

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061818\
 Data File : VN049349.D
 Acq On : 18 Jun 2018 17:47
 Operator : MD\SY
 Sample : PB110313ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 19 01:33:50 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	1281638	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2036904	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1644812	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	505136	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	860606	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	
35) Dibromofluoromethane	7.59	113	754286	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	
50) Toluene-d8	10.09	98	2747088	43.78	ug/l	0.00
Spiked Amount			Recovery	=	87.56%	
62) 4-Bromofluorobenzene	12.41	95	722205	34.81	ug/l	0.00
Spiked Amount			Recovery	=	69.62%	

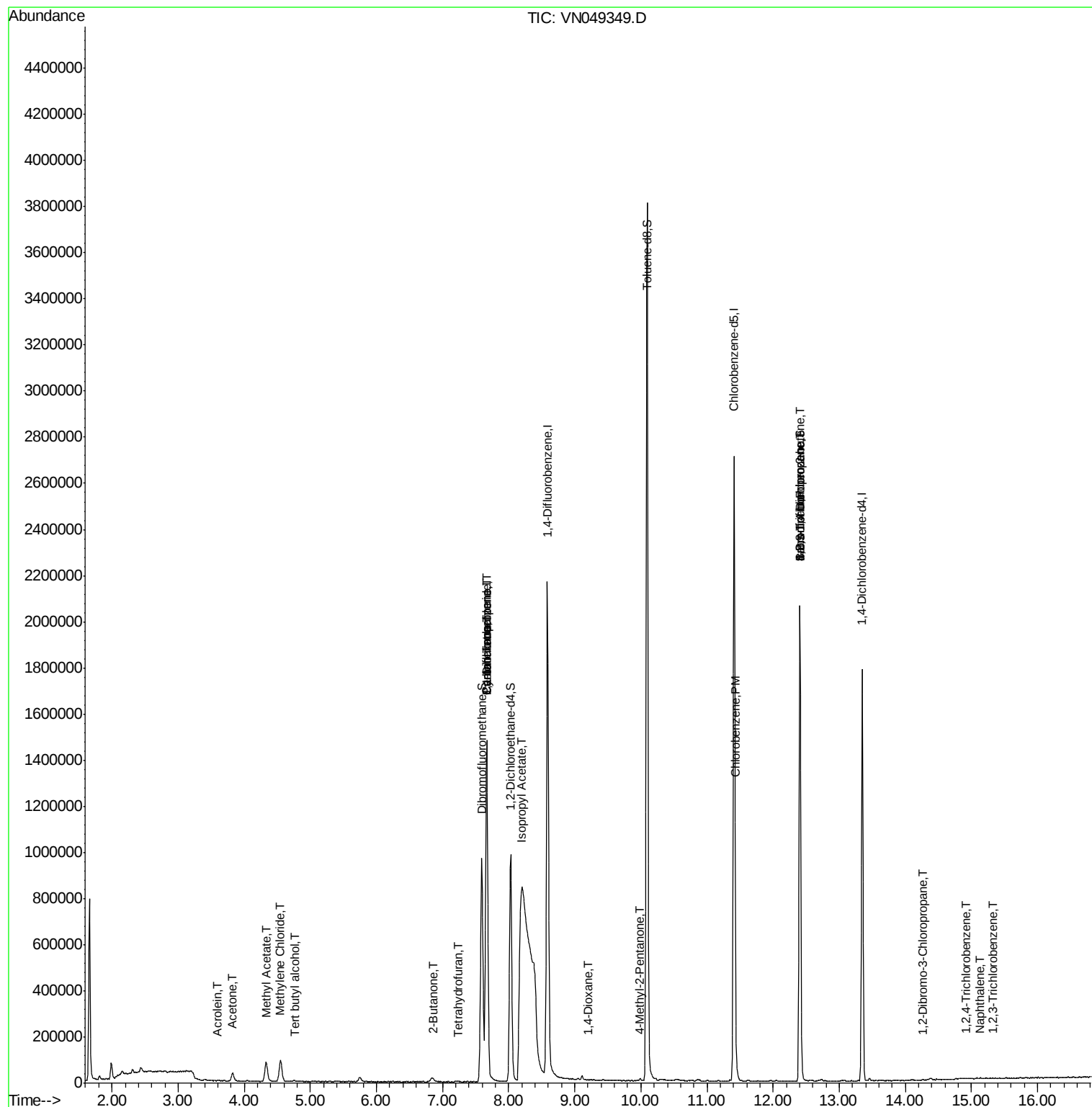
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	271	0.27	ug/l	# 1
13) Acrolein	3.60	56	298	0.28	ug/l	89
16) Acetone	3.82	43	58287	14.12	ug/l	94
18) Methyl Acetate	4.33	43	166326	13.22	ug/l	98
20) Methylene Chloride	4.55	84	67818	3.93	ug/l	90
25) 2-Butanone	6.86	43	8950	1.61	ug/l	99
29) Tetrahydrofuran	7.23	42	1202	0.34	ug/l	# 57
31) Cyclohexane	7.66	56	22844	0.74	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	88509	3.79	ug/l	# 51
38) Carbon Tetrachloride	7.66	117	114332	4.73	ug/l	# 18
43) Isopropyl Acetate	8.21	43	2089777	86.18	ug/l	# 65
49) 1,4-Dioxane	9.20	88	154	0.98	ug/l	# 37
51) 4-Methyl-2-Pentanone	9.99	43	6963	0.55	ug/l	93
65) Chlorobenzene	11.44	112	24391	0.58	ug/l	88
71) Bromoform	12.40	173	4075	0.39	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.51	83	74	Below	Cal	# 72
76) 1,2,3-Trichloropropane	12.41	75	346373	40.19	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.41	75	346373	127.01	ug/l	# 9
90) Hexachloroethane	14.07	117	29	Below	Cal	# 9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	467	0.30	ug/l	# 4
93) 1,2,4-Trichlorobenzene	14.91	180	348	4.78	ug/l	# 61
95) Naphthalene	15.14	128	2344	2.25	ug/l	97
96) 1,2,3-Trichlorobenzene	15.32	180	442	3.51	ug/l	# 25

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

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Quant Time: Jun 19 01:33:50 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration

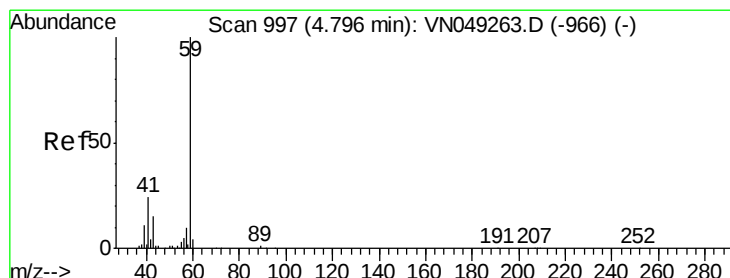
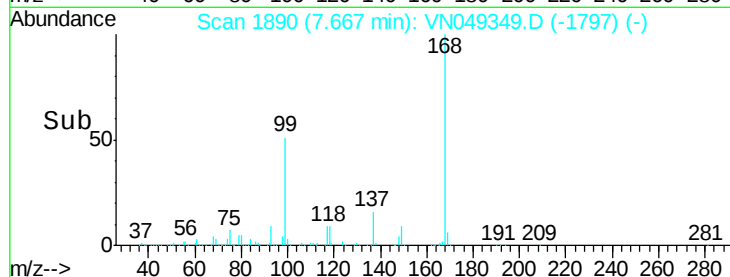
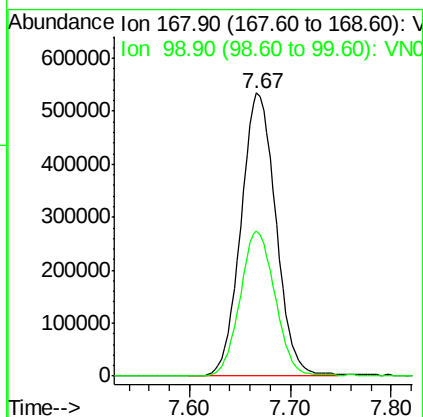
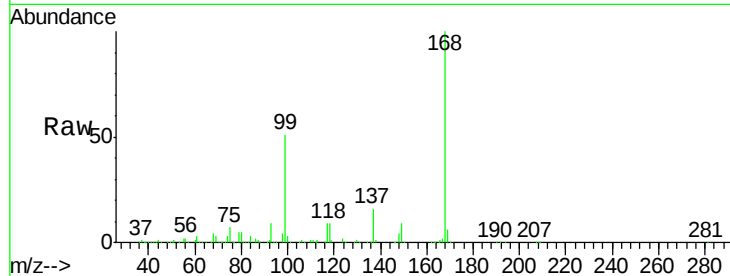




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.00 min
Lab File: VN049349.D
Acq: 18 Jun 2018 17:47

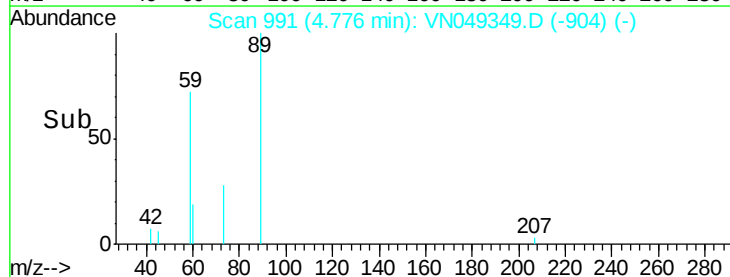
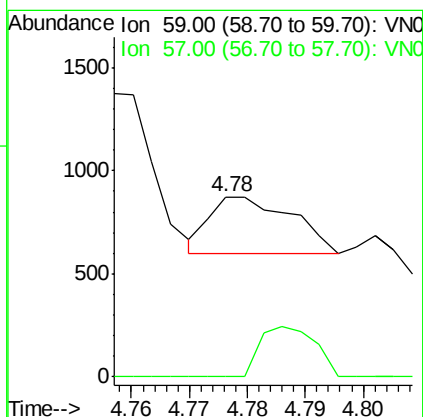
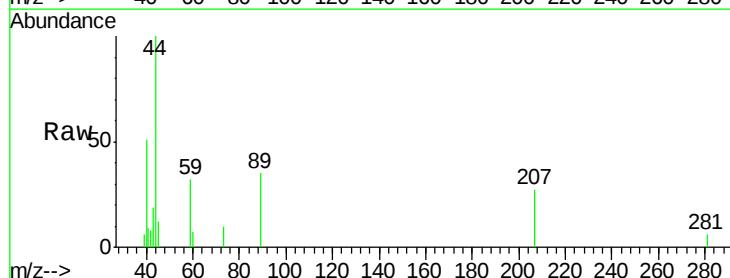
Instrument :
MSVOA_N
ClientSampled :

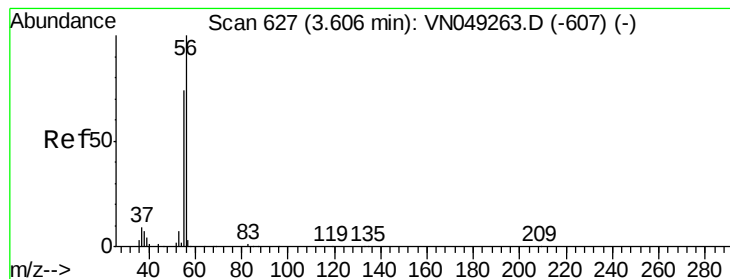
Tot Ion:168 Resp: 1281638
Ion Ratio Lower Upper
168 100
99 51.2 45.8 68.6



#11
Tert butyl alcohol
Concen: 0.27 ug/l
RT: 4.78 min Scan# 991
Delta R.T. -0.02 min
Lab File: VN049349.D
Acq: 18 Jun 2018 17:47

Tgt Ion: 59 Resp: 271
Ion Ratio Lower Upper
59 100
57 59.4 9.0 13.6#





#13

Acrolein

Concen: 0.28 ug/l

RT: 3.60 min Scan# 625

Delta R.T. -0.01 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

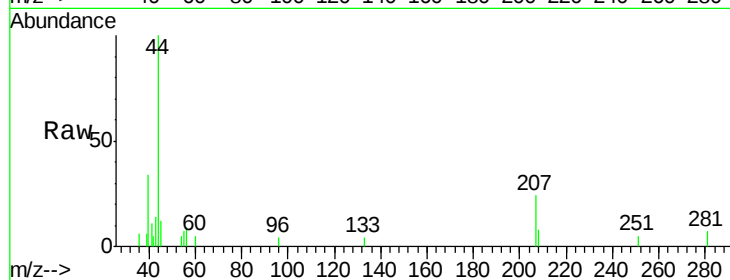
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 298

Ion Ratio Lower Upper

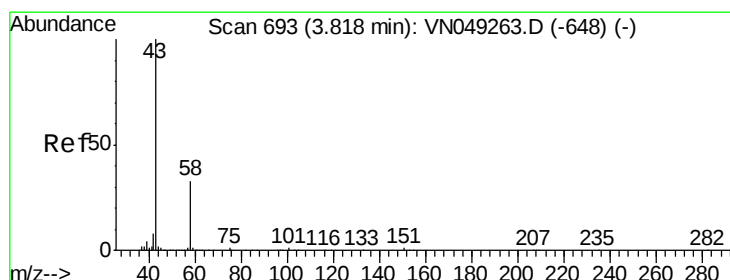
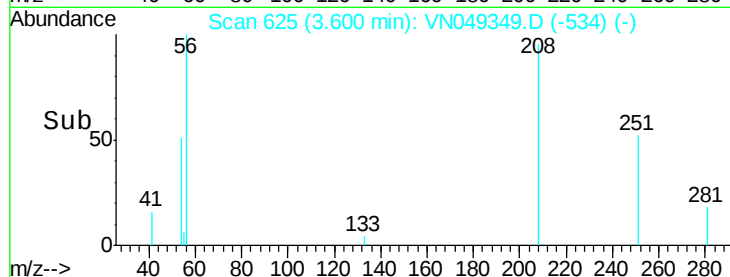
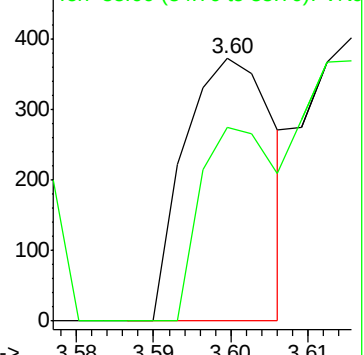
56 100

55 62.4 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: 14.12 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049349.D

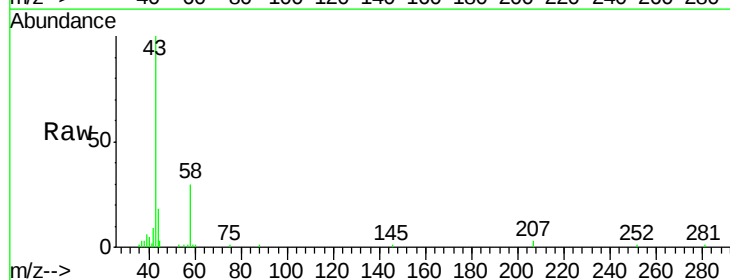
Acq: 18 Jun 2018 17:47

Tgt Ion: 43 Resp: 58287

Ion Ratio Lower Upper

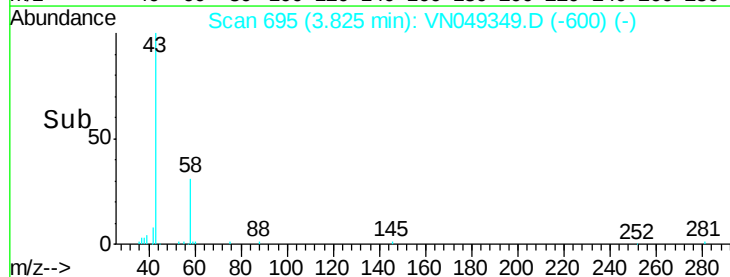
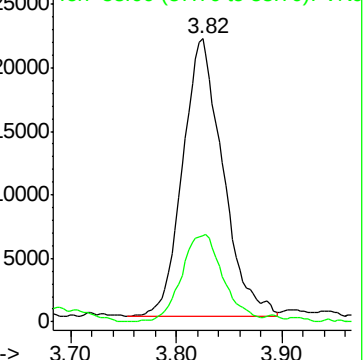
43 100

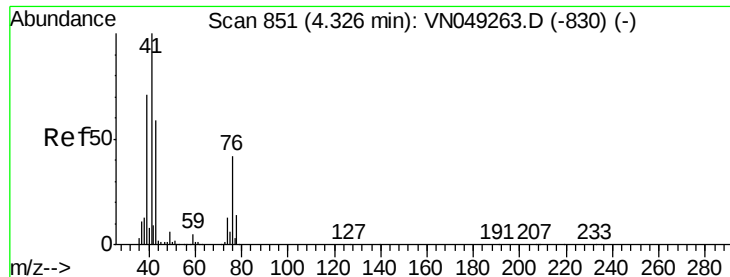
58 31.0 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

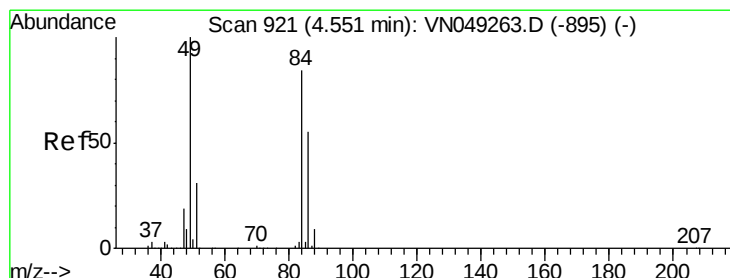
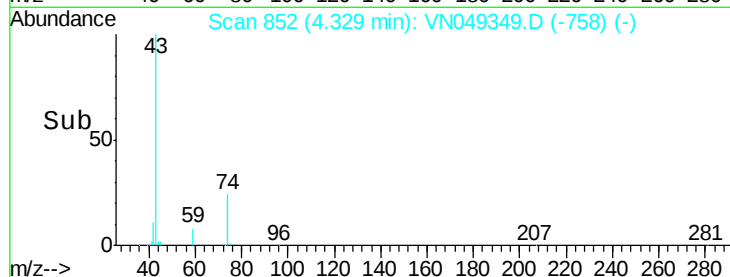
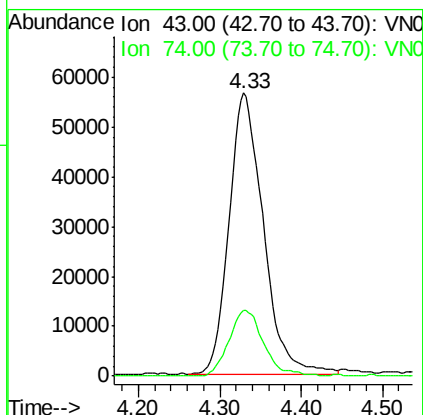
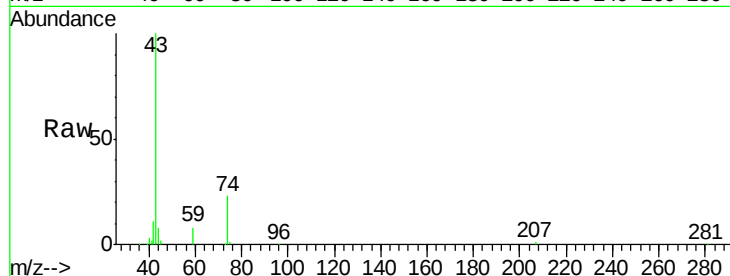




#18
Methvl Acetate
Concen: 13.22 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049349.D
Acq: 18 Jun 2018 17:47

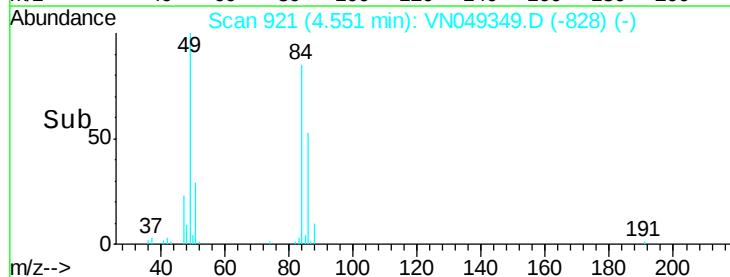
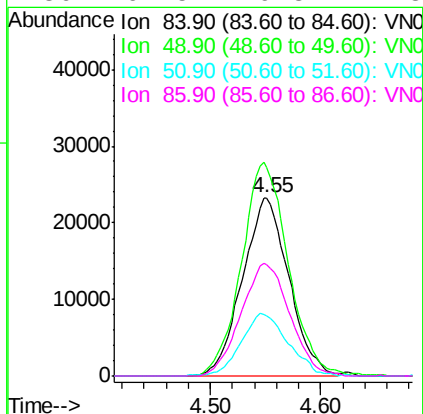
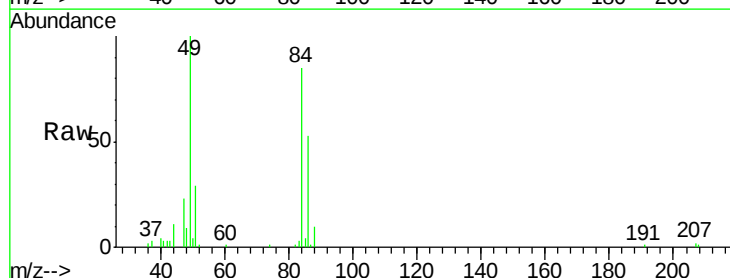
Instrument :
MSVOA_N
ClientSampleId :

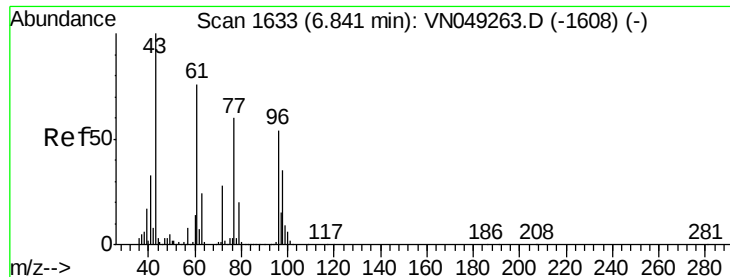
Tot Ion: 43 Resp: 166326
Ion Ratio Lower Upper
43 100
74 22.7 17.4 26.0



#20
Methylene Chloride
Concen: 3.93 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049349.D
Acq: 18 Jun 2018 17:47

Tgt Ion: 84 Resp: 67818
Ion Ratio Lower Upper
84 100
49 117.0 106.9 160.3
51 33.4 32.7 49.1
86 62.5 49.8 74.8

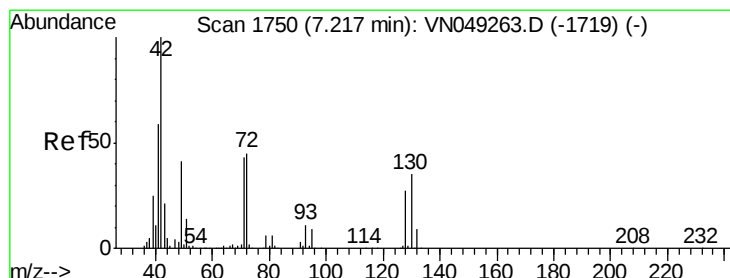
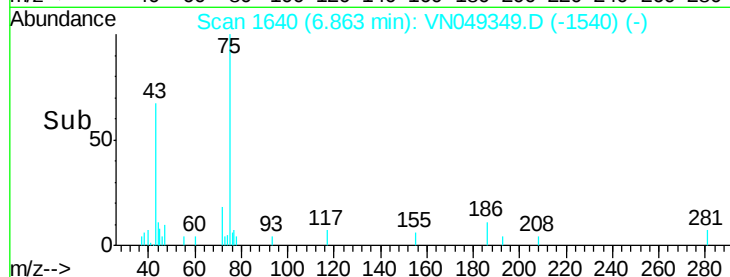
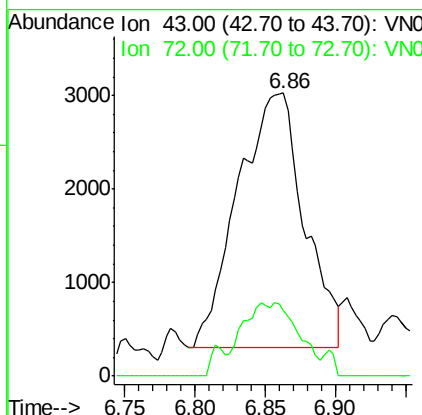
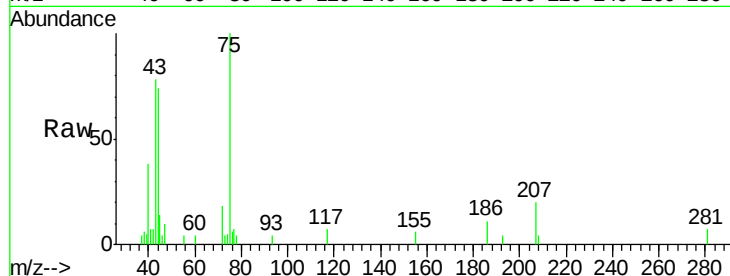




#25
2-Butanone
Concen: 1.61 ug/l
RT: 6.86 min Scan# 1640
Delta R.T. 0.02 min
Lab File: VN049349.D
Acq: 18 Jun 2018 17:47

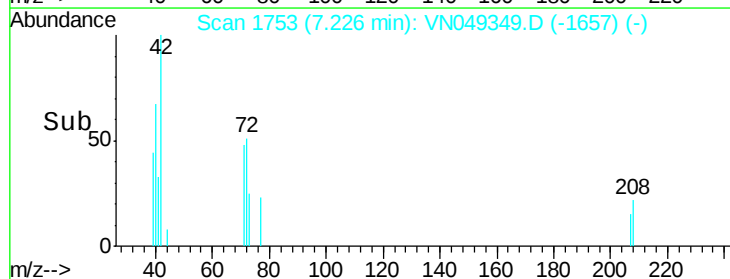
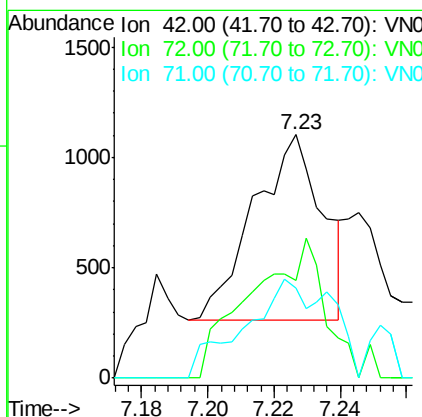
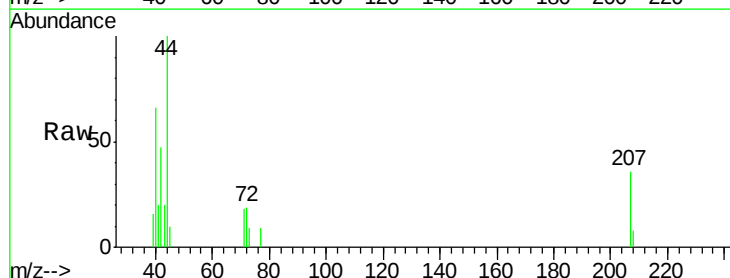
Instrument :
MSVOA_N
ClientSampled :

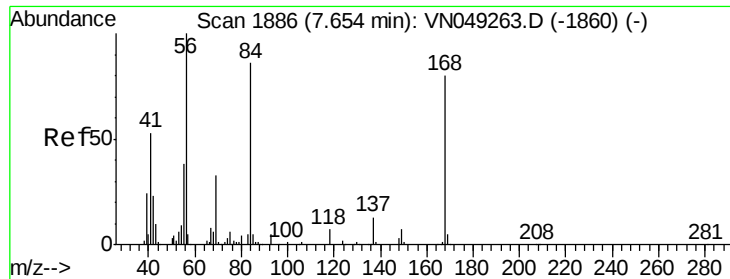
Tot Ion: 43 Resp: 8950
Ion Ratio Lower Upper
43 100
72 25.6 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.34 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN049349.D
Acq: 18 Jun 2018 17:47

Tgt Ion: 42 Resp: 1202
Ion Ratio Lower Upper
42 100
72 83.8 32.2 48.4#
71 47.1 30.5 45.7#

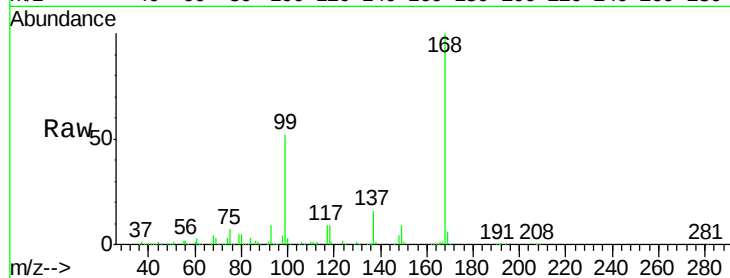




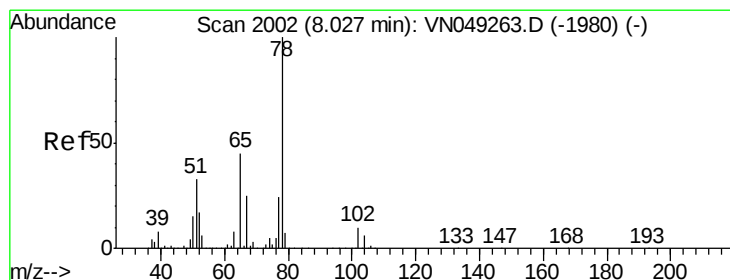
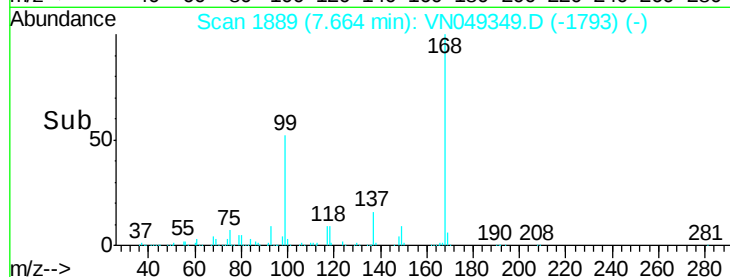
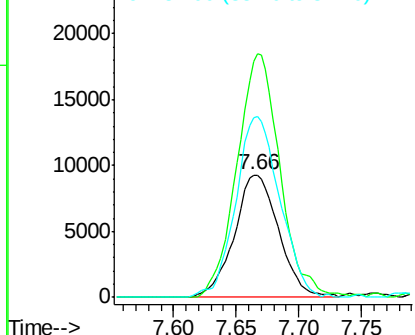
#31
Cyclohexane
Concen: 0.74 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049349.D
Acq: 18 Jun 2018 17:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 22844
Ion Ratio Lower Upper
56 100
69 192.7 25.0 37.4#
84 146.5 64.6 96.8#

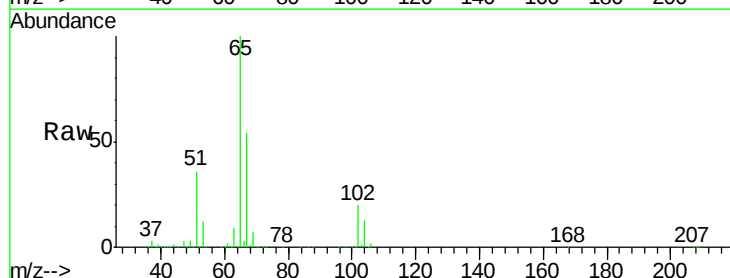


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

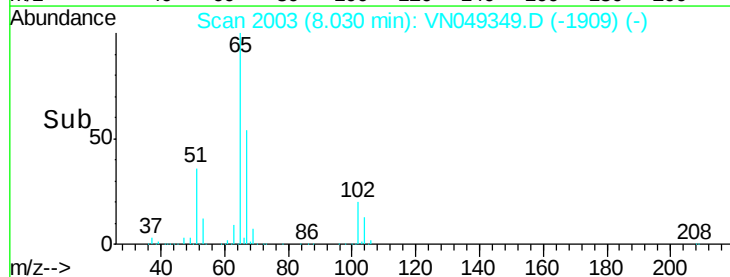
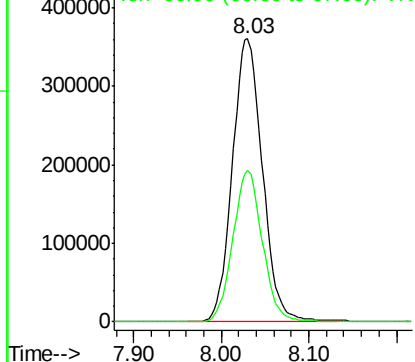


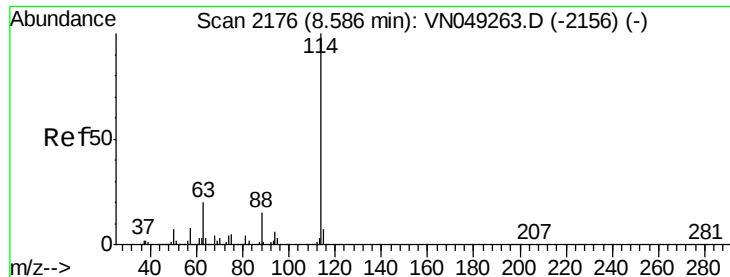
#33
1,2-Dichloroethane-d4
Concen: 50.63 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049349.D
Acq: 18 Jun 2018 17:47

Tgt Ion: 65 Resp: 860606
Ion Ratio Lower Upper
65 100
67 52.7 0.0 103.8



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



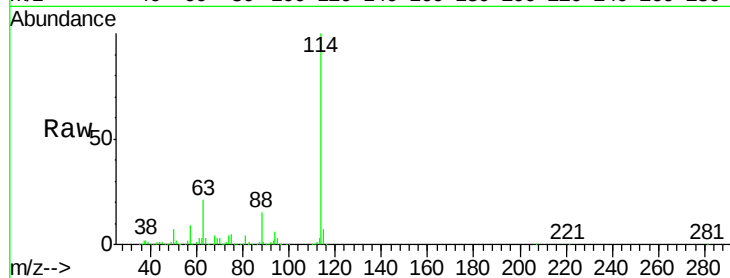


#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049349.D
 Acq: 18 Jun 2018 17:47

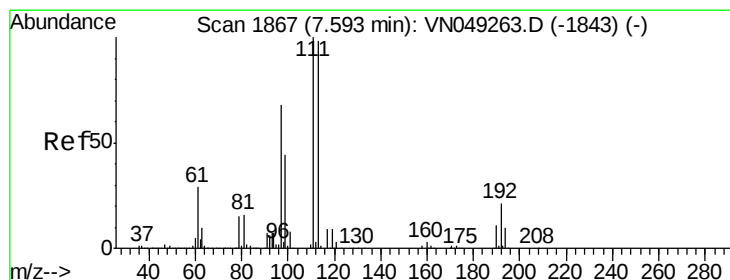
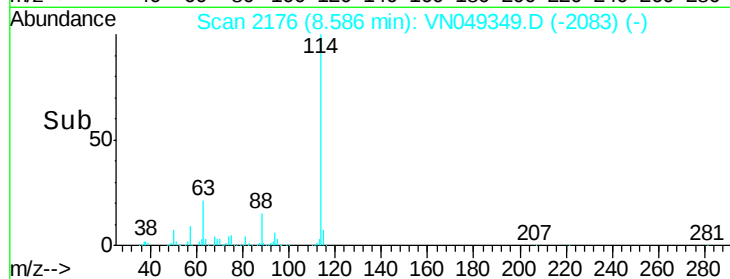
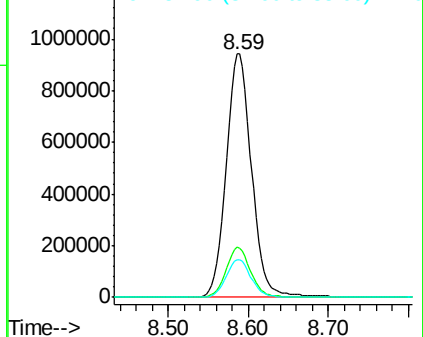
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 2036904

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	44.4
88	15.5	0.0	31.4



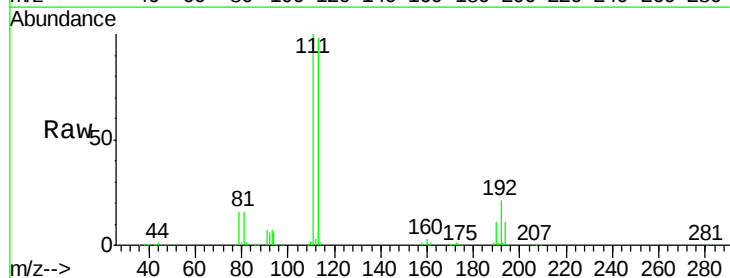
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V



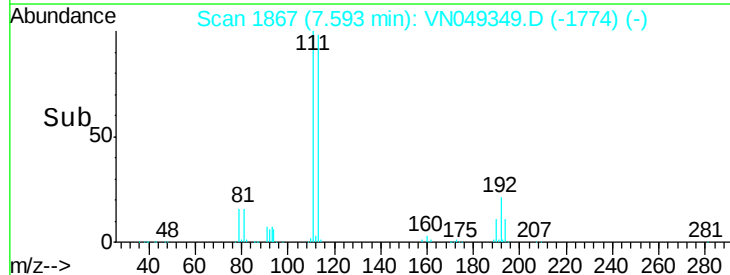
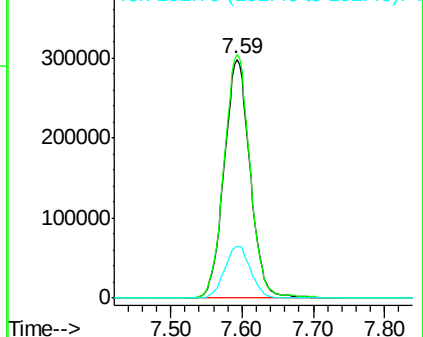
#35
 Dibromofluoromethane
 Concen: 45.77 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049349.D
 Acq: 18 Jun 2018 17:47

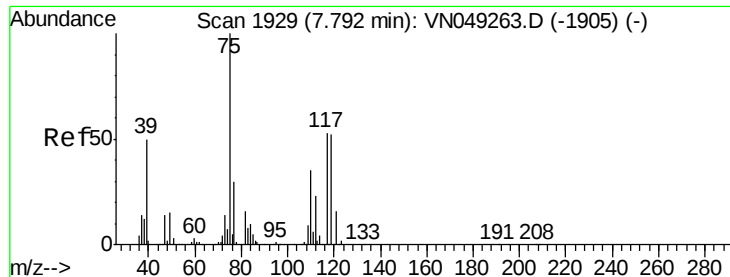
Tgt Ion:113 Resp: 754286

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	21.8	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: 3.79 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

Instrument :
MSVOA_N
ClientSampleId :

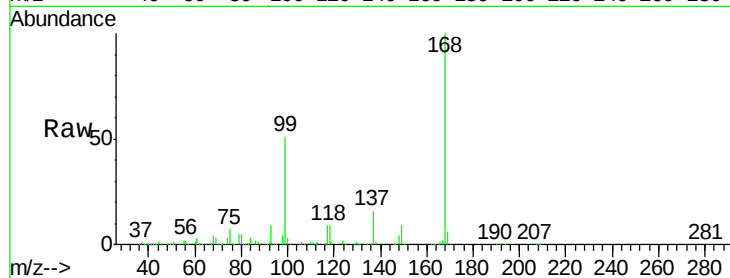
Tot Ion: 75 Resp: 88509

Ion Ratio Lower Upper

75 100

110 9.5 17.0 50.9#

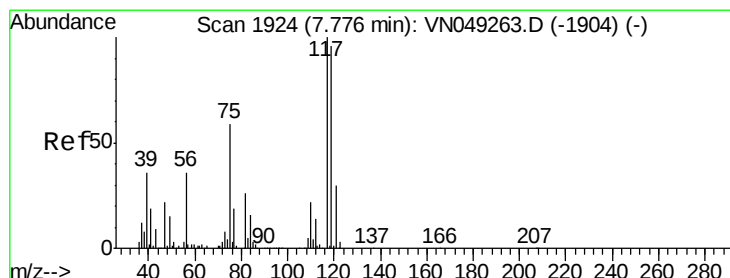
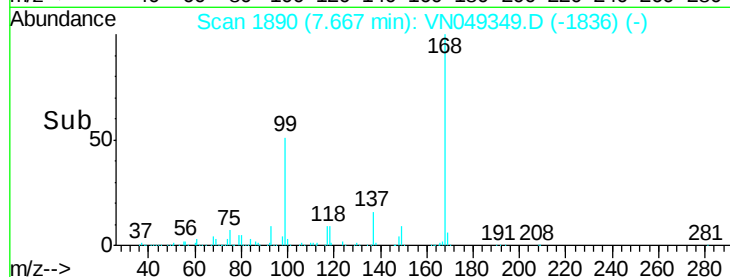
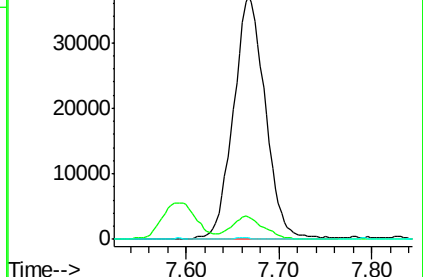
77 0.3 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VN049349.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049349.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049349.D (-1836) (-)



#38

Carbon Tetrachloride

Concen: 4.73 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.11 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

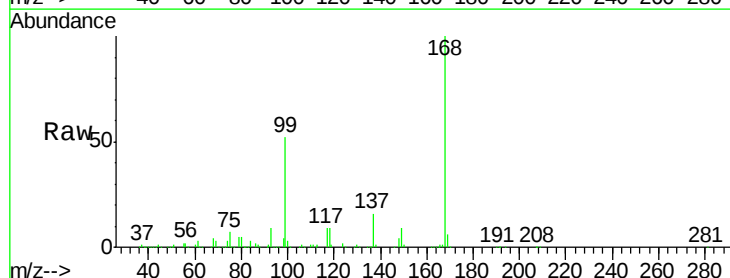
Tgt Ion: 117 Resp: 114332

Ion Ratio Lower Upper

117 100

119 7.2 75.6 113.4#

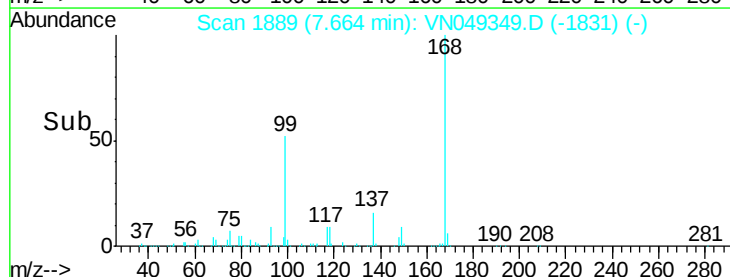
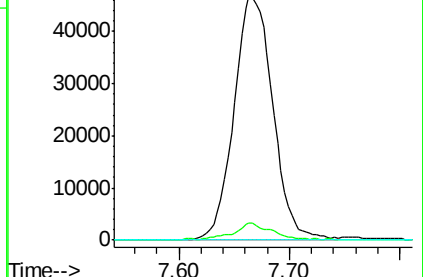
121 0.0 24.7 37.1#

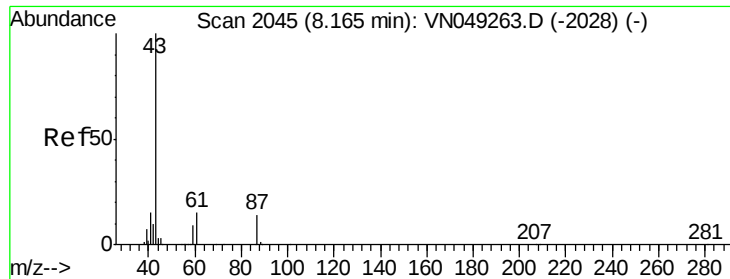


Abundance Ion 116.80 (116.50 to 117.50): VN049349.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN049349.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049349.D (-1831) (-)





#43

Isopropyl Acetate

Concen: 86.18 ug/l

RT: 8.21 min Scan# 2059

Delta R.T. 0.05 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

Instrument :

MSVOA_N

ClientSampled :

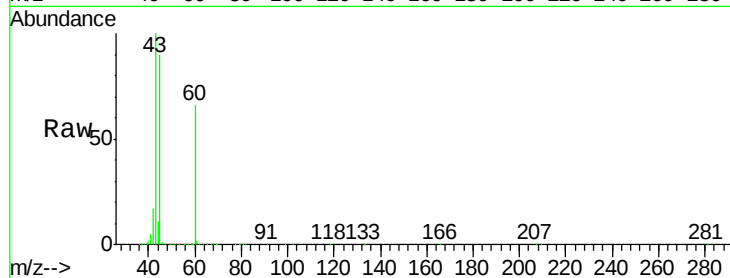
Tot Ion: 43 Resp: 2089777

Ion Ratio Lower Upper

43 100

61 1.0 14.2 21.4#

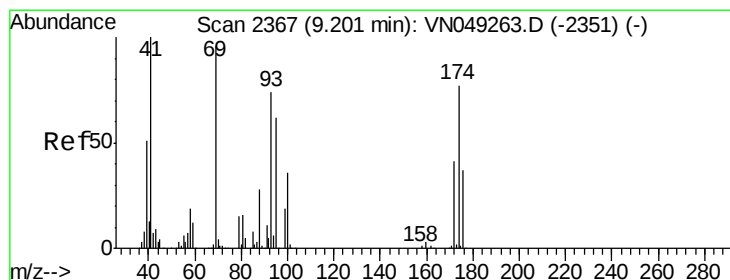
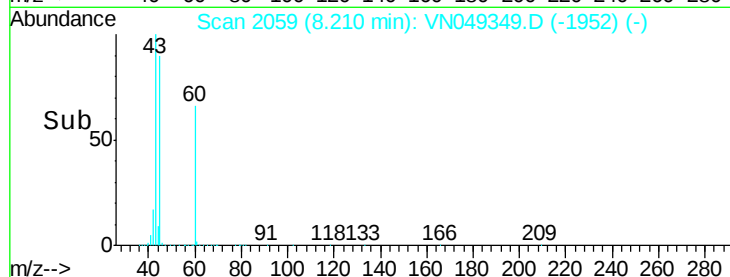
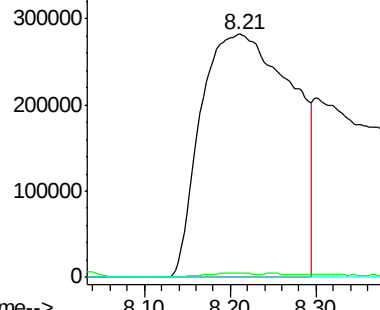
87 0.0 9.4 14.0#



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: 0.98 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

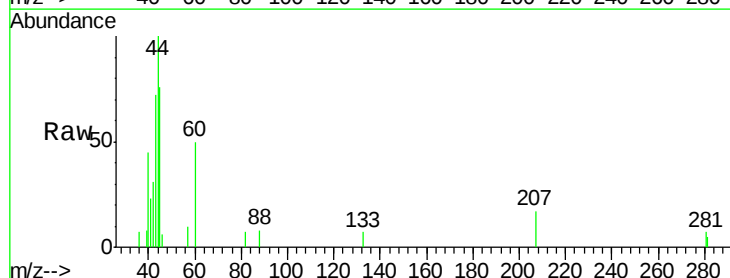
Tgt Ion: 88 Resp: 154

Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

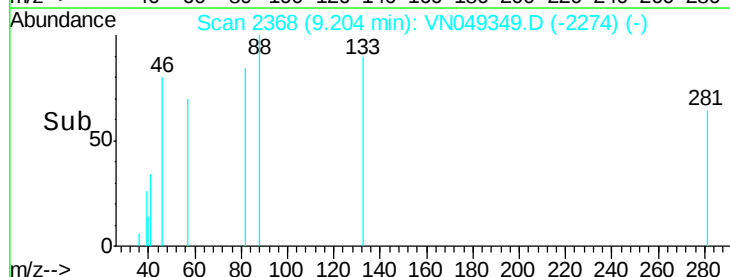
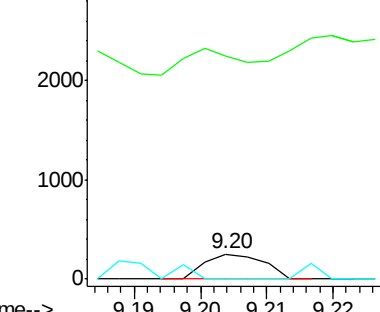
58 20.1 58.9 88.3#

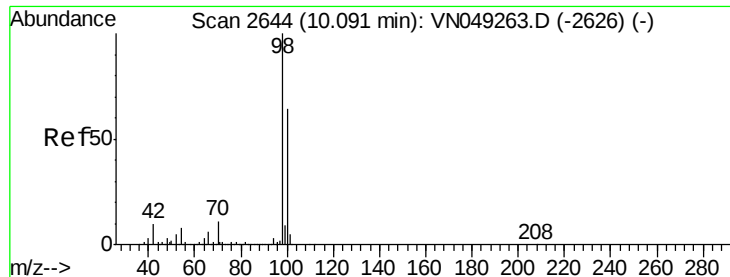


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 43.78 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

Instrument :

MSVOA_N

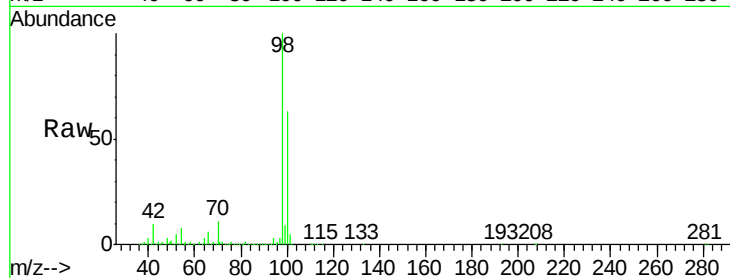
ClientSampleId :

Tot Ion: 98 Resp: 2747088

Ion Ratio Lower Upper

98 100

100 63.8 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

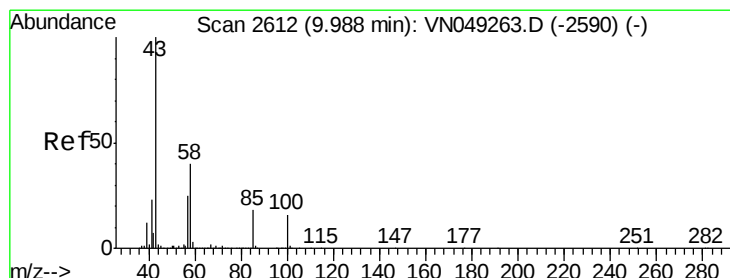
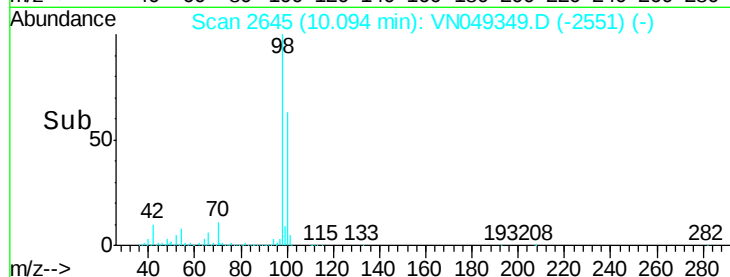
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.55 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049349.D

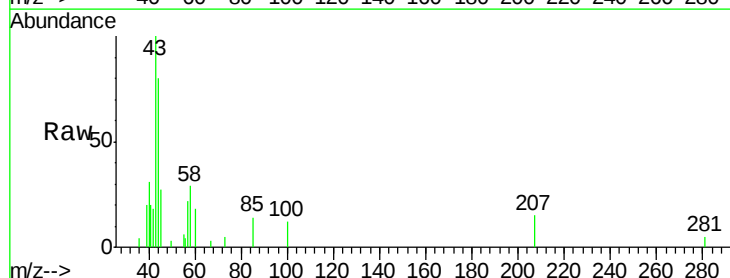
Acq: 18 Jun 2018 17:47

Tgt Ion: 43 Resp: 6963

Ion Ratio Lower Upper

43 100

58 40.6 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

8000

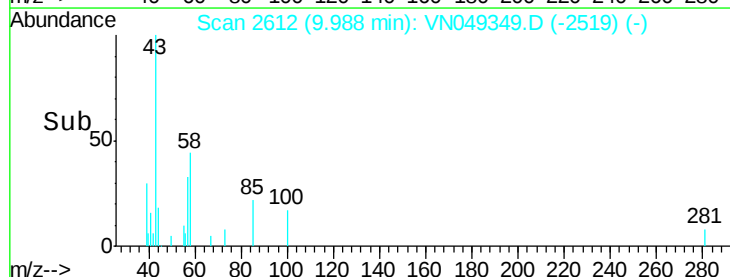
6000

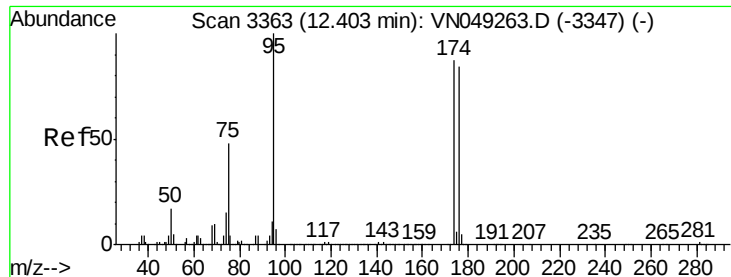
4000

2000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 34.81 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

Instrument :

MSVOA_N

ClientSampled :

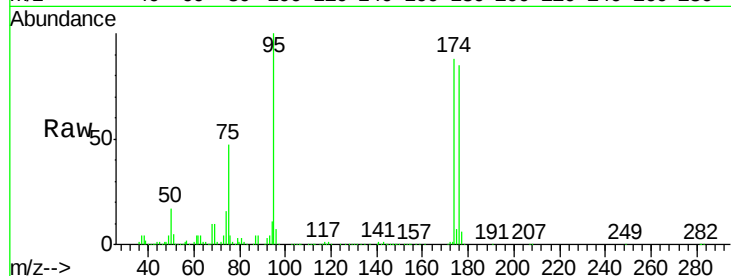
Tot Ion: 95 Resp: 722205

Ion Ratio Lower Upper

95 100

174 88.0 0.0 165.6

176 85.5 0.0 157.4



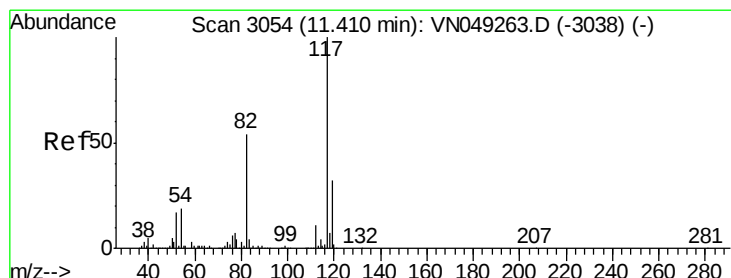
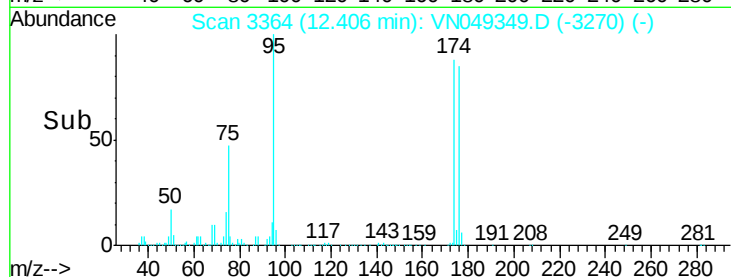
Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)

12.41

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

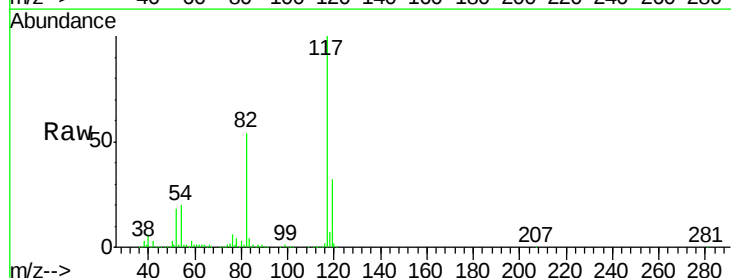
Tgt Ion: 117 Resp: 1644812

Ion Ratio Lower Upper

117 100

82 54.0 45.9 68.9

119 32.3 25.5 38.3



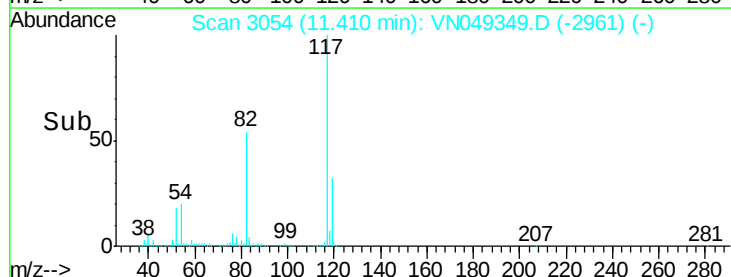
Abundance Ion 116.90 (116.60 to 117.60): VN049263.D (-3038) (-)

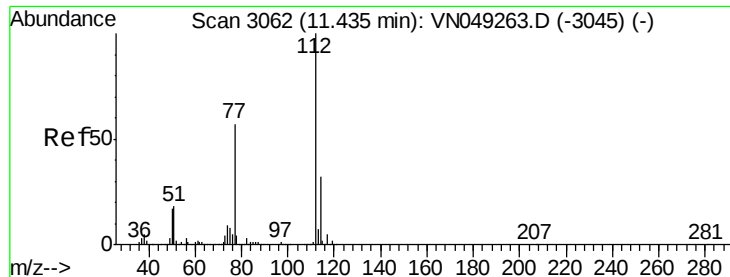
Ion 82.00 (81.70 to 82.70): VN049263.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049263.D (-3038) (-)

11.41

Time-->





#65

Chlorobenzene

Concen: 0.58 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

Instrument :

MSVOA_N

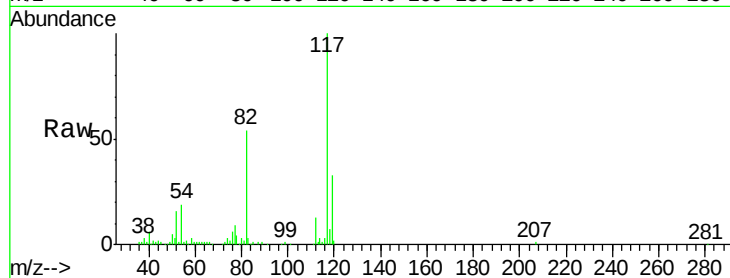
ClientSampleId :

Tot Ion:112 Resp: 24391

Ion Ratio Lower Upper

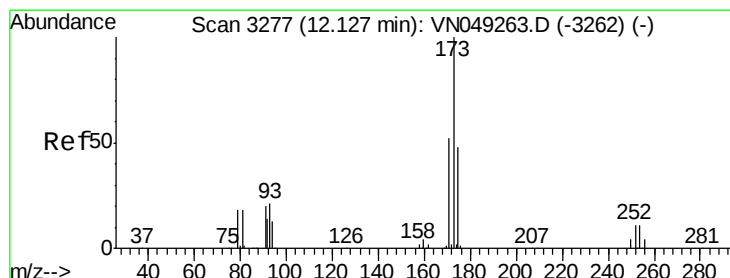
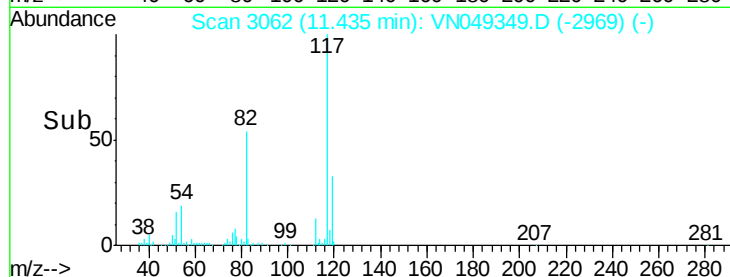
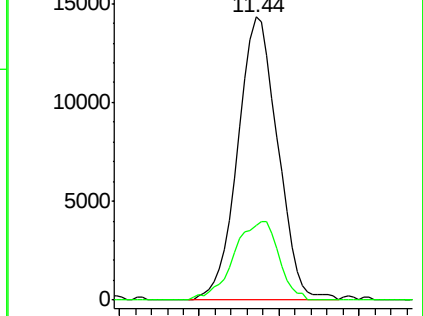
112 100

114 26.3 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: 0.39 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

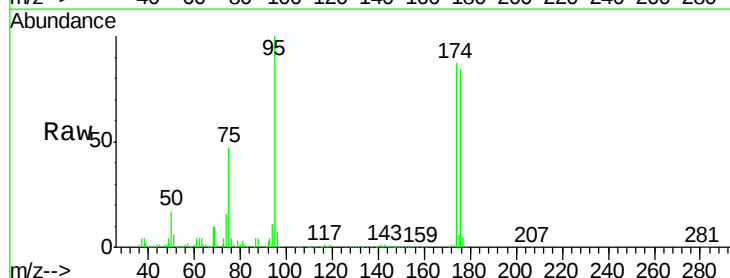
Tgt Ion:173 Resp: 4075

Ion Ratio Lower Upper

173 100

175 880.0 24.5 73.5#

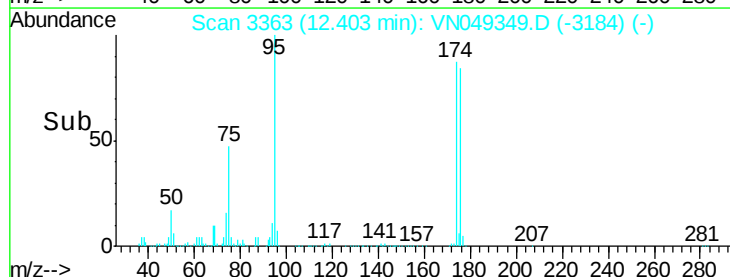
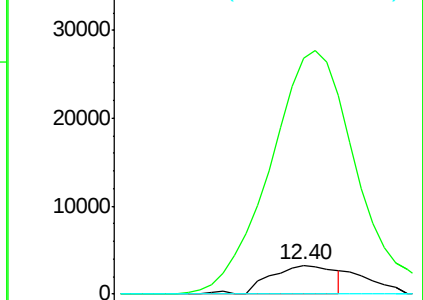
254 0.0 0.1 0.1#

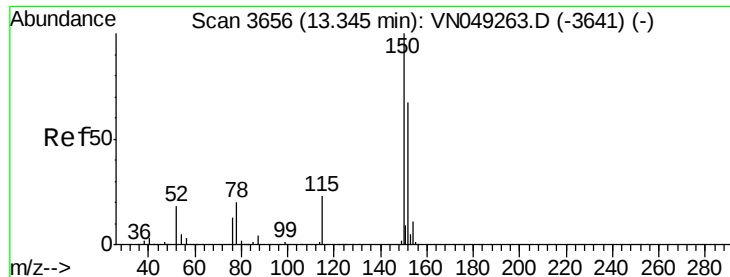


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN049349.D

Acq: 18 Jun 2018 17:47

Instrument :

MSVOA_N

ClientSampled :

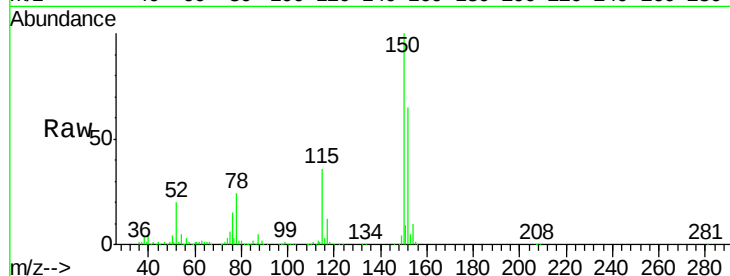
Tot Ion:152 Resp: 505136

Ion Ratio Lower Upper

152 100

115 56.5 28.7 86.1

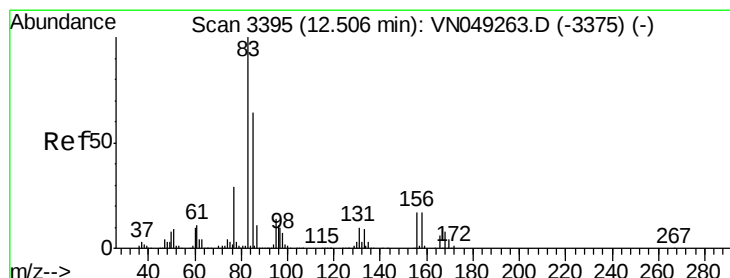
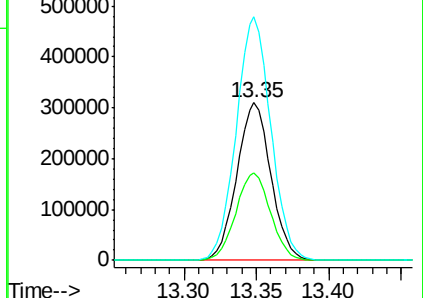
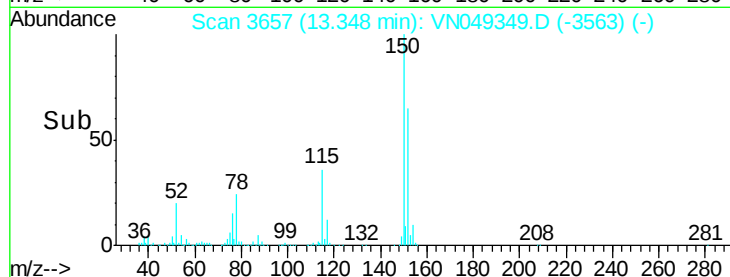
150 157.1 0.0 351.0



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: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

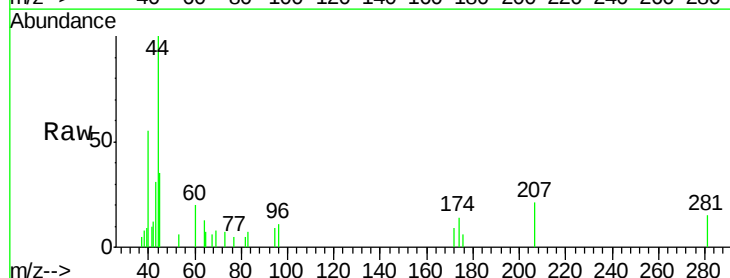
Tgt Ion: 83 Resp: 74

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

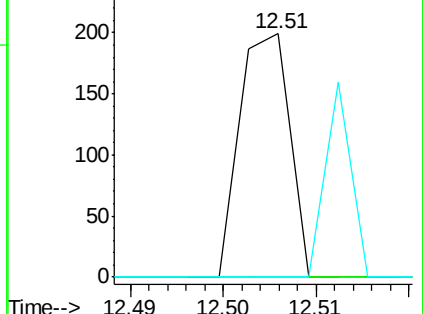
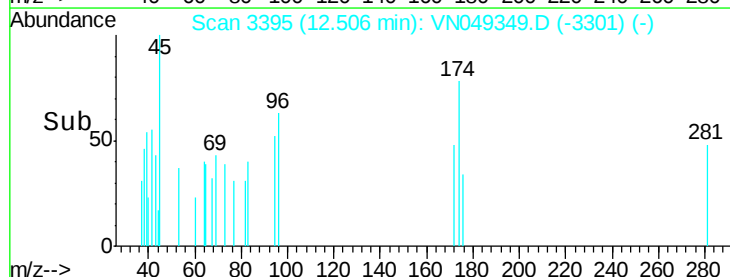
85 41.9 32.0 96.0

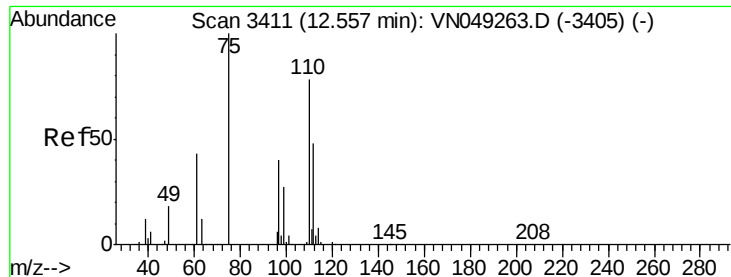


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 40.19 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

Instrument :

MSVOA_N

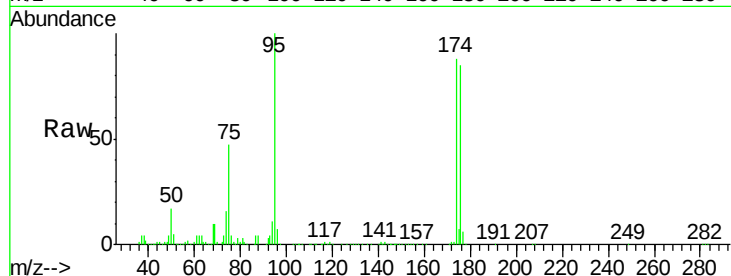
ClientSampleId :

Tot Ion: 75 Resp: 346373

Ion Ratio Lower Upper

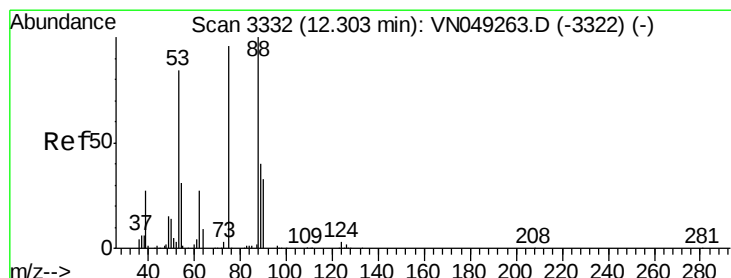
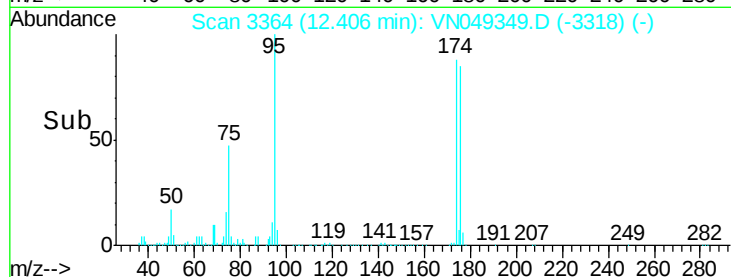
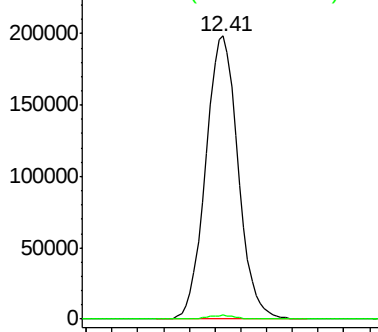
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 127.01 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

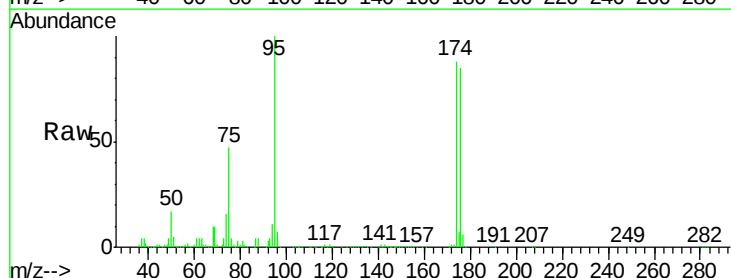
Tgt Ion: 75 Resp: 346373

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

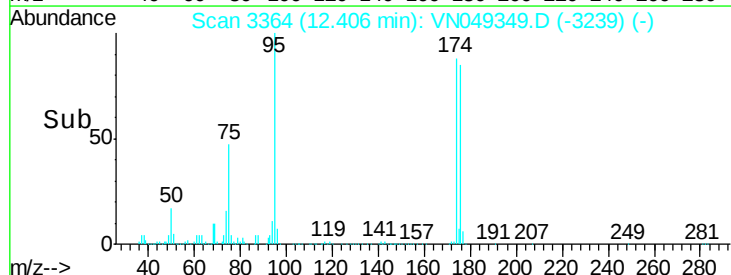
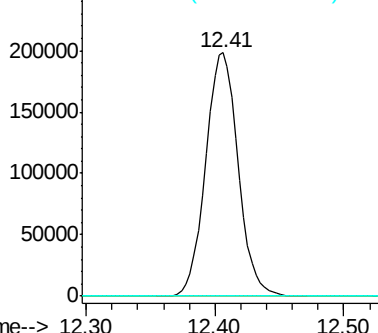
89 0.0 36.5 54.7#

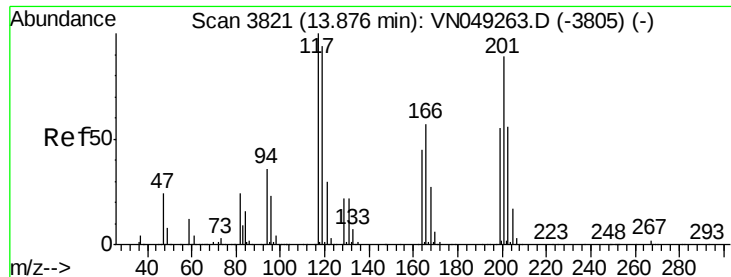


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#90

Hexachloroethane

Concen: Below Cal

RT: 14.07 min Scan# 3880

Delta R.T. 0.19 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

Instrument :

MSVOA_N

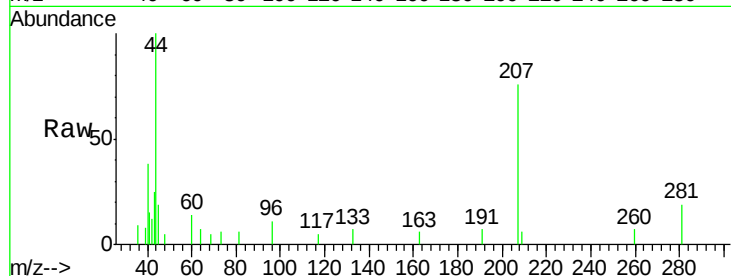
ClientSampleId :

Tot Ion:117 Resp: 29

Ion Ratio Lower Upper

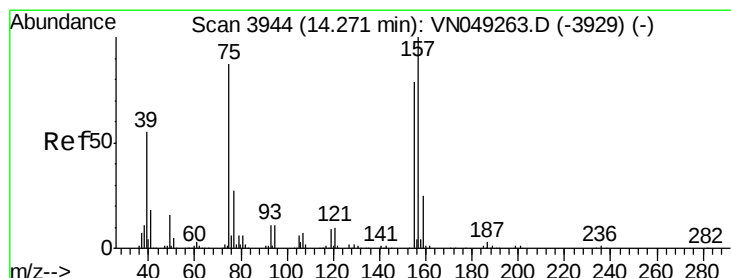
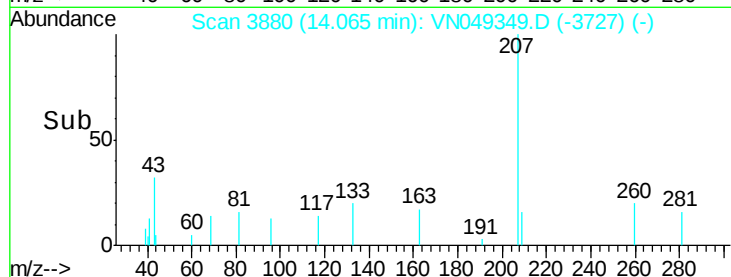
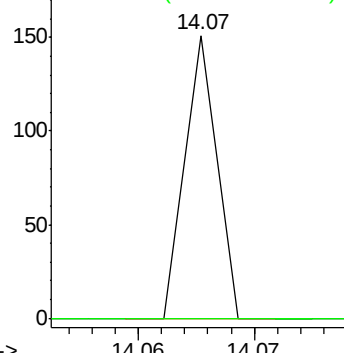
117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.30 ug/l

RT: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN049349.D

Acq: 18 Jun 2018 17:47

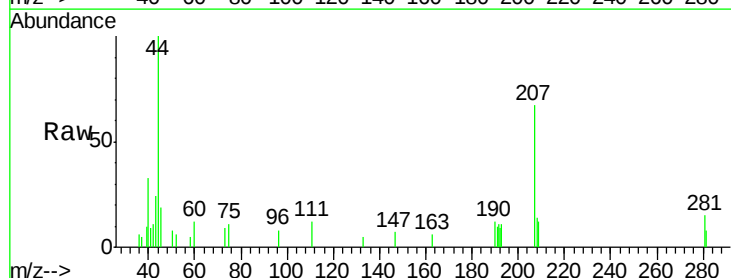
Tgt Ion: 75 Resp: 467

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

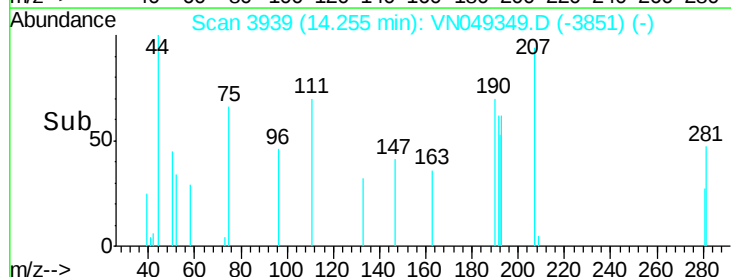
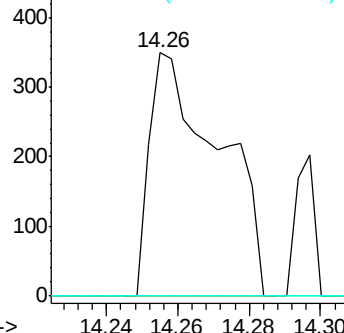
157 0.0 51.0 153.1#

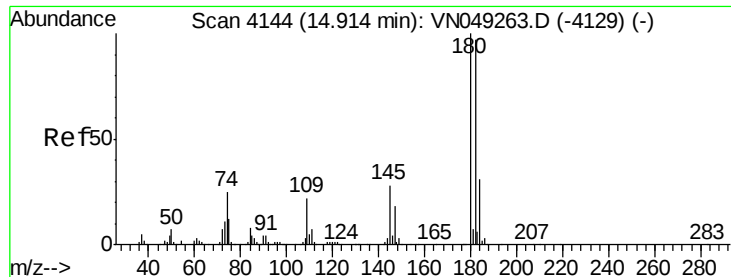


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

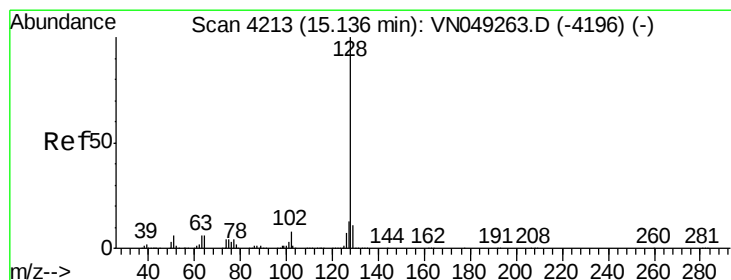
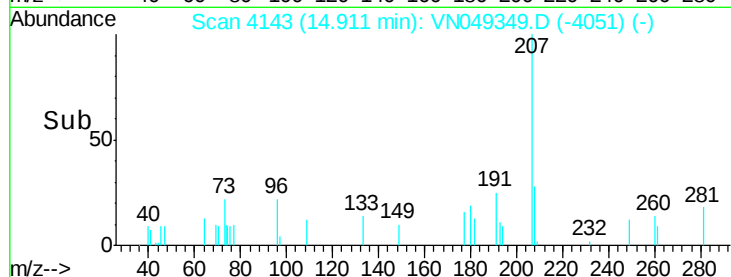
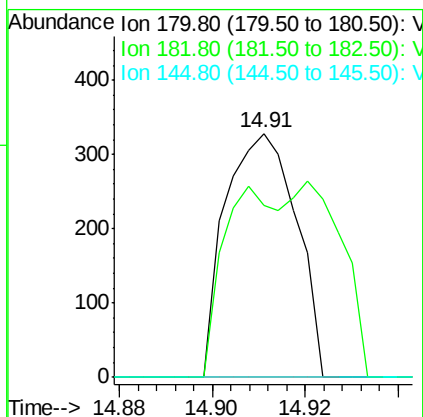
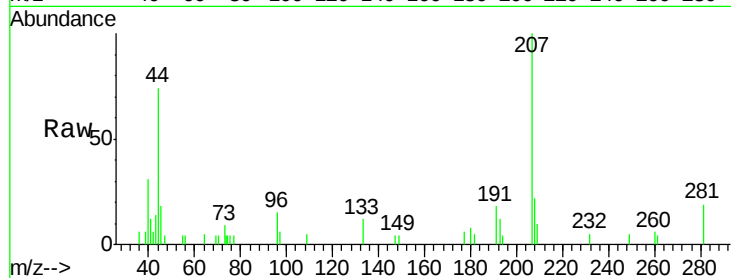




#93
 1,2,4-Trichlorobenzene
 Concen: 4.78 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049349.D
 Acq: 18 Jun 2018 17:47

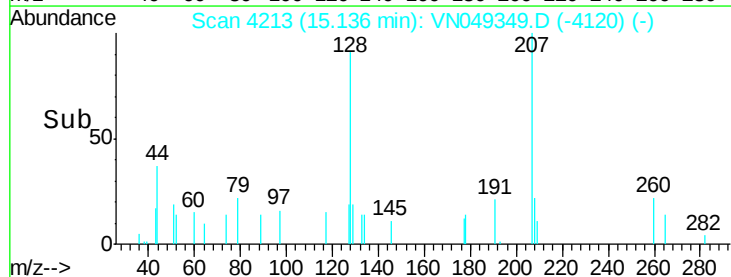
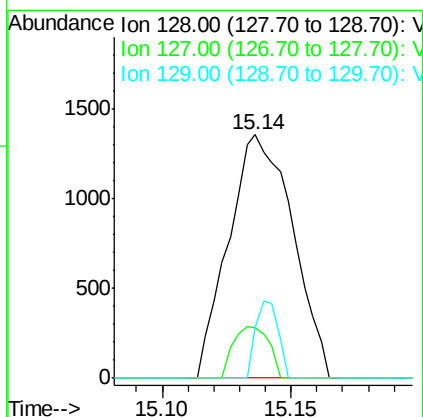
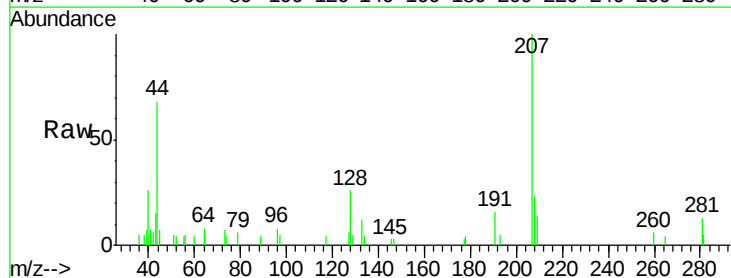
Instrument :
 MSVOA_N
 ClientSampled :

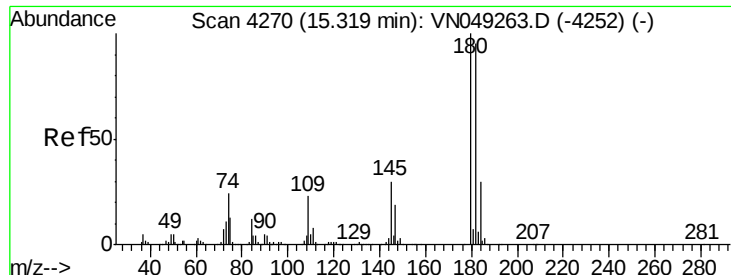
Tot Ion:180 Resp: 348
 Ion Ratio Lower Upper
 180 100
 182 61.5 46.9 140.8
 145 0.0 14.7 44.1#



#95
 Naphthalene
 Concen: 2.25 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN049349.D
 Acq: 18 Jun 2018 17:47

Tgt Ion:128 Resp: 2344
 Ion Ratio Lower Upper
 128 100
 127 11.6 10.6 16.0
 129 11.0 8.5 12.7





#96
 1,2,3-Trichlorobenzene
 Concen: 3.51 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.00 min
 Lab File: VN049349.D
 Acq: 18 Jun 2018 17:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	15.8	47.3	141.8#
145	0.0	15.6	46.7#

