

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061818\
 Data File : VN049353.D
 Acq On : 18 Jun 2018 19:31
 Operator : MD\SY
 Sample : PB110313ZHE#18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 19 01:34:54 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	1262451	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2030283	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1651168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	528396	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	844307	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
35) Dibromofluoromethane	7.59	113	757054	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
50) Toluene-d8	10.09	98	2740258	43.81	ug/l	0.00
Spiked Amount			Recovery	=	87.62%	
62) 4-Bromofluorobenzene	12.41	95	729109	35.26	ug/l	0.00
Spiked Amount			Recovery	=	70.52%	

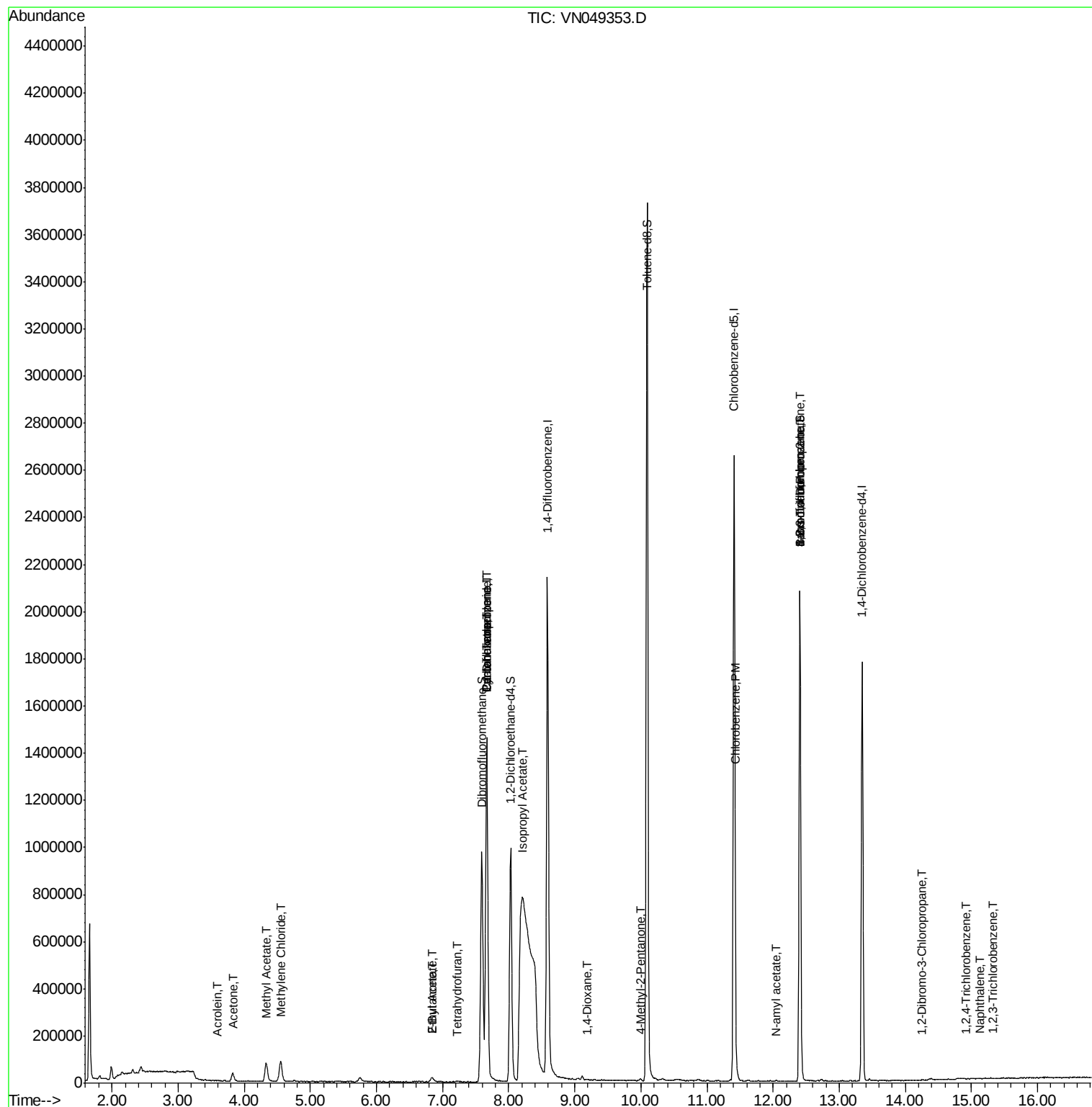
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	295	0.29	ug/l #	79
16) Acetone	3.82	43	56650	13.93	ug/l	92
18) Methyl Acetate	4.33	43	153333	12.37	ug/l	95
20) Methylene Chloride	4.55	84	66987	3.95	ug/l	93
25) 2-Butanone	6.85	43	8824	1.62	ug/l #	86
29) Tetrahydrofuran	7.21	42	835	0.24	ug/l #	36
31) Cyclohexane	7.67	56	22573	0.74	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	85836	3.69	ug/l #	50
37) Ethyl Acetate	6.85	43	8824	0.70	ug/l #	75
38) Carbon Tetrachloride	7.67	117	111706	4.64	ug/l #	17
43) Isopropyl Acetate	8.20	43	1953701	80.83	ug/l #	65
49) 1,4-Dioxane	9.19	88	288	1.83	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	6777	0.53	ug/l	88
65) Chlorobenzene	11.44	112	23505	0.55	ug/l	99
71) Bromoform	12.40	173	4663	0.45	ug/l #	1
74) N-amyl acetate	12.04	43	3507	0.31	ug/l #	55
75) 1,1,2,2-Tetrachloroethane	12.49	83	62	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	356164	39.50	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	356164	124.86	ug/l #	8
90) Hexachloroethane	13.99	117	65	Below Cal	#	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	919	0.57	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.92	180	123	4.76	ug/l #	64
95) Naphthalene	15.14	128	1351	2.17	ug/l #	76
96) 1,2,3-Trichlorobenzene	15.32	180	75	3.47	ug/l #	47

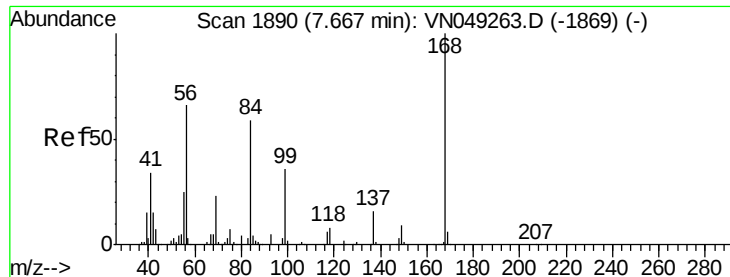
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN049353.D

Acq: 18 Jun 2018 19:31

Instrument :

MSVOA_N

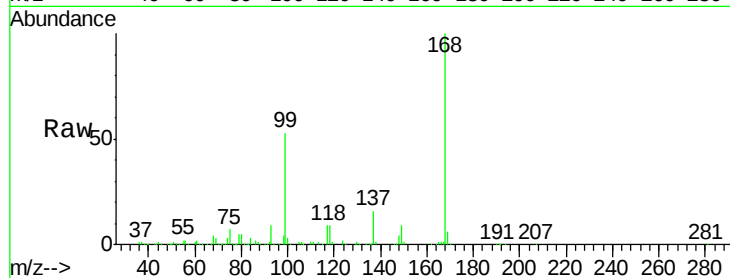
ClientSampleId :

Tot Ion:168 Resp: 1262451

Ion Ratio Lower Upper

168 100

99 53.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049353.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049353.D (-1797) (-)

7.67

600000

500000

400000

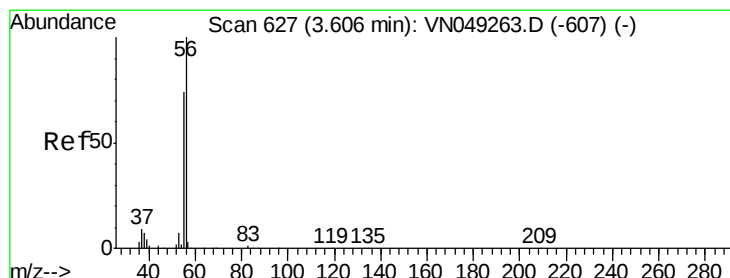
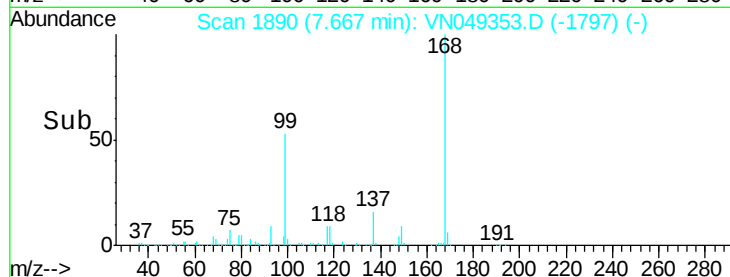
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#13

Acrolein

Concen: 0.29 ug/l

RT: 3.60 min Scan# 624

Delta R.T. -0.01 min

Lab File: VN049353.D

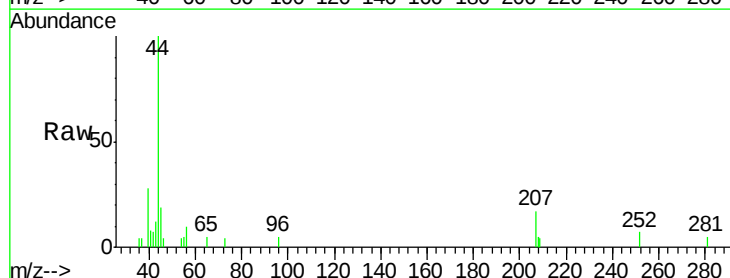
Acq: 18 Jun 2018 19:31

Tgt Ion: 56 Resp: 295

Ion Ratio Lower Upper

56 100

55 88.5 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN049353.D (-534) (-)

Ion 55.00 (54.70 to 55.70): VN049353.D (-534) (-)

3.60

500

400

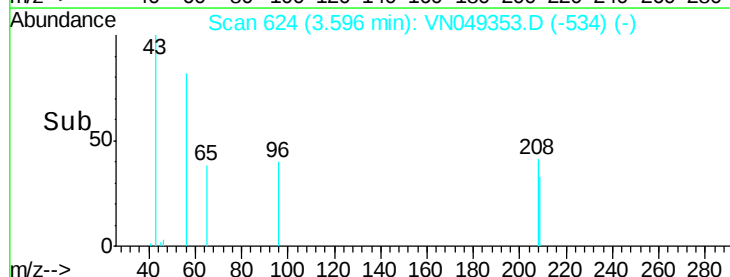
300

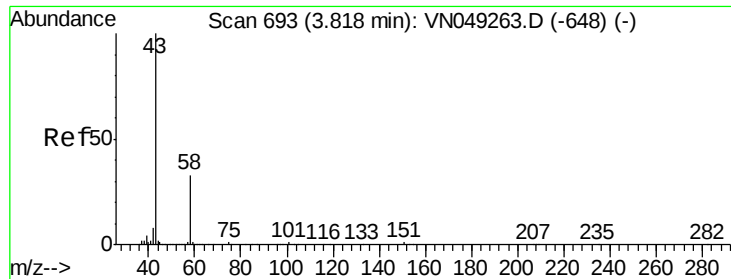
200

100

0

Time--> 3.58 3.59 3.60 3.61





#16

Acetone

Concen: 13.93 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

Instrument :

MSVOA_N

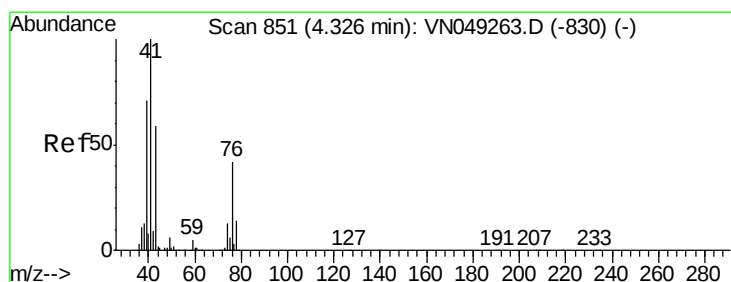
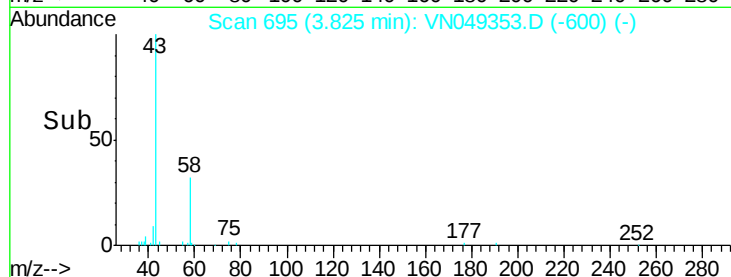
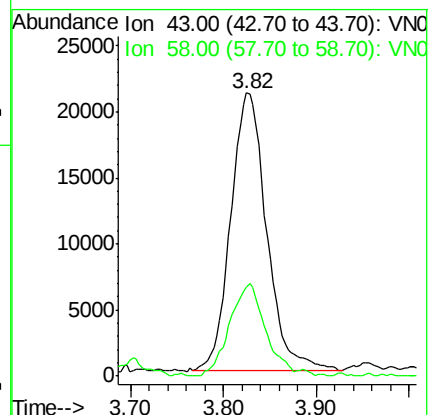
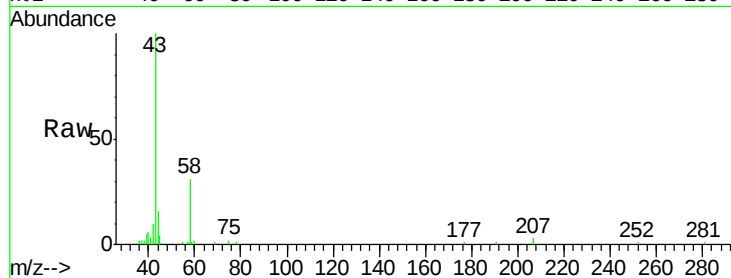
ClientSampleId :

Tot Ion: 43 Resp: 56650

Ion Ratio Lower Upper

43 100

58 32.1 22.4 33.6



#18

Methyl Acetate

Concen: 12.37 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049353.D

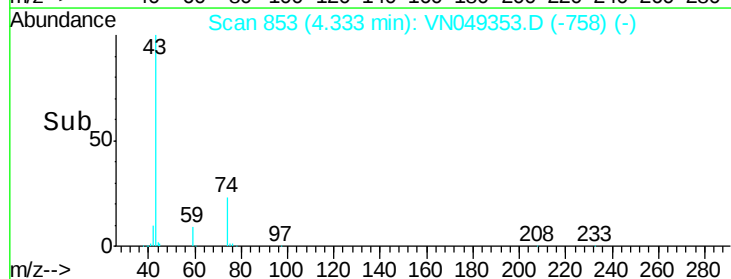
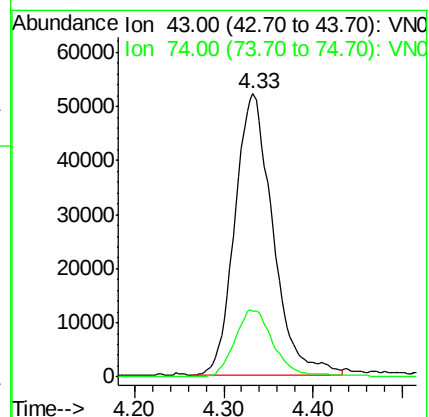
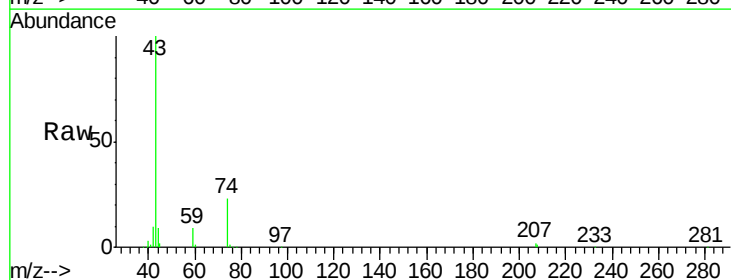
Acq: 18 Jun 2018 19:31

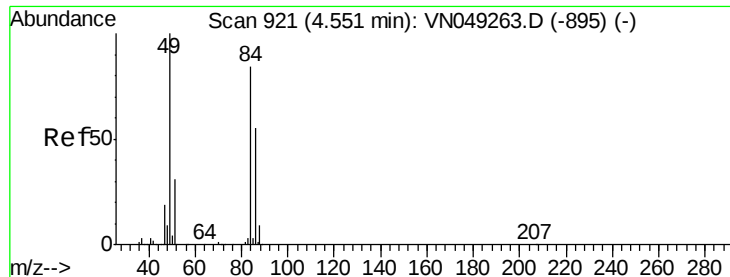
Tgt Ion: 43 Resp: 153333

Ion Ratio Lower Upper

43 100

74 23.9 17.4 26.0

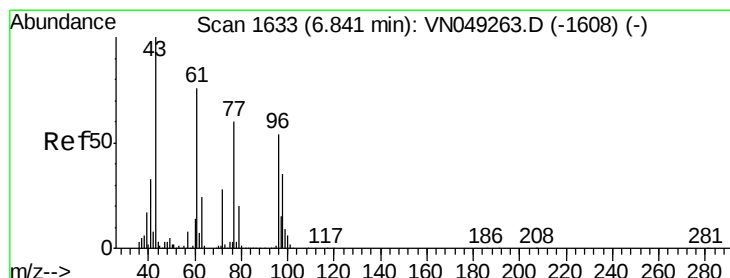
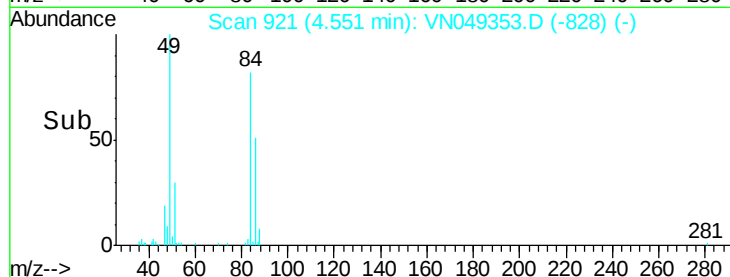
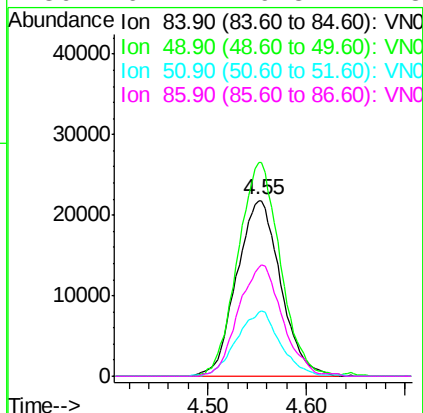
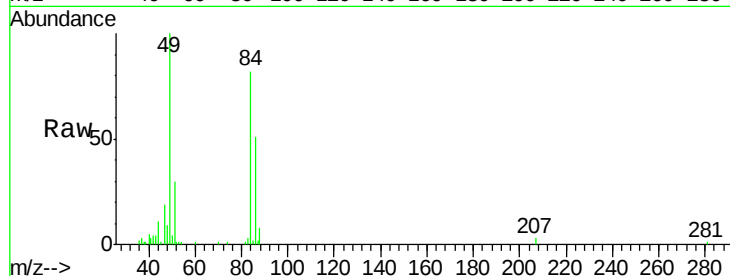




#20
Methvlene Chloride
Concen: 3.95 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049353.D
Acq: 18 Jun 2018 19:31

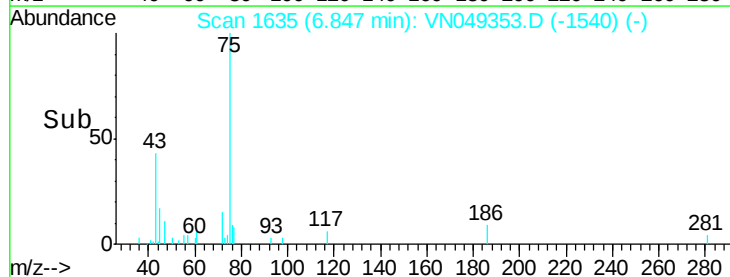
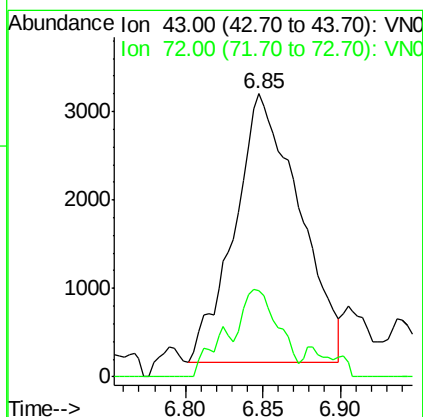
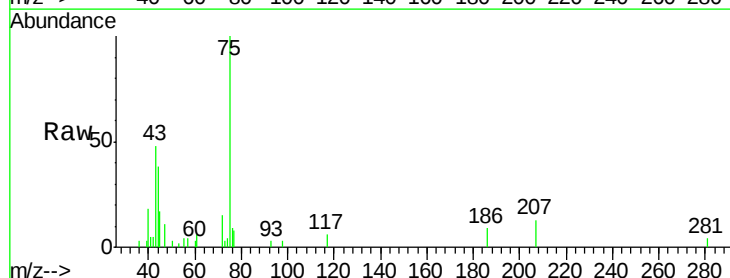
Instrument :
MSVOA_N
ClientSampleId :

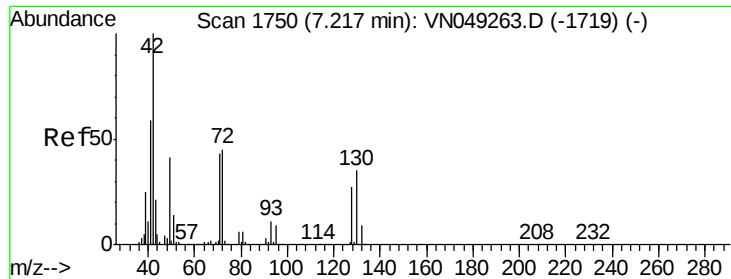
Tot Ion: 84 Resp: 66987
Ion Ratio Lower Upper
84 100
49 121.6 106.9 160.3
51 36.1 32.7 49.1
86 62.1 49.8 74.8



#25
2-Butanone
Concen: 1.62 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN049353.D
Acq: 18 Jun 2018 19:31

Tgt Ion: 43 Resp: 8824
Ion Ratio Lower Upper
43 100
72 32.1 20.2 30.2#

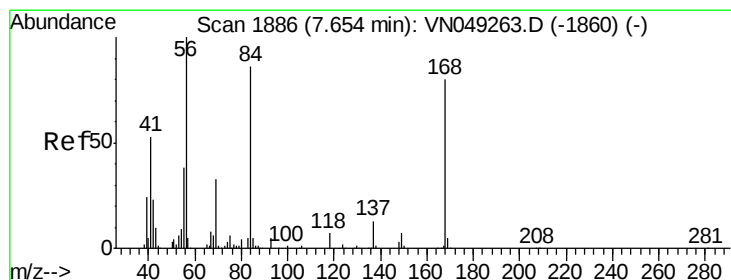
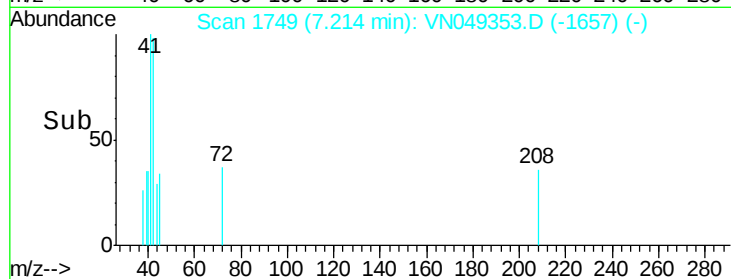
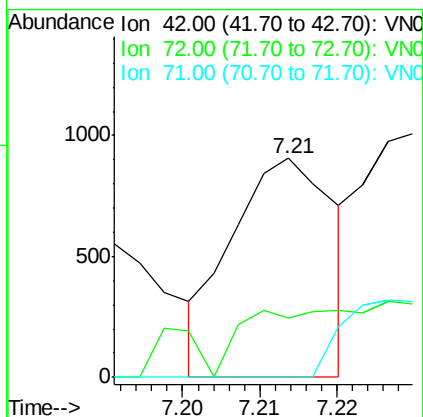
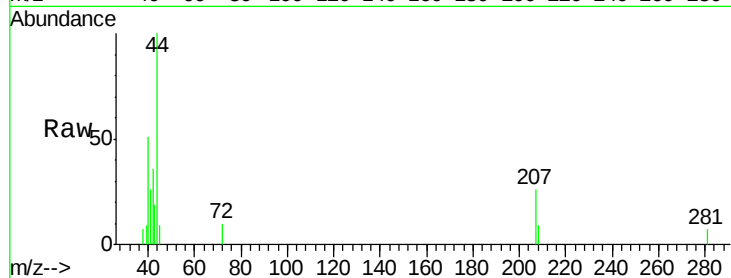




#29
Tetrahydrofuran
Concen: 0.24 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN049353.D
Acq: 18 Jun 2018 19:31

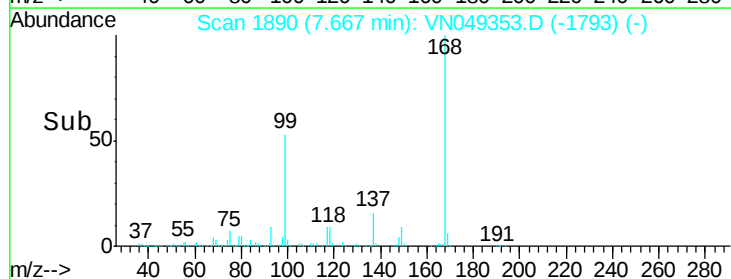
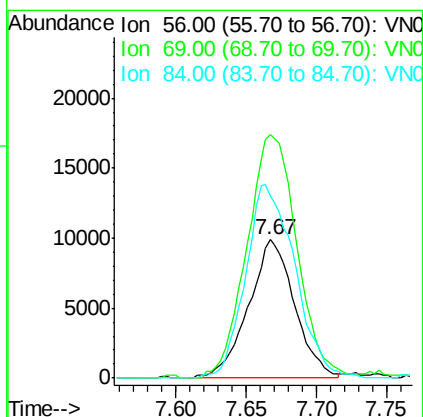
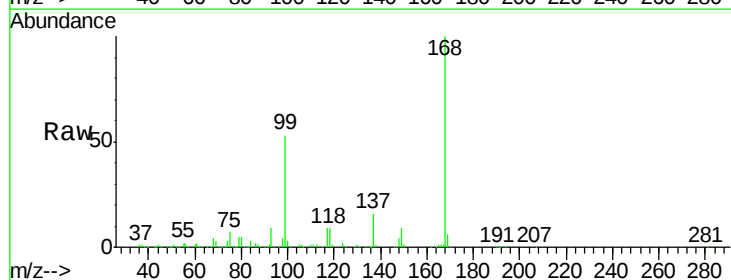
Instrument :
MSVOA_N
ClientSampled :

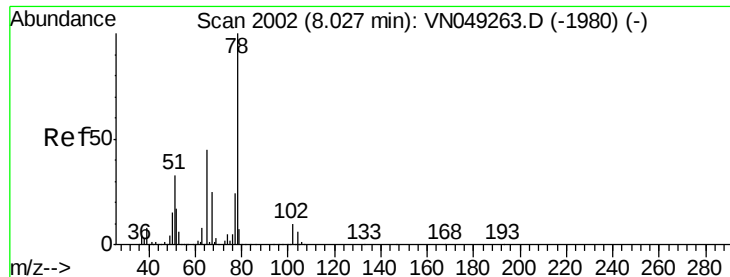
Tot Ion: 42 Resp: 835
Ion Ratio Lower Upper
42 100
72 0.0 32.2 48.4#
71 0.0 30.5 45.7#



#31
Cyclohexane
Concen: 0.74 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049353.D
Acq: 18 Jun 2018 19:31

Tgt Ion: 56 Resp: 22573
Ion Ratio Lower Upper
56 100
69 176.0 25.0 37.4#
84 131.8 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 50.42 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

Instrument :

MSVOA_N

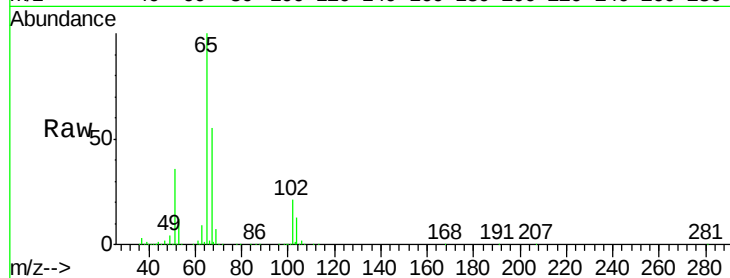
ClientSampleId :

Tot Ion: 65 Resp: 844307

Ion Ratio Lower Upper

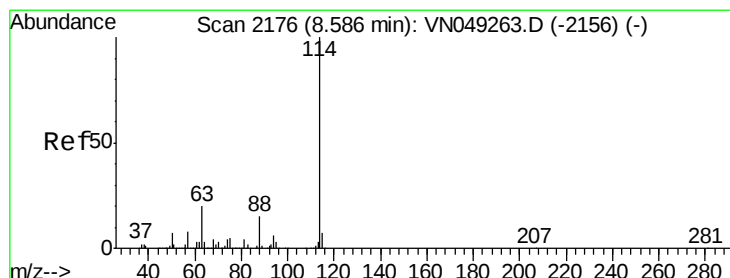
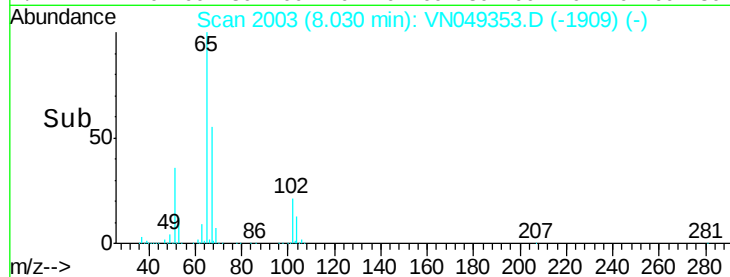
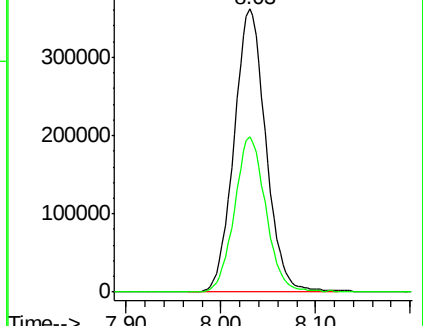
65 100

67 54.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049353.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049353.D (-1909) (-)



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

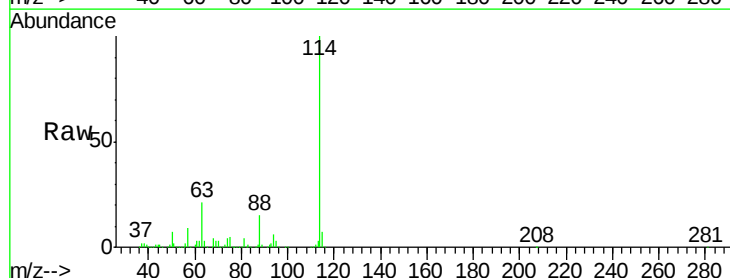
Tgt Ion: 114 Resp: 2030283

Ion Ratio Lower Upper

114 100

63 20.5 0.0 44.4

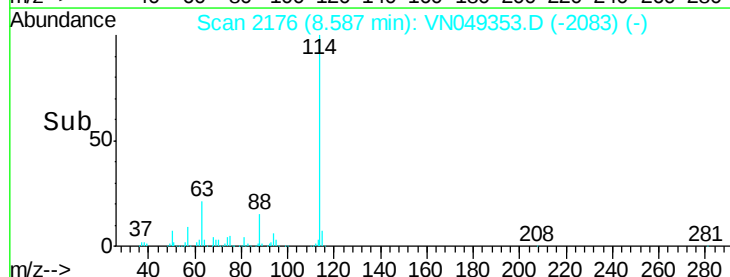
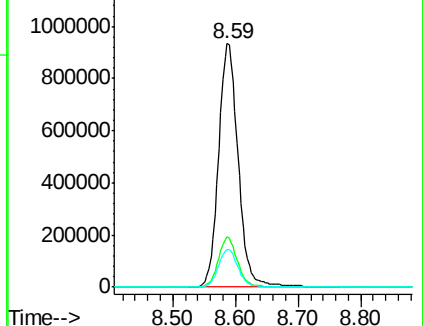
88 15.5 0.0 31.4

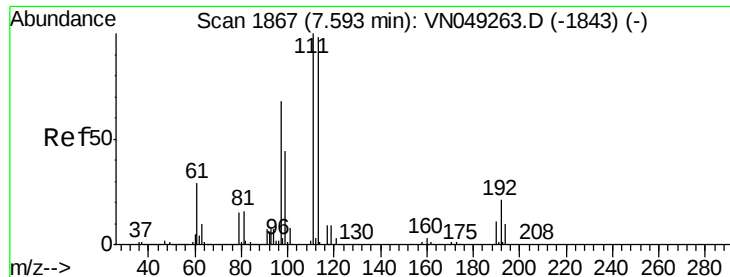


Abundance Ion 113.90 (113.60 to 114.60): VN049353.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049353.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049353.D (-2083) (-)





#35

Dibromofluoromethane

Concen: 46.09 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

Instrument :
MSVOA_N
ClientSampleId :

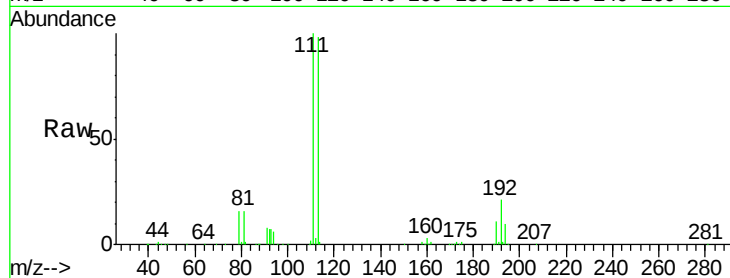
Tot Ion:113 Resp: 757054

Ion Ratio Lower Upper

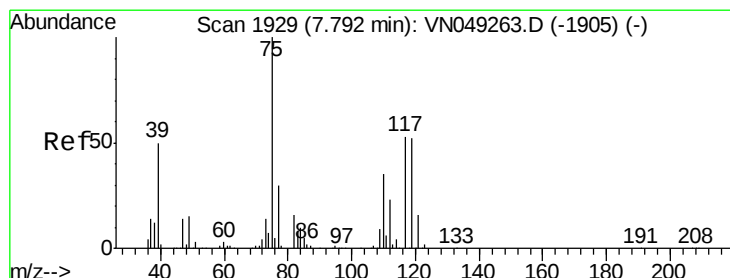
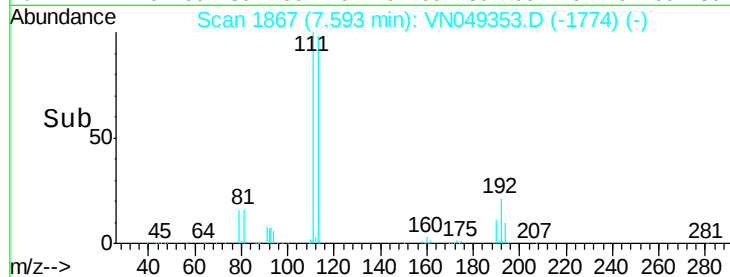
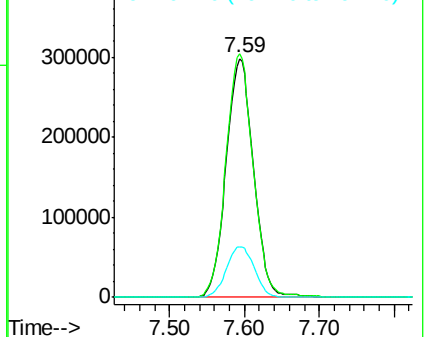
113 100

111 101.7 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: 3.69 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.12 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

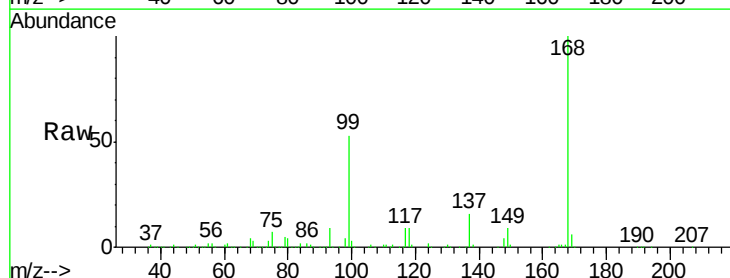
Tgt Ion: 75 Resp: 85836

Ion Ratio Lower Upper

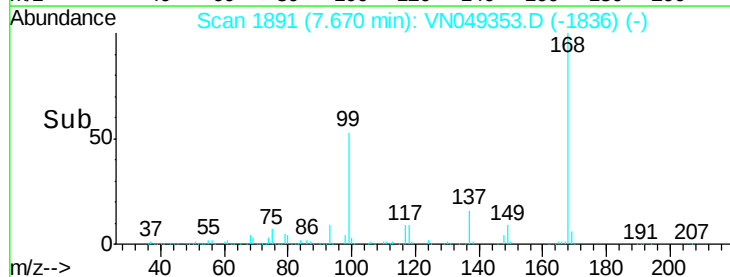
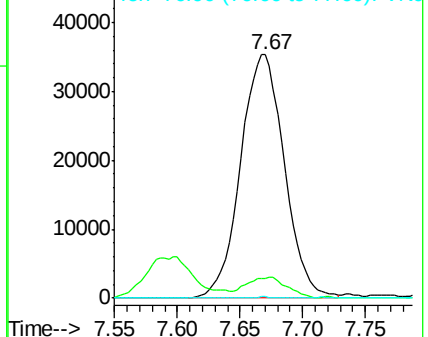
75 100

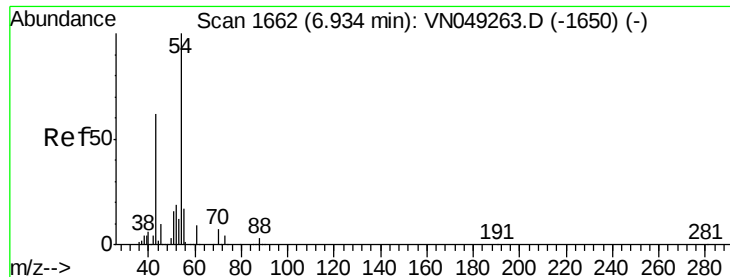
110 8.0 17.0 50.9#

77 0.1 24.4 36.6#



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

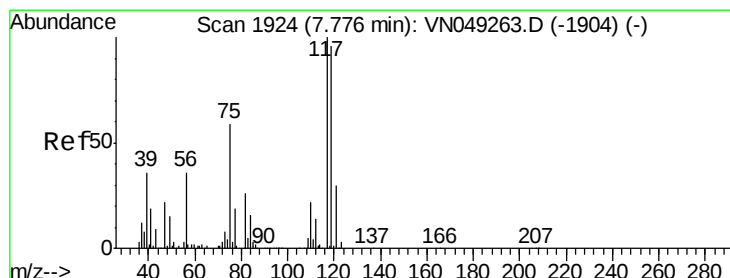
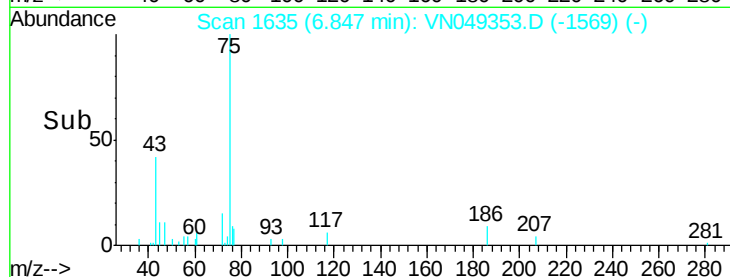
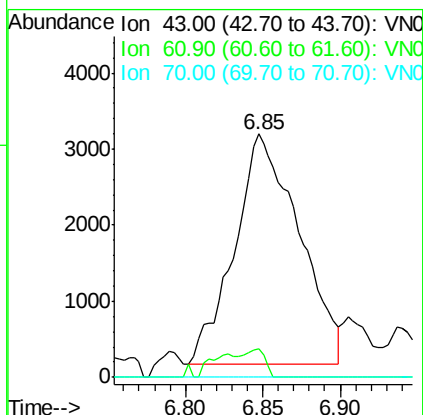
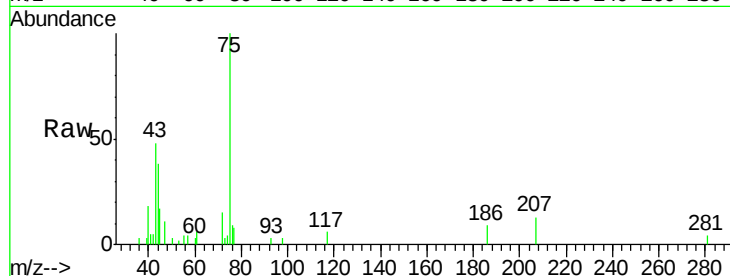




#37
Ethyl Acetate
Concen: 0.70 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. -0.09 min
Lab File: VN049353.D
Acq: 18 Jun 2018 19:31

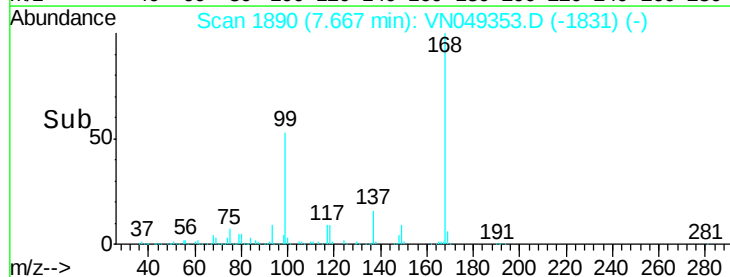
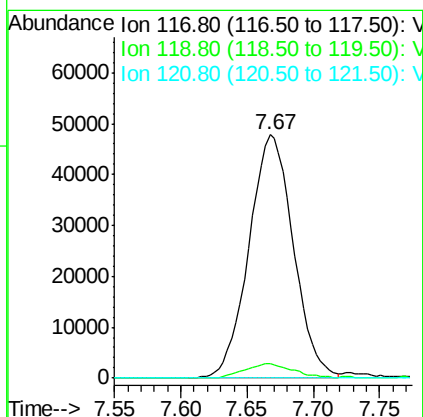
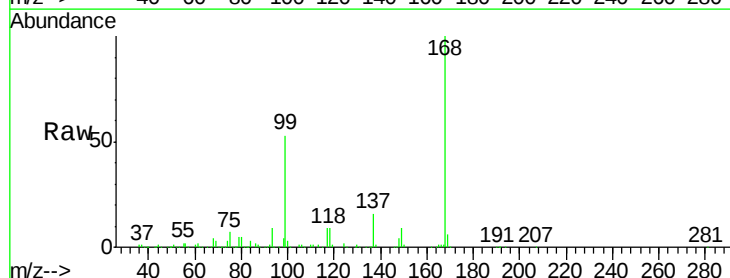
Instrument :
MSVOA_N
ClientSampleId :

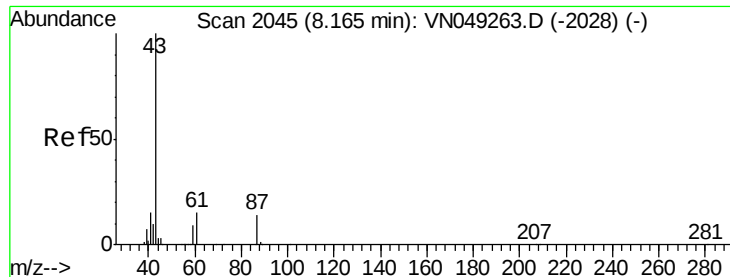
Tot Ion: 43 Resp: 8824
Ion Ratio Lower Upper
43 100
61 3.3 11.0 16.4#
70 0.0 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 4.64 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049353.D
Acq: 18 Jun 2018 19:31

Tgt Ion: 117 Resp: 111706
Ion Ratio Lower Upper
117 100
119 5.9 75.6 113.4#
121 0.0 24.7 37.1#



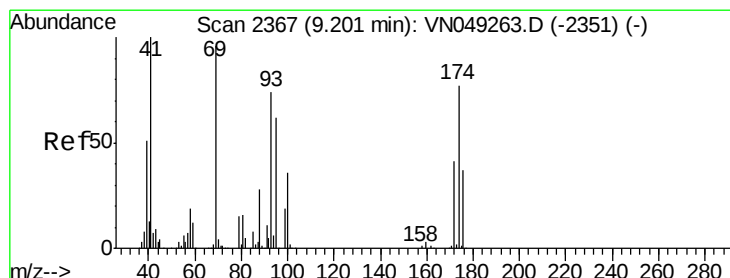
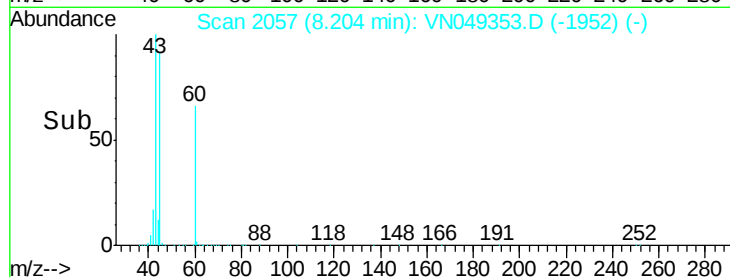
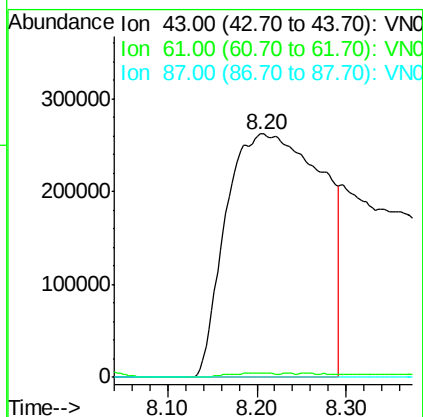
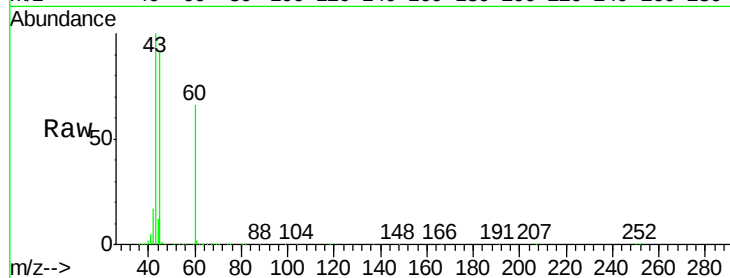


#43

Isopropyl Acetate
 Concen: 80.83 ug/l
 RT: 8.20 min Scan# 2057
 Delta R.T. 0.04 min
 Lab File: VN049353.D
 Acq: 18 Jun 2018 19:31

Instrument :
 MSVOA_N
 ClientSampleId :

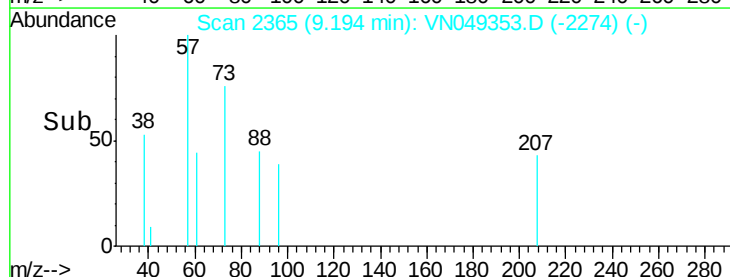
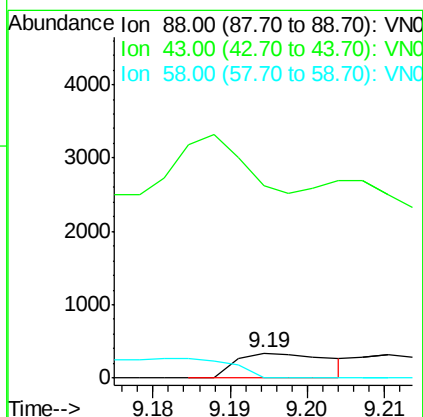
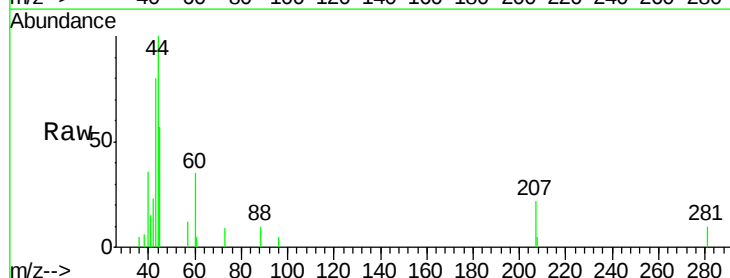
Tot Ion: 43 Resp: 1953701
 Ion Ratio Lower Upper
 43 100
 61 0.9 14.2 21.4#
 87 0.0 9.4 14.0#

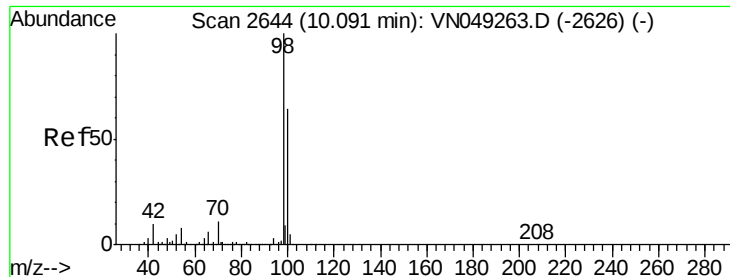


#49

1,4-Dioxane
 Concen: 1.83 ug/l
 RT: 9.19 min Scan# 2365
 Delta R.T. -0.01 min
 Lab File: VN049353.D
 Acq: 18 Jun 2018 19:31

Tgt Ion: 88 Resp: 288
 Ion Ratio Lower Upper
 88 100
 43 158.3 30.9 46.3#
 58 139.2 58.9 88.3#

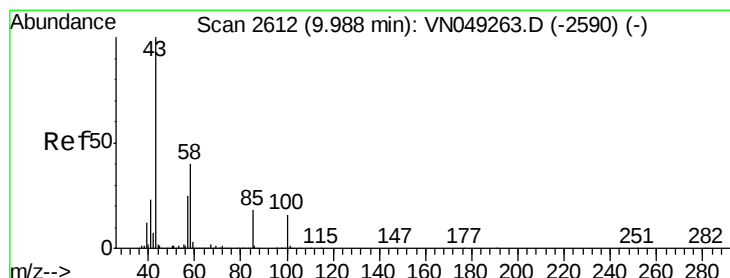
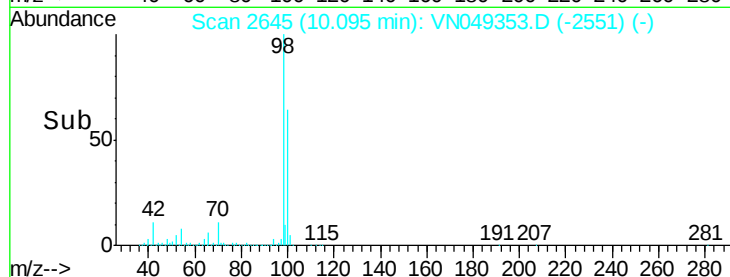
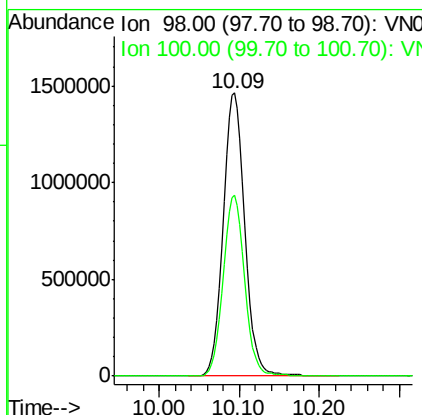
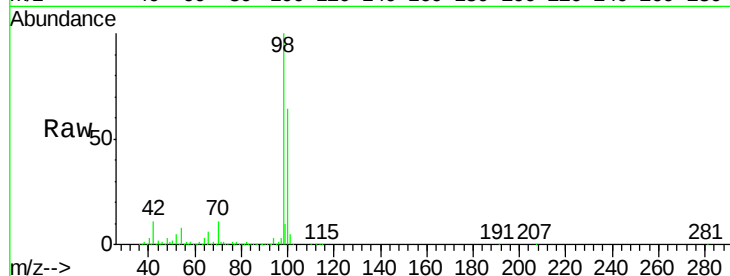




#50
Toluene-d8
Concen: 43.81 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049353.D
Acq: 18 Jun 2018 19:31

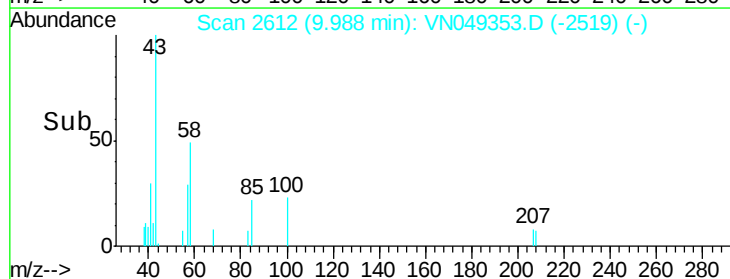
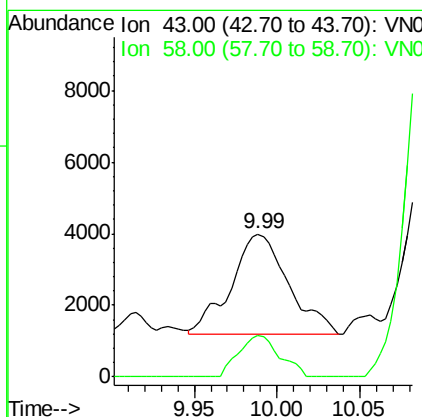
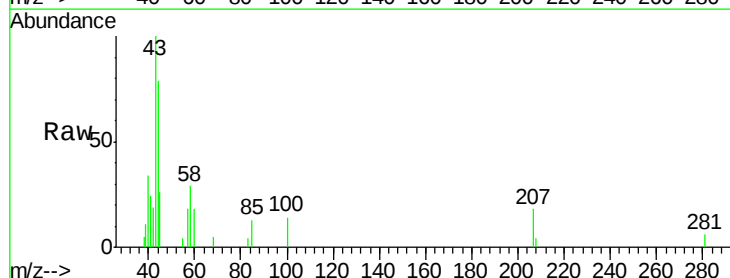
Instrument :
MSVOA_N
ClientSampled :

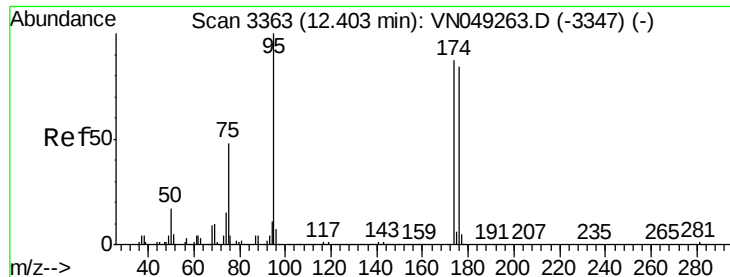
Tot Ion: 98 Resp: 2740258
Ion Ratio Lower Upper
98 100
100 63.4 49.8 74.8



#51
4-Methyl-2-Pentanone
Concen: 0.53 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049353.D
Acq: 18 Jun 2018 19:31

Tgt Ion: 43 Resp: 6777
Ion Ratio Lower Upper
43 100
58 29.2 29.0 43.6

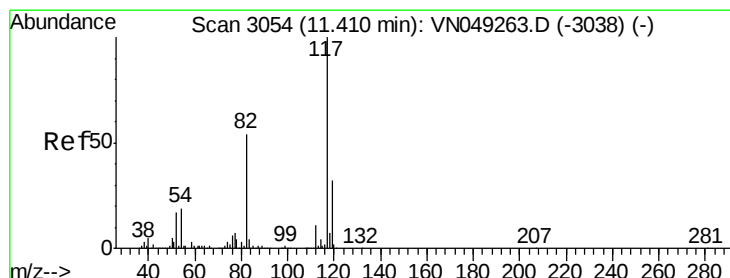
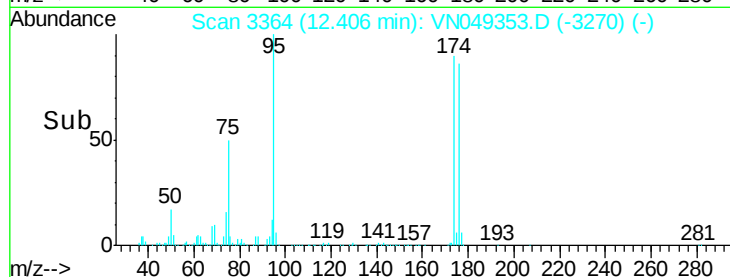
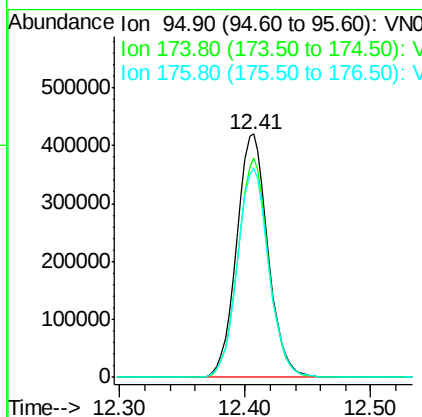
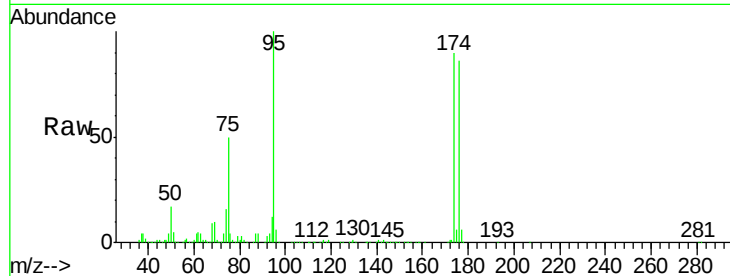




#62
4-Bromofluorobenzene
Concen: 35.26 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN049353.D
Acq: 18 Jun 2018 19:31

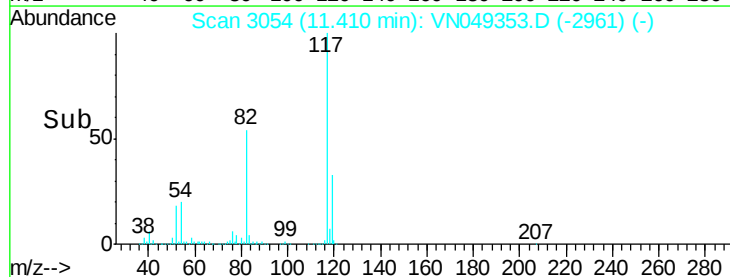
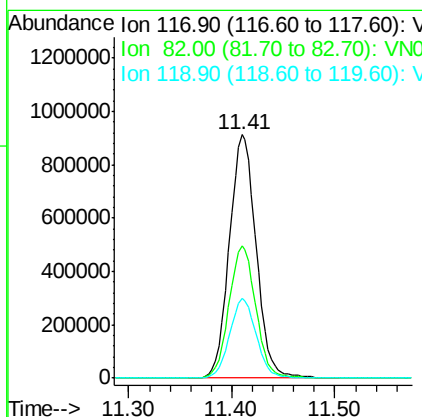
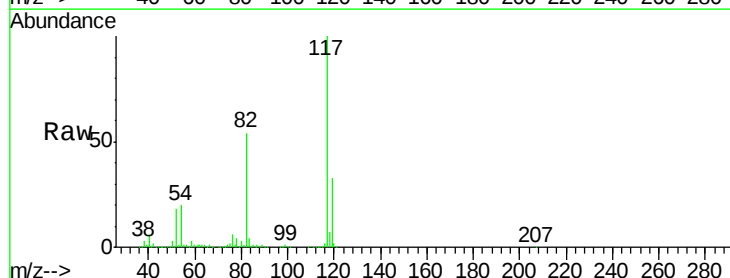
Instrument :
MSVOA_N
ClientSampled :

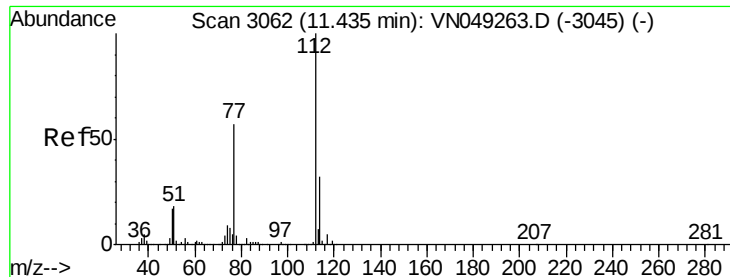
Tot Ion: 95 Resp: 729109
Ion Ratio Lower Upper
95 100
174 88.2 0.0 165.6
176 85.9 0.0 157.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049353.D
Acq: 18 Jun 2018 19:31

Tgt Ion: 117 Resp: 1651168
Ion Ratio Lower Upper
117 100
82 54.1 45.9 68.9
119 32.6 25.5 38.3





#65

Chlorobenzene

Concen: 0.55 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

Instrument :

MSVOA_N

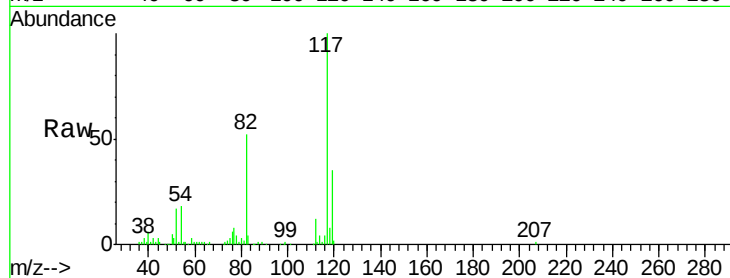
ClientSampled :

Tot Ion:112 Resp: 23505

Ion Ratio Lower Upper

112 100

114 33.2 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

15000

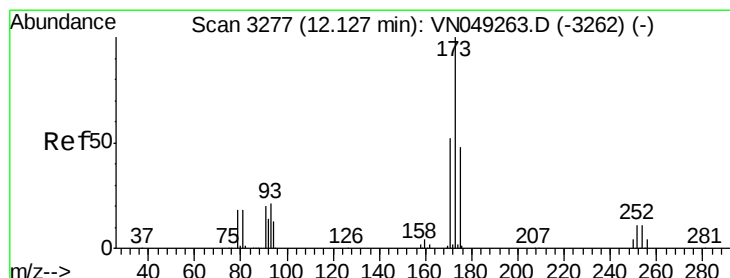
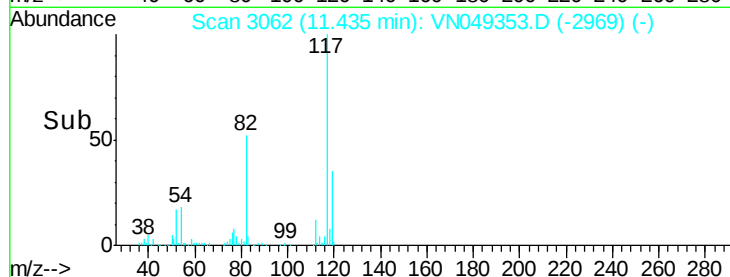
10000

5000

0

11.44

Time--> 11.35 11.40 11.45 11.50



#71

Bromoform

Concen: 0.45 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

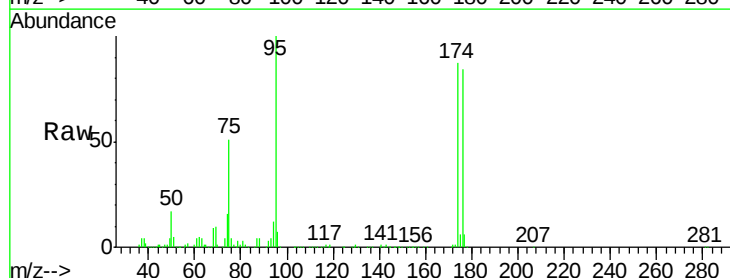
Tgt Ion:173 Resp: 4663

Ion Ratio Lower Upper

173 100

175 776.9 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

30000

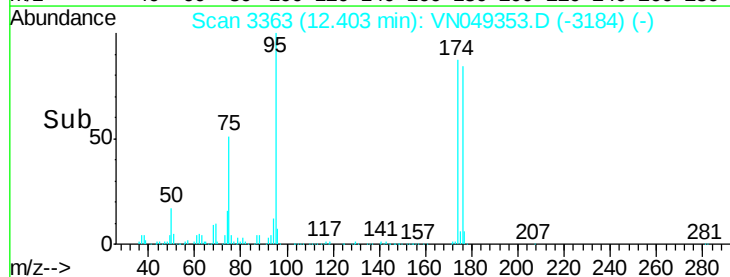
20000

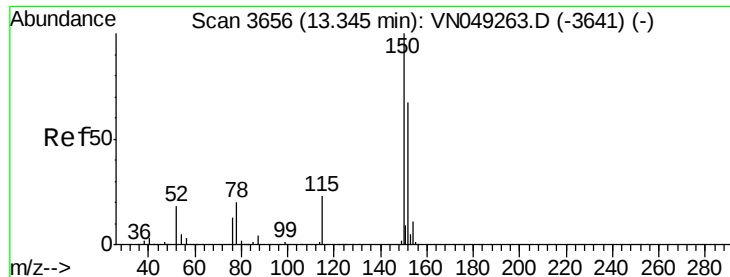
10000

0

12.40

Time--> 12.38 12.40 12.42





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

Instrument :

MSVOA_N

ClientSampleId :

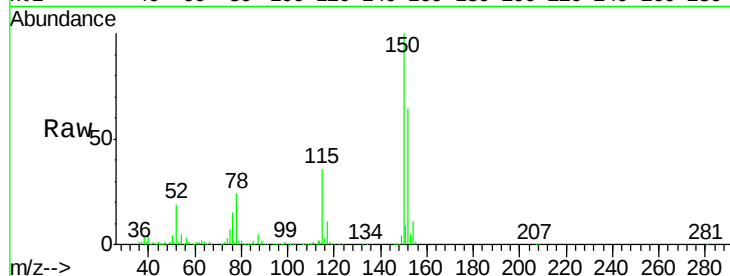
Tot Ion:152 Resp: 528396

Ion Ratio Lower Upper

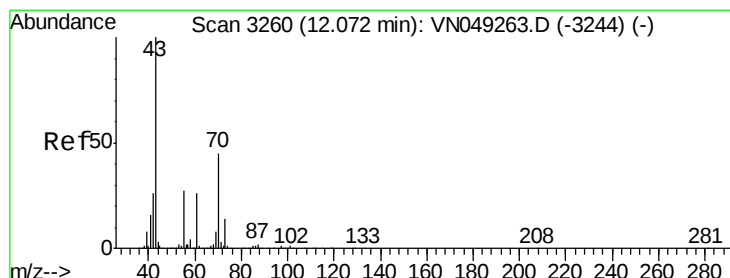
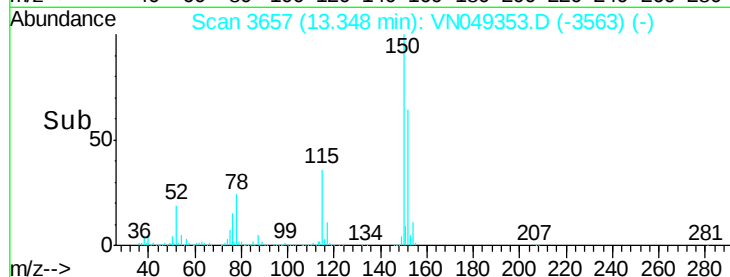
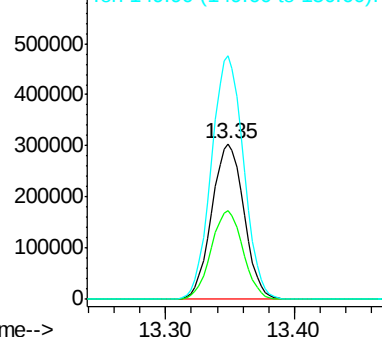
152 100

115 56.4 28.7 86.1

150 156.8 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



#74

N-ethyl acetate

Concen: 0.31 ug/l

RT: 12.04 min Scan# 3250

Delta R.T. -0.03 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

Tgt Ion: 43 Resp: 3507

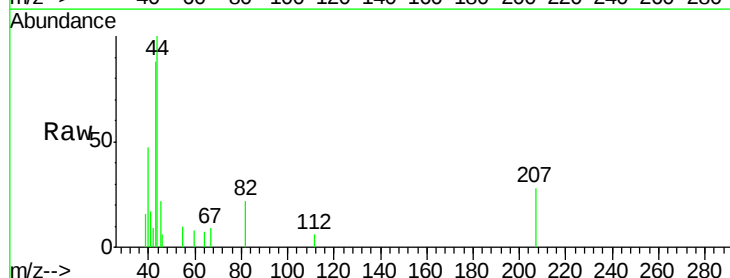
Ion Ratio Lower Upper

43 100

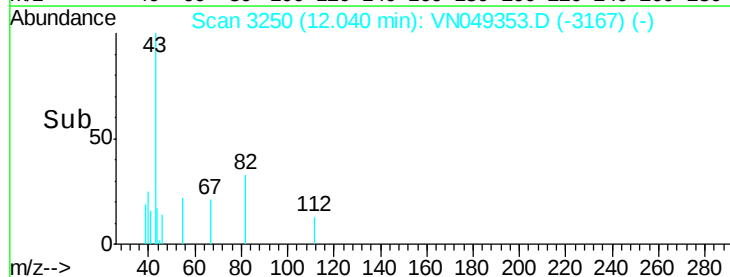
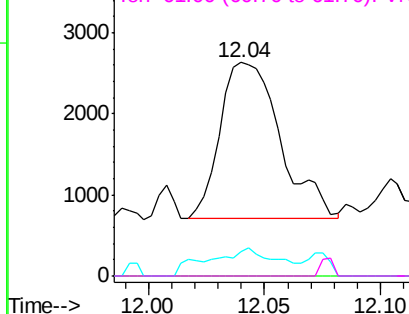
70 0.0 30.3 45.5#

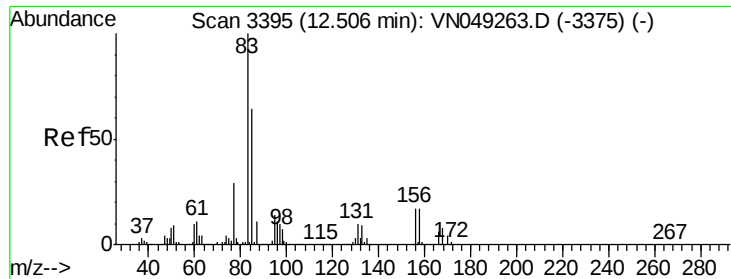
55 16.2 19.4 29.2#

61 0.0 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.49 min Scan# 3390

Delta R.T. -0.02 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

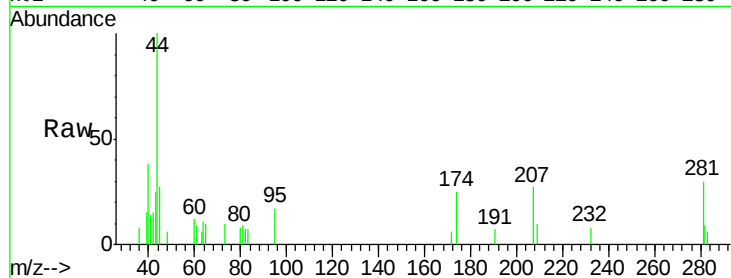
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 83 Resp: 62

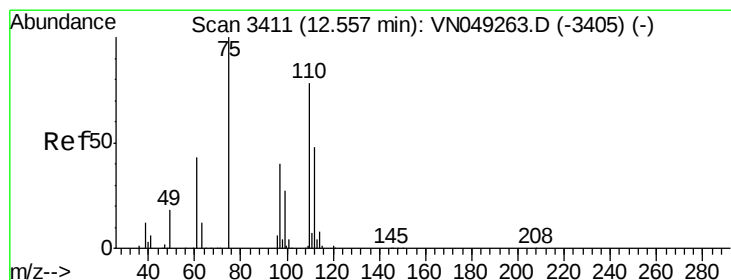
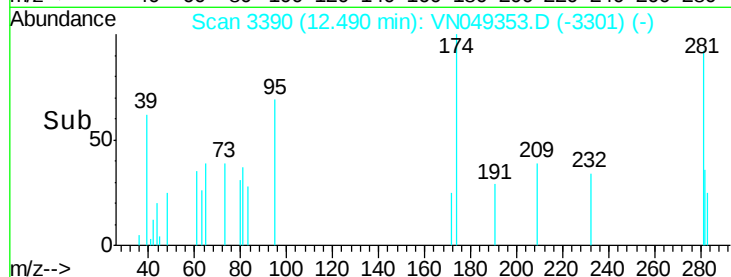
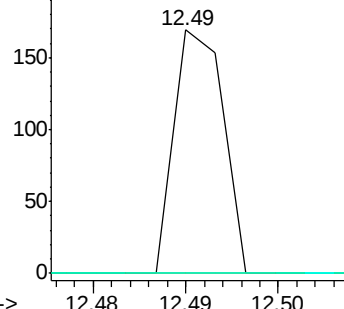
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	0.0	32.0	96.0#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 39.50 ug/l

RT: 12.40 min Scan# 3363

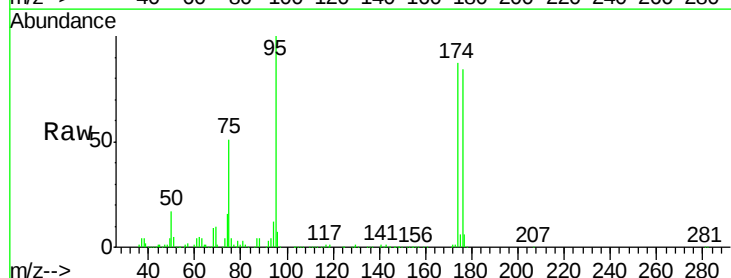
Delta R.T. -0.15 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

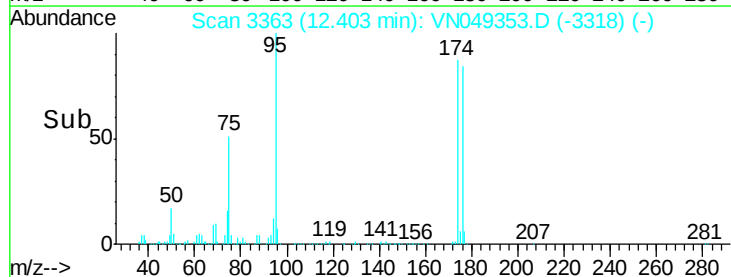
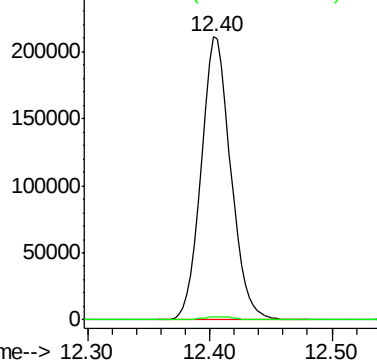
Tgt Ion: 75 Resp: 356164

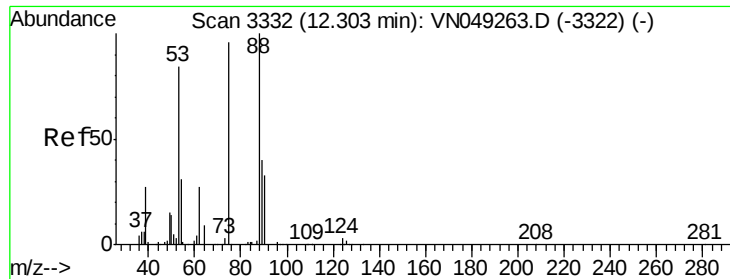
Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#



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: 124.86 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

Instrument :

MSVOA_N

ClientSampled :

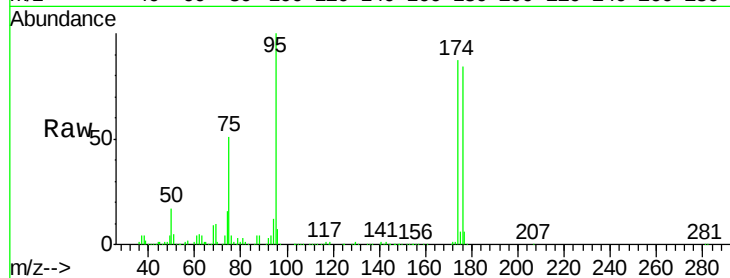
Tot Ion: 75 Resp: 356164

Ion Ratio Lower Upper

75 100

53 0.1 82.7 124.1#

89 0.0 36.5 54.7#

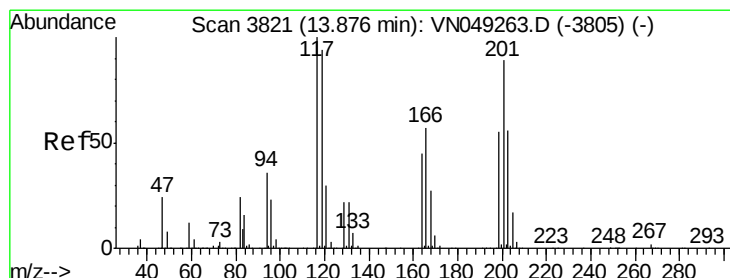
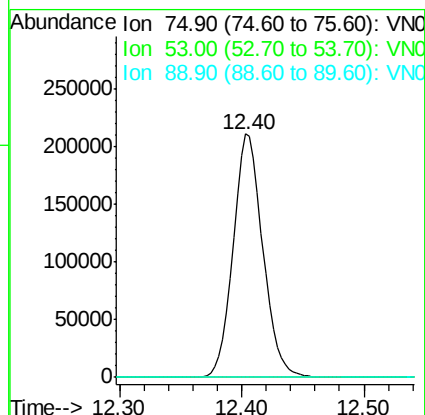
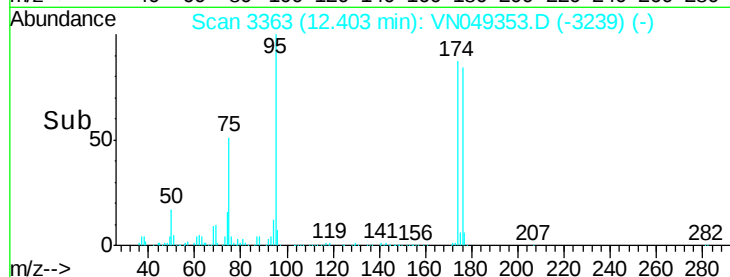


Abundance Ion 74.90 (74.60 to 75.60): VN049353.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049353.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049353.D (-3363) (-)

Time--> 12.30 12.40 12.50



#90

Hexachloroethane

Concen: Below Cal

RT: 13.99 min Scan# 3857

Delta R.T. 0.12 min

Lab File: VN049353.D

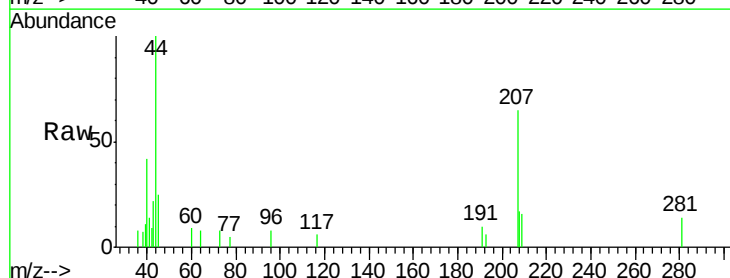
Acq: 18 Jun 2018 19:31

Tgt Ion: 117 Resp: 65

Ion Ratio Lower Upper

117 100

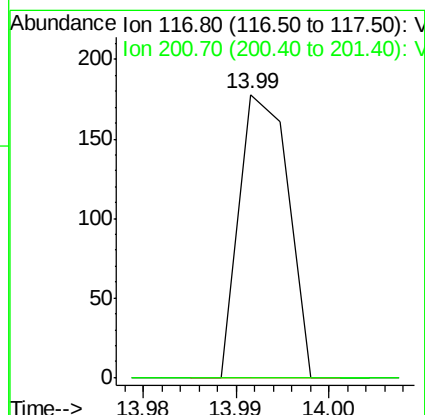
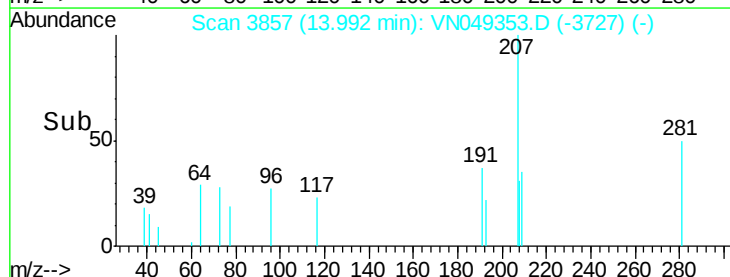
201 0.0 40.1 120.2#

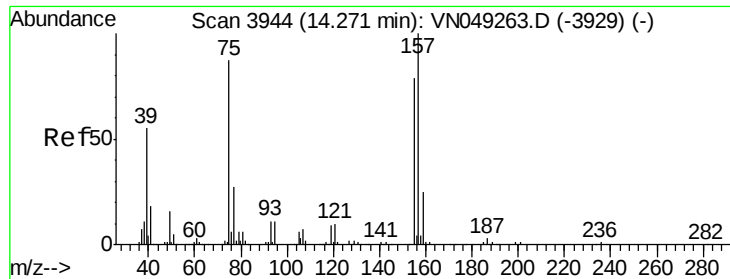


Abundance Ion 116.80 (116.50 to 117.50): VN049353.D (-3821) (-)

Ion 200.70 (200.40 to 201.40): VN049353.D (-3821) (-)

Time--> 13.98 13.99 14.00





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.57 ug/l

RT: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

Instrument :

MSVOA_N

ClientSampleId :

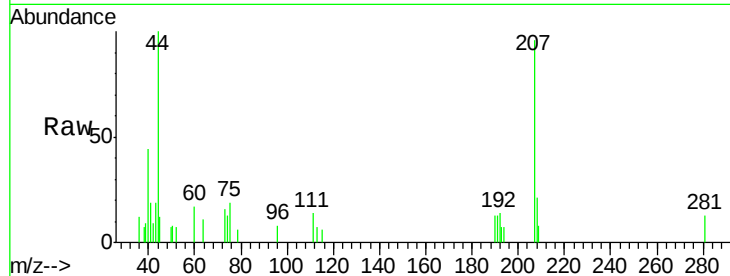
Tot Ion: 75 Resp: 919

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

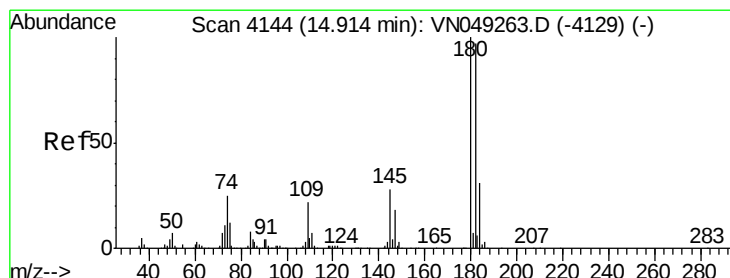
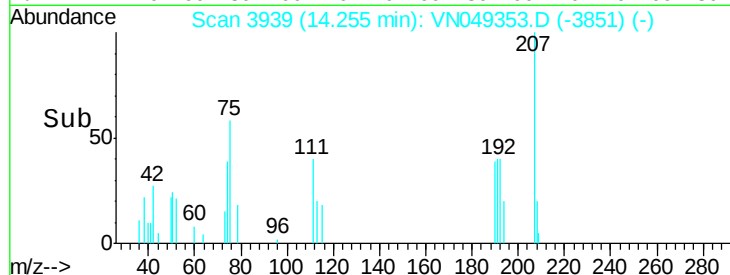
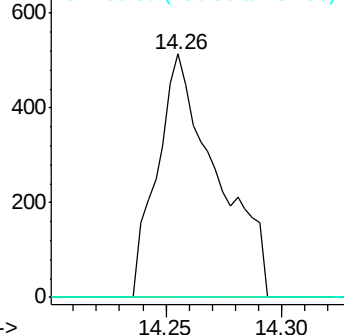
157 0.0 51.0 153.1#



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: 4.76 ug/l

RT: 14.92 min Scan# 4147

Delta R.T. 0.01 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

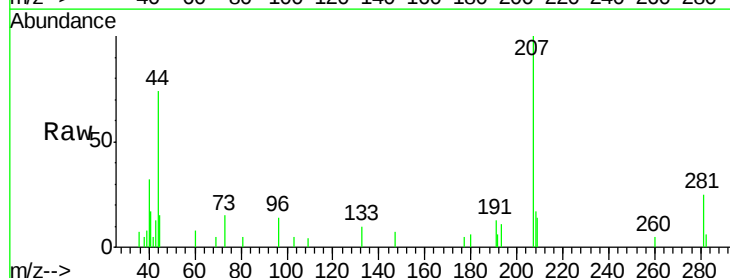
Tgt Ion: 180 Resp: 123

Ion Ratio Lower Upper

180 100

182 123.6 46.9 140.8

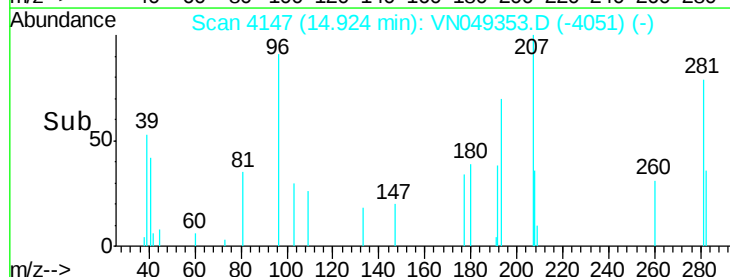
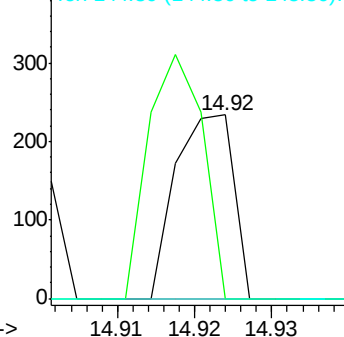
145 0.0 14.7 44.1#

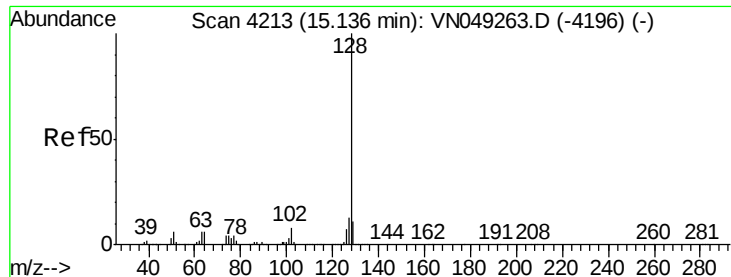


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 2.17 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049353.D

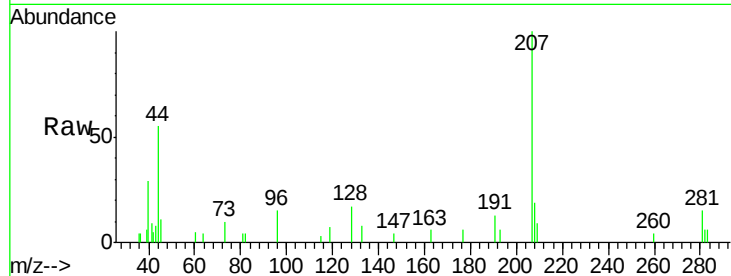
Acq: 18 Jun 2018 19:31

Instrument :

MSVOA_N

ClientSampled :

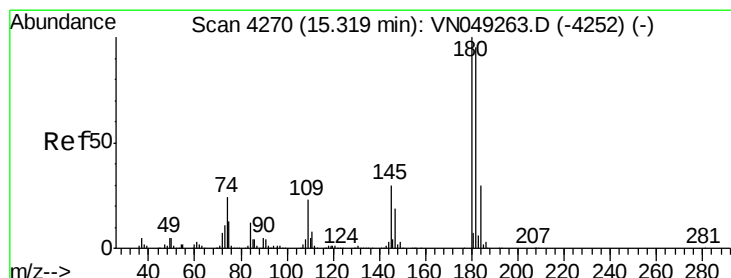
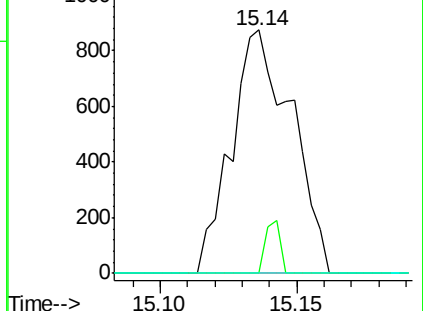
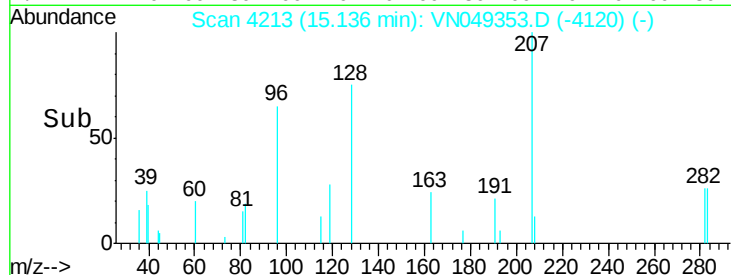
Tot Ion:	128	Resp:	1351
Ion	Ratio	Lower	Upper
128	100		
127	5.1	10.6	16.0#
129	0.0	8.5	12.7#



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

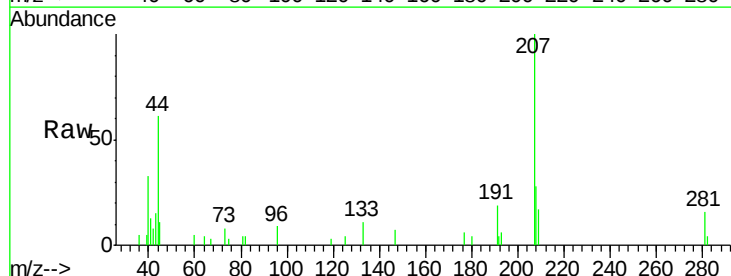
RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049353.D

Acq: 18 Jun 2018 19:31

Tgt Ion:	180	Resp:	75
Ion	Ratio	Lower	Upper
180	100		
182	44.0	47.3	141.8#
145	0.0	15.6	46.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

