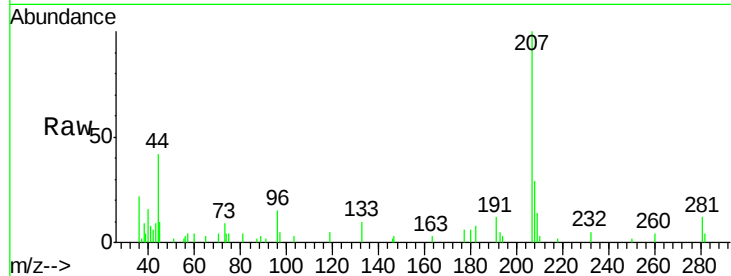




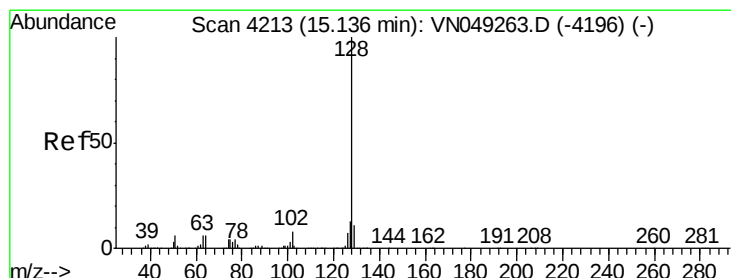
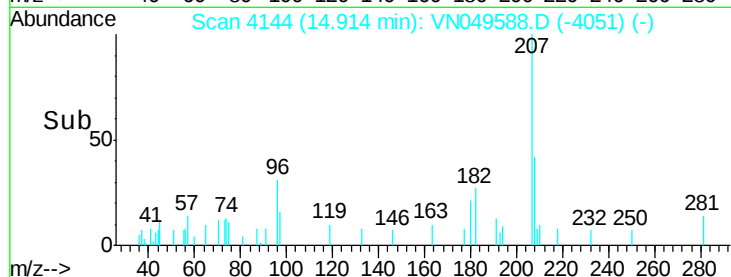
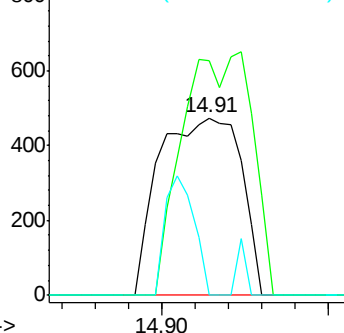
#93
 1,2,4-Trichlorobenzene
 Concen: 4.81 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049588.D
 Acq: 28 Jun 2018 14:33

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 815
 Ion Ratio Lower Upper
 180 100
 182 69.0 46.9 140.8
 145 23.8 14.7 44.1

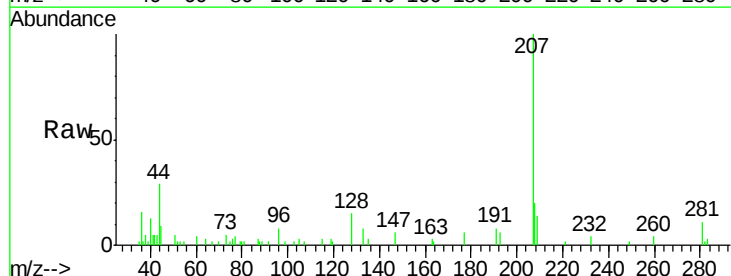


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

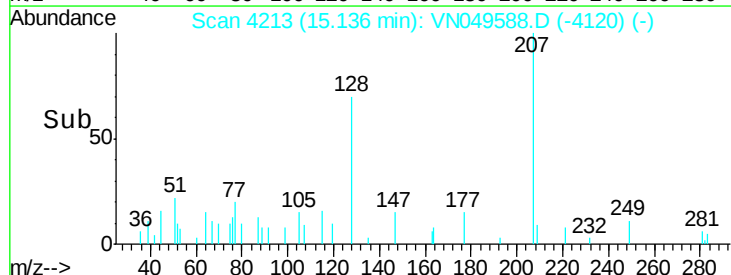
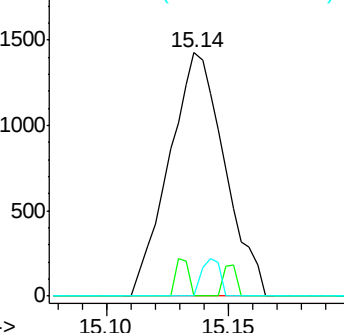


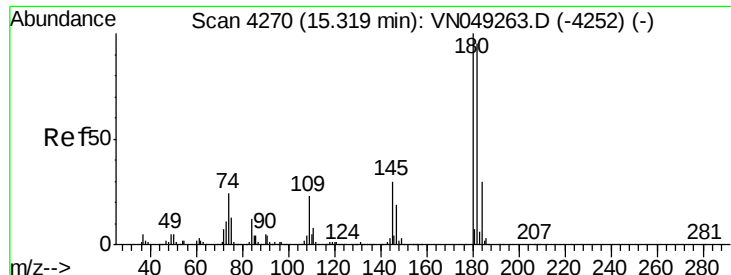
#95
 Naphthalene
 Concen: 2.21 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN049588.D
 Acq: 28 Jun 2018 14:33

Tgt Ion:128 Resp: 2253
 Ion Ratio Lower Upper
 128 100
 127 3.7 10.6 16.0#
 129 5.0 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

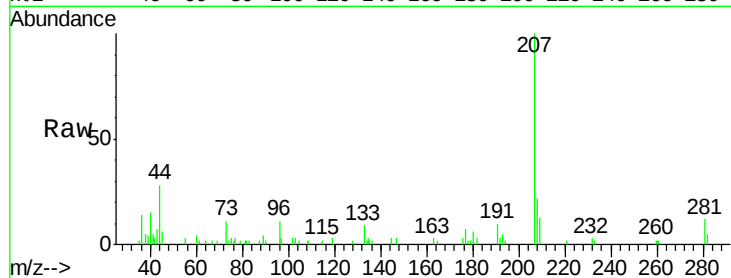




#96
 1,2,3-Trichlorobenzene
 Concen: 3.51 ug/l
 RT: 15.31 min Scan# 4267
 Delta R.T. -0.01 min
 Lab File: VN049588.D
 Acq: 28 Jun 2018 14:33

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.1	47.3	141.8
145	89.1	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

