

Data Path : W:\HPCHEM1\MSVOA_N\DATA\VN012418\
 Data File : VN046546.D
 Acq On : 24 Jan 2018 15:45
 Operator : MD\SY
 Sample : I.BLK
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Quant Time: Jan 25 03:10:08 2018
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\624N012418W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 24 12:28:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	52798	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	333257	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	280544	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	129935	27.15	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	90.50%
60) 4-Bromofluorobenzene	12.41	95	131010	26.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.97%
63) Toluene-d8	10.09	98	402352	29.70	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.00%

Target Compounds

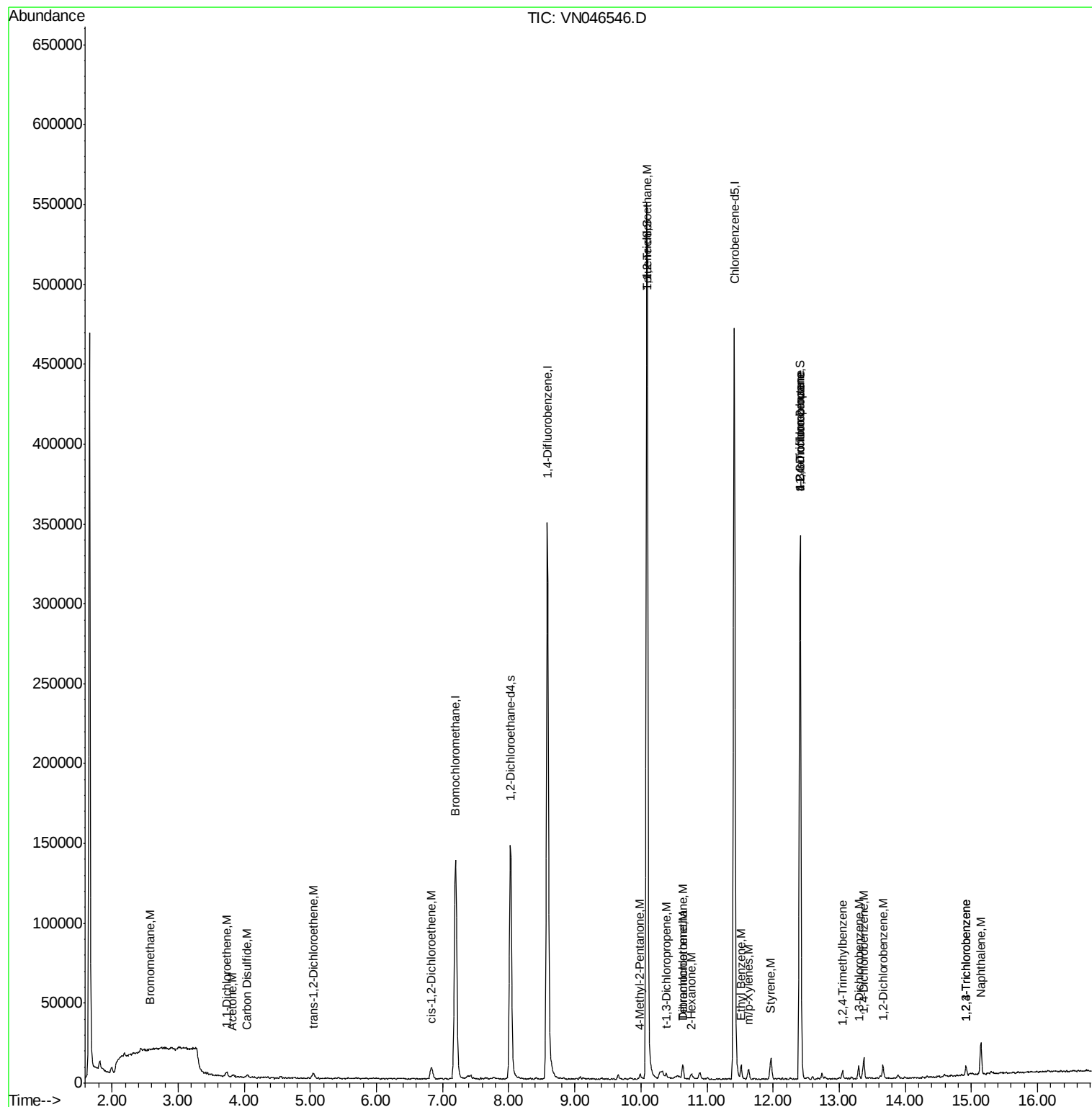
						Qvalue
5) Bromomethane	2.57	94	632	0.22	ug/l	# 38
10) 1,1-Dichloroethene	3.73	96	1955	0.56	ug/l	# 78
15) Acetone	3.82	58	315	0.63	ug/l	# 42
16) Carbon Disulfide	4.05	76	2533	0.22	ug/l	# 75
19) trans-1,2-Dichloroethene	5.04	96	2340	0.64	ug/l	# 84
22) cis-1,2-Dichloroethene	6.83	96	1037	0.24	ug/l	# 64
48) t-1,3-Dichloropropene	10.38	75	1762	0.27	ug/l	# 74
50) 1,1,2-Trichloroethane	10.10	97	10602	2.89	ug/l	# 1
53) Dibromochloromethane	10.63	129	2060	0.55	ug/l	# 11
58) 4-Methyl-2-Pentanone	9.99	43	2260	0.52	ug/l	# 92
59) 2-Hexanone	10.76	43	2916	0.95	ug/l	# 96
61) Tetrachloroethene	10.63	164	2012	0.64	ug/l	# 98
66) Ethyl Benzene	11.52	91	7250	0.38	ug/l	# 98
67) m/p-Xylenes	11.63	106	2147	0.32	ug/l	# 99
69) Styrene	11.97	104	6393	0.59	ug/l	# 91
72) 1,2,3-Trichloropropane	12.41	75	65178	17.55	ug/l	# 1
77) t-1,4-Dichloro-2-butene	12.41	75	65178	46.34	ug/l	# 13
80) 1,2,4-Trimethylbenzene	13.05	105	3411	0.23	ug/l	# 82
83) 1,3-Dichlorobenzene	13.29	146	3220	0.48	ug/l	# 96
84) 1,4-Dichlorobenzene	13.37	146	5388	0.81	ug/l	# 99
87) 1,2-Dichlorobenzene	13.66	146	3935	0.60	ug/l	# 96
89) 1,2,4-Trichlorobenzene	14.92	180	1949	0.51	ug/l	# 94
91) Naphthalene	15.14	128	17479	1.90	ug/l	# 98
92) 1,2,3-Trichlorobenzene	14.92	180	1949	0.53	ug/l	# 92

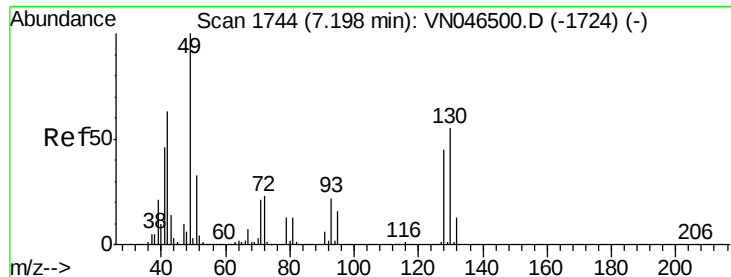
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_N\DATA\VN012418\
Data File : VN046546.D
Acq On : 24 Jan 2018 15:45
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Sample : I.BLK
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
I.BLK

Quant Time: Jan 25 03:10:08 2018
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\624N012418W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jan 24 12:28:49 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. 0.00 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

Instrument :

MSVOA_N

ClientSampled :

I.BLK

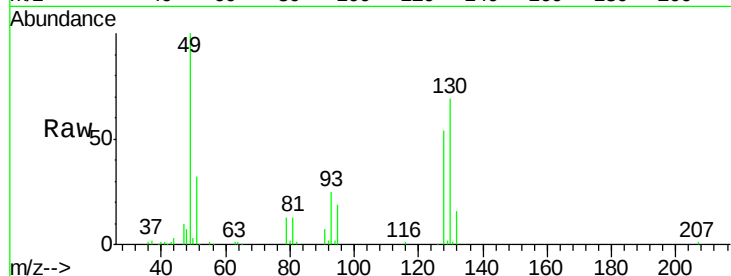
Tgt Ion:128 Resp: 52798

Ion Ratio Lower Upper

128 100

49 184.6 0.0 566.8

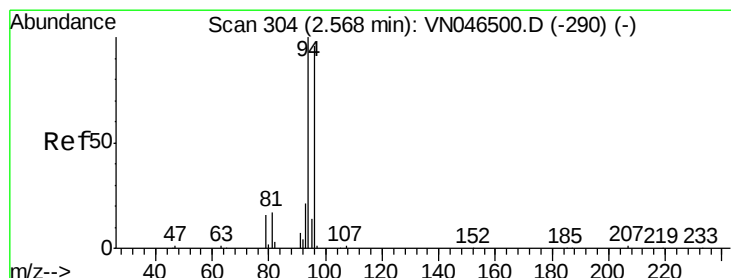
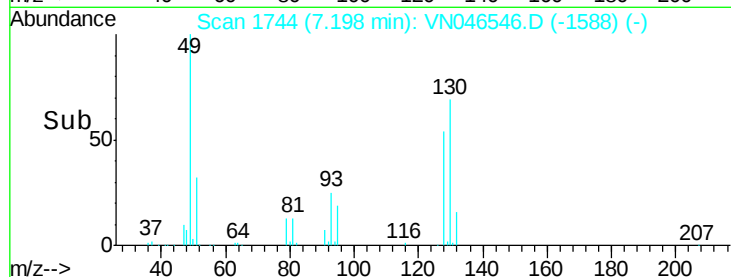
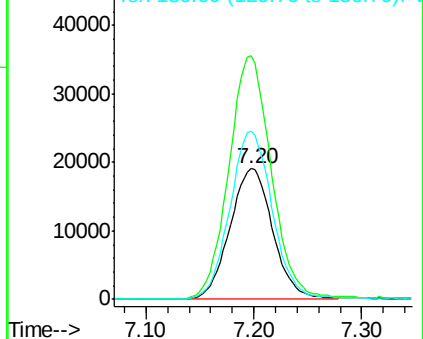
130 127.9 0.0 323.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.22 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.00 min

Lab File: VN046546.D

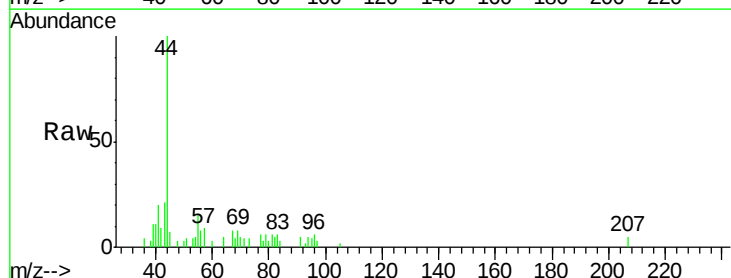
Acq: 24 Jan 2018 15:45

Tgt Ion: 94 Resp: 632

Ion Ratio Lower Upper

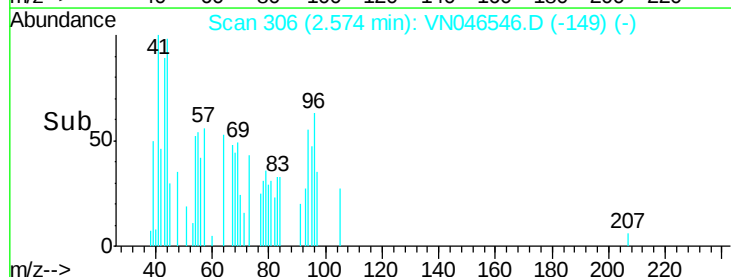
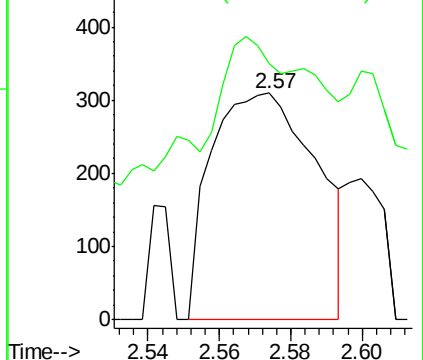
94 100

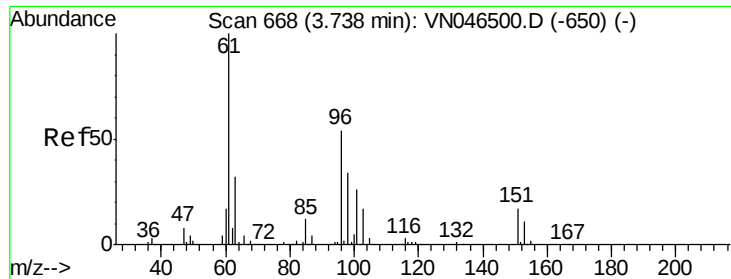
96 33.9 74.6 111.8#



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0





#10

1,1-Dichloroethene

Concen: 0.56 ug/l

RT: 3.73 min Scan# 666

Delta R.T. -0.00 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

Instrument :

MSVOA_N

ClientSampled :

I.BLK

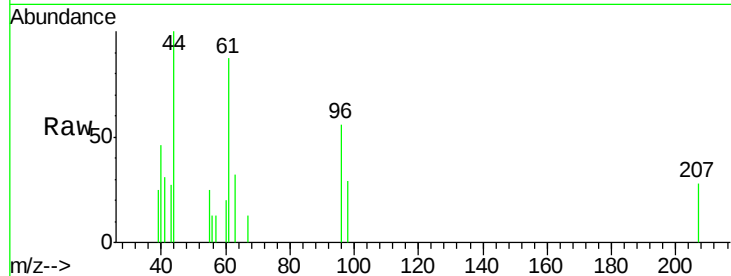
Tgt Ion: 96 Resp: 1955

Ion Ratio Lower Upper

96 100

61 155.5 152.4 228.6

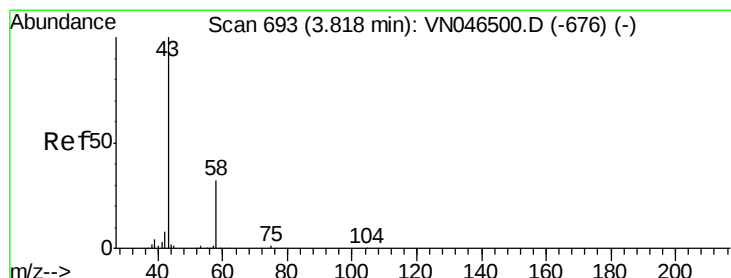
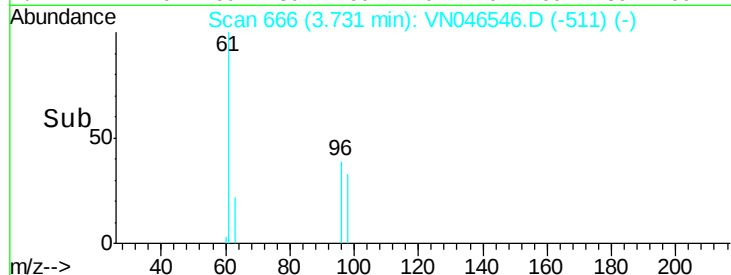
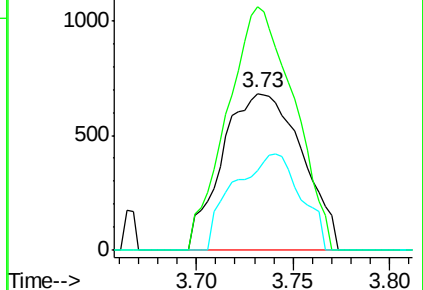
98 51.2 51.3 76.9#



Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#15

Acetone

Concen: 0.63 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN046546.D

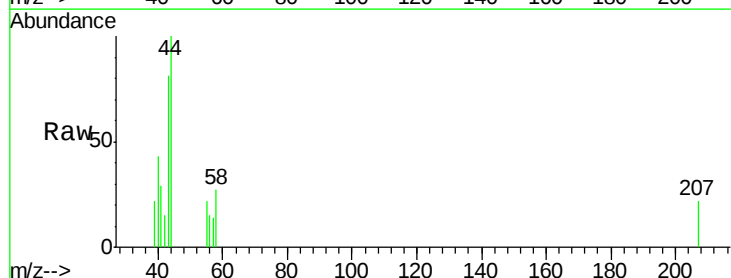
Acq: 24 Jan 2018 15:45

Tgt Ion: 58 Resp: 315

Ion Ratio Lower Upper

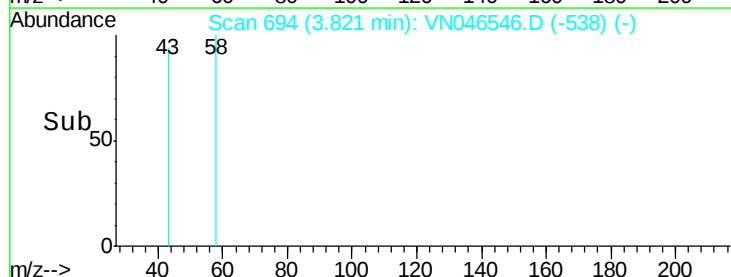
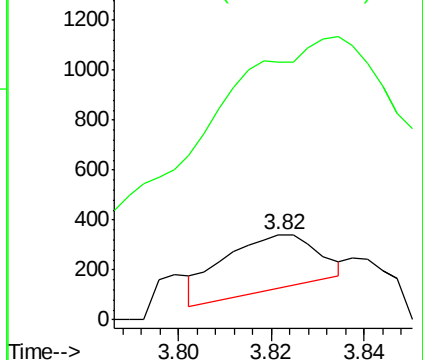
58 100

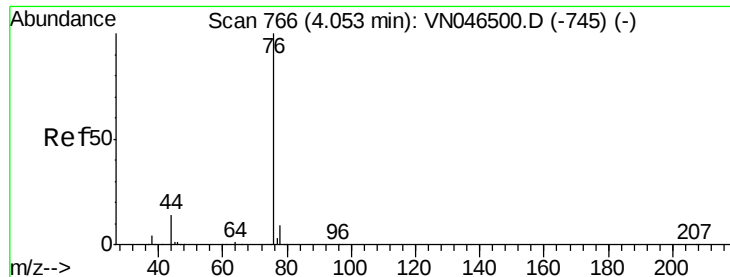
43 229.3 285.3 427.9#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#16

Carbon Disulfide

Concen: 0.22 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

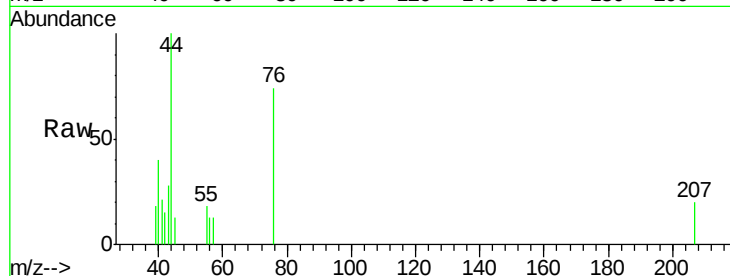
I.BLK

Tgt Ion: 76 Resp: 2533

Ion Ratio Lower Upper

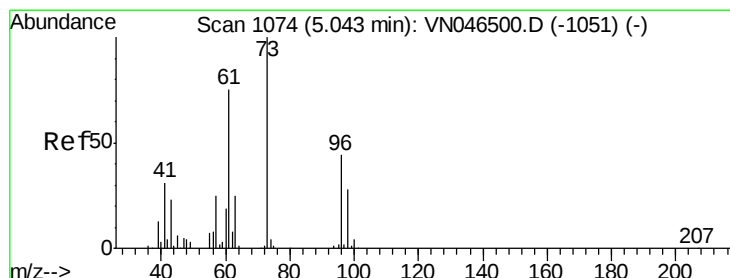
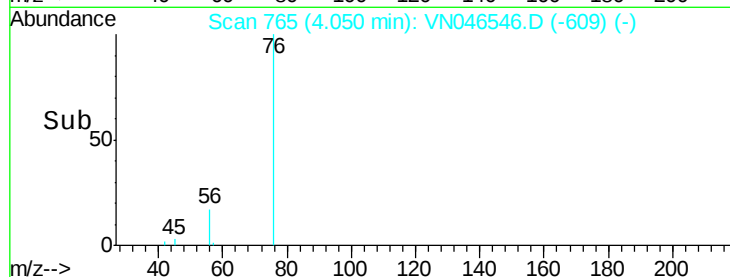
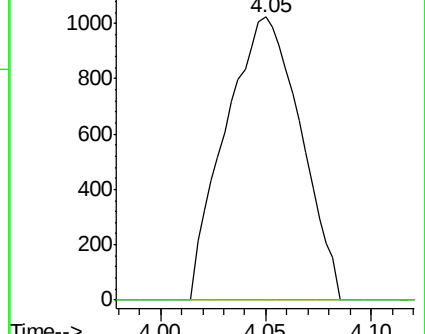
76 100

78 0.0 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0



#19

trans-1,2-Dichloroethene

Concen: 0.64 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

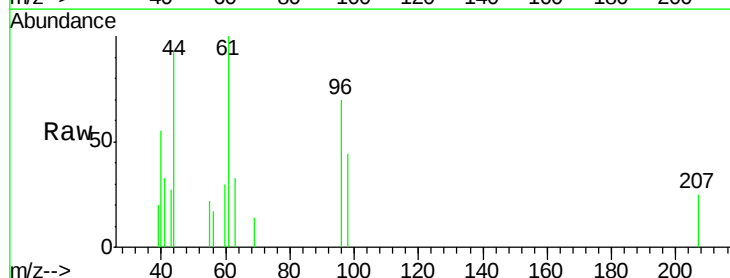
Tgt Ion: 96 Resp: 2340

Ion Ratio Lower Upper

96 100

61 143.3 137.3 205.9

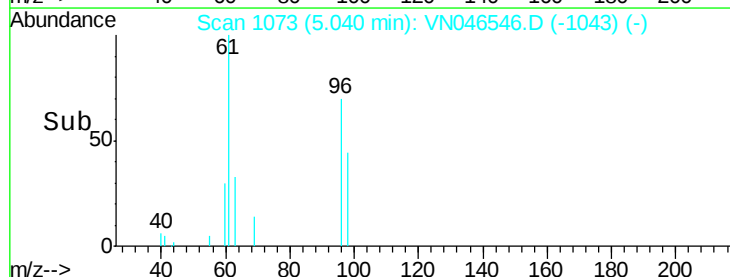
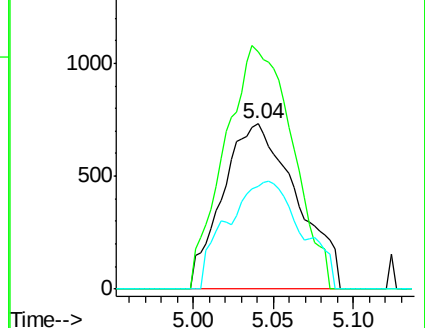
98 62.6 52.3 78.5

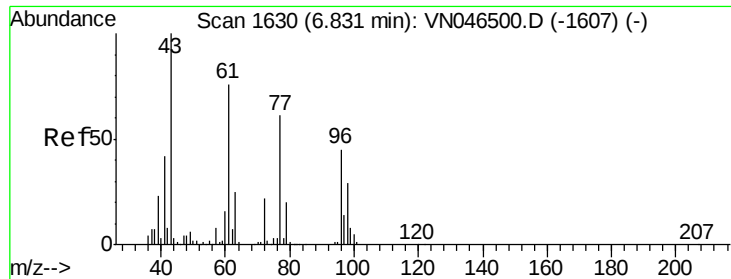


Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#22

cis-1,2-Dichloroethene

Concen: 0.24 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

Instrument :

MSVOA_N

ClientSampled :

I.BLK

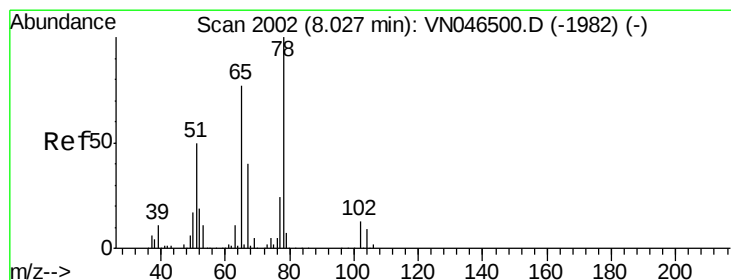
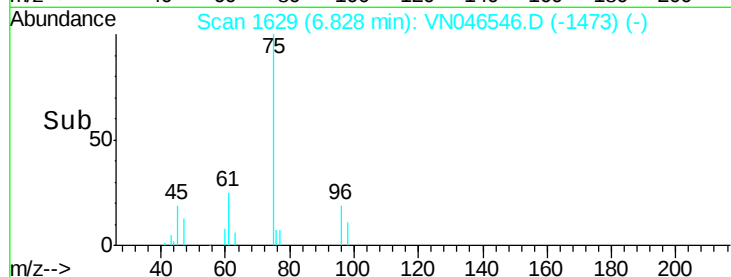
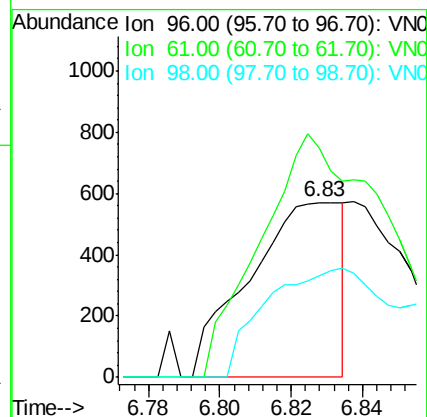
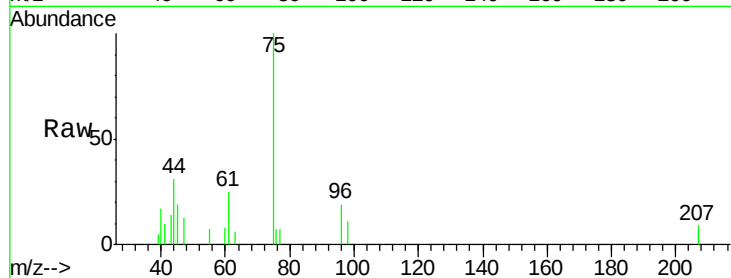
Tgt Ion: 96 Resp: 1037

Ion Ratio Lower Upper

96 100

61 116.6 141.3 211.9#

98 77.5 51.0 76.6#



#27

1,2-Dichloroethane-d4

Concen: 27.15 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN046546.D

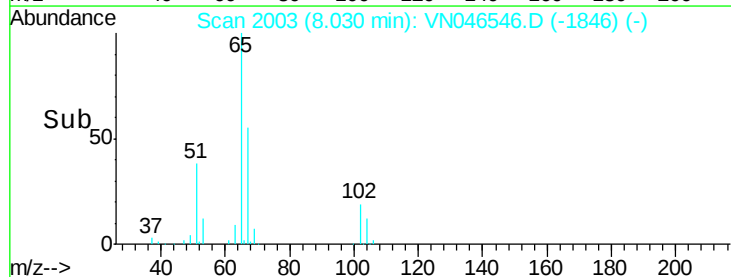
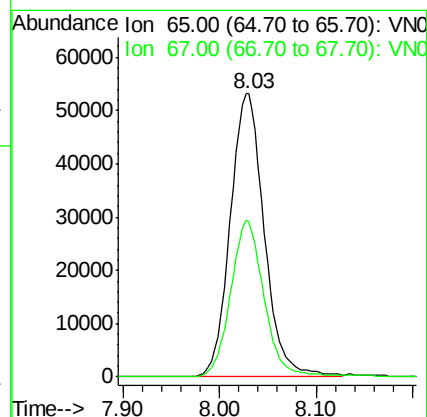
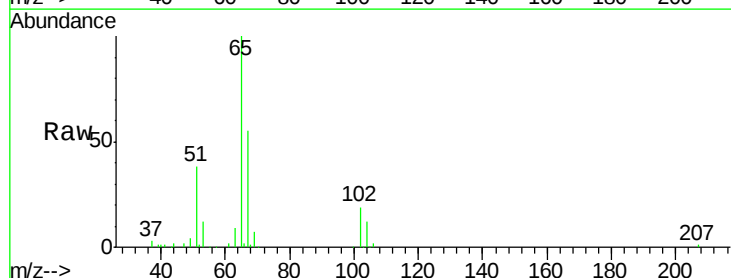
Acq: 24 Jan 2018 15:45

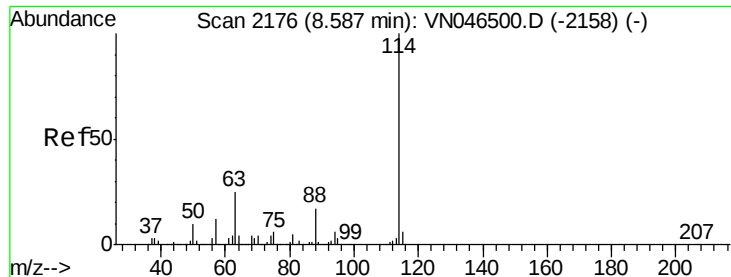
Tgt Ion: 65 Resp: 129935

Ion Ratio Lower Upper

65 100

67 54.1 43.4 65.2

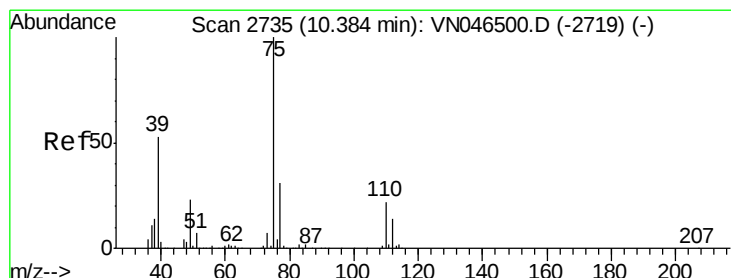
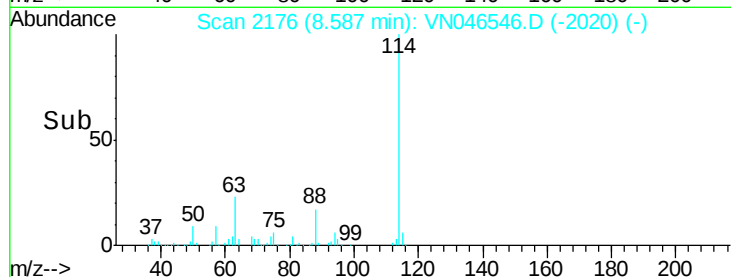
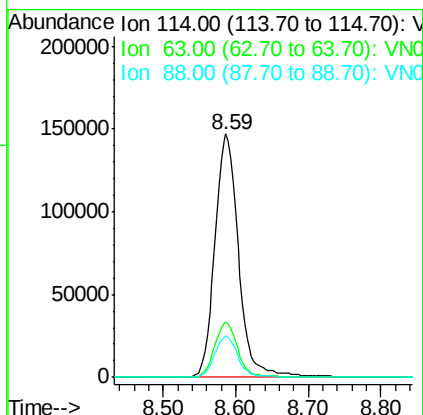
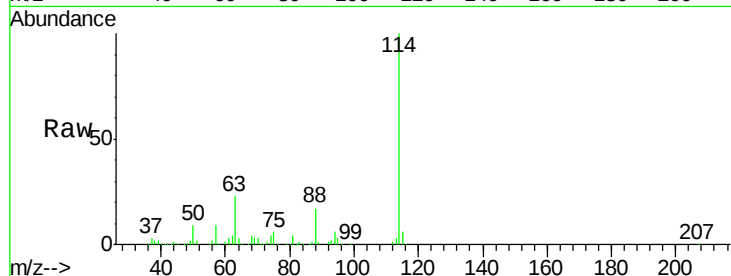




#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN046546.D
 Acq: 24 Jan 2018 15:45

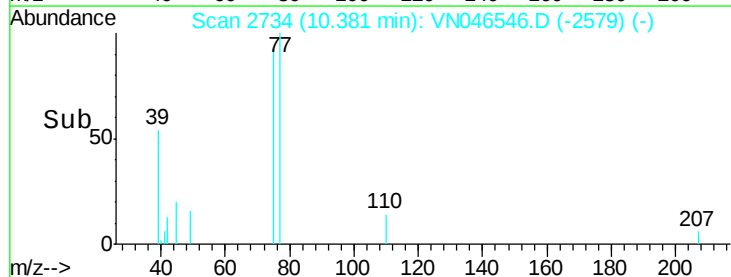
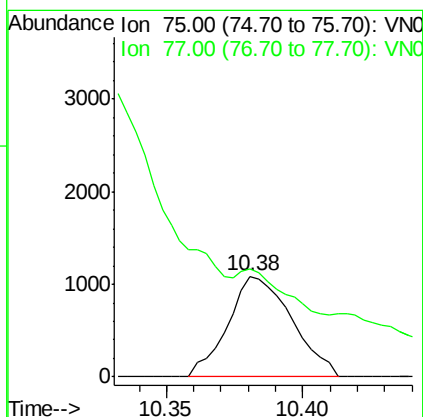
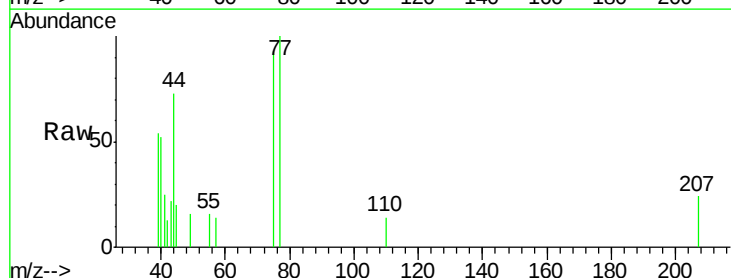
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

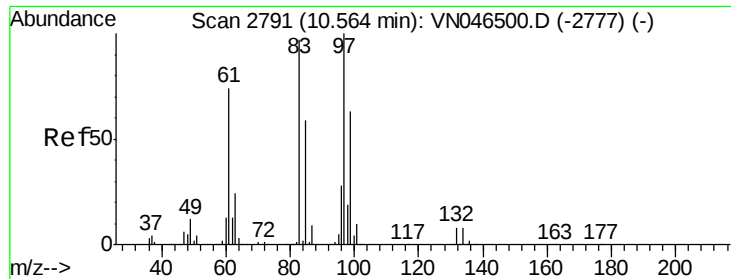
Tgt Ion: 114 Resp: 333257
 Ion Ratio Lower Upper
 114 100
 63 22.3 20.2 30.4
 88 16.7 14.2 21.2



#48
 t-1,3-Dichloropropene
 Concen: 0.27 ug/l
 RT: 10.38 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN046546.D
 Acq: 24 Jan 2018 15:45

Tgt Ion: 75 Resp: 1762
 Ion Ratio Lower Upper
 75 100
 77 45.3 25.0 37.4#

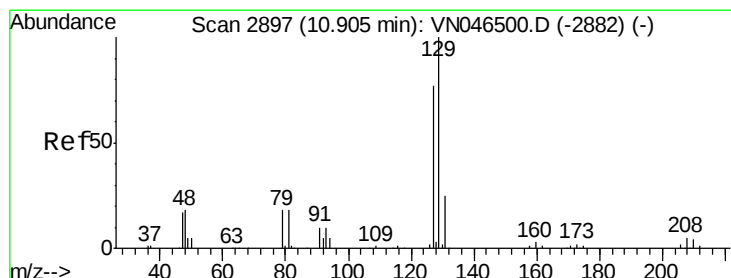
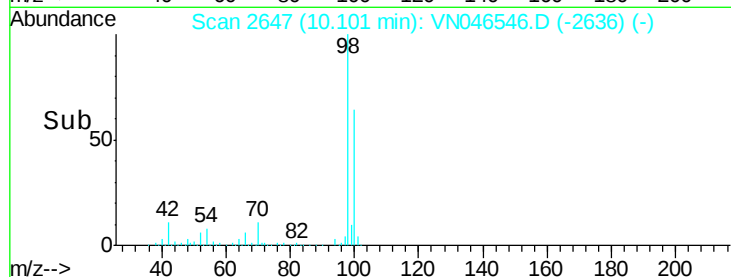
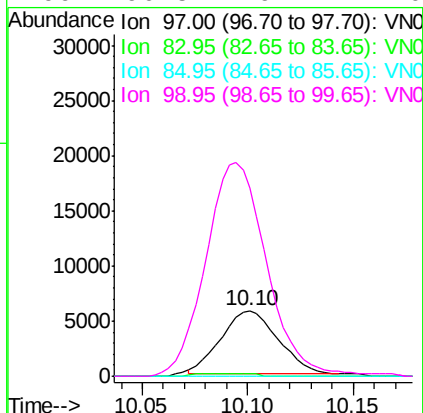
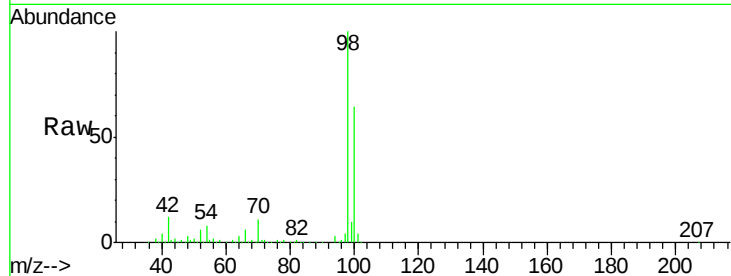




#50
 1,1,2-Trichloroethane
 Concen: 2.89 ug/l
 RT: 10.10 min Scan# 2647
 Delta R.T. -0.47 min
 Lab File: VN046546.D
 Acq: 24 Jan 2018 15:45

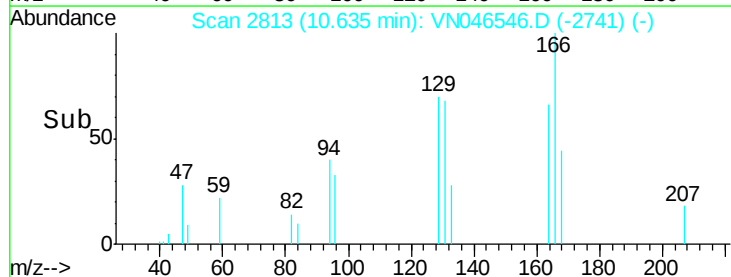
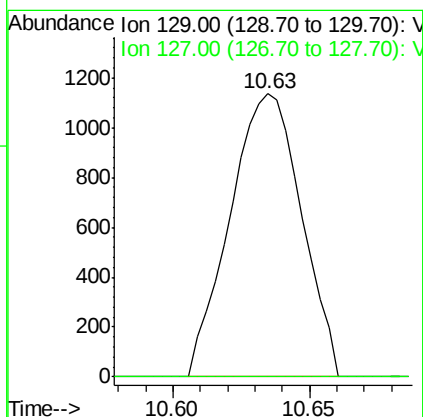
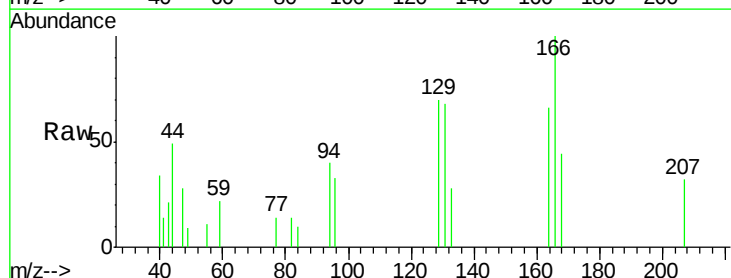
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

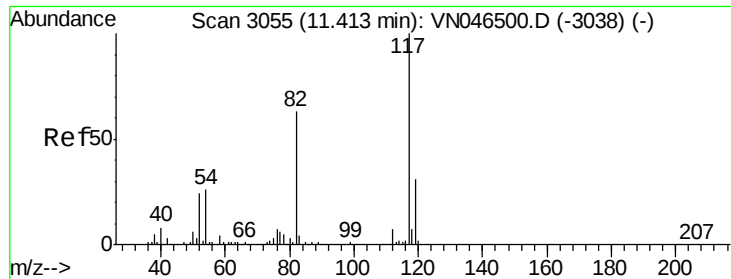
Tgt Ion: 97 Resp: 10602
 Ion Ratio Lower Upper
 97 100
 83 4.0 74.8 112.2#
 85 0.0 47.5 71.3#
 99 290.5 49.4 74.0#



#53
 Dibromochloromethane
 Concen: 0.55 ug/l
 RT: 10.63 min Scan# 2813
 Delta R.T. -0.27 min
 Lab File: VN046546.D
 Acq: 24 Jan 2018 15:45

Tgt Ion: 129 Resp: 2060
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#

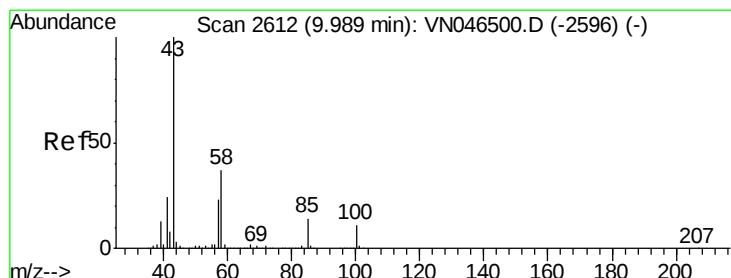
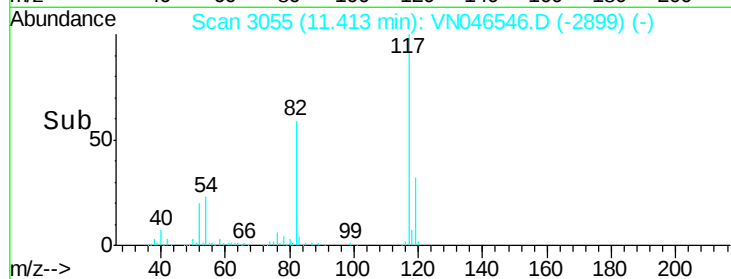
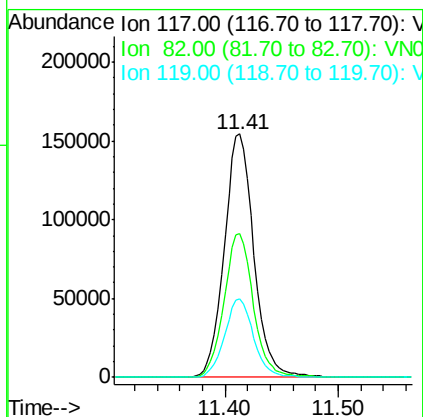
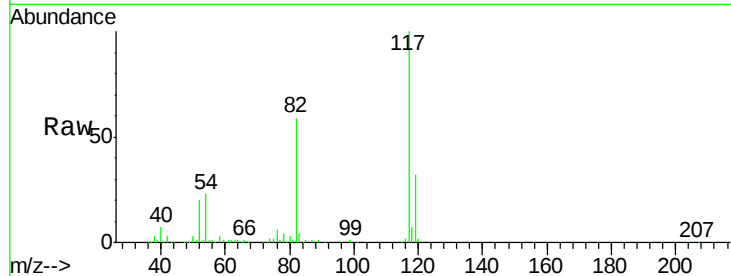




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3055
Delta R.T. 0.00 min
Lab File: VN046546.D
Acq: 24 Jan 2018 15:45

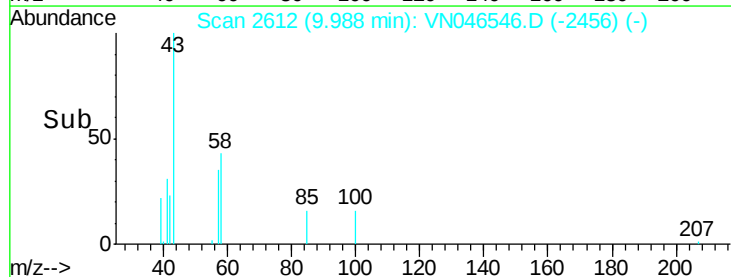
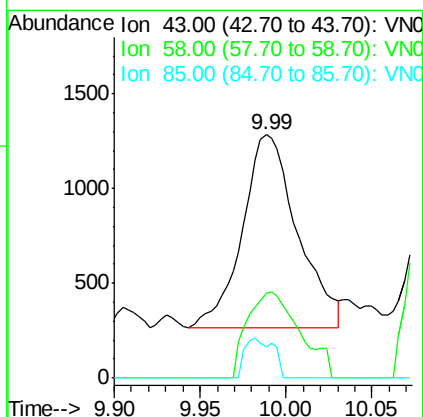
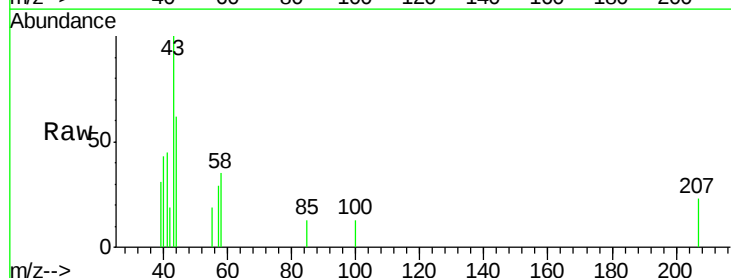
Instrument :
MSVOA_N
ClientSampled :
I.BLK

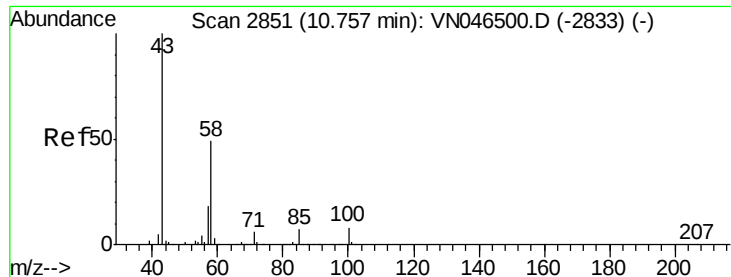
Tgt Ion: 117 Resp: 280544
Ion Ratio Lower Upper
117 100
82 58.6 51.5 77.3
119 31.9 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 0.52 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN046546.D
Acq: 24 Jan 2018 15:45

Tgt Ion: 43 Resp: 2260
Ion Ratio Lower Upper
43 100
58 39.9 29.4 44.2
85 7.7 11.5 17.3#





#59

2-Hexanone

Concen: 0.95 ug/l

RT: 10.76 min Scan# 2853

Delta R.T. 0.01 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

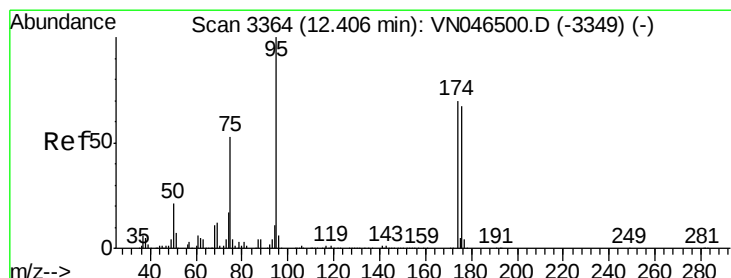
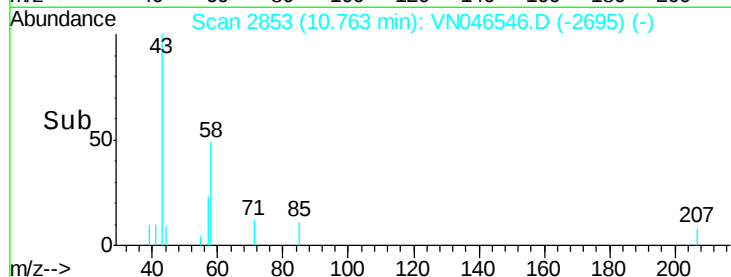
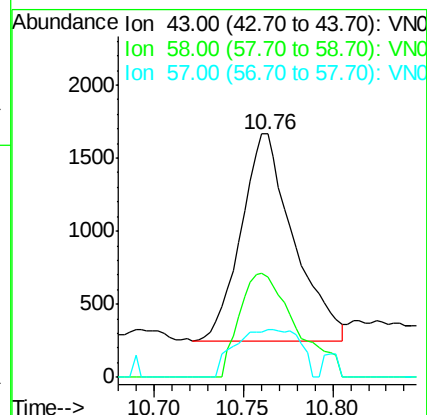
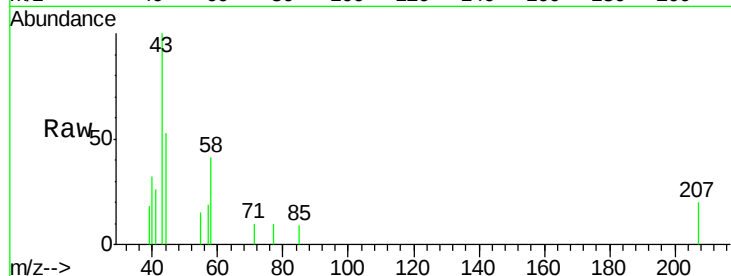
Tgt Ion: 43 Resp: 2916

Ion Ratio Lower Upper

43 100

58 52.7 41.4 62.0

57 13.1 14.9 22.3#



#60

4-Bromofluorobenzene

Concen: 26.09 ug/l

RT: 12.41 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

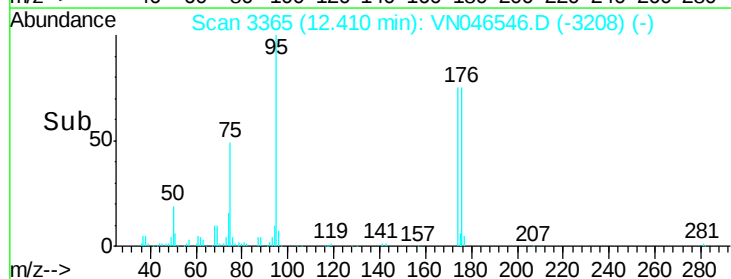
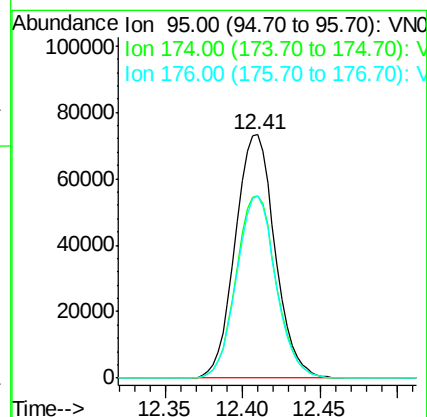
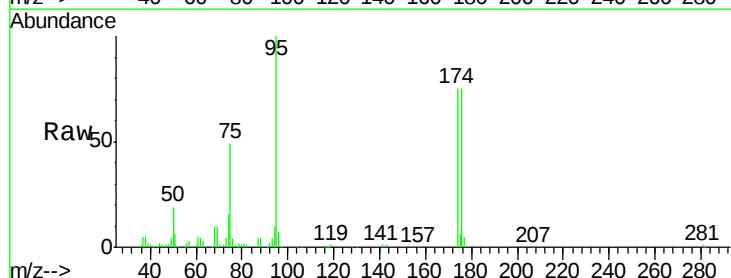
Tgt Ion: 95 Resp: 131010

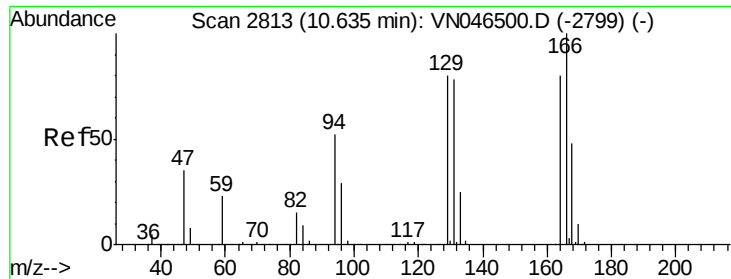
Ion Ratio Lower Upper

95 100

174 75.3 52.5 78.7

176 73.6 50.6 75.8

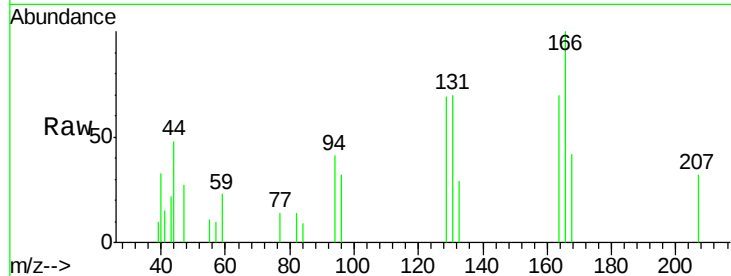




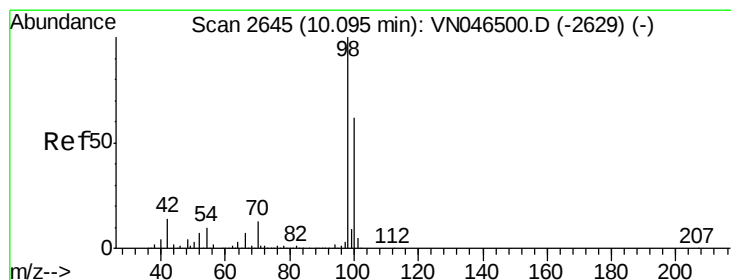
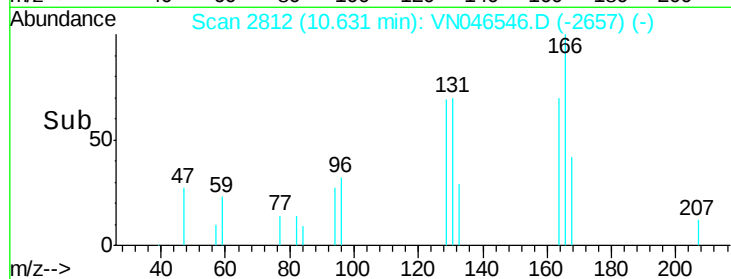
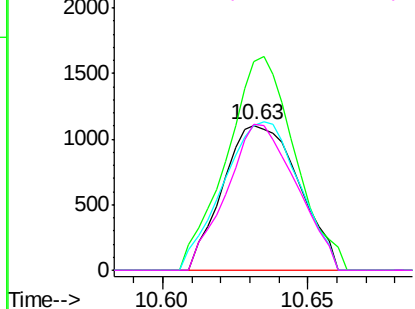
#61
Tetrachloroethene
Concen: 0.64 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN046546.D
Acq: 24 Jan 2018 15:45

Instrument :
MSVOA_N
ClientSampled :
I.BLK

Tgt Ion:164 Resp: 2012
Ion Ratio Lower Upper
164 100
166 127.8 101.6 152.4
129 99.4 83.8 125.6
131 100.7 79.8 119.8

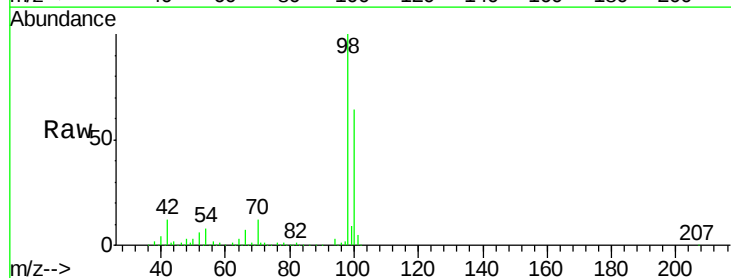


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

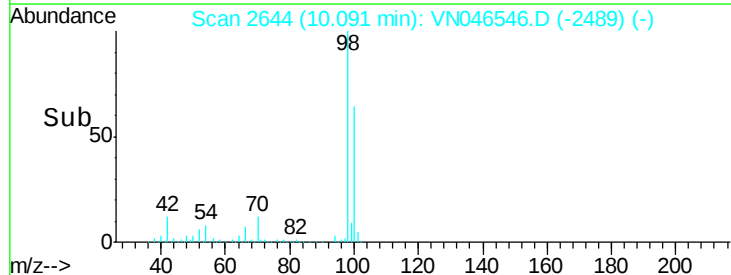
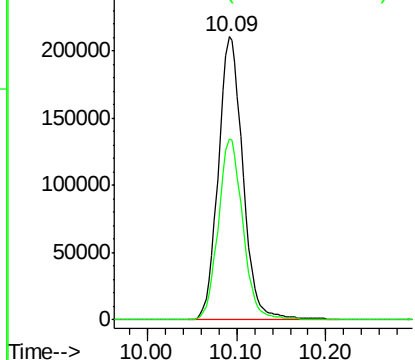


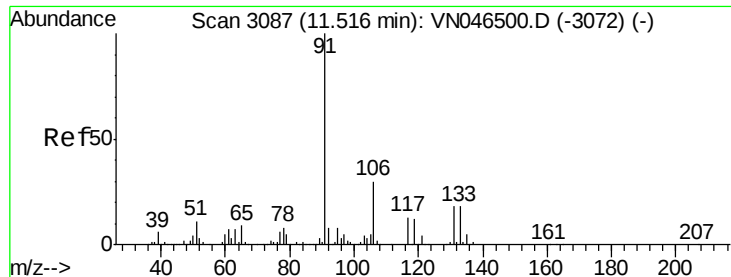
#63
Toluene-d8
Concen: 29.70 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN046546.D
Acq: 24 Jan 2018 15:45

Tgt Ion: 98 Resp: 402352
Ion Ratio Lower Upper
98 100
100 64.1 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): V
Ion 100.00 (99.70 to 100.70): V





#66

Ethyl Benzene

Concen: 0.38 ug/l

RT: 11.52 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

Instrument :

MSVOA_N

ClientSampled :

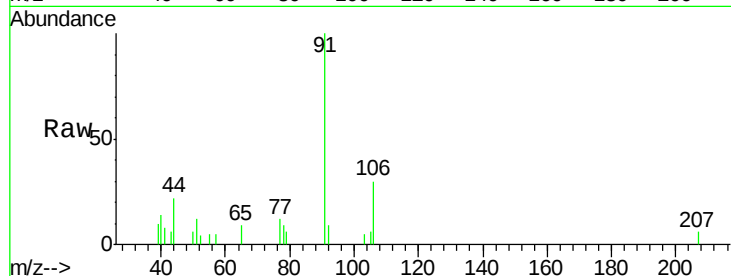
I.BLK

Tgt Ion: 91 Resp: 7250

Ion Ratio Lower Upper

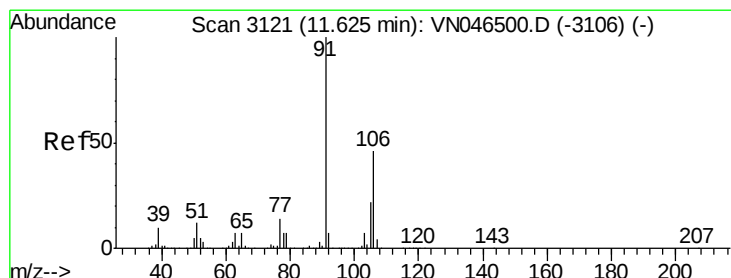
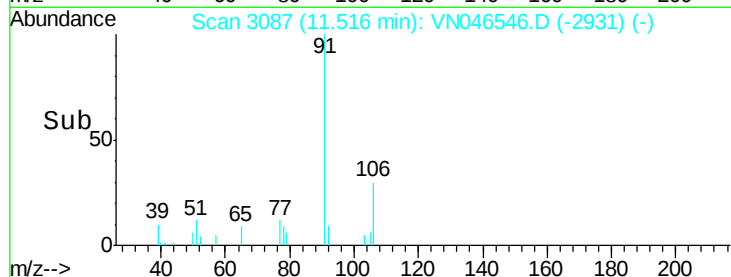
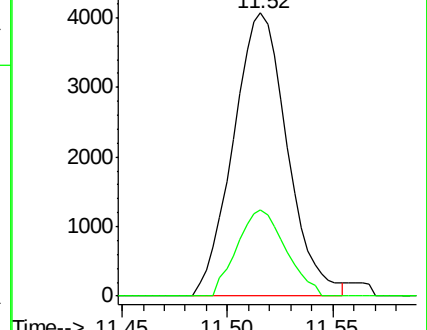
91 100

106 30.4 23.4 35.2



Abundance Ion 91.00 (90.70 to 91.70): VN046546.D (-2931) (-)

Ion 106.00 (105.70 to 106.70): VN046546.D (-2931) (-)



#67

m/p-Xylenes

Concen: 0.32 ug/l

RT: 11.63 min Scan# 3122

Delta R.T. 0.00 min

Lab File: VN046546.D

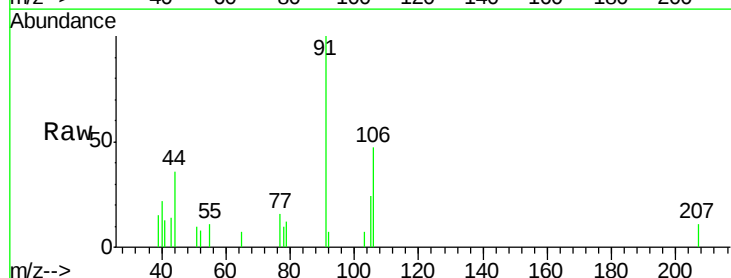
Acq: 24 Jan 2018 15:45

Tgt Ion: 106 Resp: 2147

Ion Ratio Lower Upper

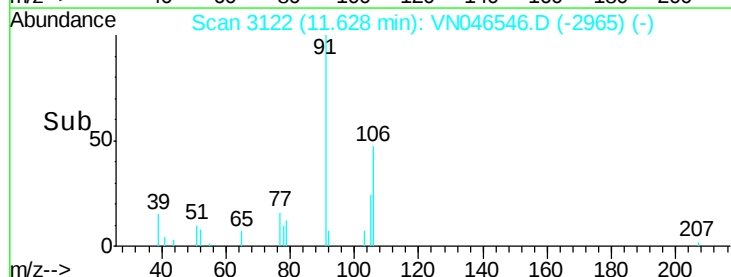
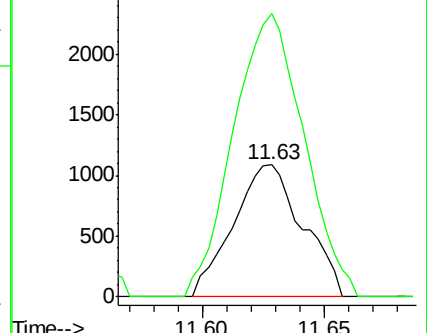
106 100

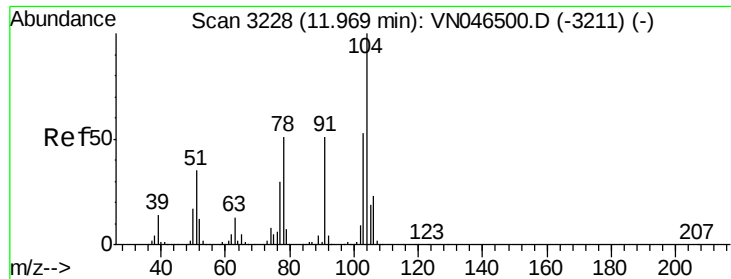
91 218.3 173.8 260.8



Abundance Ion 106.00 (105.70 to 106.70): VN046546.D (-2965) (-)

Ion 91.00 (90.70 to 91.70): VN046546.D (-2965) (-)

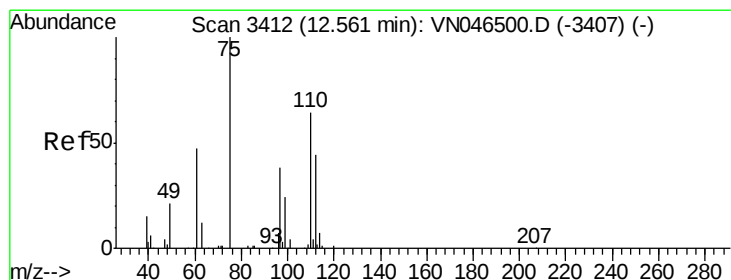
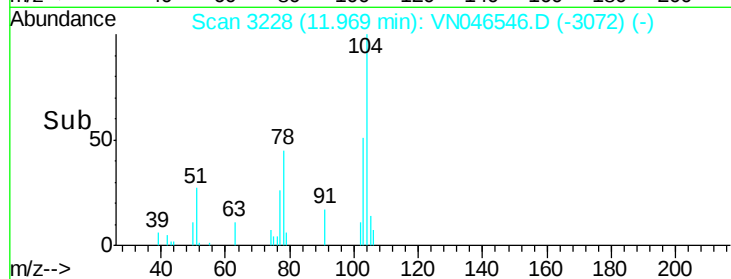
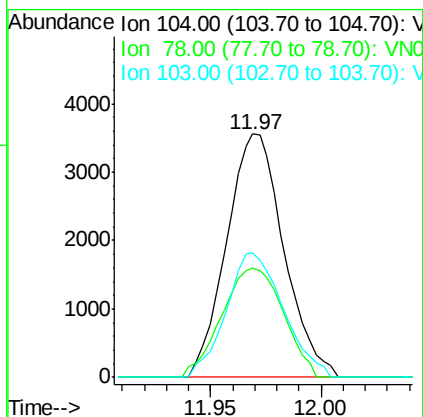
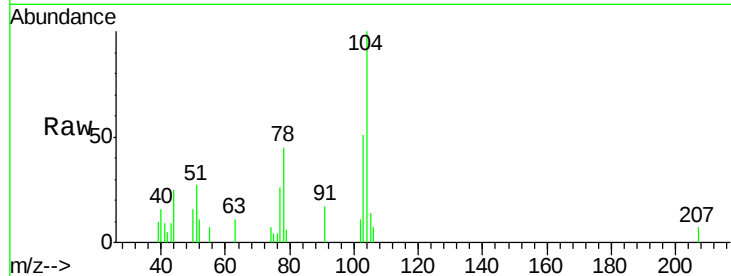




#69
 Styrene
 Concen: 0.59 ug/l
 RT: 11.97 min Scan# 3228
 Delta R.T. 0.00 min
 Lab File: VN046546.D
 Acq: 24 Jan 2018 15:45

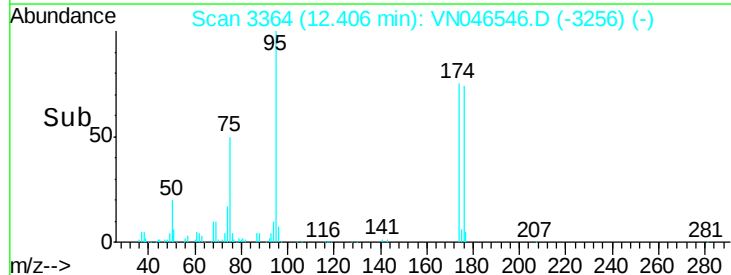
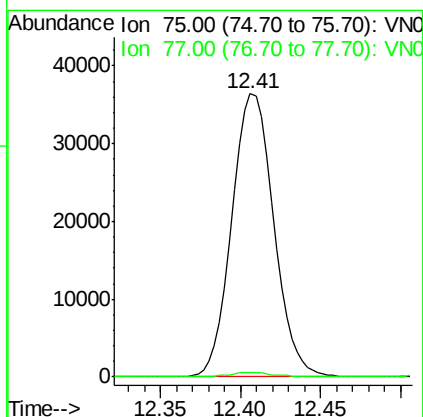
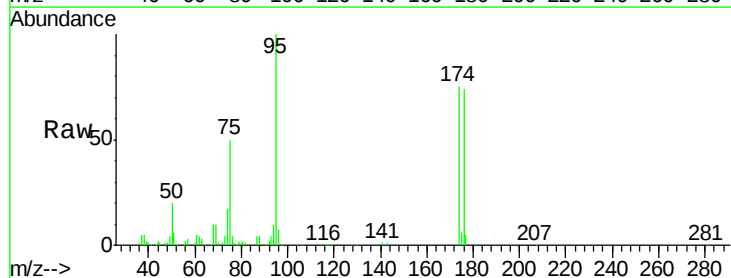
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

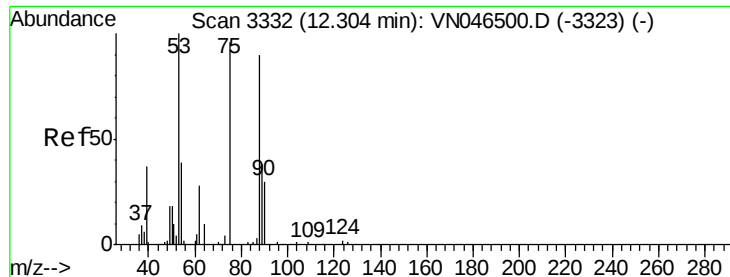
Tgt Ion: 104 Resp: 6393
 Ion Ratio Lower Upper
 104 100
 78 48.2 45.5 68.3
 103 51.1 45.0 67.4



#72
 1,2,3-Trichloropropane
 Concen: 17.55 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. -0.15 min
 Lab File: VN046546.D
 Acq: 24 Jan 2018 15:45

Tgt Ion: 75 Resp: 65178
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 479.2





#77

t-1,4-Dichloro-2-butene

Concen: 46.34 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

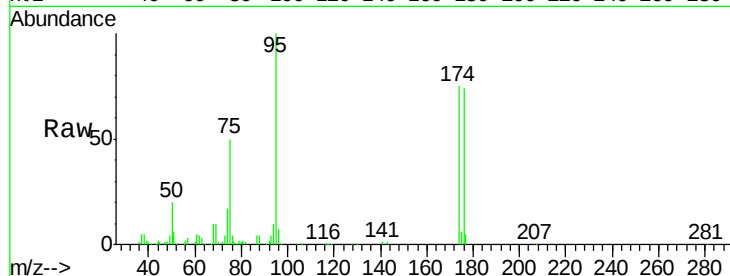
Tgt Ion: 75 Resp: 65178

Ion Ratio Lower Upper

75 100

53 0.0 46.8 140.3#

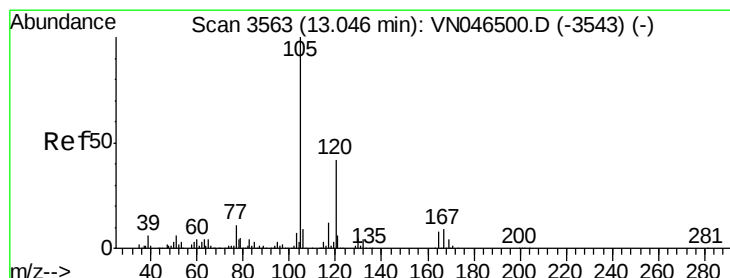
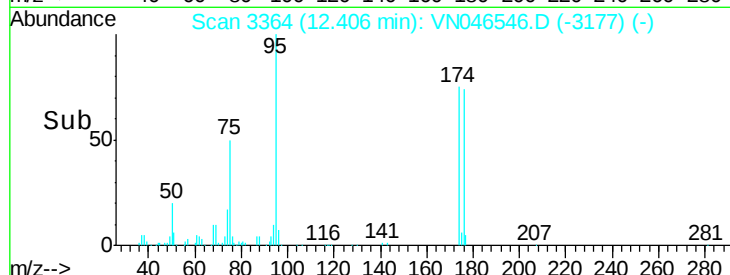
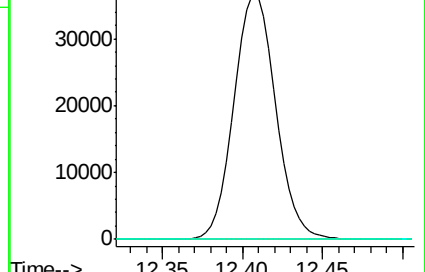
89 0.0 20.2 60.5#



Abundance Ion 75.00 (74.70 to 75.70): VN046546.D (-3177) (-)

Ion 53.00 (52.70 to 53.70): VN046546.D (-3177) (-)

Ion 89.00 (88.70 to 89.70): VN046546.D (-3177) (-)



#80

1,2,4-Trimethylbenzene

Concen: 0.23 ug/l

RT: 13.05 min Scan# 3564

Delta R.T. 0.00 min

Lab File: VN046546.D

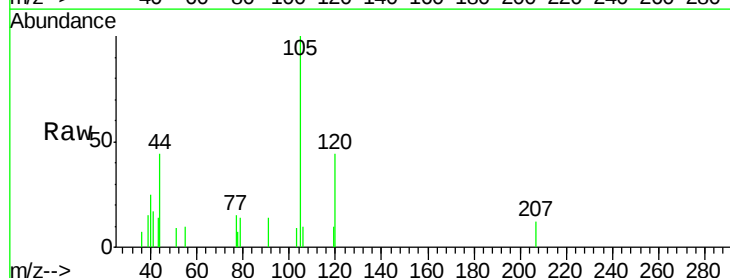
Acq: 24 Jan 2018 15:45

Tgt Ion: 105 Resp: 3411

Ion Ratio Lower Upper

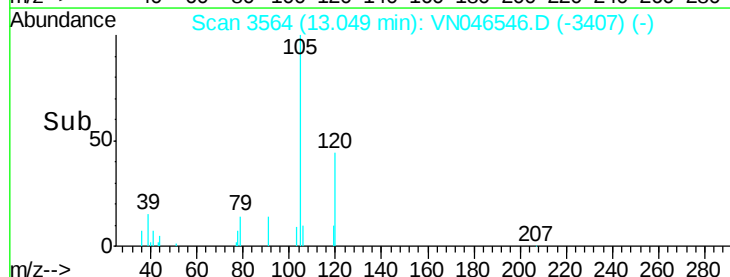
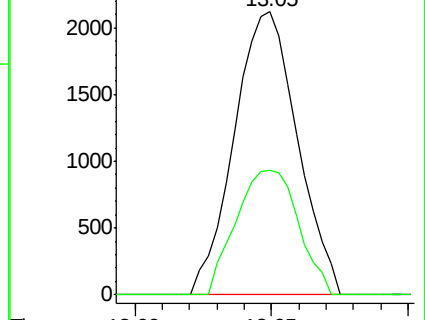
105 100

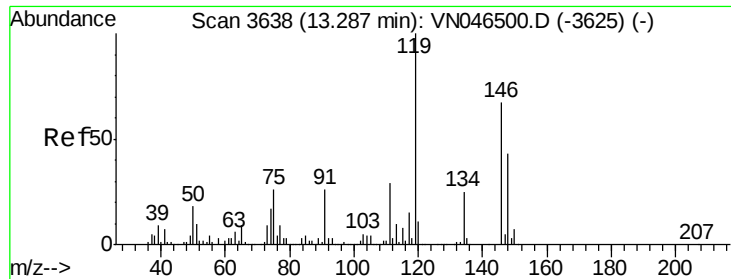
120 43.2 0.0 0.2#



Abundance Ion 105.00 (104.70 to 105.70): VN046546.D (-3407) (-)

Ion 120.00 (119.70 to 120.70): VN046546.D (-3407) (-)

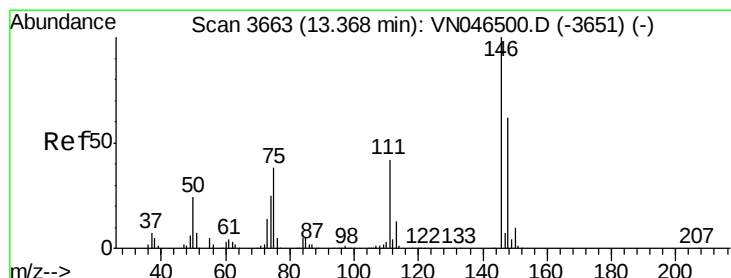
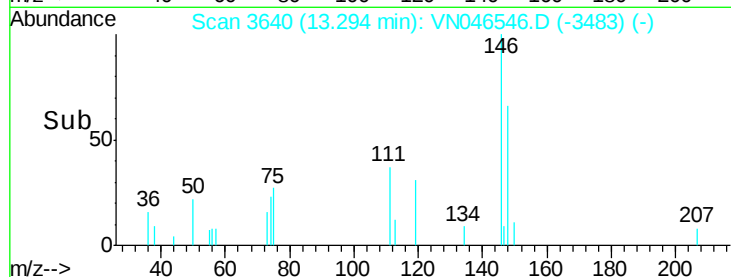
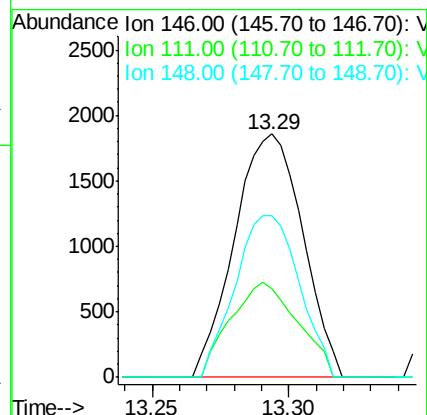
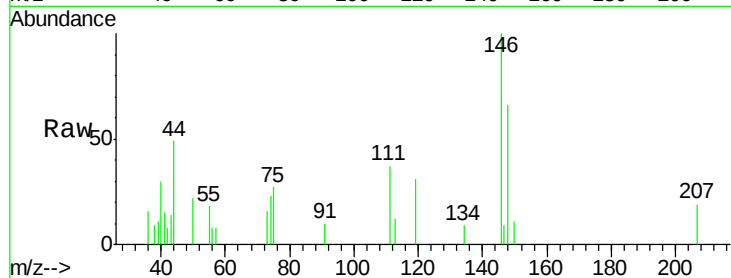




#83
 1,3-Dichlorobenzene
 Concen: 0.48 ug/l
 RT: 13.29 min Scan# 3640
 Delta R.T. 0.00 min
 Lab File: VN046546.D
 Acq: 24 Jan 2018 15:45

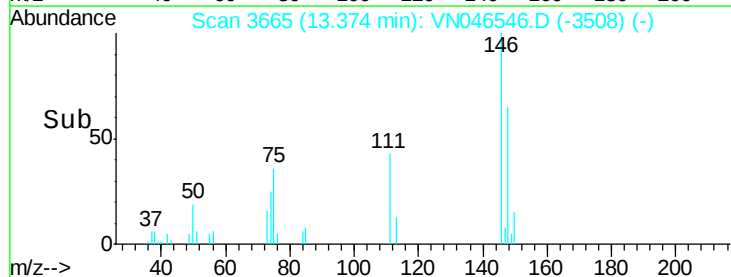
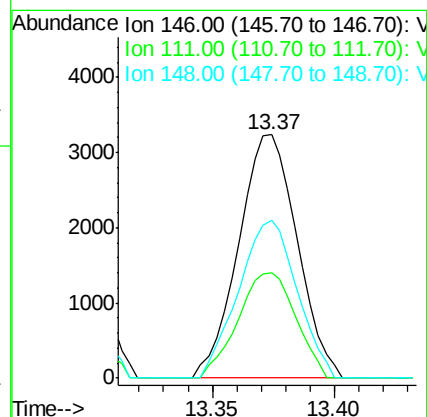
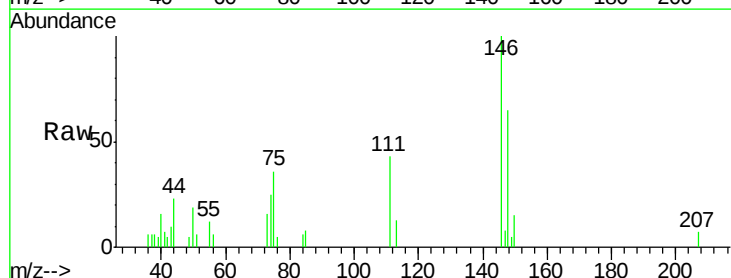
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

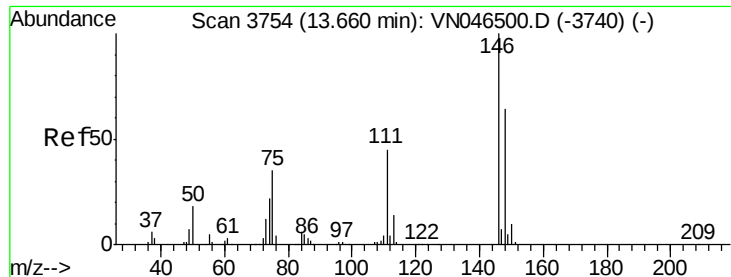
Tgt Ion:146 Resp: 3220
 Ion Ratio Lower Upper
 146 100
 111 38.4 22.3 66.9
 148 62.5 31.3 93.9



#84
 1,4-Dichlorobenzene
 Concen: 0.81 ug/l
 RT: 13.37 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VN046546.D
 Acq: 24 Jan 2018 15:45

Tgt Ion:146 Resp: 5388
 Ion Ratio Lower Upper
 146 100
 111 42.8 21.6 64.8
 148 64.7 31.8 95.3





#87

1,2-Dichlorobenzene

Concen: 0.60 ug/l

RT: 13.66 min Scan# 3754

Delta R.T. 0.00 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

Instrument :

MSVOA_N

ClientSampled :

I.BLK

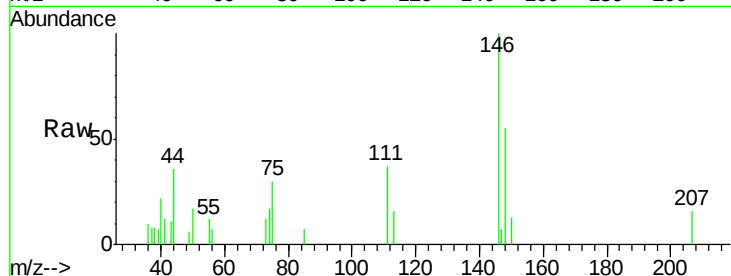
Tgt Ion:146 Resp: 3935

Ion Ratio Lower Upper

146 100

111 40.5 22.9 68.8

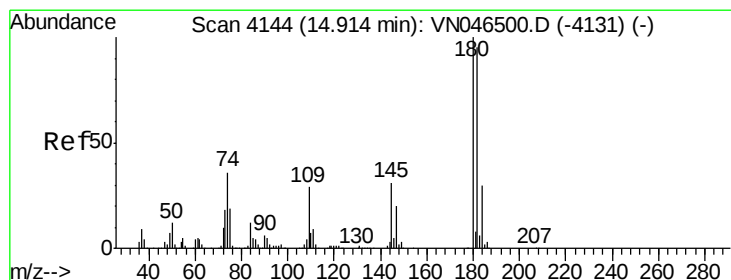
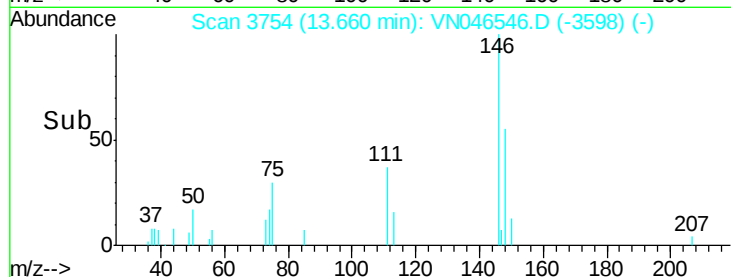
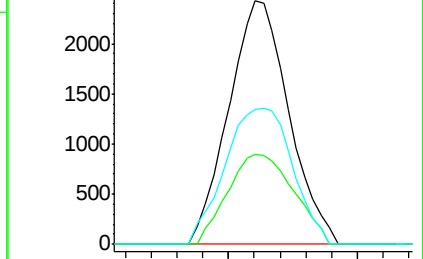
148 62.7 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#89

1,2,4-Trichlorobenzene

Concen: 0.51 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. 0.00 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

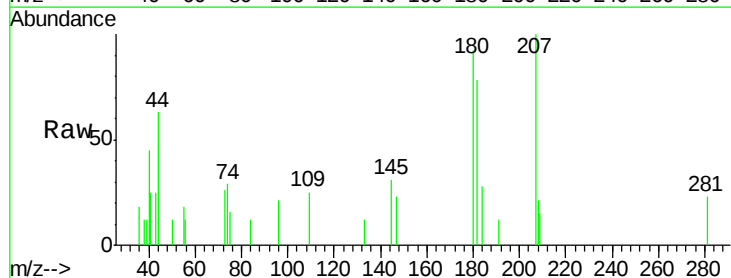
Tgt Ion:180 Resp: 1949

Ion Ratio Lower Upper

180 100

182 90.7 75.7 113.5

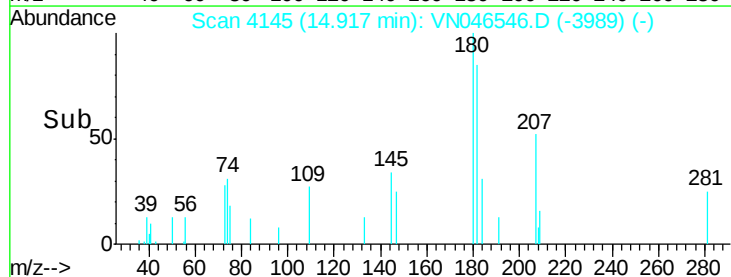
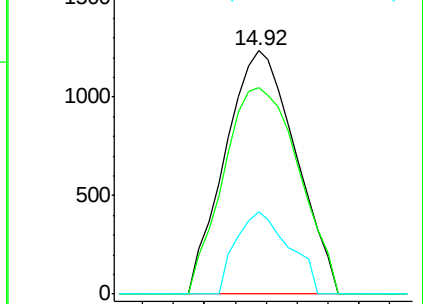
145 25.6 25.2 37.8

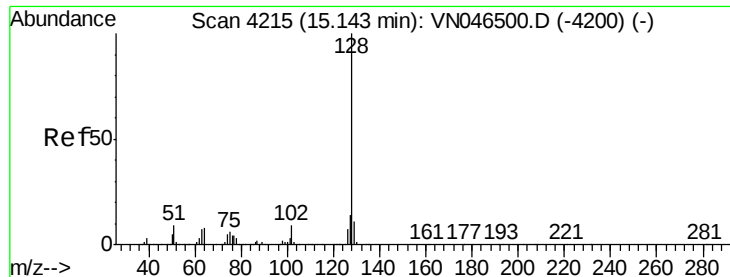


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#91

Naphthalene

Concen: 1.90 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.00 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

Instrument :

MSVOA_N

ClientSampled :

I.BLK

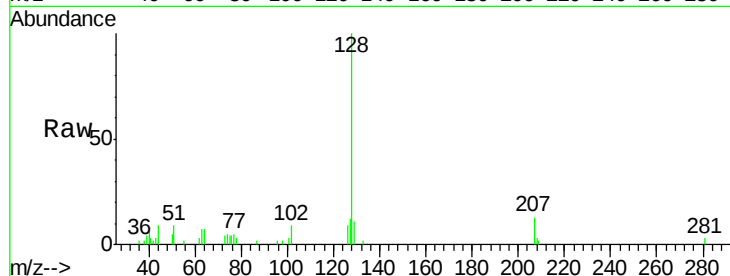
Tgt Ion:128 Resp: 17479

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.2

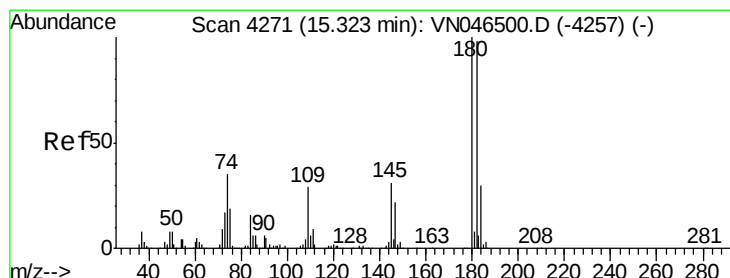
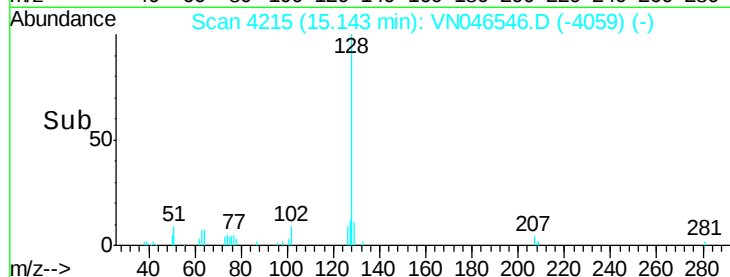
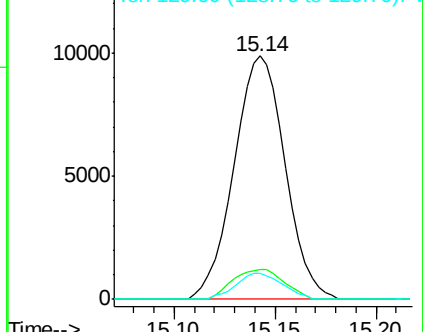
129 9.9 8.7 13.1



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



#92

1,2,3-Trichlorobenzene

Concen: 0.53 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. -0.41 min

Lab File: VN046546.D

Acq: 24 Jan 2018 15:45

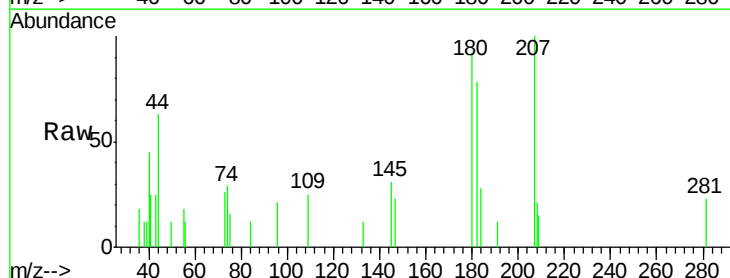
Tgt Ion:180 Resp: 1949

Ion Ratio Lower Upper

180 100

182 90.7 0.0 190.8

145 25.6 0.0 68.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

