

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061418\
 Data File : VN049221.D
 Acq On : 14 Jun 2018 12:24
 Operator : MD\SY
 Sample : J3435-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 14 16:58:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061318W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 14 05:15:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	508606	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	975804	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1027927	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	291921	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	361677	44.04	ug/l	0.00
Spiked Amount			Recovery	=	88.08%	
35) Dibromofluoromethane	7.59	113	332009	41.11	ug/l	0.00
Spiked Amount			Recovery	=	82.22%	
50) Toluene-d8	10.09	98	1230972	39.18	ug/l	0.00
Spiked Amount			Recovery	=	78.36%	
62) 4-Bromofluorobenzene	12.41	95	406166	38.95	ug/l	0.00
Spiked Amount			Recovery	=	77.90%	

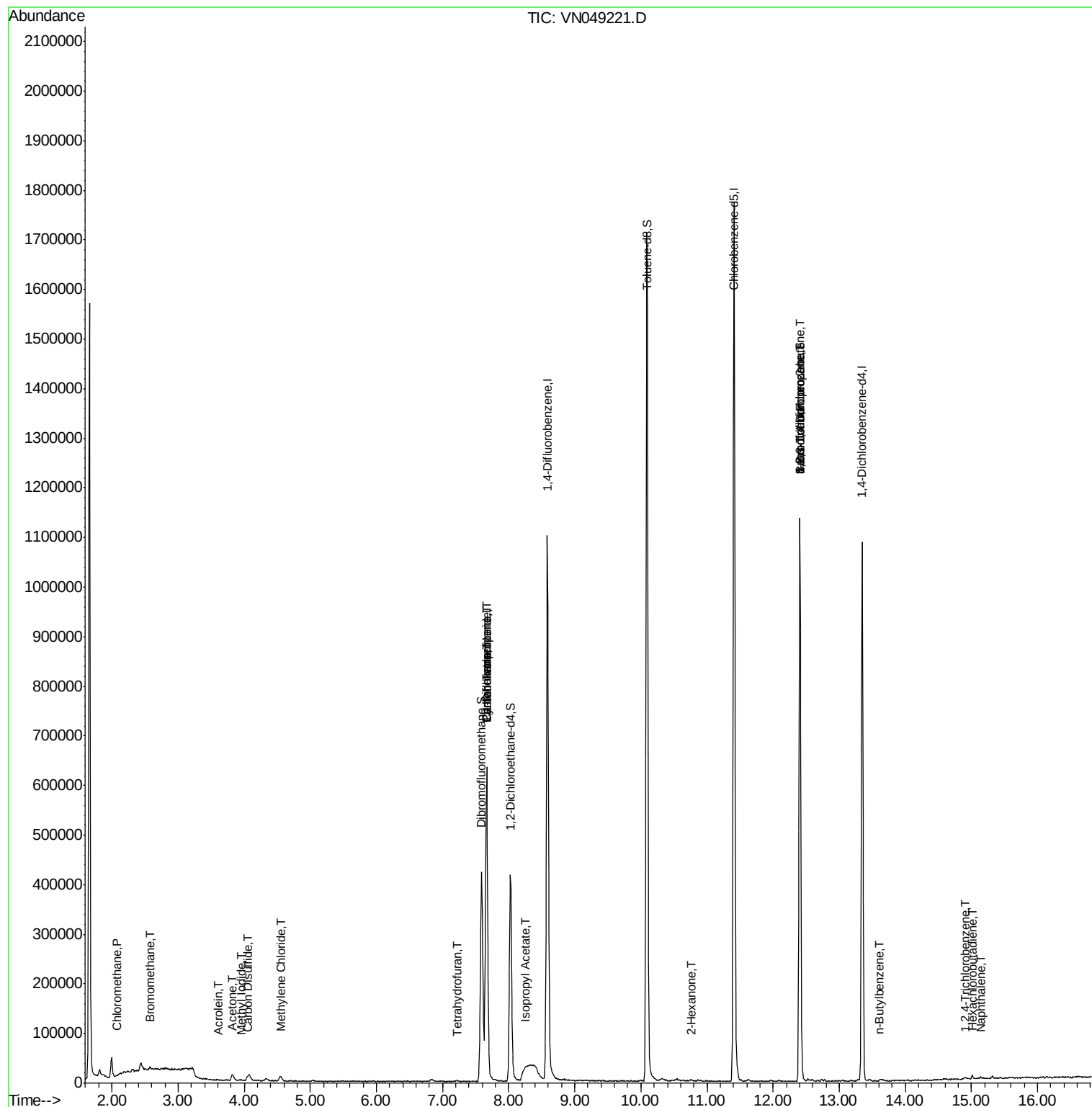
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2364	0.316	ug/l #	89
5) Bromomethane	2.57	94	3189	0.496	ug/l	89
10) Methyl Iodide	3.95	142	1657	0.244	ug/l #	61
13) Acrolein	3.61	56	330	0.541	ug/l #	1
16) Acetone	3.82	43	19367	9.869	ug/l	95
17) Carbon Disulfide	4.04	76	10259	0.473	ug/l	98
18) Methyl Acetate	4.33	43	8873	Below Cal	#	76
20) Methylene Chloride	4.55	84	6561	0.823	ug/l	88
29) Tetrahydrofuran	7.22	42	1239	0.685	ug/l #	52
31) Cyclohexane	7.67	56	11800	0.606	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	41830	3.431	ug/l #	51
38) Carbon Tetrachloride	7.66	117	49379	4.020	ug/l #	17
43) Isopropyl Acetate	8.25	43	28889	2.042	ug/l #	64
59) 2-Hexanone	10.77	43	1855	0.395	ug/l	92
71) Bromoform	12.40	173	1339	0.212	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.51	83	249	Below Cal	#	39
76) 1,2,3-Trichloropropane	12.41	75	201056	41.180	ug/l #	100
77) Bromobenzene	12.53	156	388	Below Cal	#	51
81) trans-1,4-Dichloro-2-buten	12.41	75	201056	115.071	ug/l #	9
89) n-Butylbenzene	13.62	91	1710	1.650	ug/l	86
90) Hexachloroethane	13.61	117	120	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.91	180	1060	4.591	ug/l	95
94) Hexachlorobutadiene	15.02	225	1321	0.405	ug/l #	75
95) Naphthalene	15.13	128	2422	5.627	ug/l #	80

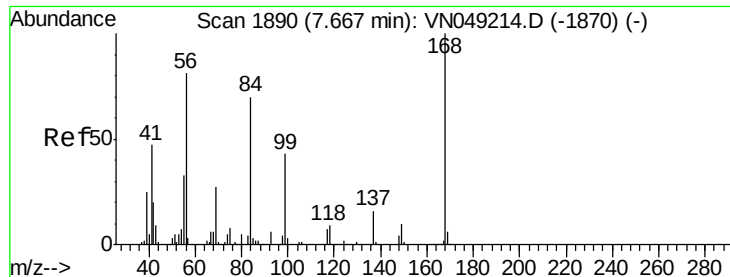
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Jun 14 16:58:54 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061318W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 14 05:15:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

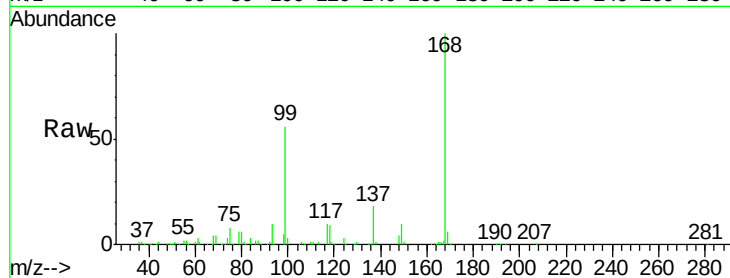
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 508606

Ion Ratio Lower Upper

168 100

99 56.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049221.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049221.D (-1797) (-)

7.67

250000

200000

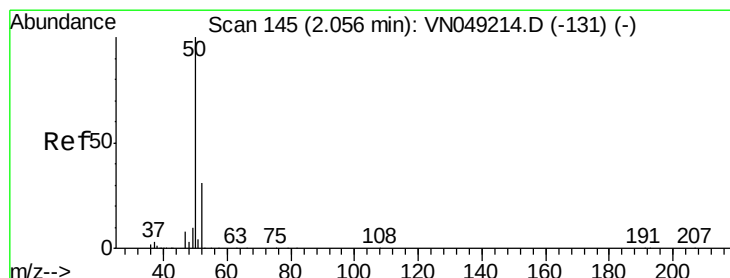
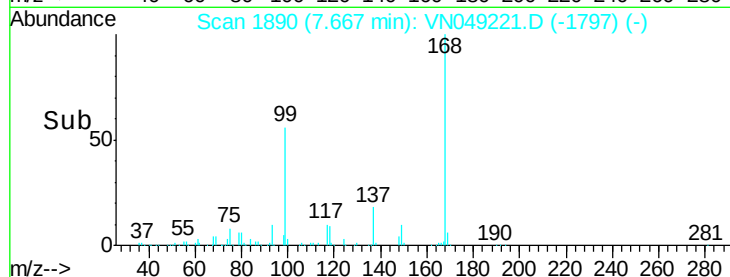
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.316 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049221.D

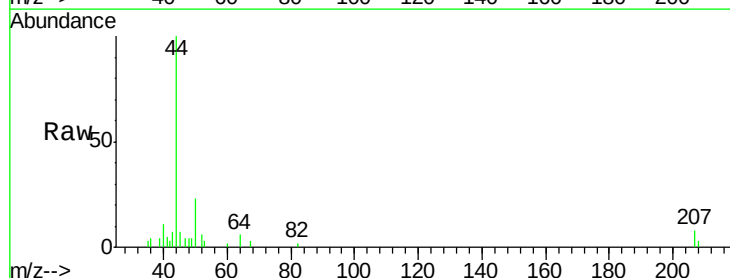
Acq: 14 Jun 2018 12:24

Tgt Ion: 50 Resp: 2364

Ion Ratio Lower Upper

50 100

52 25.2 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VN049221.D (-52) (-)

Ion 51.90 (51.60 to 52.60): VN049221.D (-52) (-)

2.06

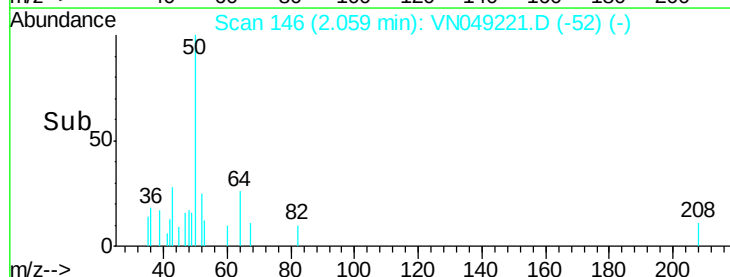
1500

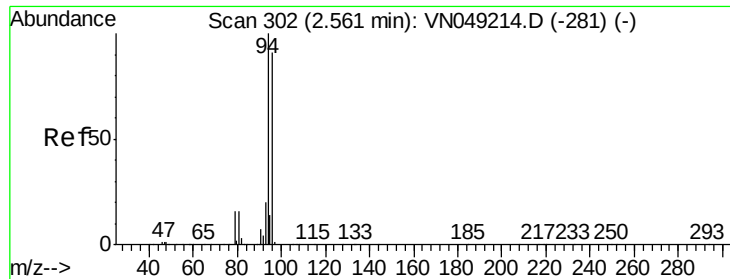
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.496 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

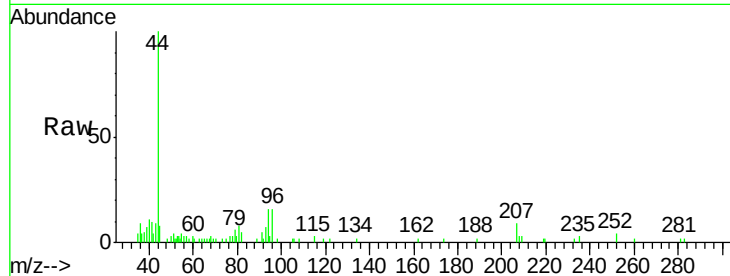
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 94 Resp: 3189

Ion Ratio Lower Upper

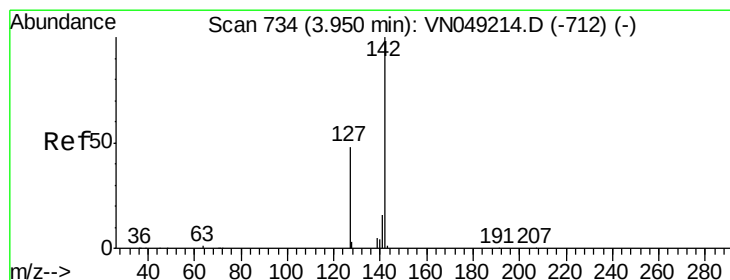
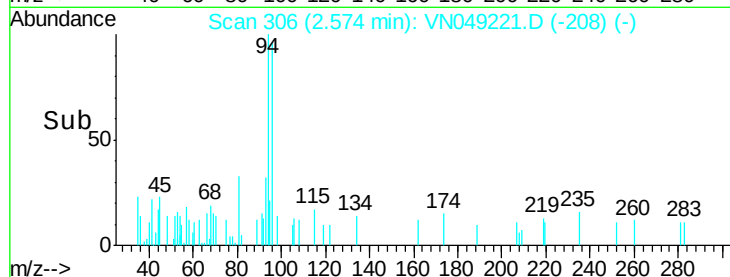
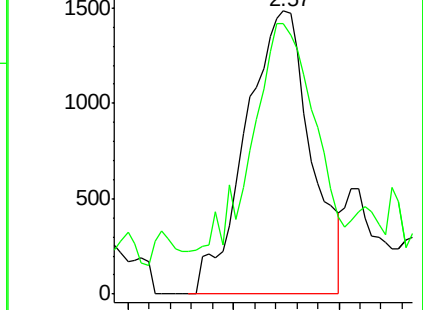
94 100

96 80.5 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VN049221.D (-281) (-)

Ion 95.90 (95.60 to 96.60): VN049221.D (-281) (-)



#10

Methyl Iodide

Concen: 0.244 ug/l

RT: 3.95 min Scan# 734

Delta R.T. 0.00 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

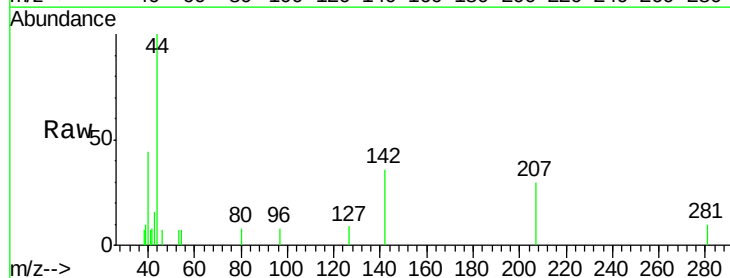
Tgt Ion: 142 Resp: 1657

Ion Ratio Lower Upper

142 100

127 21.1 38.2 57.4#

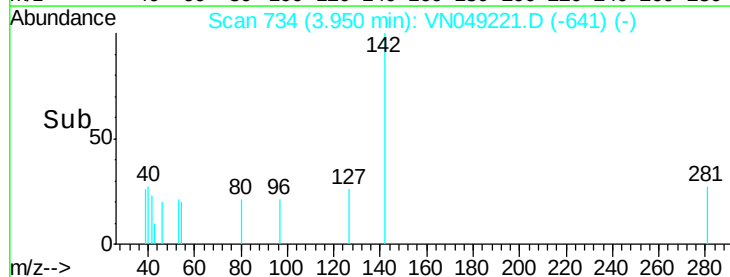
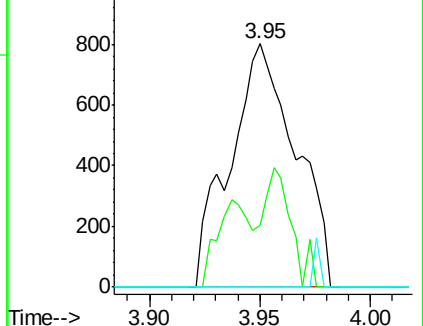
141 0.0 11.9 17.9#

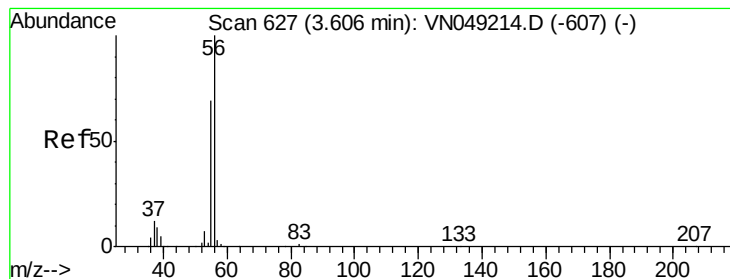


Abundance Ion 141.80 (141.50 to 142.50): VN049221.D (-712) (-)

Ion 126.80 (126.50 to 127.50): VN049221.D (-712) (-)

Ion 140.80 (140.50 to 141.50): VN049221.D (-712) (-)





#13

Acrolein

Concen: 0.541 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

Instrument :

MSVOA_N

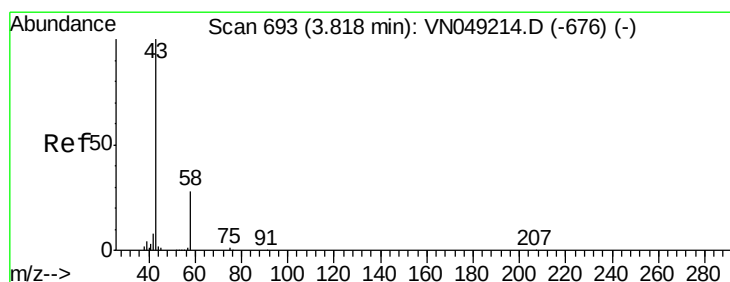
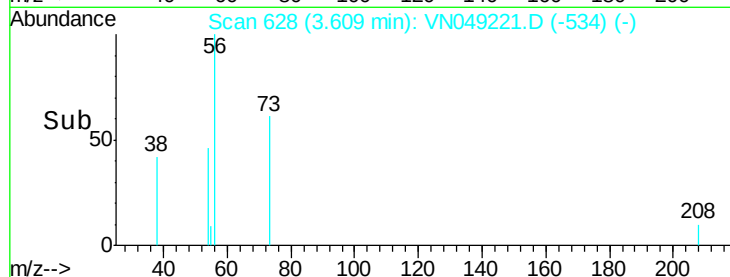
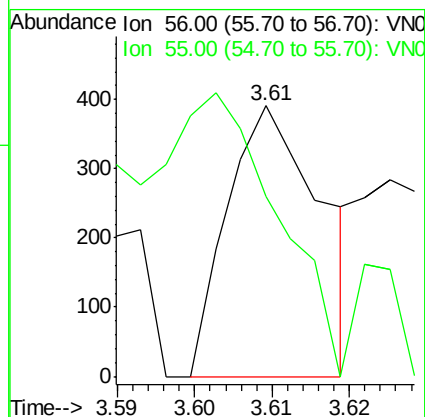
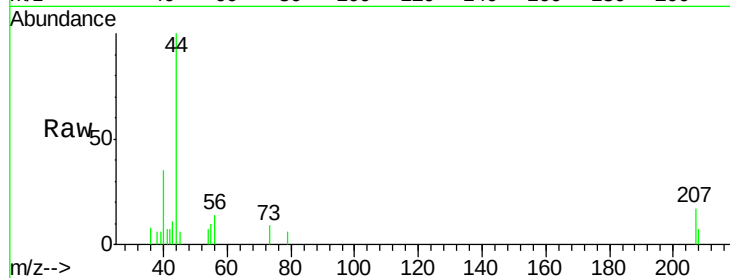
ClientSampled :

Tot Ion: 56 Resp: 330

Ion Ratio Lower Upper

56 100

55 170.0 57.1 85.7#



#16

Acetone

Concen: 9.869 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049221.D

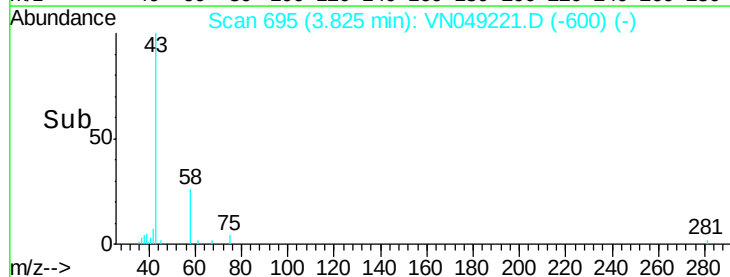
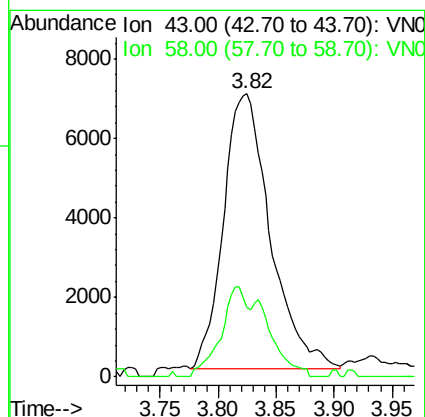
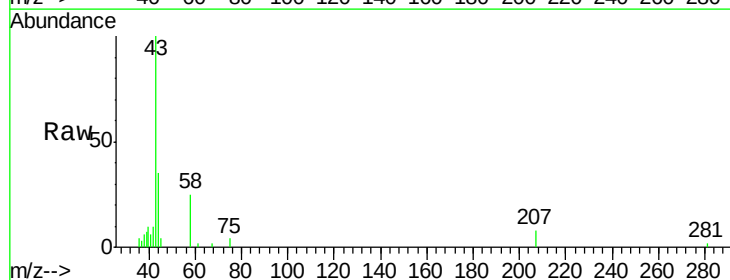
Acq: 14 Jun 2018 12:24

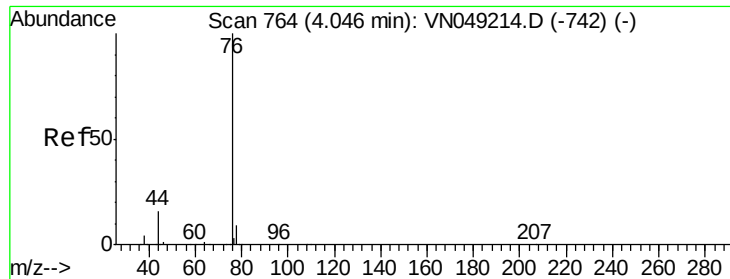
Tgt Ion: 43 Resp: 19367

Ion Ratio Lower Upper

43 100

58 25.5 22.4 33.6





#17

Carbon Disulfide

Concen: 0.473 ug/l

RT: 4.04 min Scan# 763

Delta R.T. -0.00 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

Instrument :

MSVOA_N

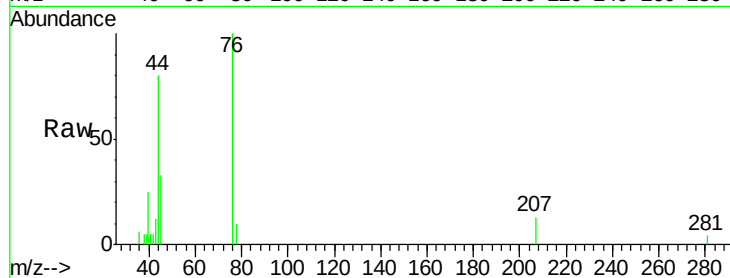
ClientSampleId :

Tot Ion: 76 Resp: 10259

Ion Ratio Lower Upper

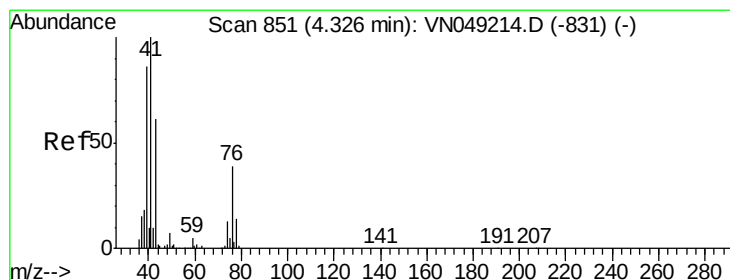
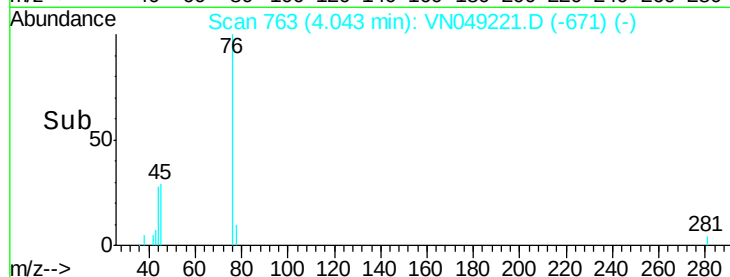
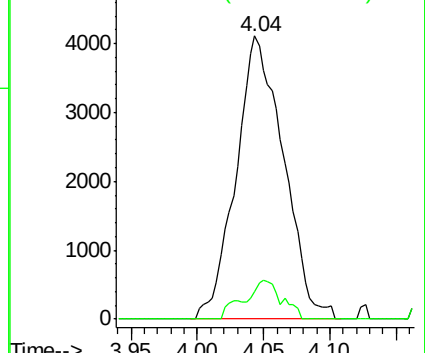
76 100

78 9.8 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049221.D

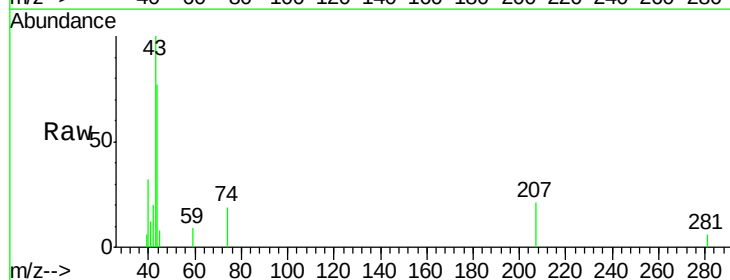
Acq: 14 Jun 2018 12:24

Tgt Ion: 43 Resp: 8873

Ion Ratio Lower Upper

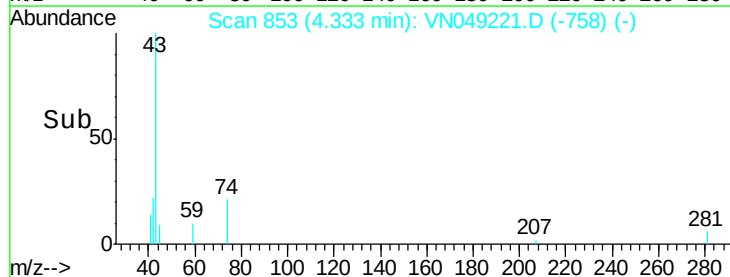
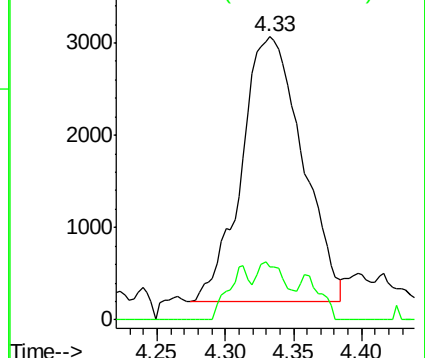
43 100

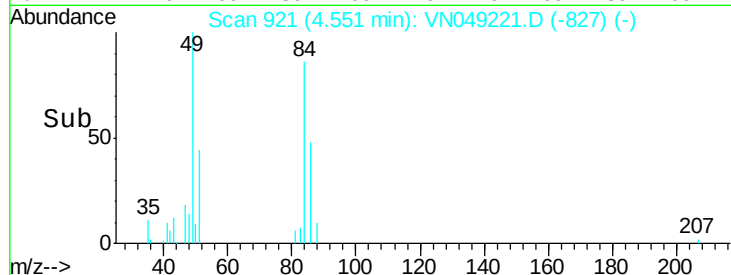
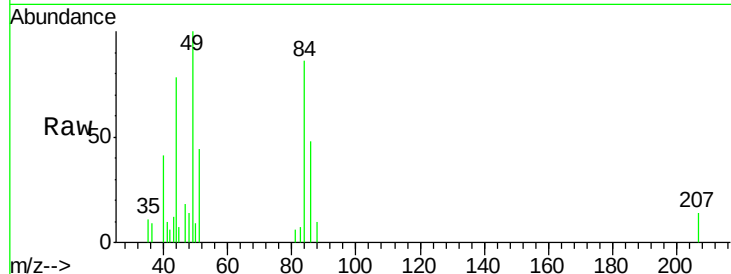
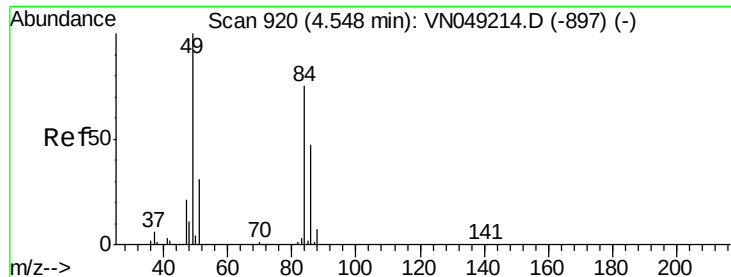
74 10.5 17.4 26.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

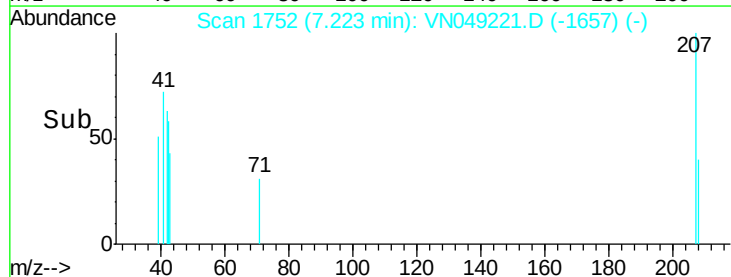
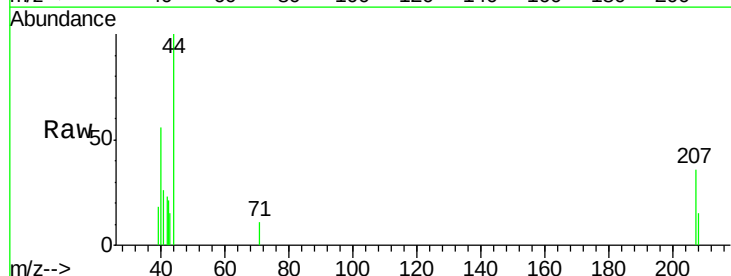
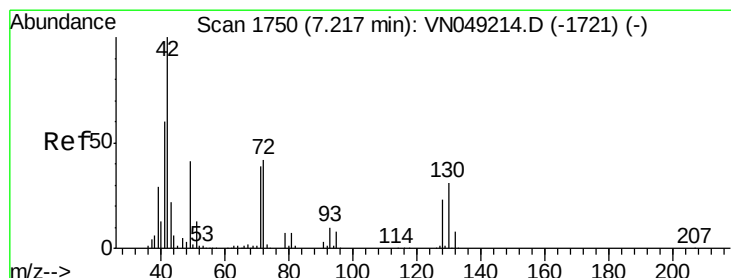
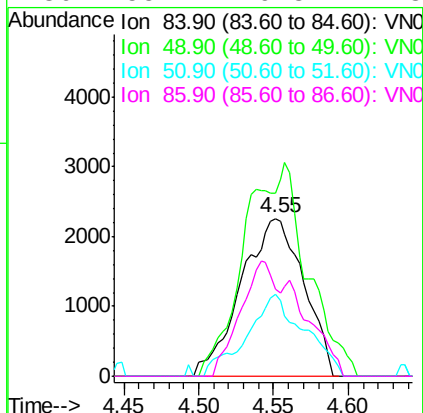




#20
Methylene Chloride
Concen: 0.823 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

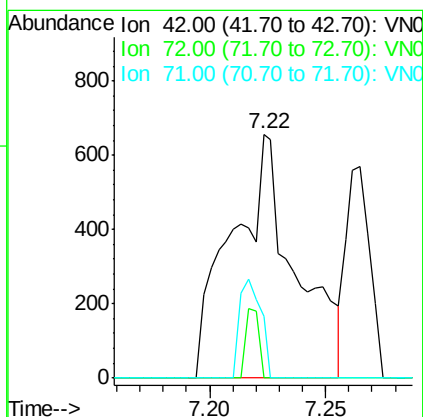
Instrument :
MSVOA_N
ClientSampled :

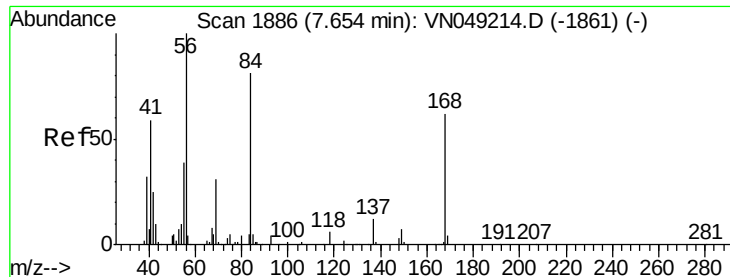
Tot Ion:	84	Resp:	6561
Ion	Ratio	Lower	Upper
84	100		
49	116.1	106.9	160.3
51	44.9	32.7	49.1
86	55.2	49.8	74.8



#29
Tetrahydrofuran
Concen: 0.685 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

Tgt Ion:	42	Resp:	1239
Ion	Ratio	Lower	Upper
42	100		
72	5.7	32.2	48.4#
71	13.6	30.5	45.7#

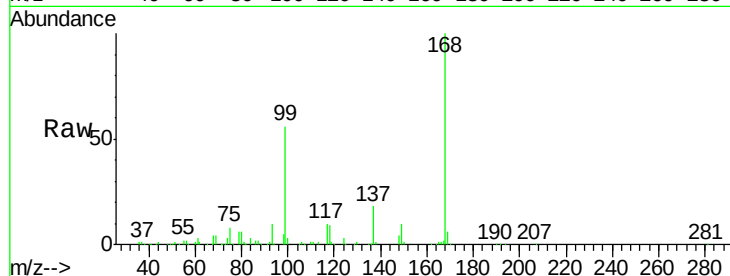




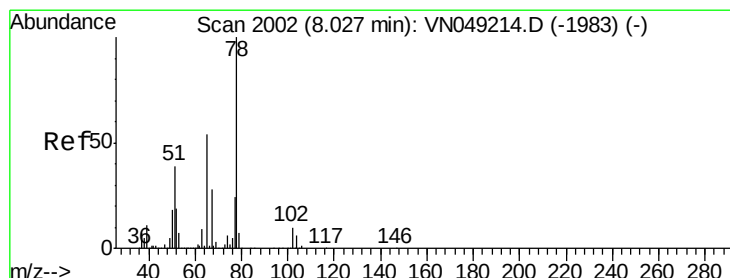
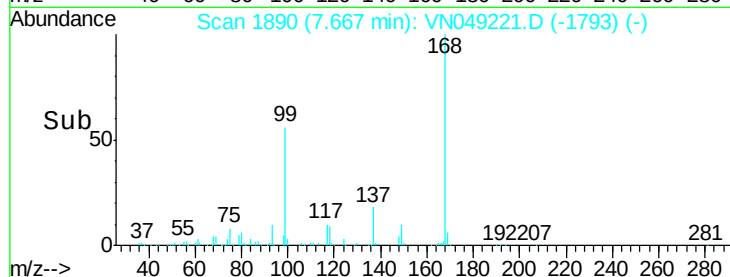
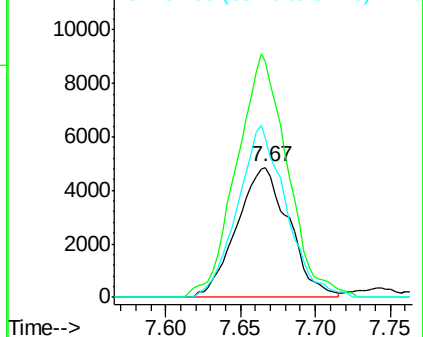
#31
Cyclohexane
Concen: 0.606 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11800
Ion Ratio Lower Upper
56 100
69 177.6 25.0 37.4#
84 122.1 64.6 96.8#

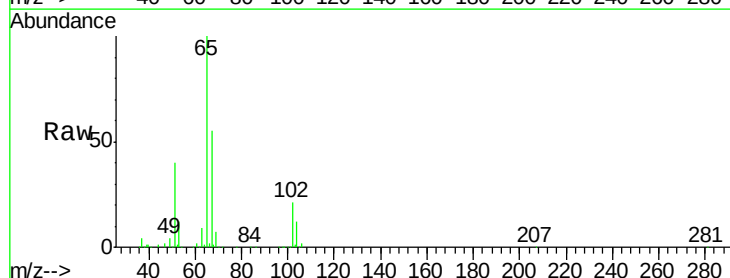


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

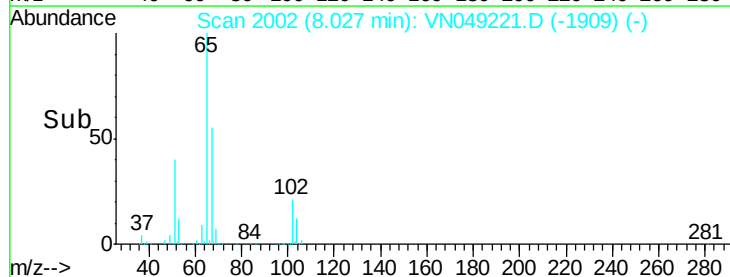
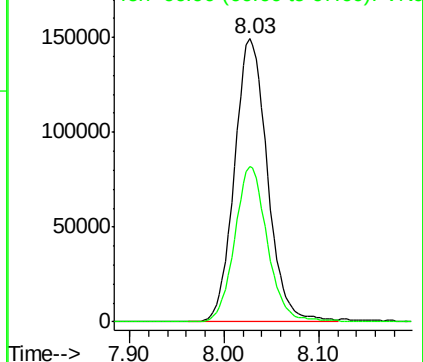


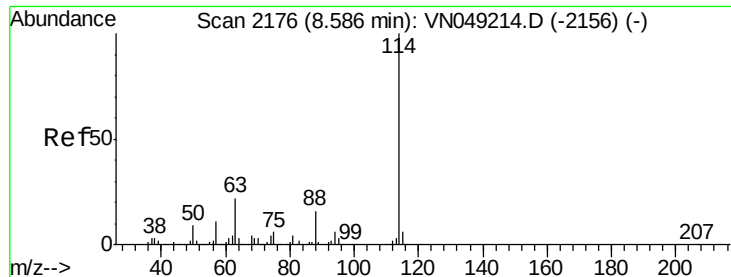
#33
1,2-Dichloroethane-d4
Concen: 44.041 ug/l
RT: 8.03 min Scan# 2002
Delta R.T. 0.00 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

Tgt Ion: 65 Resp: 361677
Ion Ratio Lower Upper
65 100
67 54.4 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: 50.000 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

Instrument :

MSVOA_N

ClientSampleId :

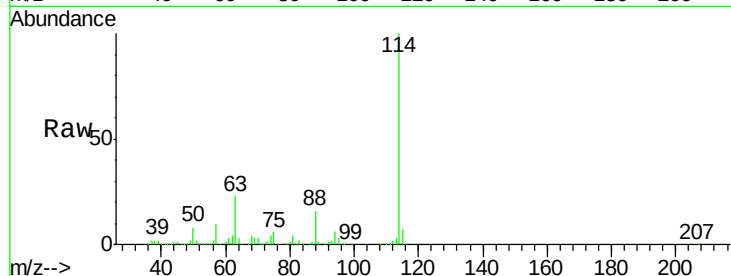
Tot Ion:114 Resp: 975804

Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.4

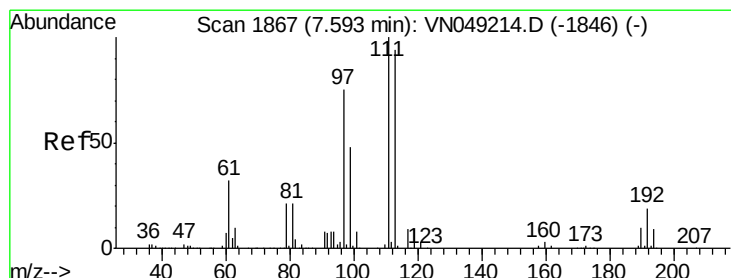
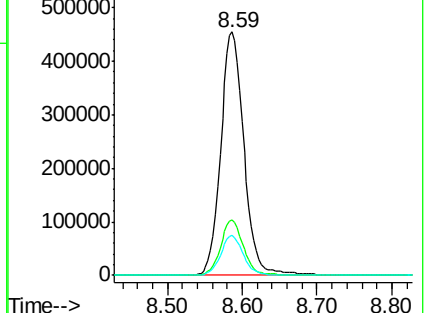
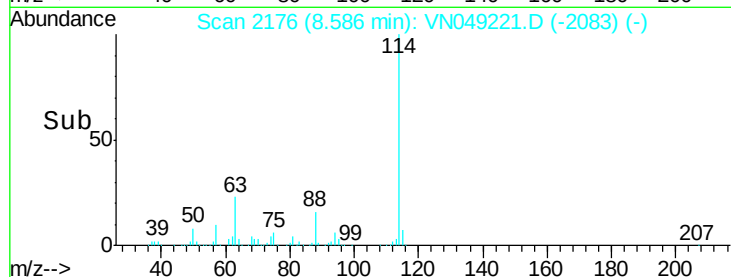
88 16.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 41.108 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

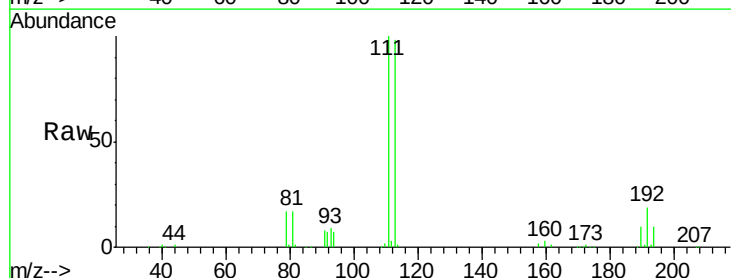
Tgt Ion:113 Resp: 332009

Ion Ratio Lower Upper

113 100

111 102.1 82.4 123.6

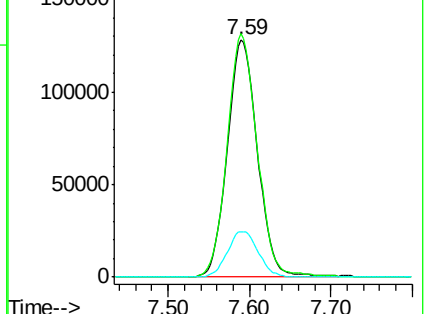
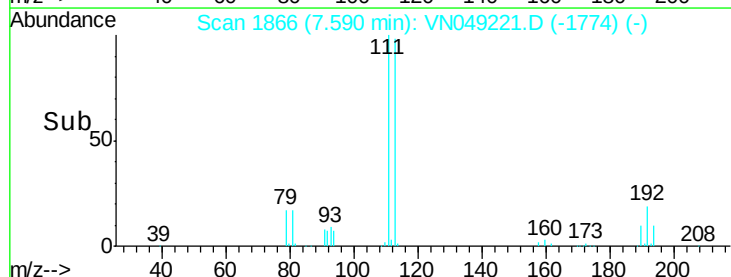
192 19.7 15.0 22.6

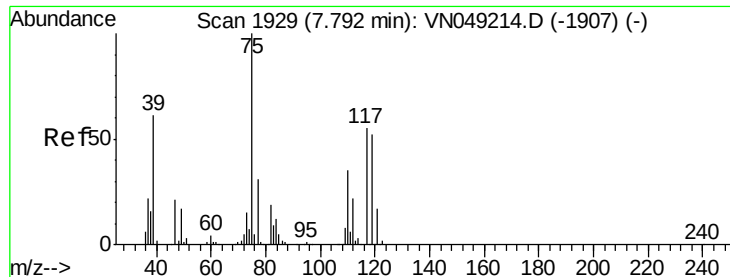


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

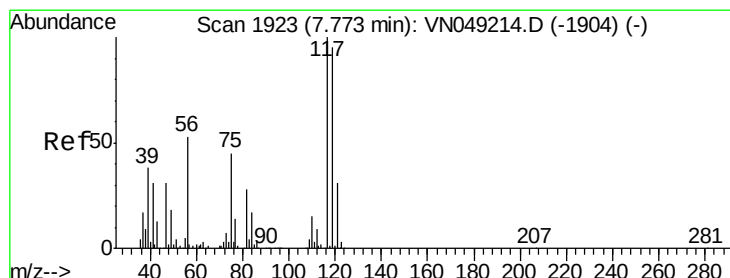
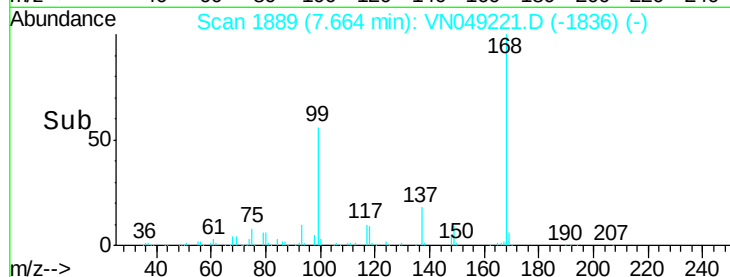
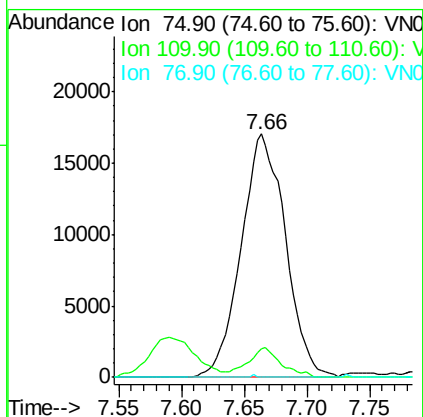
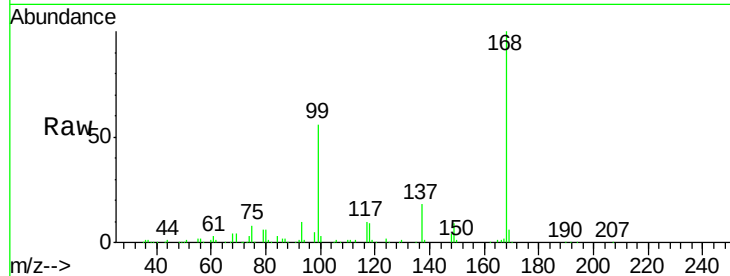




#36
 1,1-Dichloropropene
 Concen: 3.431 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN049221.D
 Acq: 14 Jun 2018 12:24

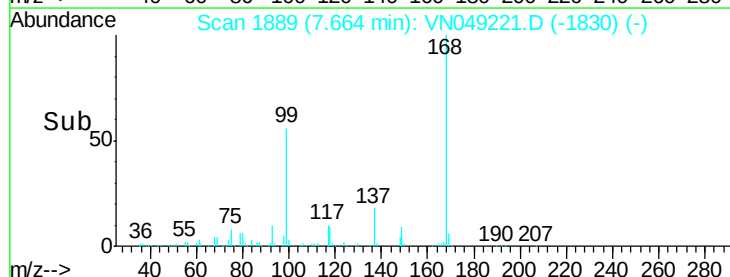
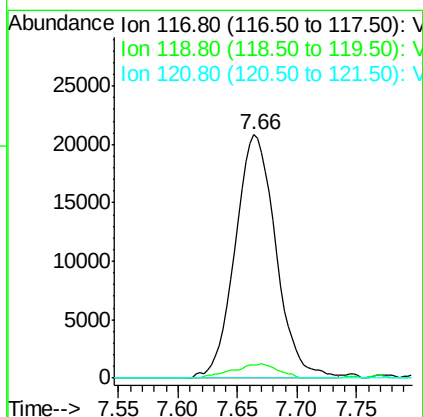
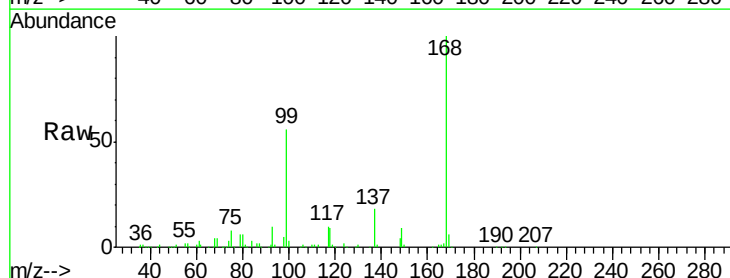
Instrument :
 MSVOA_N
 ClientSampled :

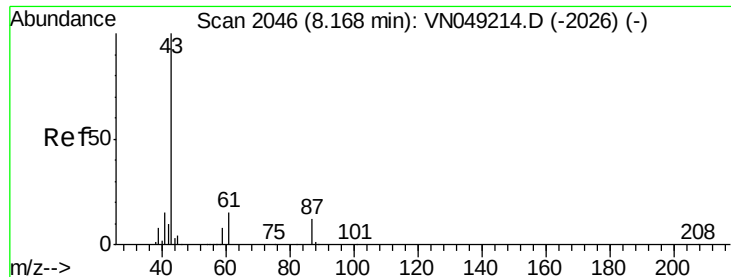
Tot Ion: 75 Resp: 41830
 Ion Ratio Lower Upper
 75 100
 110 9.3 17.0 50.9#
 77 0.1 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 4.020 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.11 min
 Lab File: VN049221.D
 Acq: 14 Jun 2018 12:24

Tgt Ion: 117 Resp: 49379
 Ion Ratio Lower Upper
 117 100
 119 5.6 75.6 113.4#
 121 0.0 24.7 37.1#

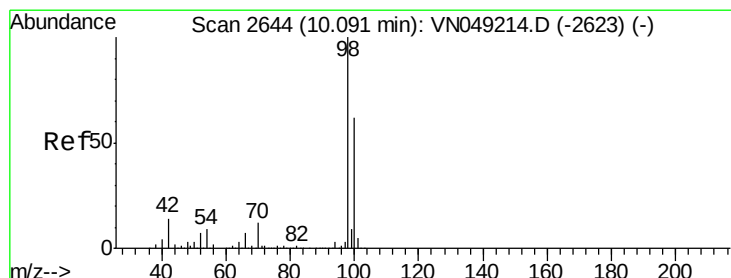
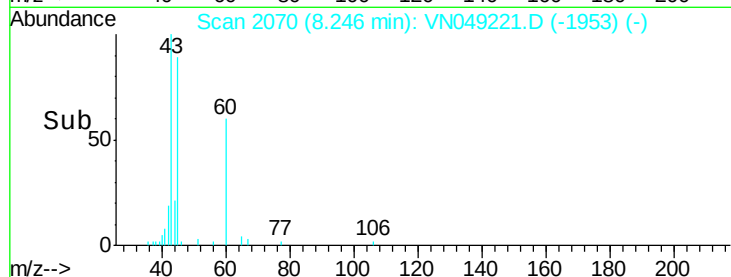
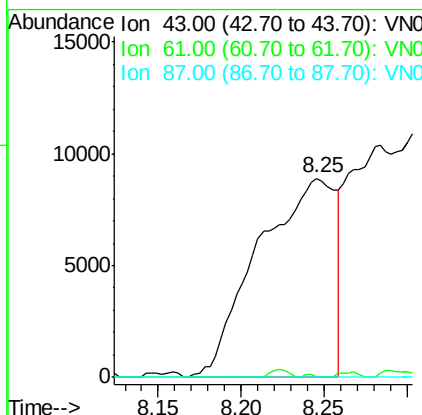
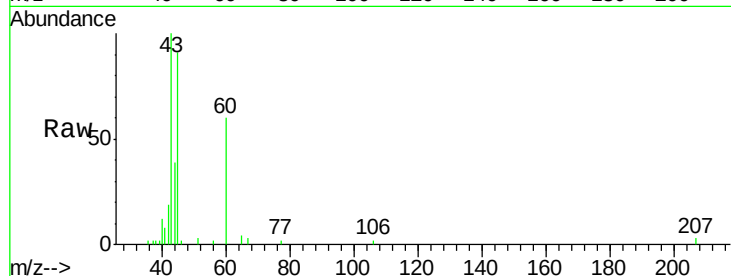




#43
Isopropyl Acetate
Concen: 2.042 ug/l
RT: 8.25 min Scan# 2070
Delta R.T. 0.08 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

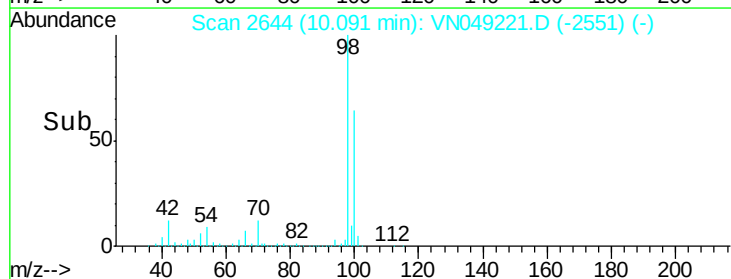
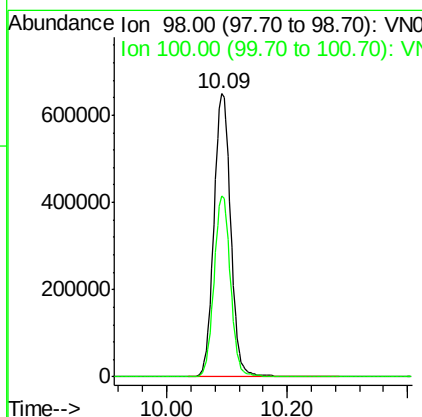
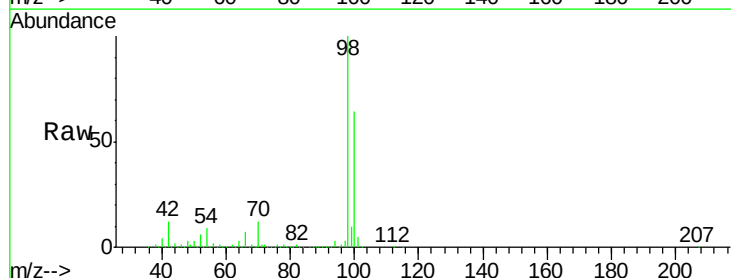
Instrument :
MSVOA_N
ClientSampled :

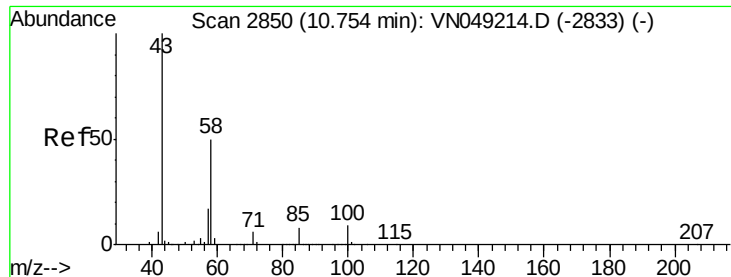
Tot Ion: 43 Resp: 28889
Ion Ratio Lower Upper
43 100
61 0.0 14.2 21.4#
87 0.0 9.4 14.0#



#50
Toluene-d8
Concen: 39.179 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

Tgt Ion: 98 Resp: 1230972
Ion Ratio Lower Upper
98 100
100 62.2 49.8 74.8

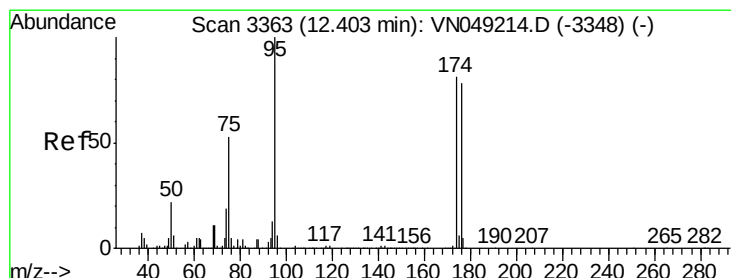
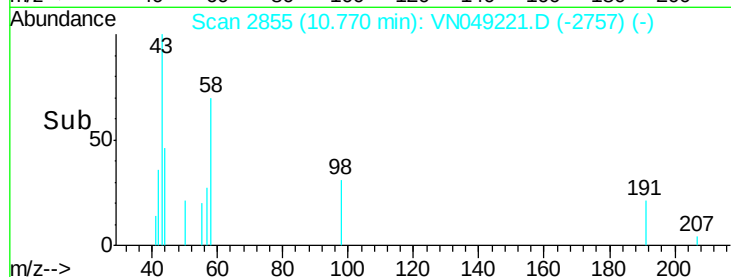
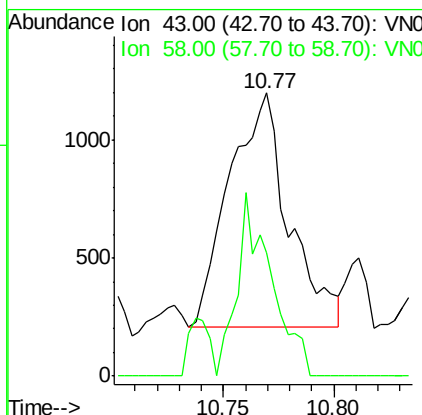
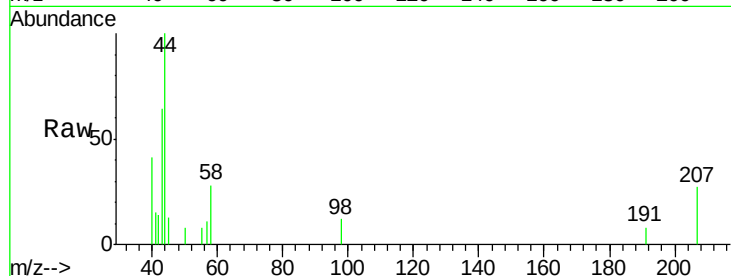




#59
2-Hexanone
Concen: 0.395 ug/l
RT: 10.77 min Scan# 2855
Delta R.T. 0.02 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

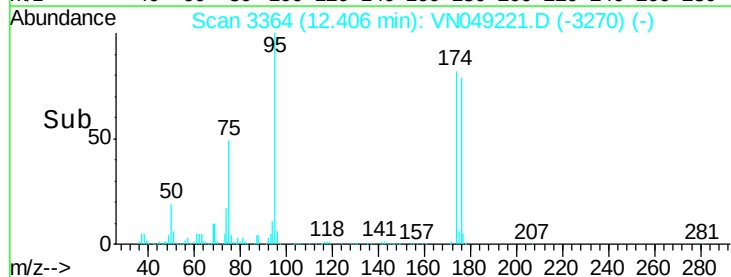
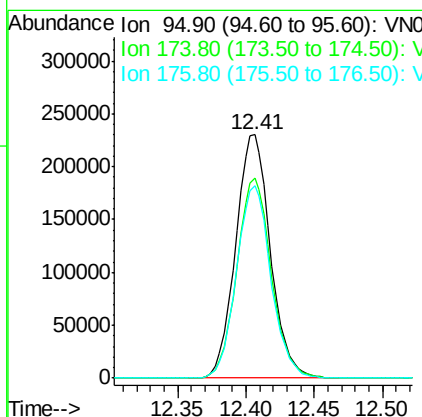
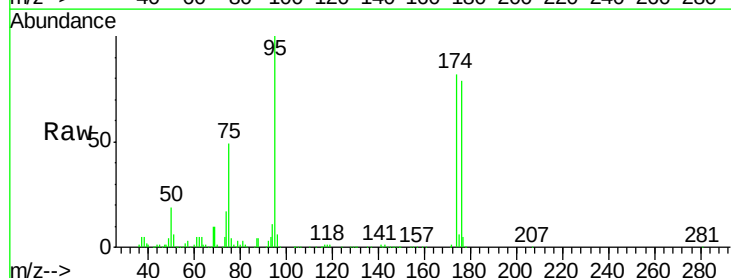
Instrument :
MSVOA_N
ClientSampled :

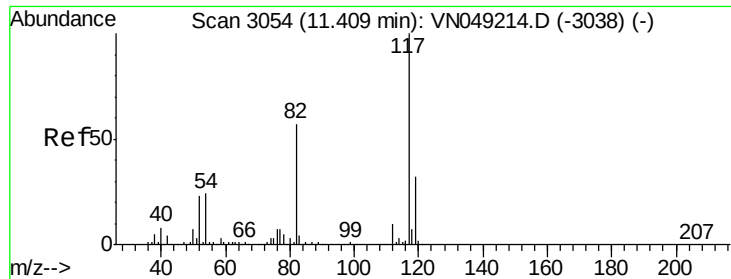
Tot Ion: 43 Resp: 1855
Ion Ratio Lower Upper
43 100
58 45.1 25.2 75.6



#62
4-Bromofluorobenzene
Concen: 38.951 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

Tgt Ion: 95 Resp: 406166
Ion Ratio Lower Upper
95 100
174 81.9 0.0 165.6
176 78.4 0.0 157.4

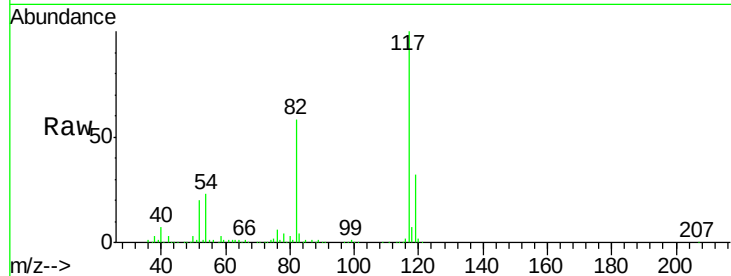




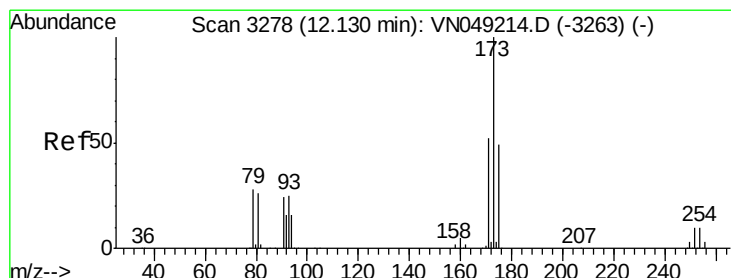
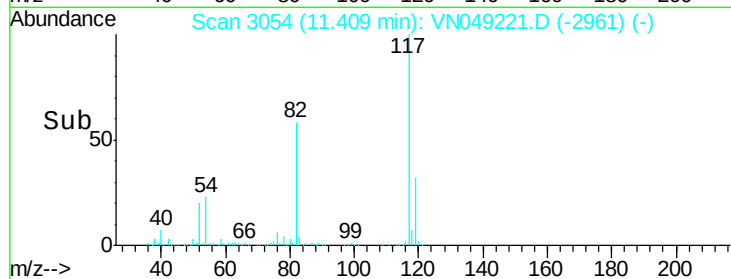
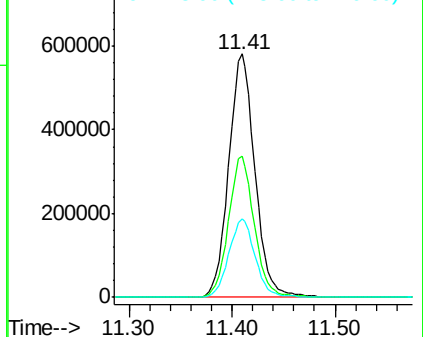
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 1027927
Ion Ratio Lower Upper
117 100
82 57.8 45.9 68.9
119 32.1 25.5 38.3

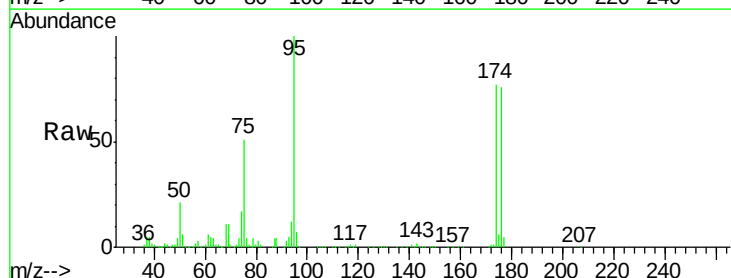


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

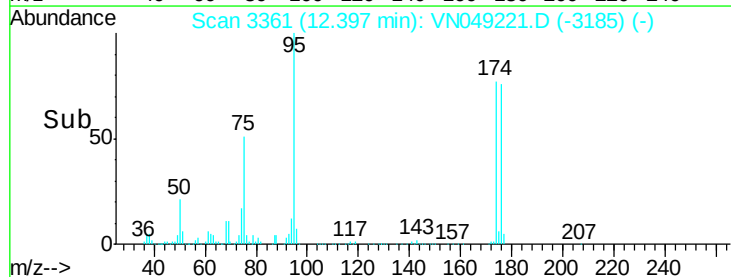
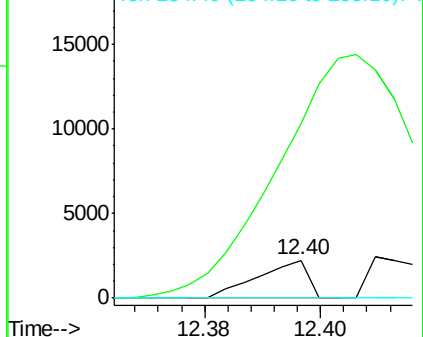


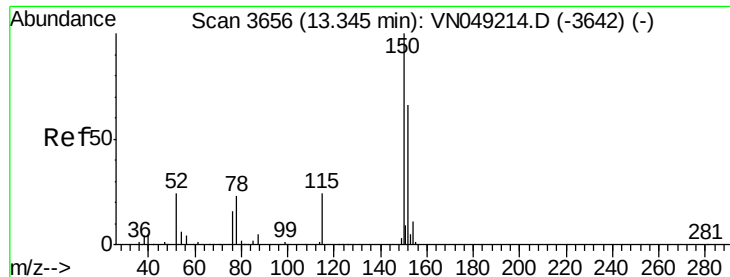
#71
Bromoform
Concen: 0.212 ug/l
RT: 12.40 min Scan# 3361
Delta R.T. 0.27 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

Tgt Ion:173 Resp: 1339
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

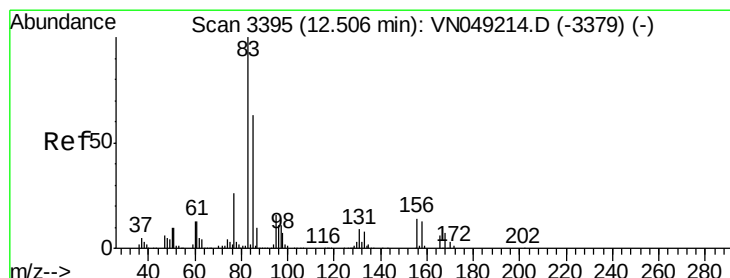
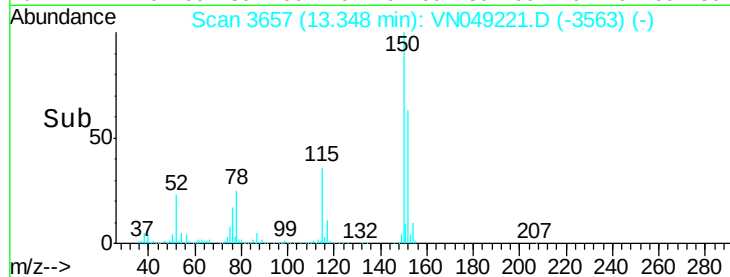
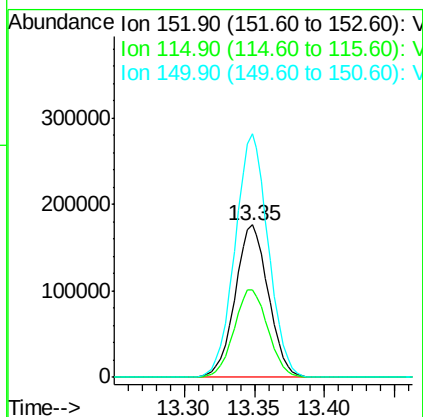
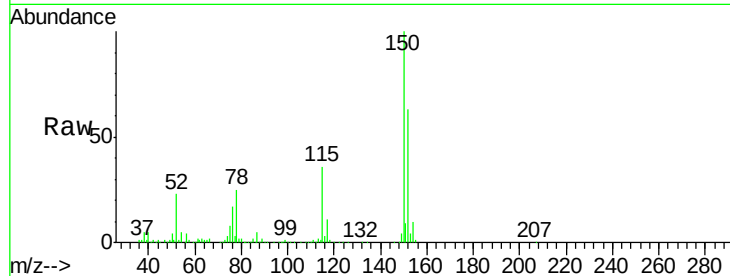




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3657
 Delta R.T. 0.00 min
 Lab File: VN049221.D
 Acq: 14 Jun 2018 12:24

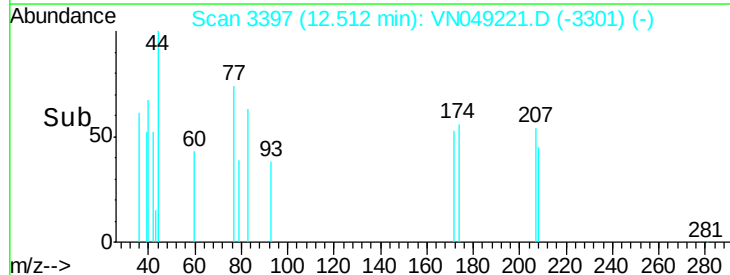
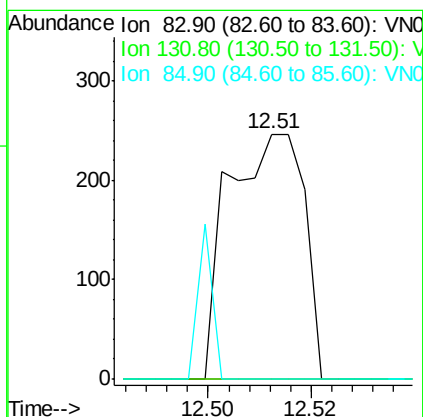
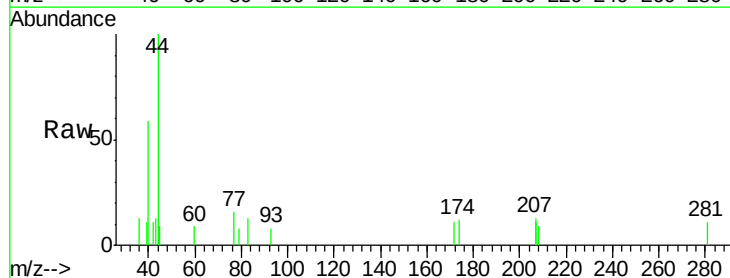
Instrument :
 MSVOA_N
 ClientSampled :

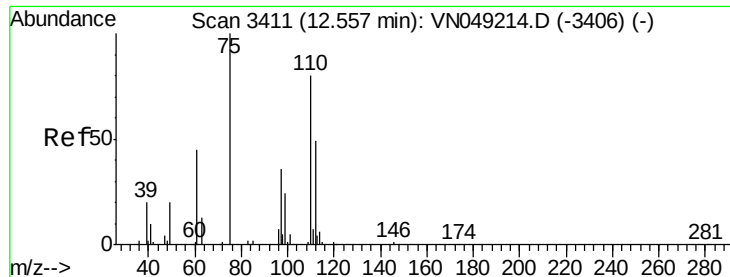
Tot Ion	Ratio	Lower	Upper
152	100		
115	58.9	28.7	86.1
150	159.4	0.0	351.0



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.51 min Scan# 3397
 Delta R.T. 0.01 min
 Lab File: VN049221.D
 Acq: 14 Jun 2018 12:24

Tgt Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	12.0	32.0	96.0#





#76

1,2,3-Trichloropropane

Concen: 41.180 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

Instrument :

MSVOA_N

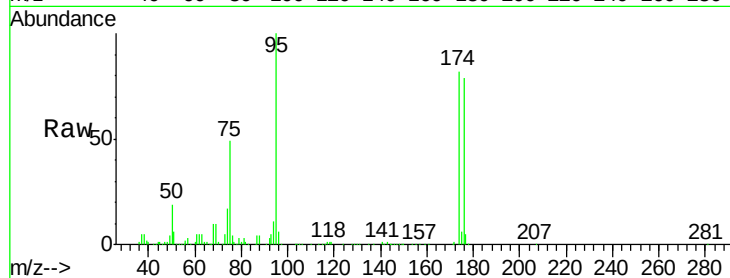
ClientSampled :

Tot Ion: 75 Resp: 201056

Ion Ratio Lower Upper

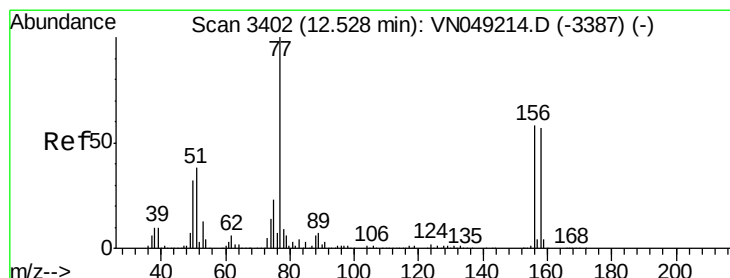
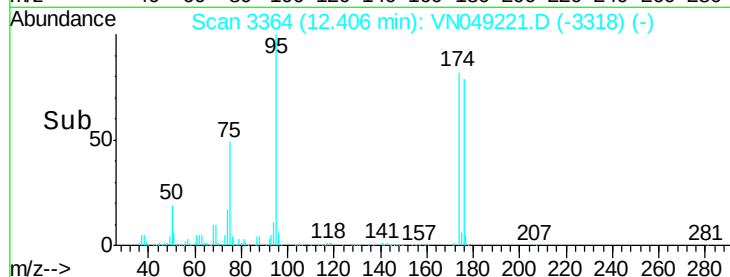
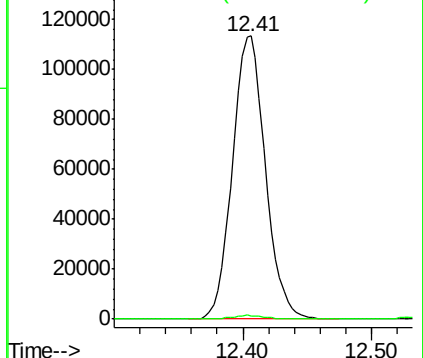
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN049221.D (-3364) (-)

Ion 77.00 (76.70 to 77.70): VN049221.D (-3364) (-)



#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

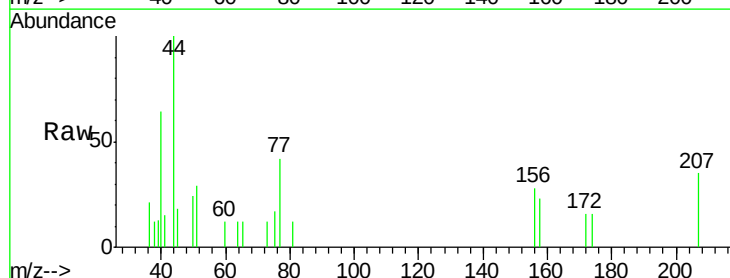
Tgt Ion: 156 Resp: 388

Ion Ratio Lower Upper

156 100

77 310.6 100.8 302.4#

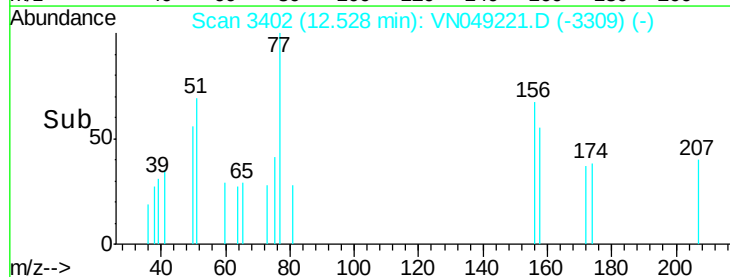
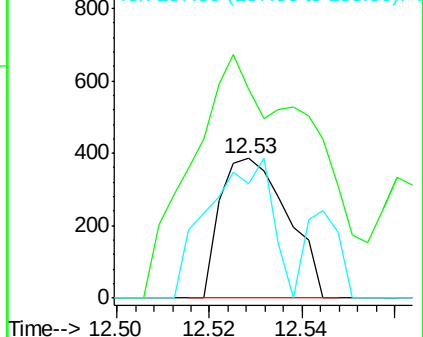
158 94.8 49.3 147.9

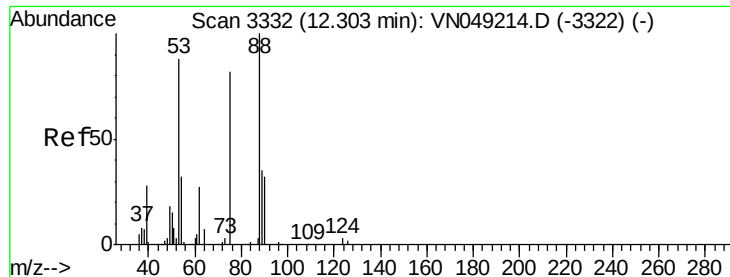


Abundance Ion 155.80 (155.50 to 156.50): VN049221.D (-3402) (-)

Ion 77.00 (76.70 to 77.70): VN049221.D (-3402) (-)

Ion 157.80 (157.50 to 158.50): VN049221.D (-3402) (-)

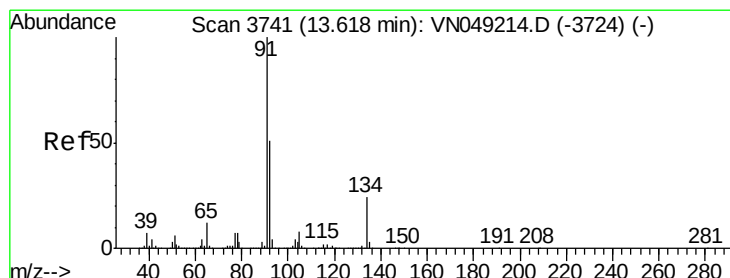
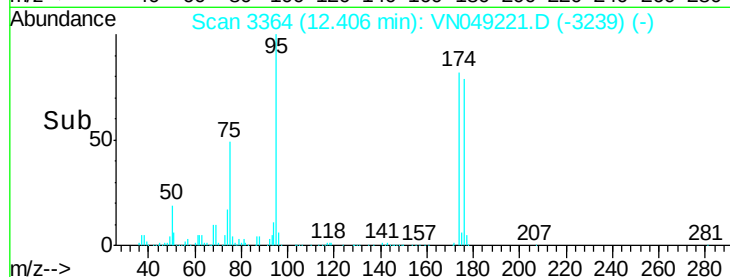
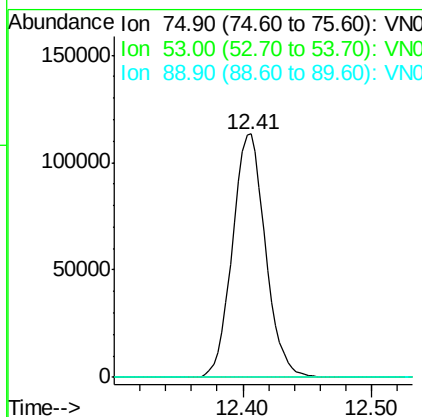
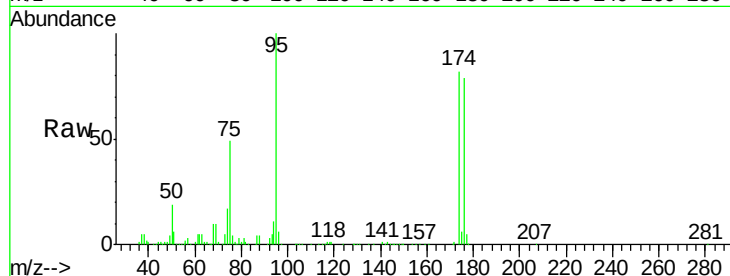




#81
trans-1,4-Dichloro-2-butene
Concen: 115.071 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.10 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

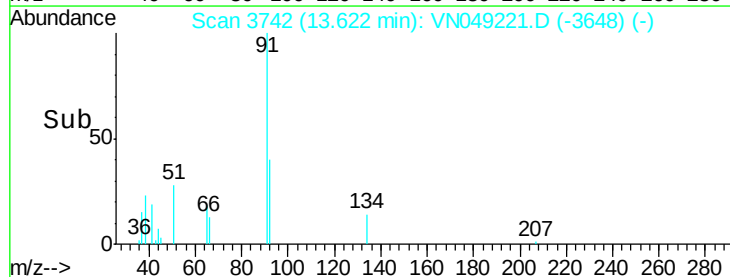
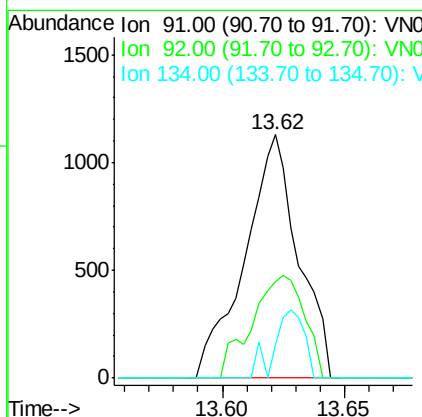
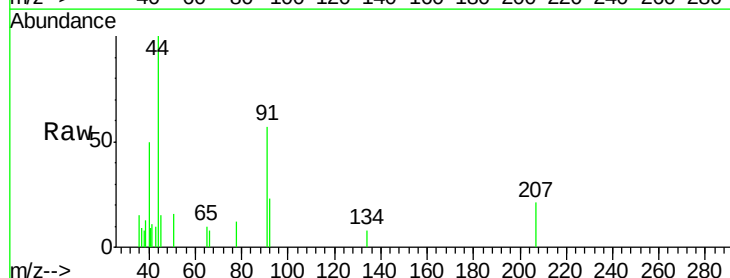
Instrument :
MSVOA_N
ClientSampled :

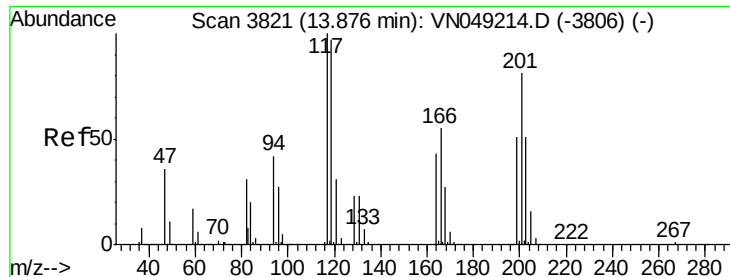
Tot Ion: 75 Resp: 201056
Ion Ratio Lower Upper
75 100
53 0.3 82.7 124.1#
89 0.0 36.5 54.7#



#89
n-Butylbenzene
Concen: 1.650 ug/l
RT: 13.62 min Scan# 3742
Delta R.T. 0.00 min
Lab File: VN049221.D
Acq: 14 Jun 2018 12:24

Tgt Ion: 91 Resp: 1710
Ion Ratio Lower Upper
91 100
92 41.7 25.1 75.4
134 15.7 12.0 36.0





#90

Hexachloroethane

Concen: Below Cal

RT: 13.61 min Scan# 3739

Delta R.T. -0.26 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

Instrument :

MSVOA_N

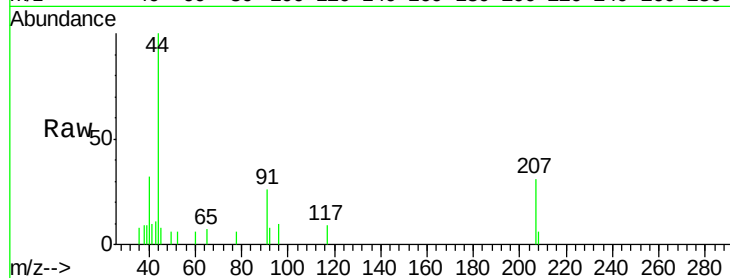
ClientSampled :

Tot Ion:117 Resp: 120

Ion Ratio Lower Upper

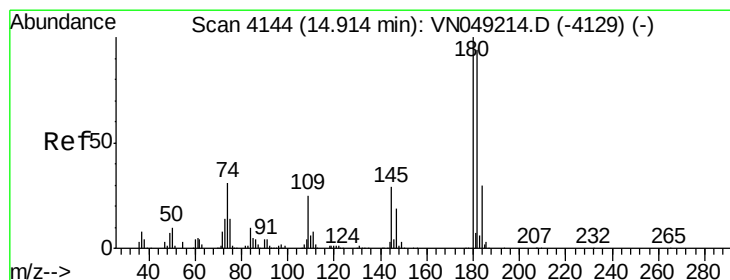
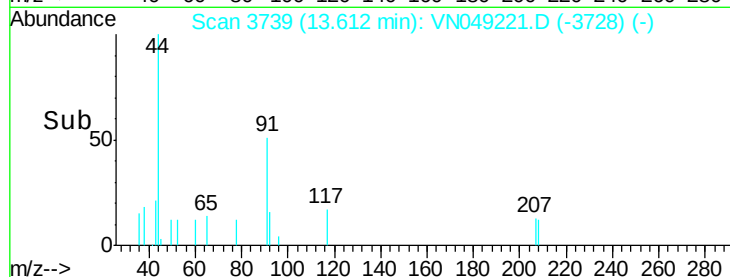
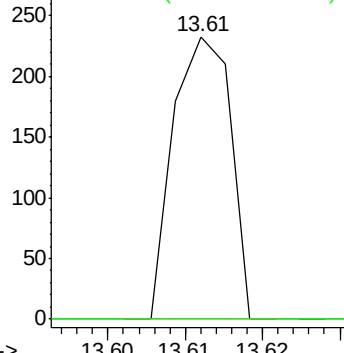
117 100

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



#93

1,2,4-Trichlorobenzene

Concen: 4.591 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. -0.00 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

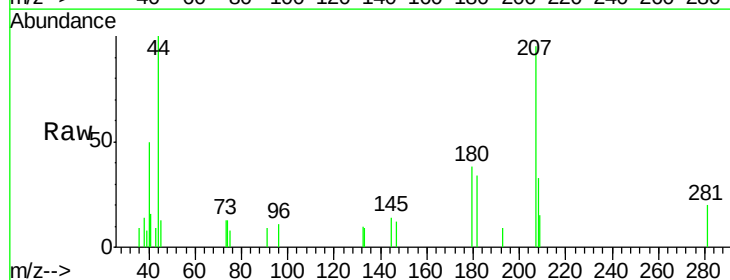
Tgt Ion:180 Resp: 1060

Ion Ratio Lower Upper

180 100

182 89.8 46.9 140.8

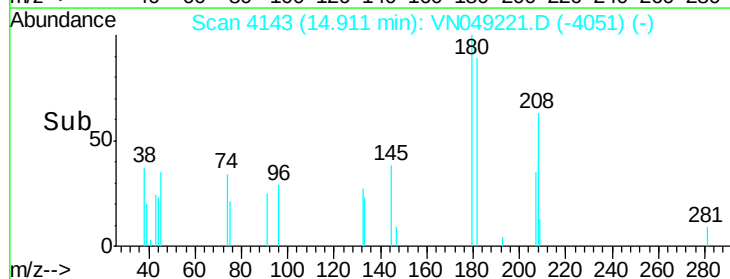
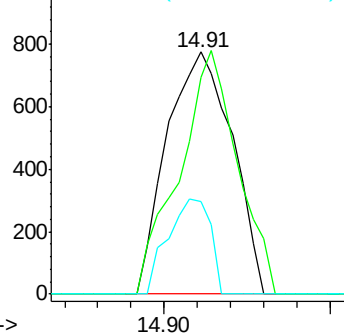
145 25.5 14.7 44.1

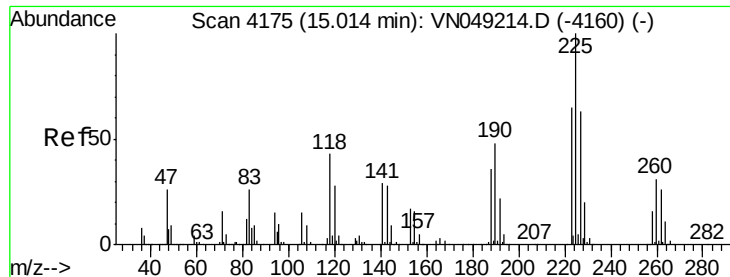


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.405 ug/l

RT: 15.02 min Scan# 4176

Delta R.T. 0.00 min

Lab File: VN049221.D

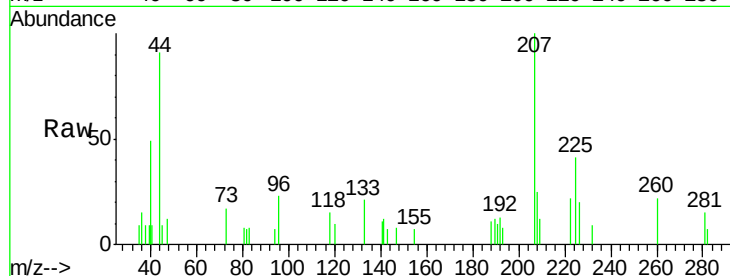
Acq: 14 Jun 2018 12:24

Instrument :

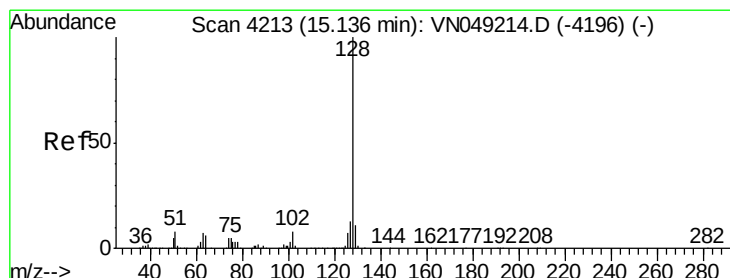
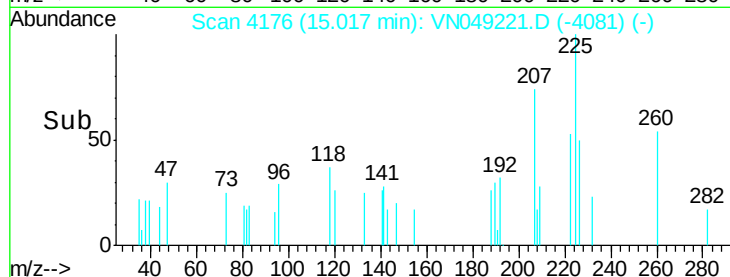
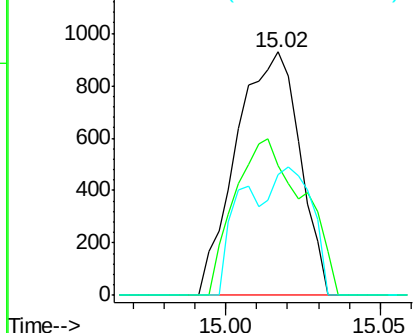
MSVOA_N

ClientSampled :

Tot Ion:	225	Resp:	1321
Ion	Ratio	Lower	Upper
225	100		
223	69.7	32.1	96.3
227	30.6	31.8	95.3#



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



#95

Naphthalene

Concen: 5.627 ug/l

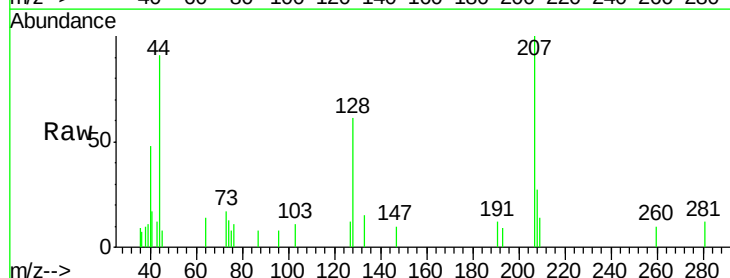
RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN049221.D

Acq: 14 Jun 2018 12:24

Tgt Ion:	128	Resp:	2422
Ion	Ratio	Lower	Upper
128	100		
127	18.9	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

