

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061918\
 Data File : VN049399.D
 Acq On : 19 Jun 2018 21:13
 Operator : MD\SY
 Sample : PB110363ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 04:34:13 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	1195644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1912259	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1560891	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	439282	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	817767	51.57	ug/l	0.00
Spiked Amount			Recovery	=	103.14%	
35) Dibromofluoromethane	7.59	113	715689	46.26	ug/l	0.00
Spiked Amount			Recovery	=	92.52%	
50) Toluene-d8	10.09	98	2582889	43.85	ug/l	0.00
Spiked Amount			Recovery	=	87.70%	
62) 4-Bromofluorobenzene	12.40	95	643775	33.05	ug/l	0.00
Spiked Amount			Recovery	=	66.10%	

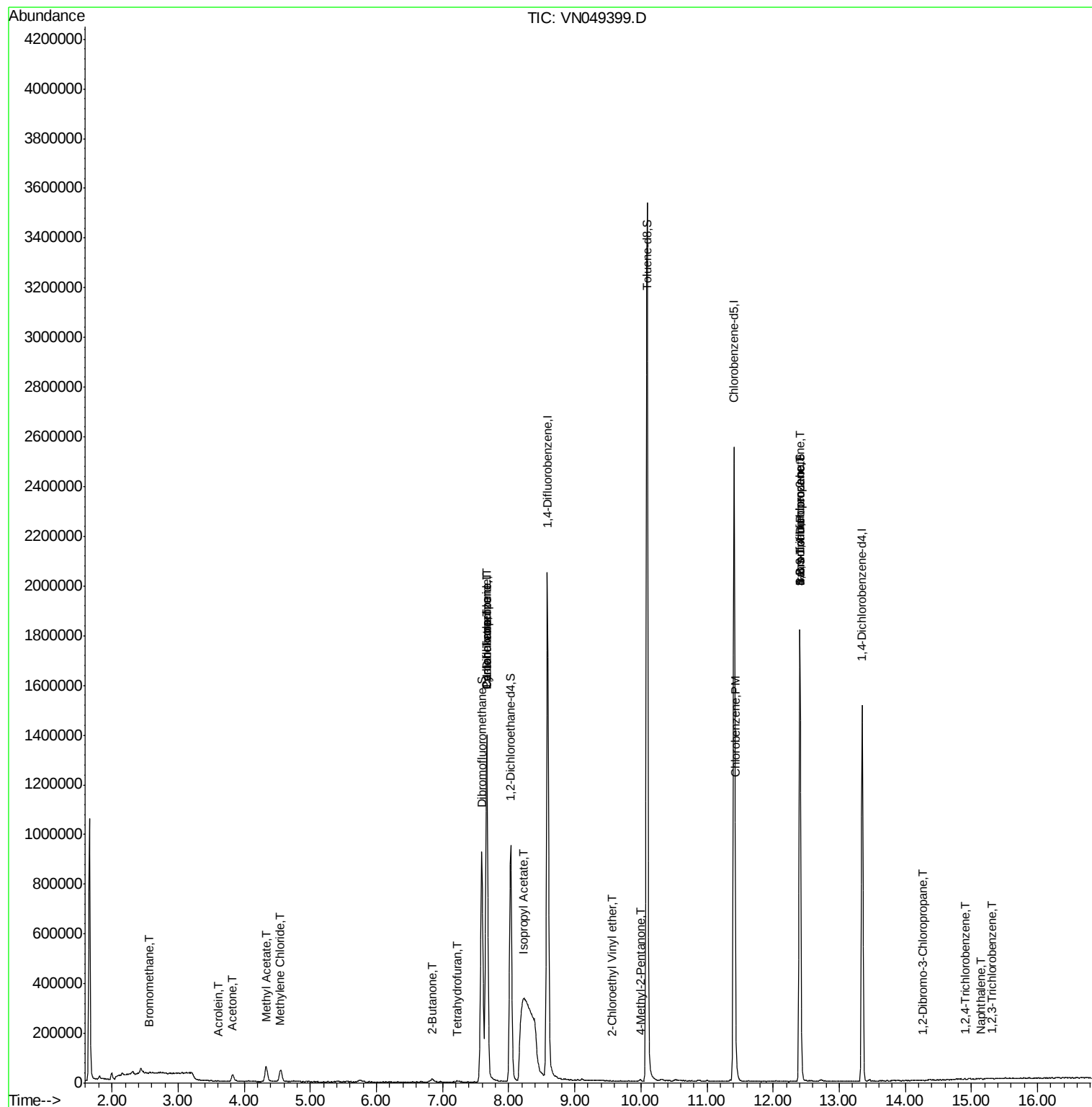
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2406	0.24	ug/l #	75
13) Acrolein	3.61	56	379	0.39	ug/l	83
16) Acetone	3.82	43	44487	11.55	ug/l #	89
18) Methyl Acetate	4.33	43	120081	10.23	ug/l	97
20) Methylene Chloride	4.55	84	34868	2.17	ug/l	87
25) 2-Butanone	6.86	43	7080	1.37	ug/l	90
29) Tetrahydrofuran	7.22	42	1766	0.53	ug/l #	84
31) Cyclohexane	7.67	56	22004	0.76	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	82398	3.76	ug/l #	51
38) Carbon Tetrachloride	7.67	117	106621	4.70	ug/l #	18
43) Isopropyl Acetate	8.22	43	399702	17.56	ug/l #	64
51) 4-Methyl-2-Pentanone	9.99	43	5249	0.44	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.56	63	30	14.33	ug/l #	51
65) Chlorobenzene	11.44	112	20817	0.52	ug/l	96
71) Bromoform	12.40	173	2003	0.20	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.56	83	64	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	311288	41.53	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	311288	131.26	ug/l #	9
90) Hexachloroethane	13.80	117	117	Below Cal	#	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	514	0.38	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.91	180	149	4.76	ug/l #	4
95) Naphthalene	15.14	128	879	2.15	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	80	3.47	ug/l #	34

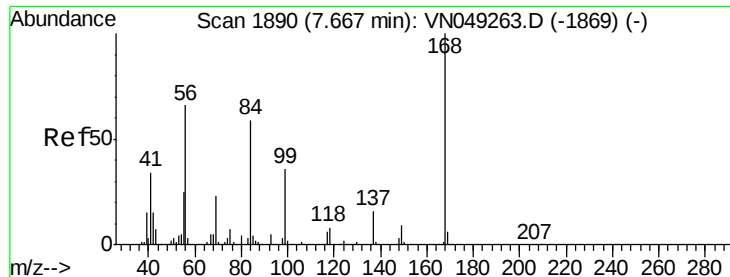
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1891

Delta R.T. 0.00 min

Lab File: VN049399.D

Acq: 19 Jun 2018 21:13

Instrument :

MSVOA_N

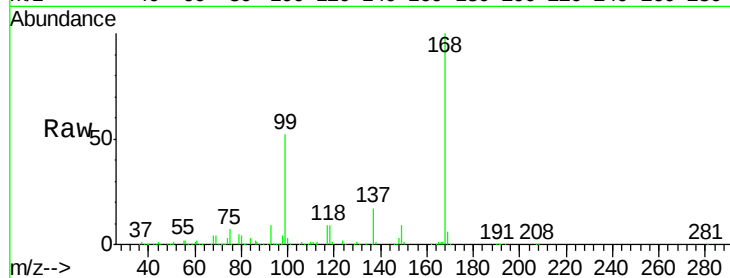
ClientSampleId :

Tot Ion:168 Resp: 1195644

Ion Ratio Lower Upper

168 100

99 51.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049399.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049399.D (-1797) (-)

7.67

500000

400000

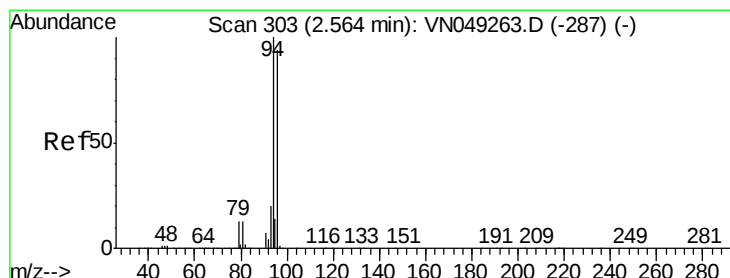
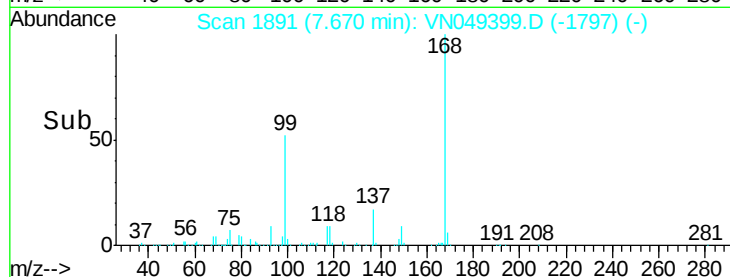
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.24 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049399.D

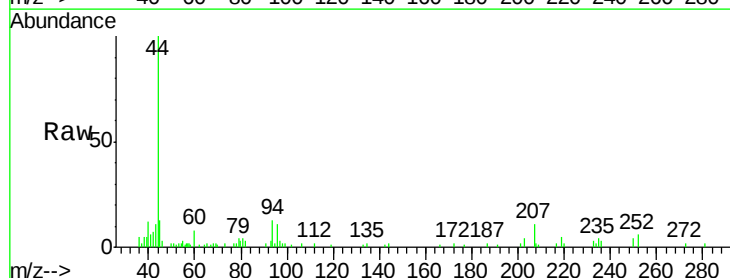
Acq: 19 Jun 2018 21:13

Tgt Ion: 94 Resp: 2406

Ion Ratio Lower Upper

94 100

96 67.5 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VN049399.D (-210) (-)

Ion 95.90 (95.60 to 96.60): VN049399.D (-210) (-)

2.57

2000

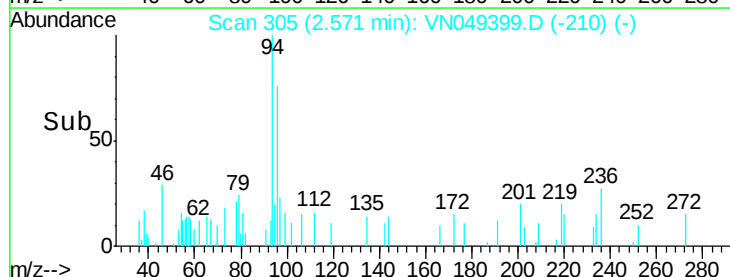
1500

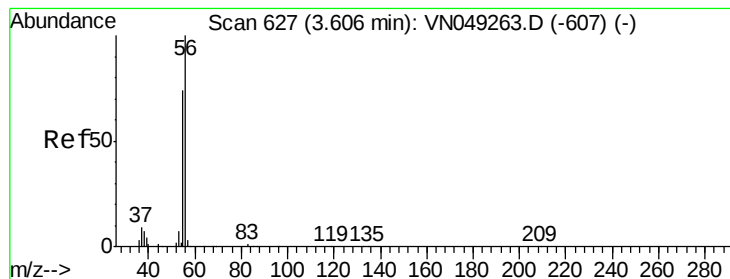
1000

500

0

Time-->





#13

Acrolein

Concen: 0.39 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049399.D

Acq: 19 Jun 2018 21:13

Instrument :

MSVOA_N

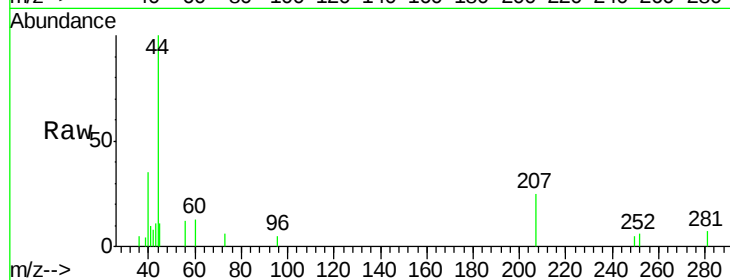
ClientSampled :

Tot Ion: 56 Resp: 379

Ion Ratio Lower Upper

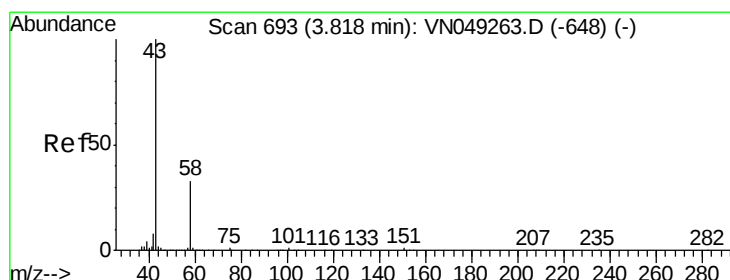
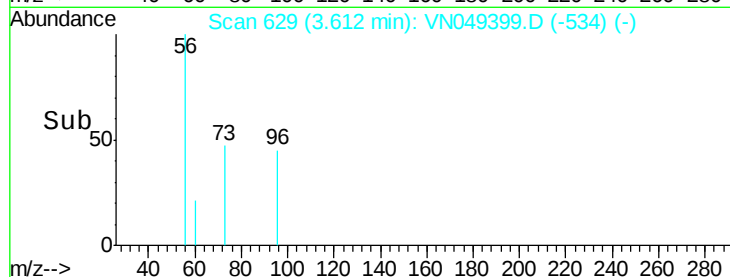
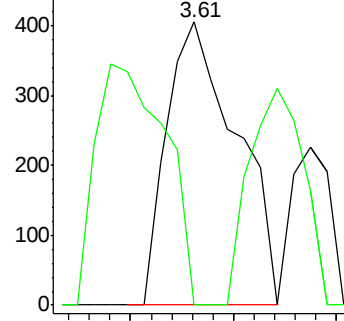
56 100

55 85.2 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: 11.55 ug/l

RT: 3.82 min Scan# 693

Delta R.T. -0.00 min

Lab File: VN049399.D

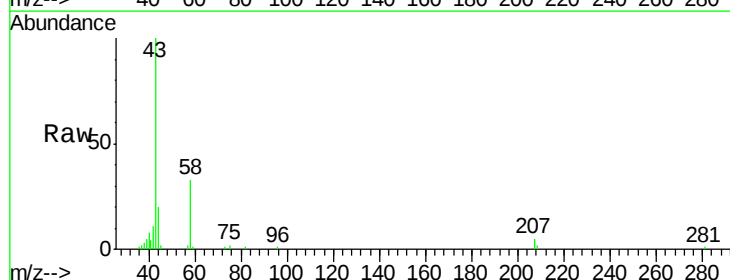
Acq: 19 Jun 2018 21:13

Tgt Ion: 43 Resp: 44487

Ion Ratio Lower Upper

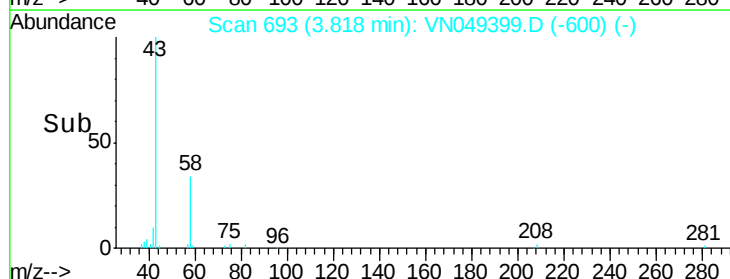
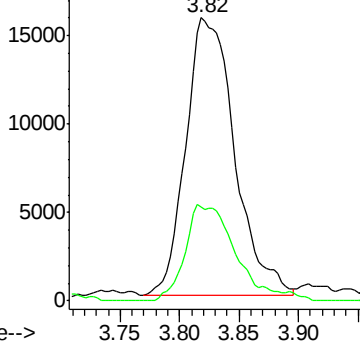
43 100

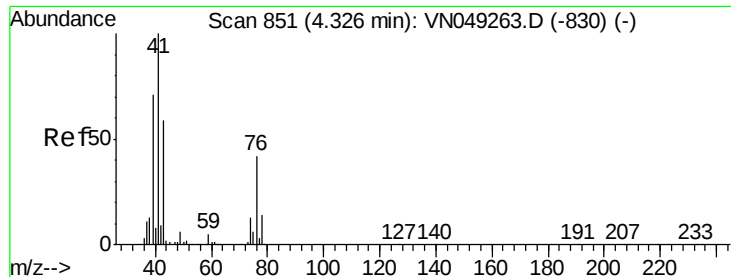
58 33.9 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

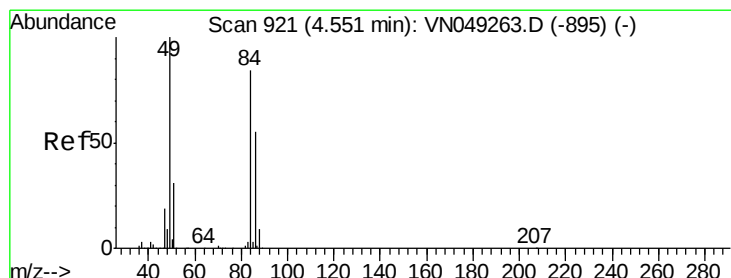
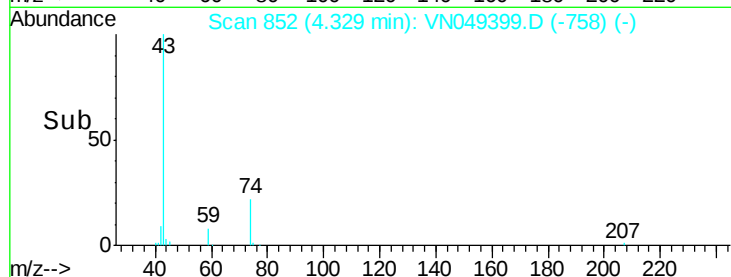
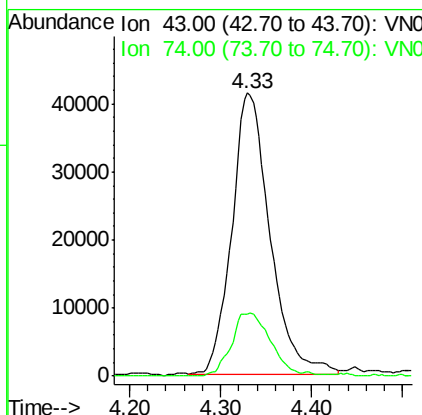
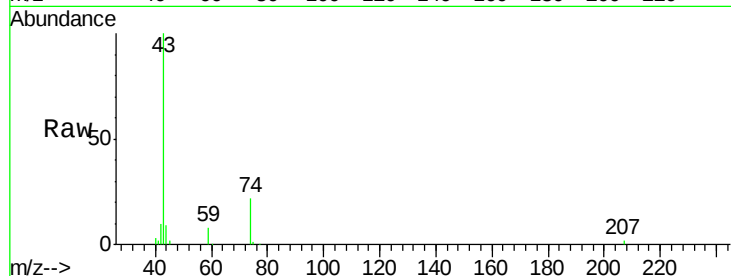




#18
Methvl Acetate
Concen: 10.23 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049399.D
Acq: 19 Jun 2018 21:13

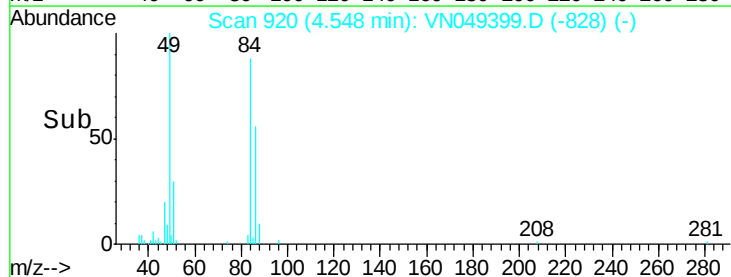
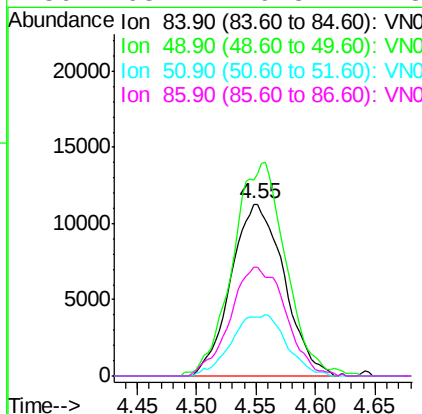
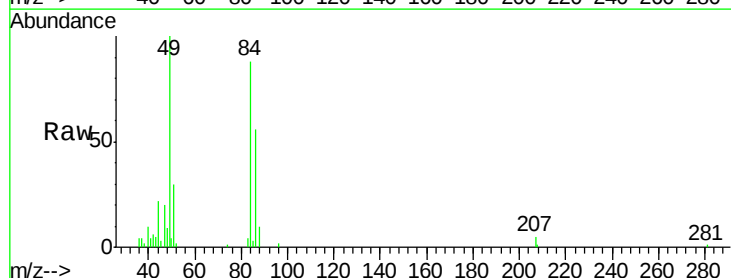
Instrument :
MSVOA_N
ClientSampleId :

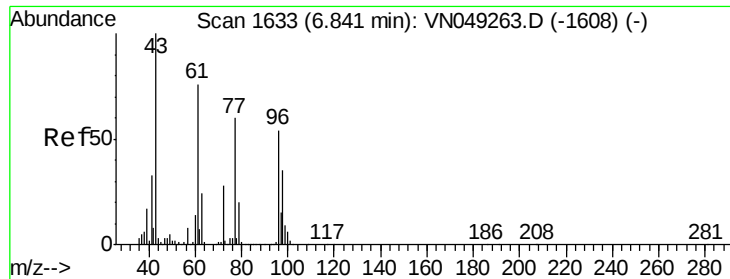
Tot Ion: 43 Resp: 120081
Ion Ratio Lower Upper
43 100
74 22.9 17.4 26.0



#20
Methylene Chloride
Concen: 2.17 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049399.D
Acq: 19 Jun 2018 21:13

Tgt Ion: 84 Resp: 34868
Ion Ratio Lower Upper
84 100
49 111.9 106.9 160.3
51 34.4 32.7 49.1
86 63.7 49.8 74.8

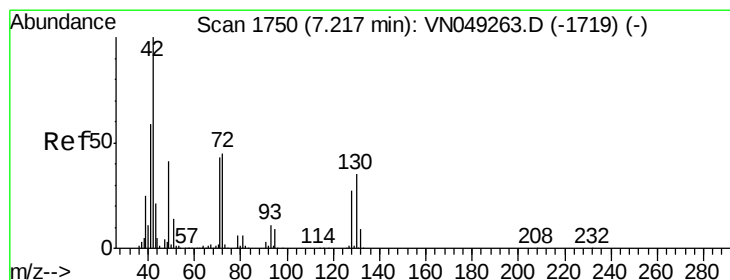
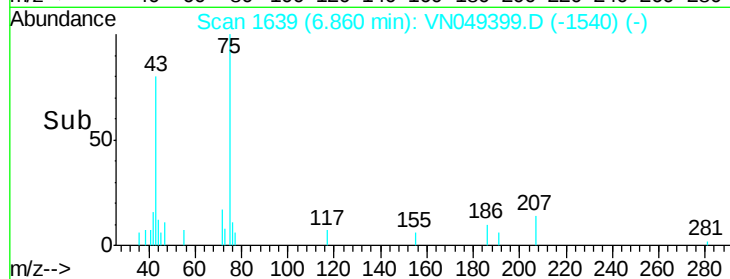
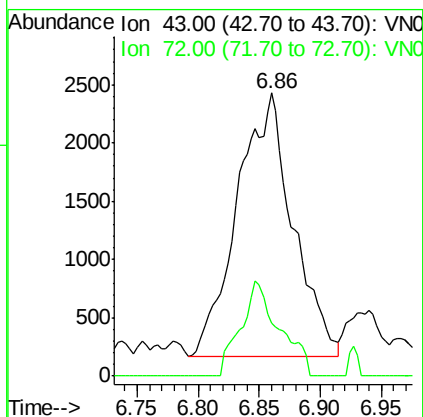
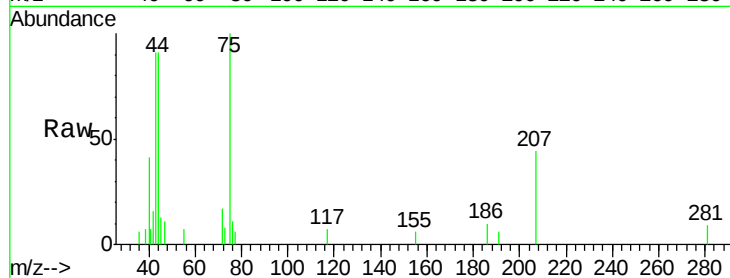




#25
2-Butanone
Concen: 1.37 ug/l
RT: 6.86 min Scan# 1639
Delta R.T. 0.02 min
Lab File: VN049399.D
Acq: 19 Jun 2018 21:13

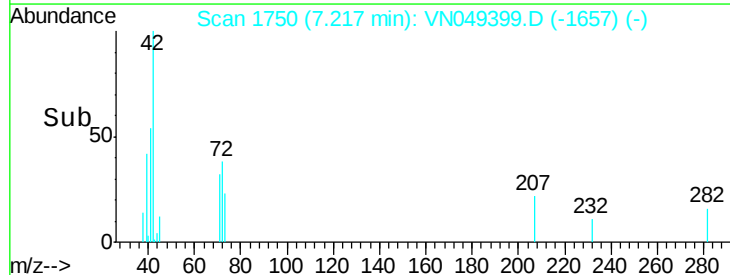
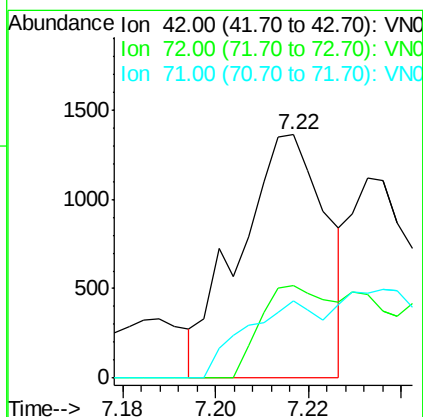
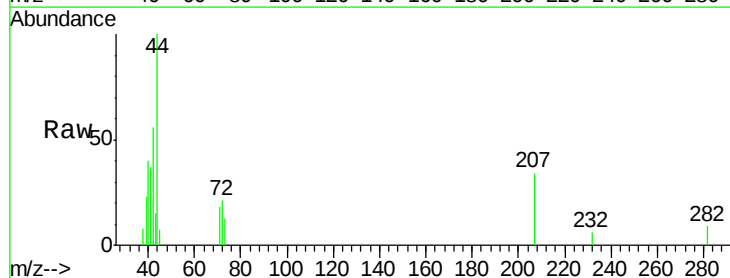
Instrument :
MSVOA_N
ClientSampled :

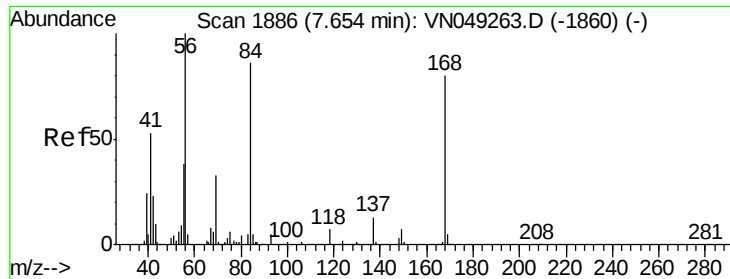
Tot Ion: 43 Resp: 7080
Ion Ratio Lower Upper
43 100
72 20.3 20.2 30.2



#29
Tetrahydrofuran
Concen: 0.53 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN049399.D
Acq: 19 Jun 2018 21:13

Tgt Ion: 42 Resp: 1766
Ion Ratio Lower Upper
42 100
72 31.7 32.2 48.4#
71 27.4 30.5 45.7#

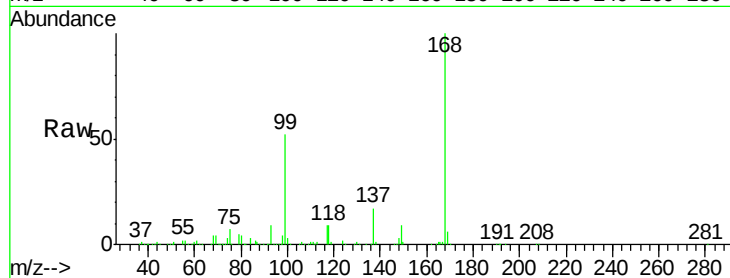




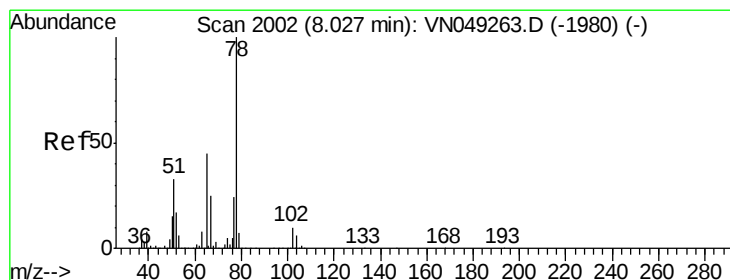
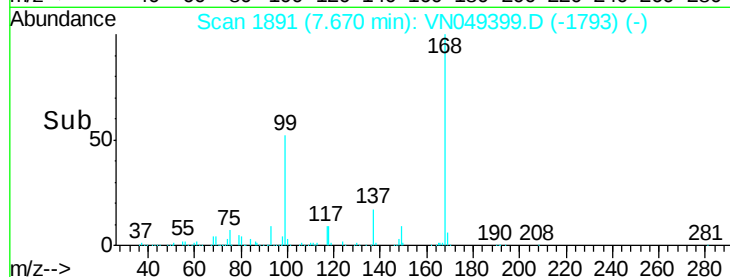
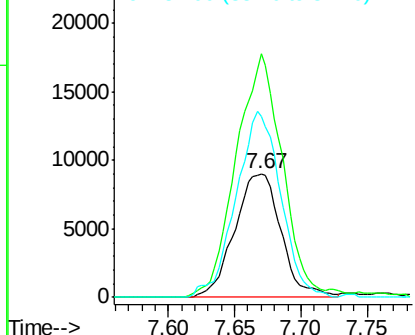
#31
Cyclohexane
Concen: 0.76 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN049399.D
Acq: 19 Jun 2018 21:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 22004
Ion Ratio Lower Upper
56 100
69 195.1 25.0 37.4#
84 146.4 64.6 96.8#

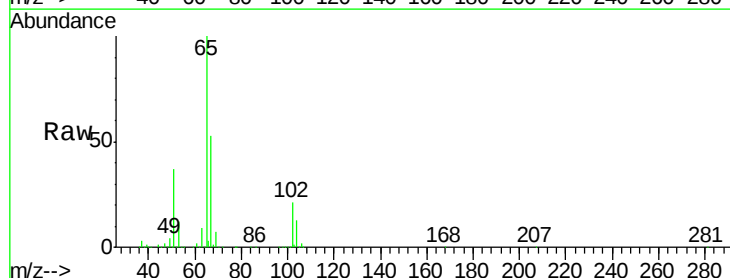


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

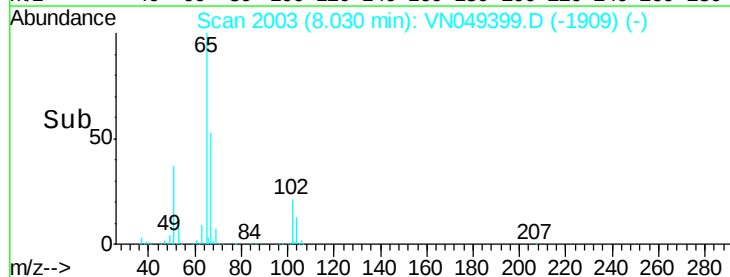
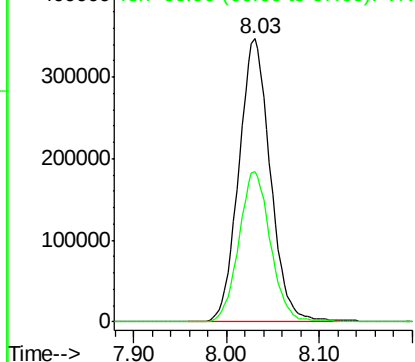


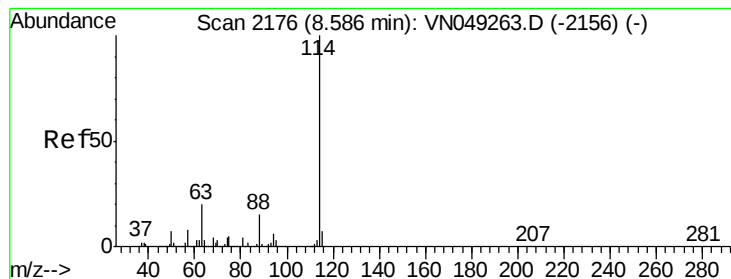
#33
1,2-Dichloroethane-d4
Concen: 51.57 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049399.D
Acq: 19 Jun 2018 21:13

Tgt Ion: 65 Resp: 817767
Ion Ratio Lower Upper
65 100
67 53.4 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: VN049399.D

Acq: 19 Jun 2018 21:13

Instrument :

MSVOA_N

ClientSampleId :

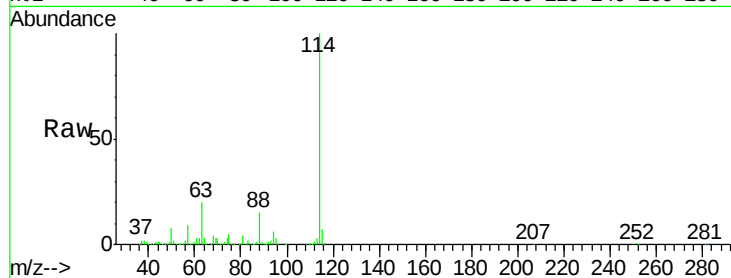
Tot Ion:114 Resp: 1912259

Ion Ratio Lower Upper

114 100

63 20.3 0.0 44.4

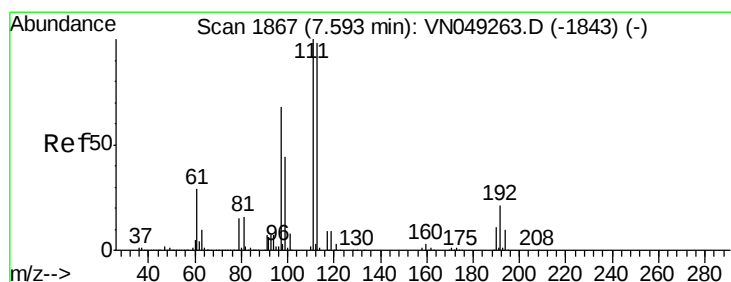
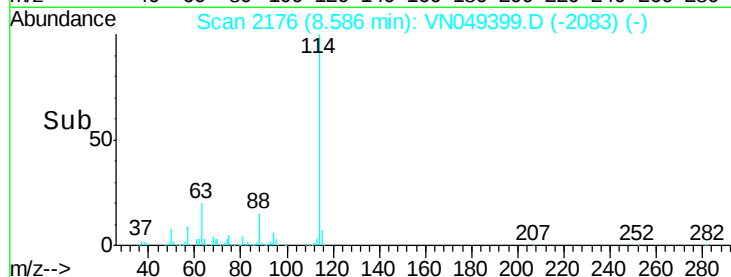
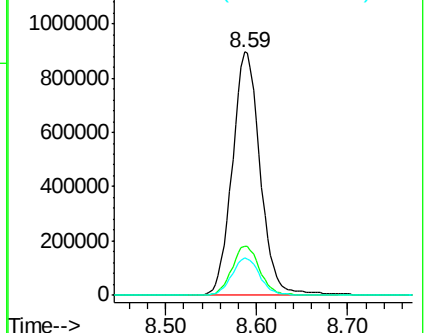
88 15.3 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 46.26 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN049399.D

Acq: 19 Jun 2018 21:13

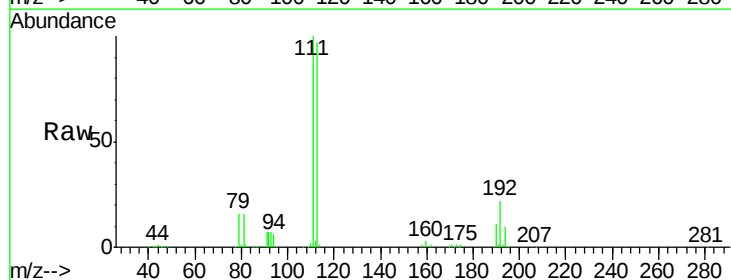
Tgt Ion:113 Resp: 715689

Ion Ratio Lower Upper

113 100

111 103.3 82.4 123.6

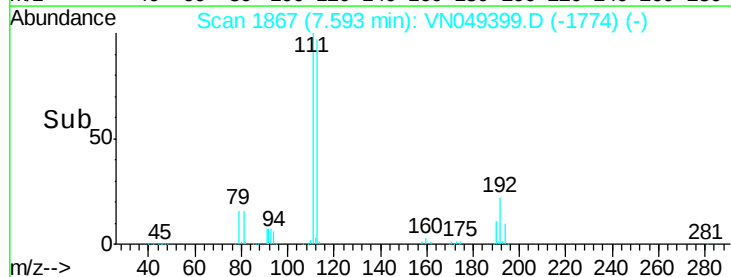
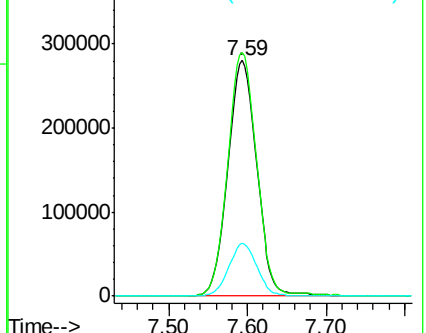
192 22.0 15.0 22.6

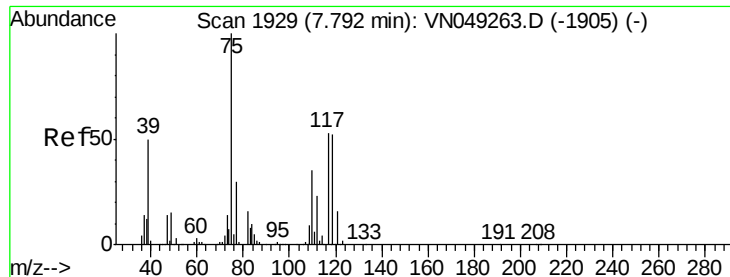


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.76 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049399.D

Acq: 19 Jun 2018 21:13

Instrument :

MSVOA_N

ClientSampleId :

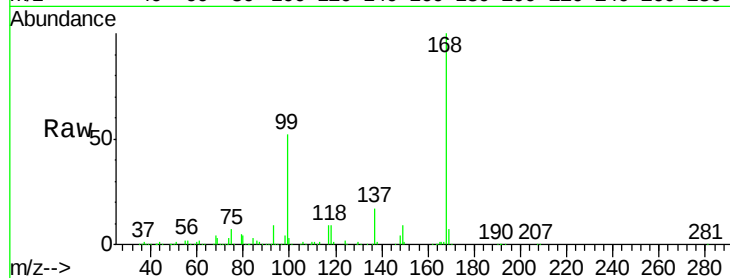
Tot Ion: 75 Resp: 82398

Ion Ratio Lower Upper

75 100

110 9.0 17.0 50.9#

77 0.0 24.4 36.6#

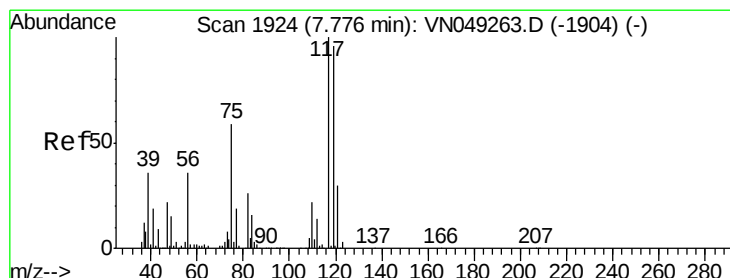
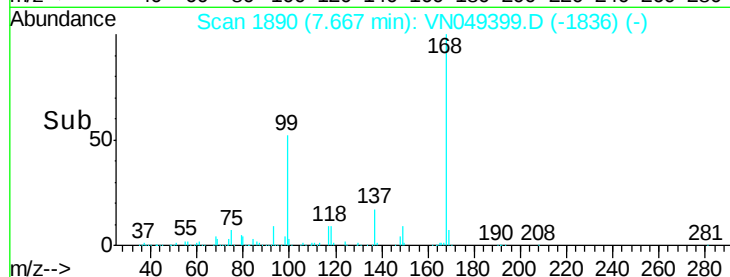


Abundance Ion 74.90 (74.60 to 75.60): VN049399.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049399.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049399.D (-1836) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.70 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049399.D

Acq: 19 Jun 2018 21:13

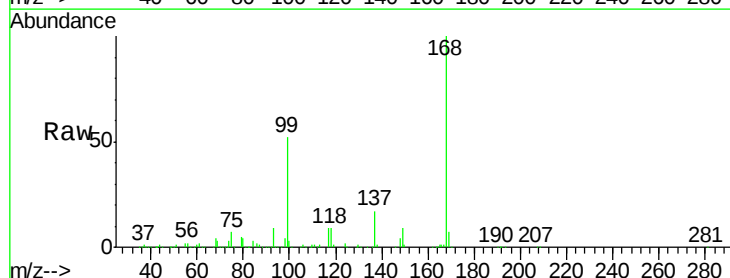
Tgt Ion: 117 Resp: 106621

Ion Ratio Lower Upper

117 100

119 7.4 75.6 113.4#

121 0.0 24.7 37.1#

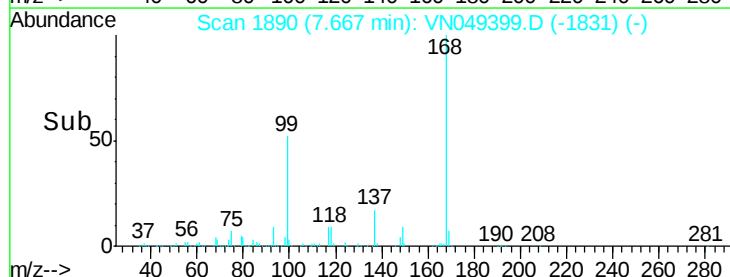


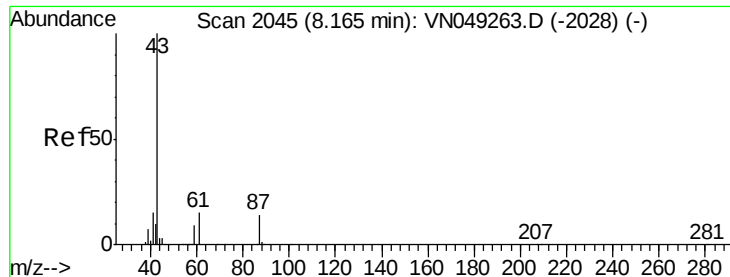
Abundance Ion 116.80 (116.50 to 117.50): VN049399.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN049399.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049399.D (-1831) (-)

Time-->



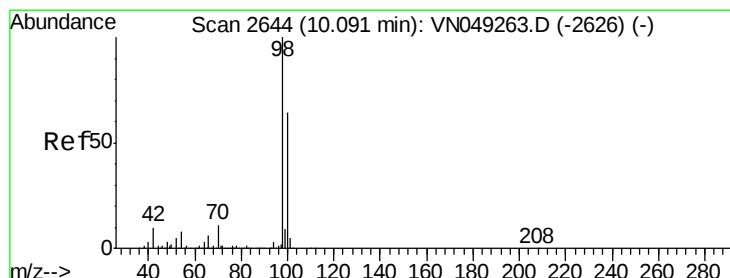
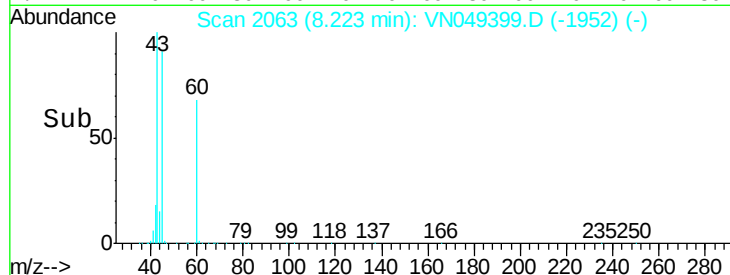
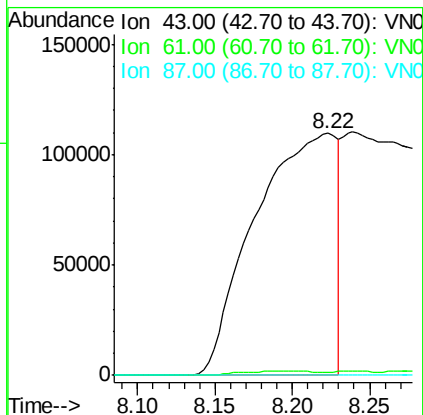
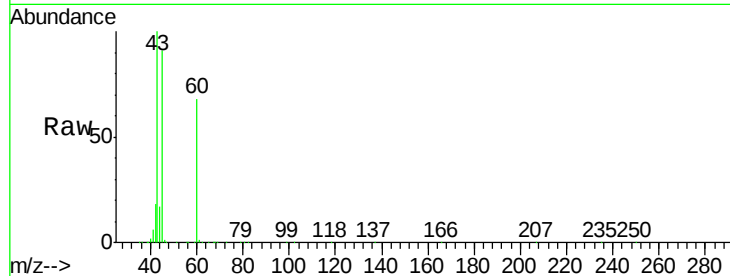


#43

Isopropyl Acetate
 Concen: 17.56 ug/l
 RT: 8.22 min Scan# 2063
 Delta R.T. 0.06 min
 Lab File: VN049399.D
 Acq: 19 Jun 2018 21:13

Instrument :
 MSVOA_N
 ClientSampled :

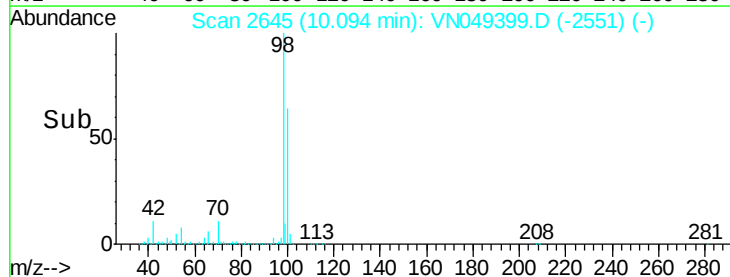
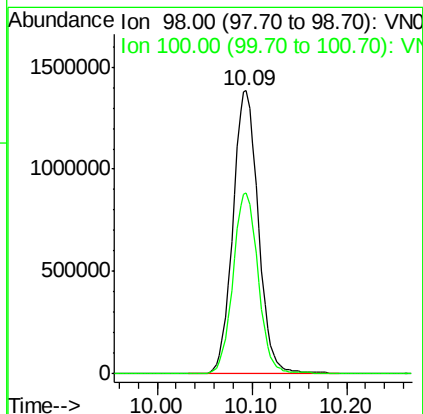
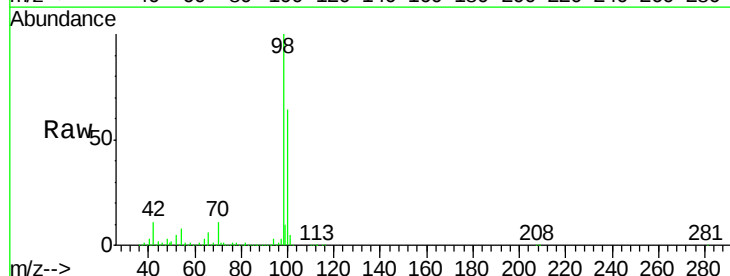
Tot Ion: 43 Resp: 399702
 Ion Ratio Lower Upper
 43 100
 61 0.2 14.2 21.4#
 87 0.0 9.4 14.0#

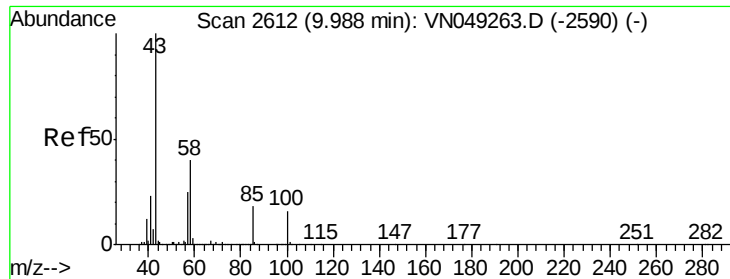


#50

Toluene-d8
 Concen: 43.85 ug/l
 RT: 10.09 min Scan# 2645
 Delta R.T. 0.00 min
 Lab File: VN049399.D
 Acq: 19 Jun 2018 21:13

Tgt Ion: 98 Resp: 2582889
 Ion Ratio Lower Upper
 98 100
 100 63.6 49.8 74.8

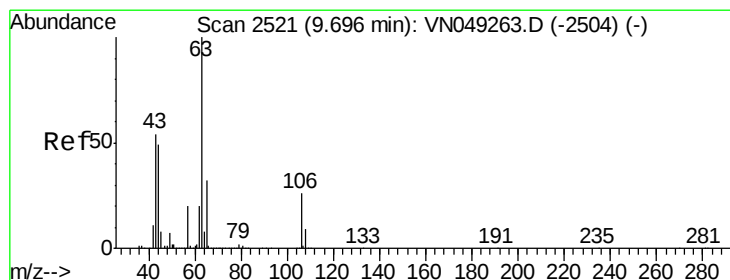
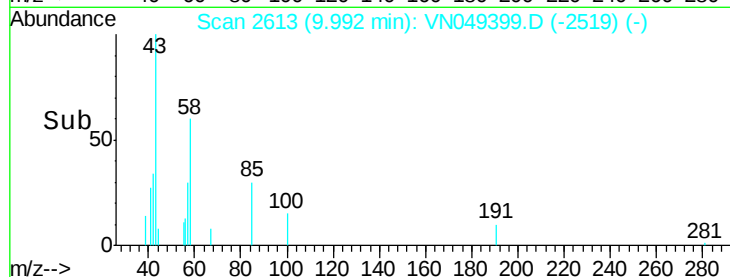
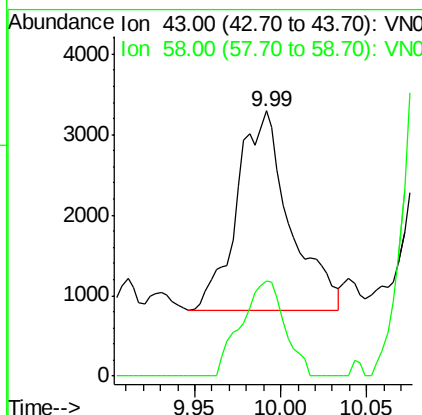
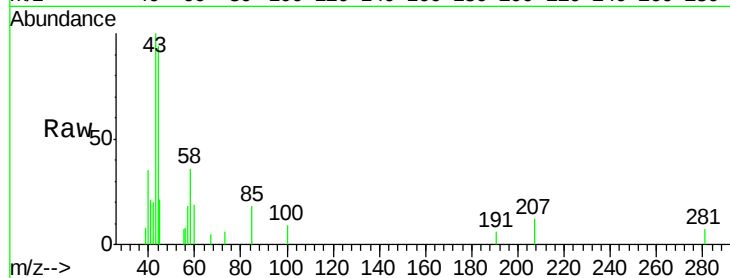




#51
 4-Methyl-2-Pentanone
 Concen: 0.44 ug/l
 RT: 9.99 min Scan# 2613
 Delta R.T. 0.00 min
 Lab File: VN049399.D
 Acq: 19 Jun 2018 21:13

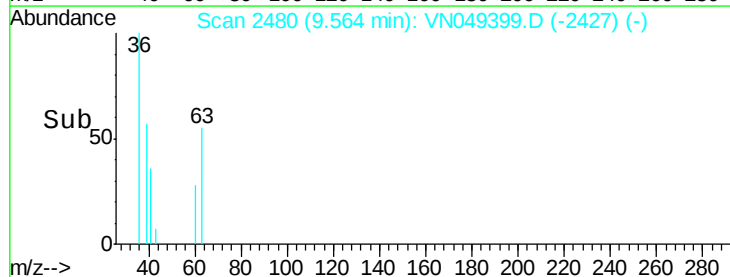
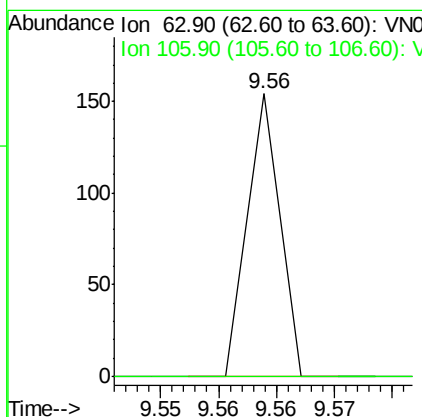
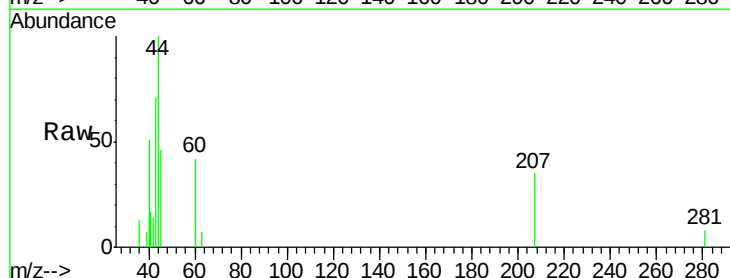
Instrument :
 MSVOA_N
 ClientSampled :

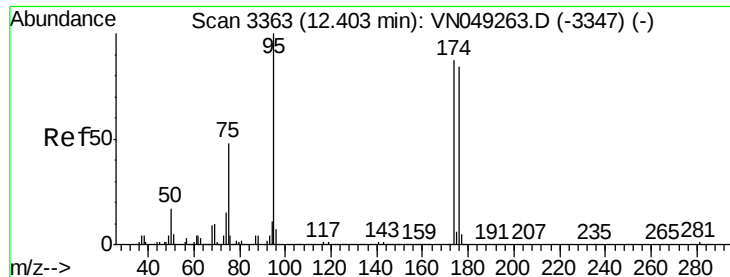
Tot Ion: 43 Resp: 5249
 Ion Ratio Lower Upper
 43 100
 58 39.7 29.0 43.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 14.33 ug/l
 RT: 9.56 min Scan# 2480
 Delta R.T. -0.13 min
 Lab File: VN049399.D
 Acq: 19 Jun 2018 21:13

Tgt Ion: 63 Resp: 30
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.4 29.2#

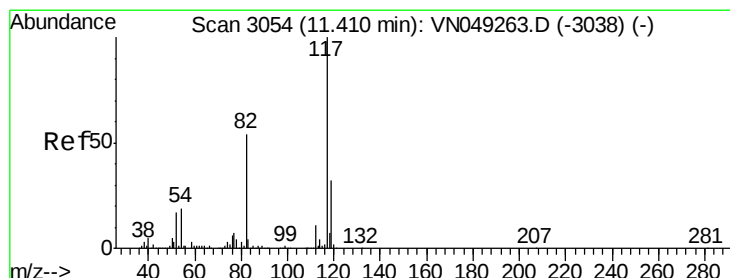
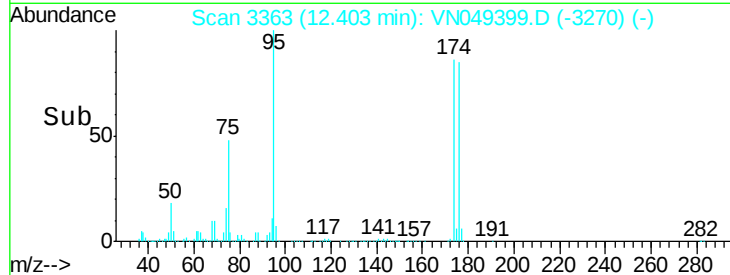
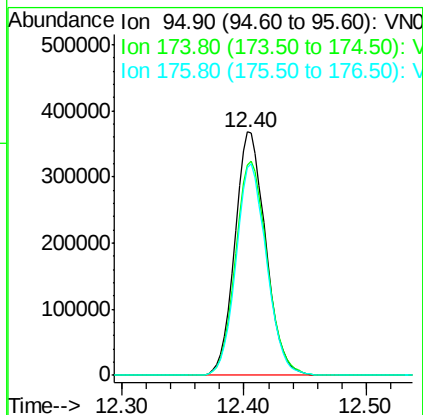
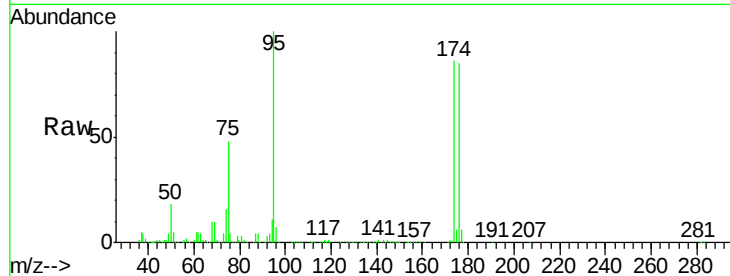




#62
4-Bromofluorobenzene
Concen: 33.05 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN049399.D
Acq: 19 Jun 2018 21:13

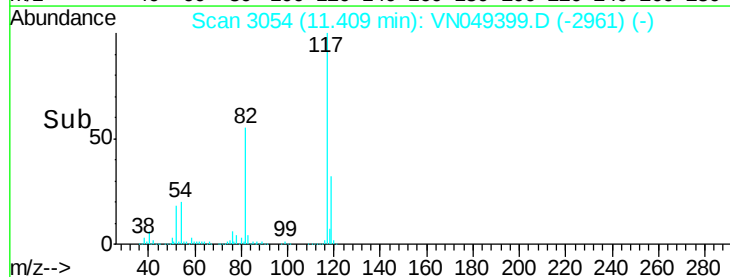
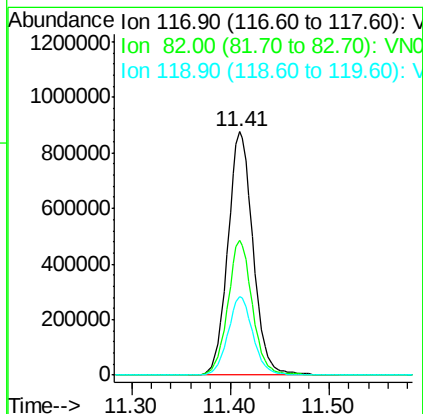
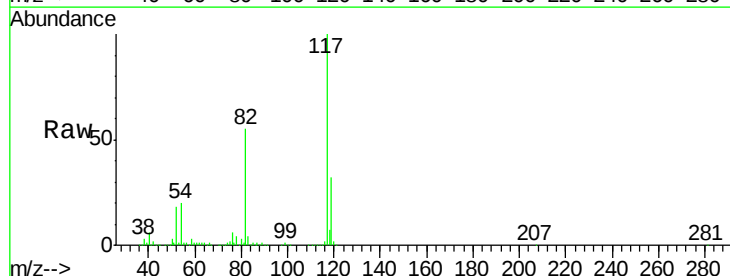
Instrument :
MSVOA_N
ClientSampleId :

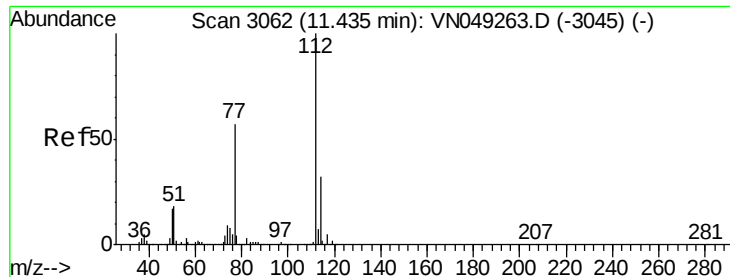
Tot Ion: 95 Resp: 643775
Ion Ratio Lower Upper
95 100
174 90.1 0.0 165.6
176 86.0 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049399.D
Acq: 19 Jun 2018 21:13

Tgt Ion: 117 Resp: 1560891
Ion Ratio Lower Upper
117 100
82 55.2 45.9 68.9
119 32.4 25.5 38.3





#65

Chlorobenzene

Concen: 0.52 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN049399.D

Acq: 19 Jun 2018 21:13

Instrument :

MSVOA_N

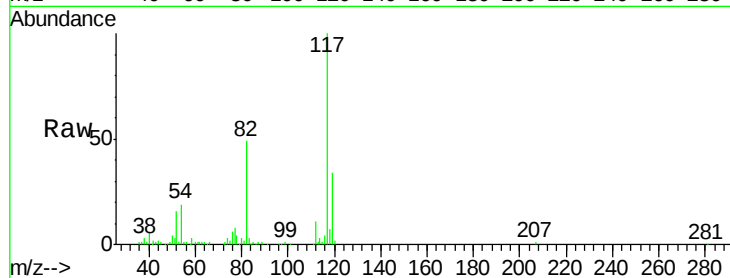
ClientSampled :

Tot Ion:112 Resp: 20817

Ion Ratio Lower Upper

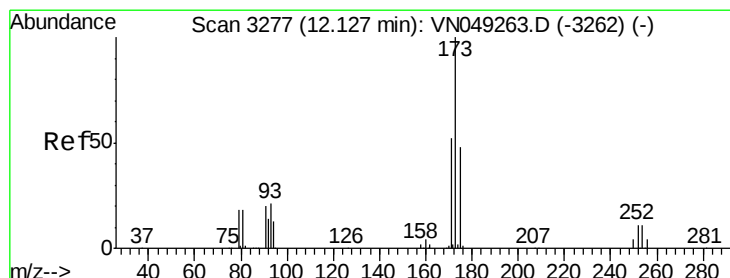
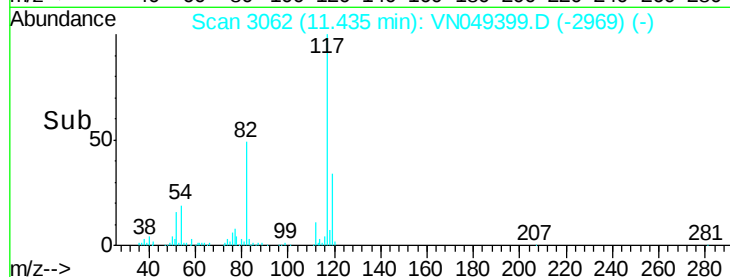
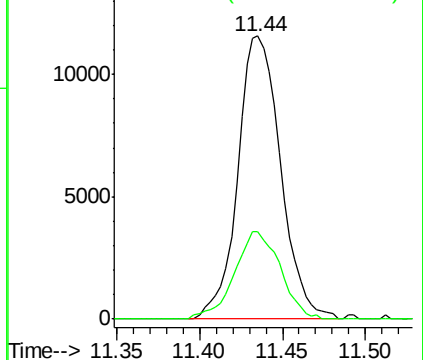
112 100

114 30.8 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#71

Bromoform

Concen: 0.20 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN049399.D

Acq: 19 Jun 2018 21:13

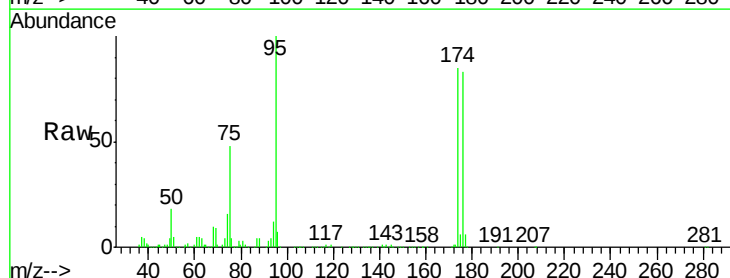
Tgt Ion:173 Resp: 2003

Ion Ratio Lower Upper

173 100

175 0.0 24.5 73.5#

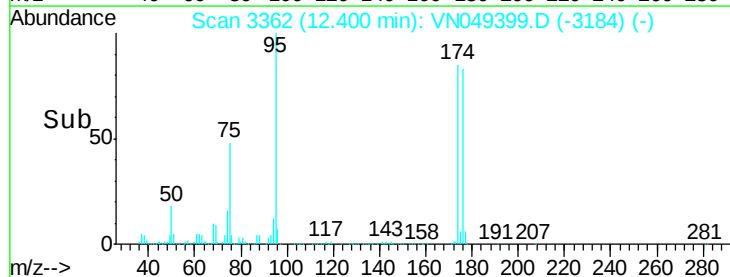
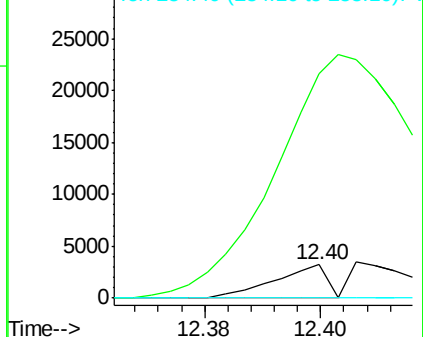
254 0.0 0.1 0.1#

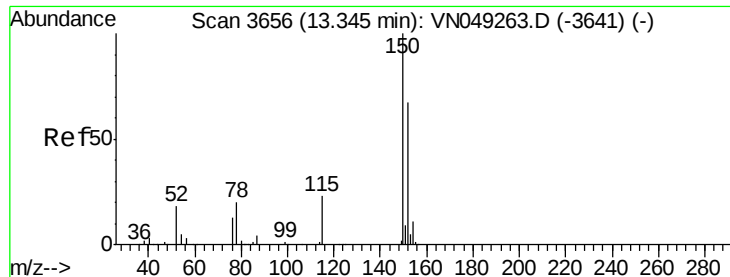


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN049399.D

Acq: 19 Jun 2018 21:13

Instrument :

MSVOA_N

ClientSampleId :

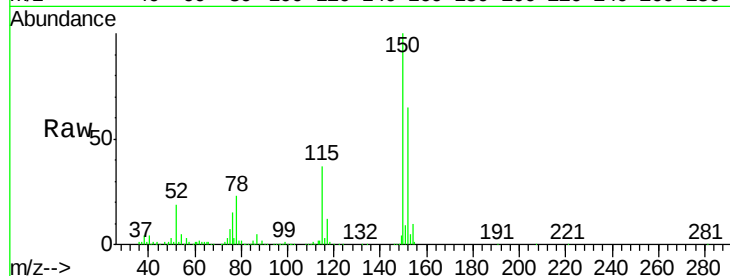
Tot Ion:152 Resp: 439282

Ion Ratio Lower Upper

152 100

115 56.4 28.7 86.1

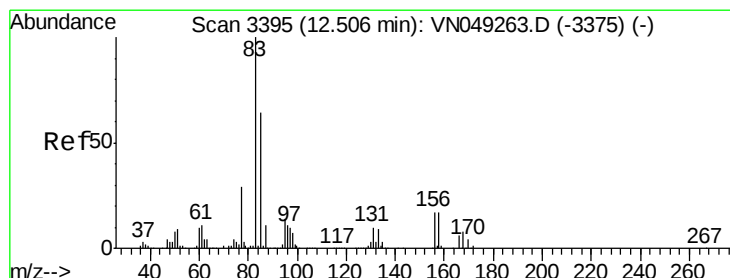
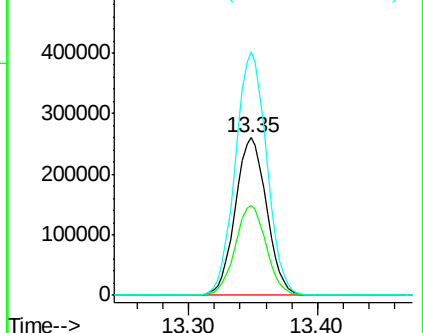
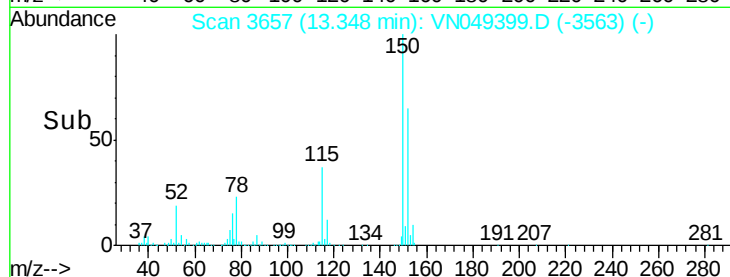
150 154.7 0.0 351.0



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: 12.56 min Scan# 3413

Delta R.T. 0.06 min

Lab File: VN049399.D

Acq: 19 Jun 2018 21:13

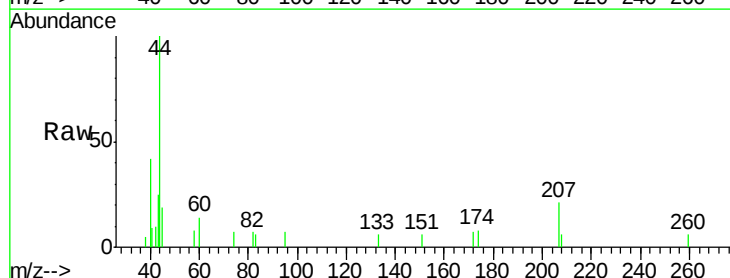
Tgt Ion: 83 Resp: 64

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

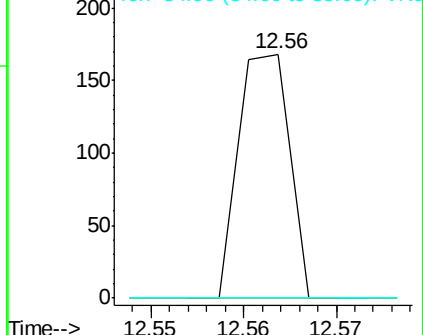
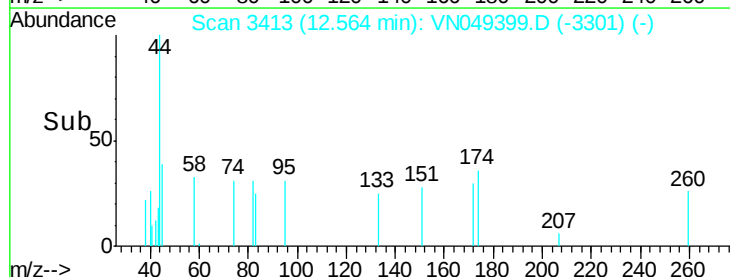
85 0.0 32.0 96.0#

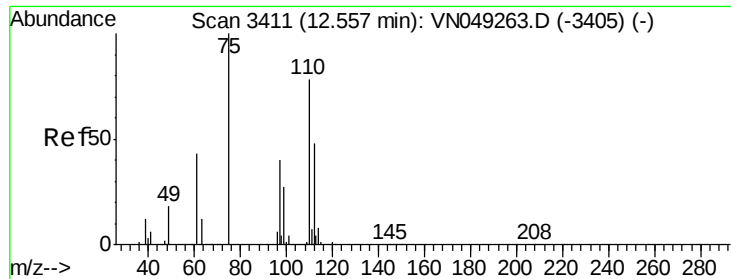


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0

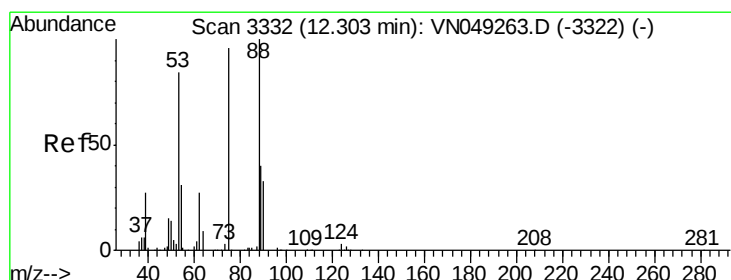
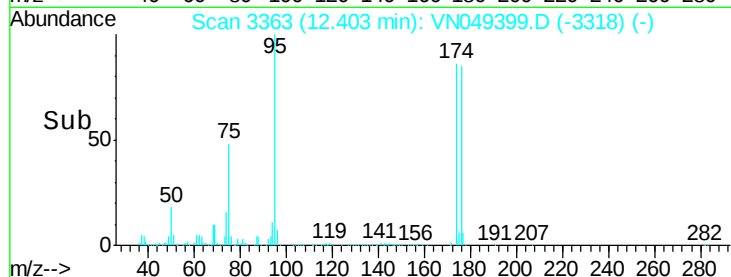
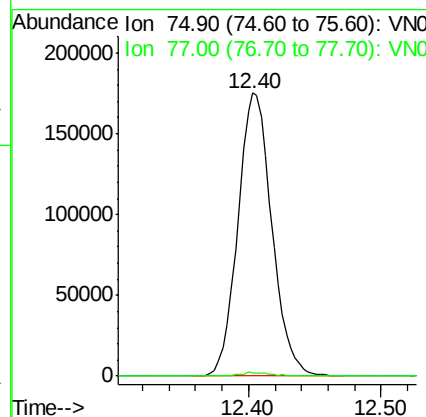
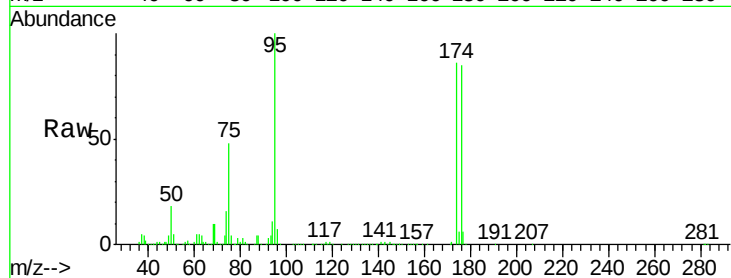




#76
 1,2,3-Trichloropropane
 Concen: 41.53 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049399.D
 Acq: 19 Jun 2018 21:13

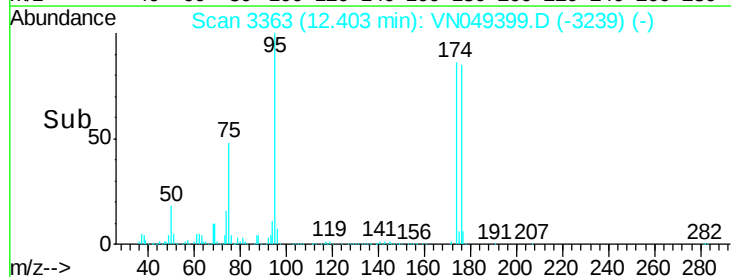
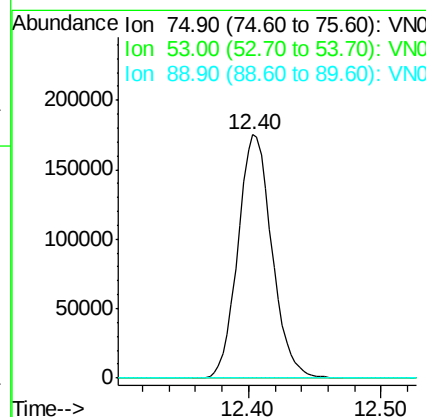
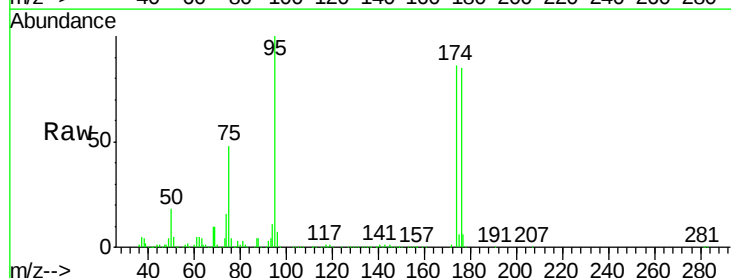
Instrument :
 MSVOA_N
 ClientSampleId :

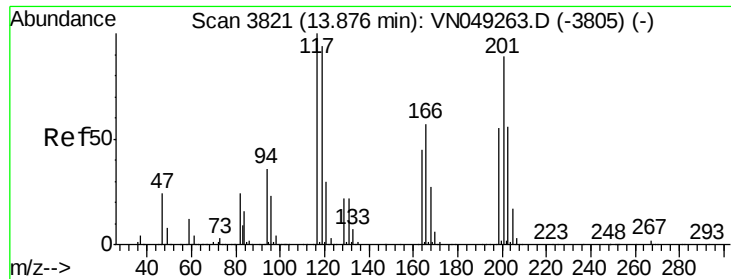
Tot Ion: 75 Resp: 311288
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 131.26 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN049399.D
 Acq: 19 Jun 2018 21:13

Tgt Ion: 75 Resp: 311288
 Ion Ratio Lower Upper
 75 100
 53 0.2 82.7 124.1#
 89 0.1 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.80 min Scan# 3798

Delta R.T. -0.07 min

Lab File: VN049399.D

Acq: 19 Jun 2018 21:13

Instrument :

MSVOA_N

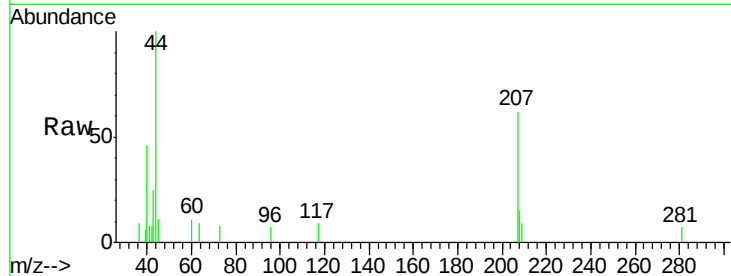
ClientSampleId :

Tot Ion:117 Resp: 117

Ion Ratio Lower Upper

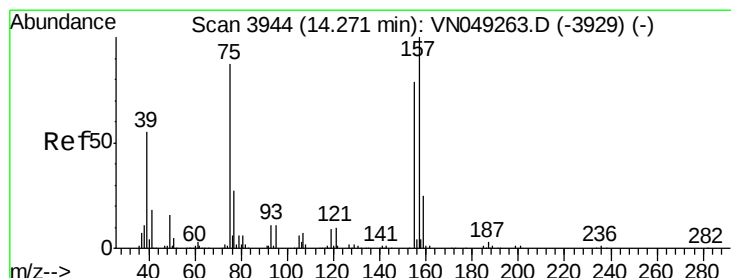
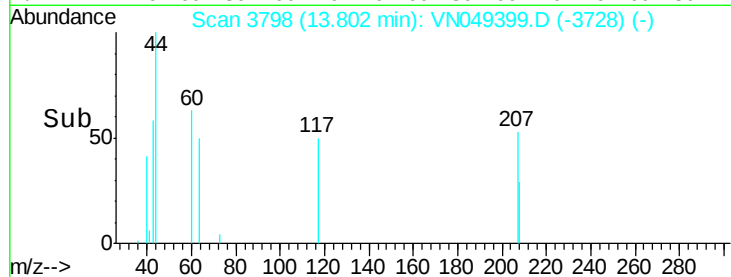
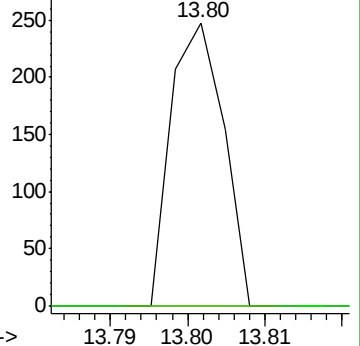
117 100

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: 0.38 ug/l

RT: 14.26 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VN049399.D

Acq: 19 Jun 2018 21:13

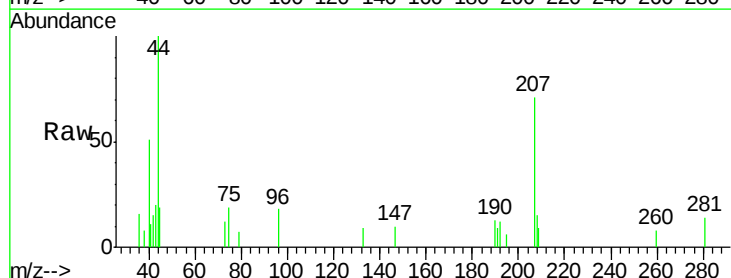
Tgt Ion: 75 Resp: 514

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

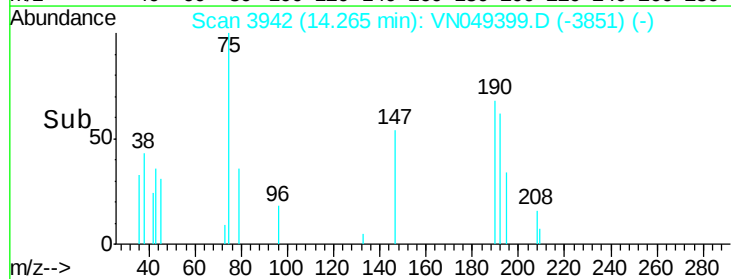
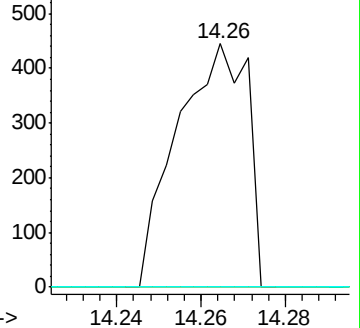
157 0.0 51.0 153.1#

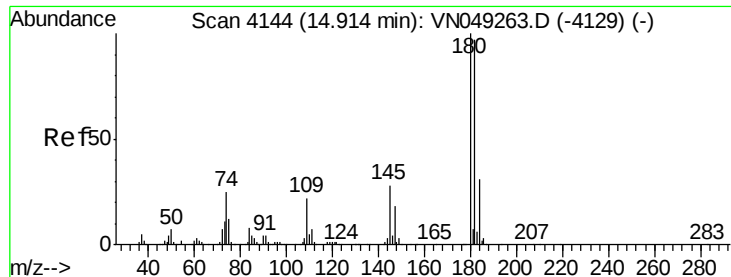


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

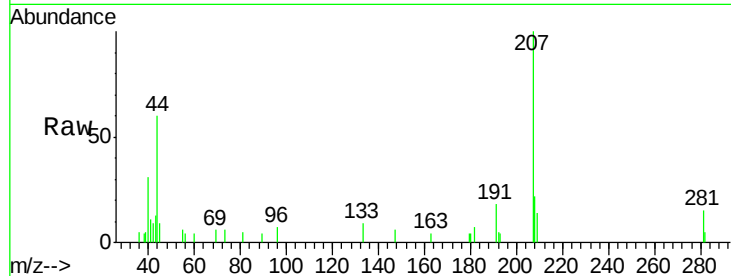




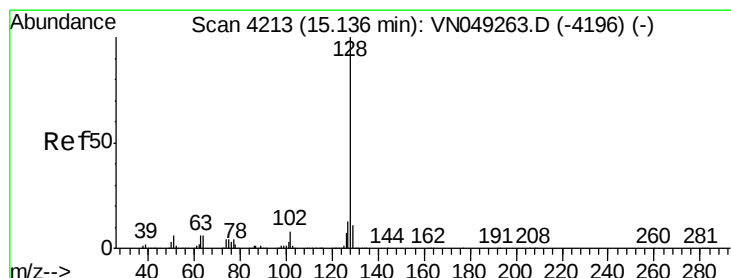
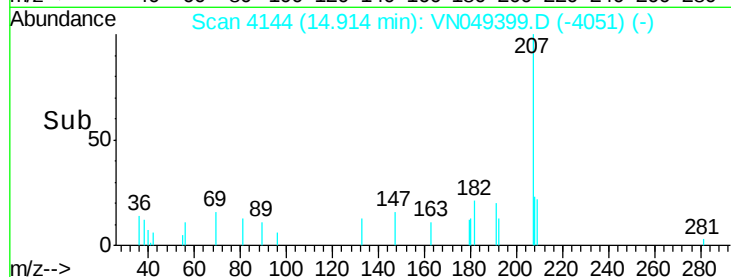
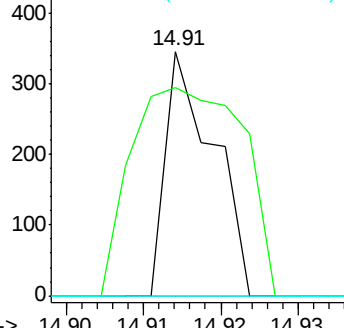
#93
 1,2,4-Trichlorobenzene
 Concen: 4.76 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049399.D
 Acq: 19 Jun 2018 21:13

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 149
 Ion Ratio Lower Upper
 180 100
 182 198.7 46.9 140.8#
 145 0.0 14.7 44.1#

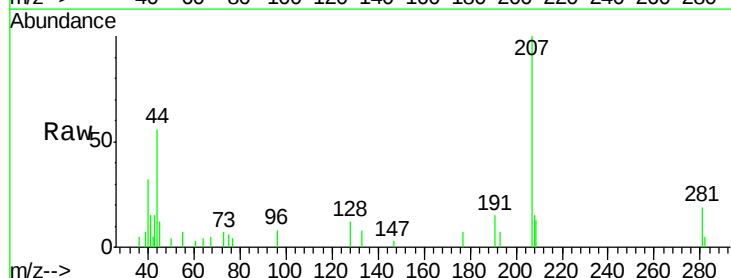


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

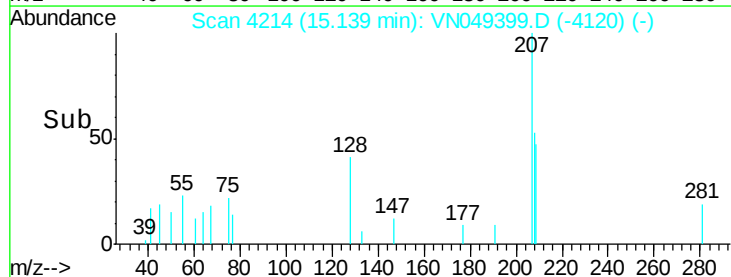
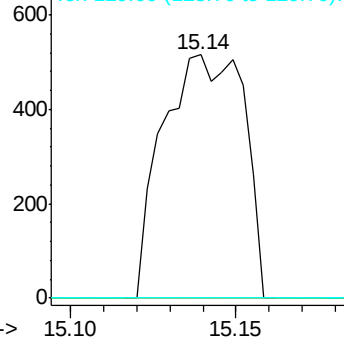


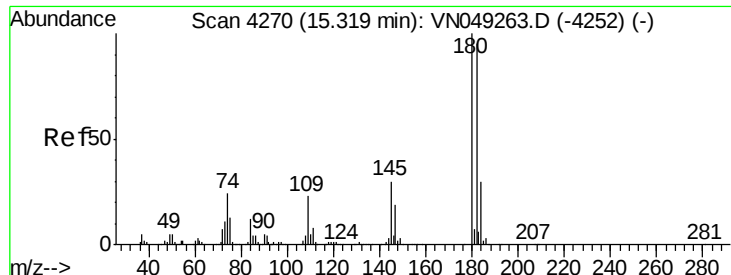
#95
 Naphthalene
 Concen: 2.15 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049399.D
 Acq: 19 Jun 2018 21:13

Tgt Ion:128 Resp: 879
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

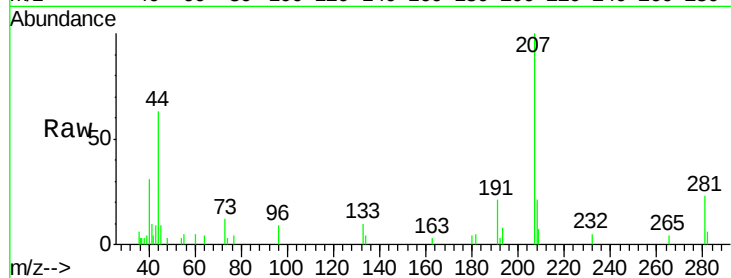




#96
 1,2,3-Trichlorobenzene
 Concen: 3.47 ug/l
 RT: 15.31 min Scan# 4268
 Delta R.T. -0.01 min
 Lab File: VN049399.D
 Acq: 19 Jun 2018 21:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	161.3	47.3	141.8#
145	0.0	15.6	46.7#



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

