

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN063018\
 Data File : VN049649.D
 Acq On : 30 Jun 2018 16:09
 Operator : MD\SY
 Sample : J3807-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 02 01:23:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1325731	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2116374	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1769522	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	649727	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	879459	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
35) Dibromofluoromethane	7.59	113	775738	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
50) Toluene-d8	10.09	98	2867829	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	
62) 4-Bromofluorobenzene	12.40	95	826949	39.11	ug/l	0.00
Spiked Amount			Recovery	=	78.22%	

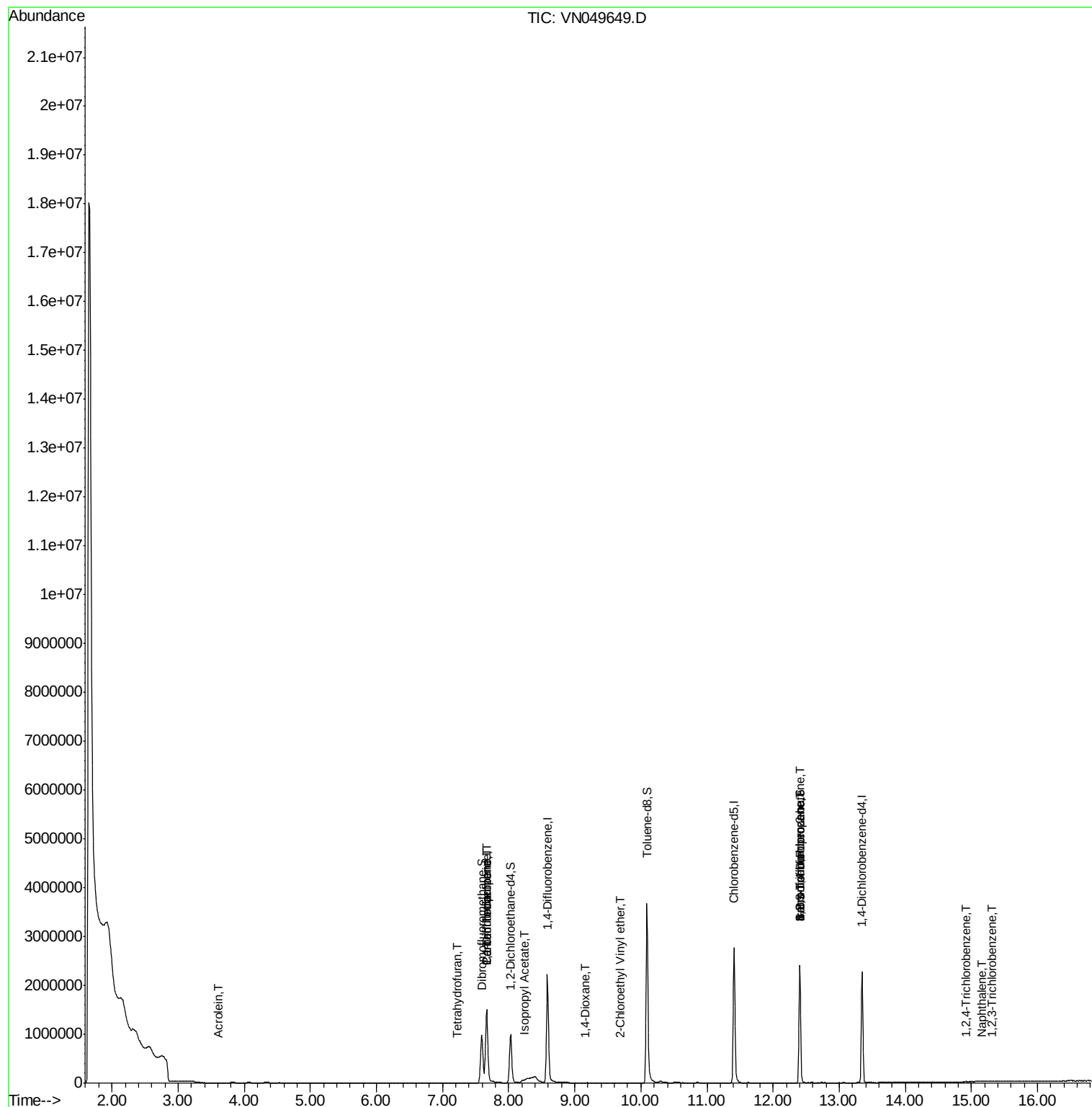
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	1885	2.01	ug/l	# 73
17) Carbon Disulfide	4.04	76	2301	Below	Cal	# 75
18) Methyl Acetate	4.34	43	43337	Below	Cal	97
29) Tetrahydrofuran	7.22	42	795	0.21	ug/l	# 41
36) 1,1-Dichloropropene	7.67	75	91408	3.84	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	118406	5.11	ug/l	# 17
43) Isopropyl Acetate	8.23	43	50554	1.27	ug/l	# 64
49) 1,4-Dioxane	9.17	88	75	0.45	ug/l	# 1
58) 2-Chloroethyl Vinyl ether	9.69	63	71	10.83	ug/l	# 48
71) Bromoform	12.40	173	6408	0.58	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.50	83	103	Below	Cal	# 25
76) 1,2,3-Trichloropropane	12.40	75	395634	37.97	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	395634	128.96	ug/l	# 13
87) 1,3-Dichlorobenzene	13.29	146	1462	Below	Cal	77
88) 1,4-Dichlorobenzene	13.29	146	1462	Below	Cal	76
91) 1,2-Dichlorobenzene	13.66	146	1672	Below	Cal	# 71
92) 1,2-Dibromo-3-Chloropropan	14.27	75	316	Below	Cal	# 1
93) 1,2,4-Trichlorobenzene	14.91	180	1323	2.51	ug/l	93
94) Hexachlorobutadiene	15.01	225	502	Below	Cal	# 57
95) Naphthalene	15.14	128	3029	4.15	ug/l	# 84
96) 1,2,3-Trichlorobenzene	15.31	180	779	1.71	ug/l	# 22

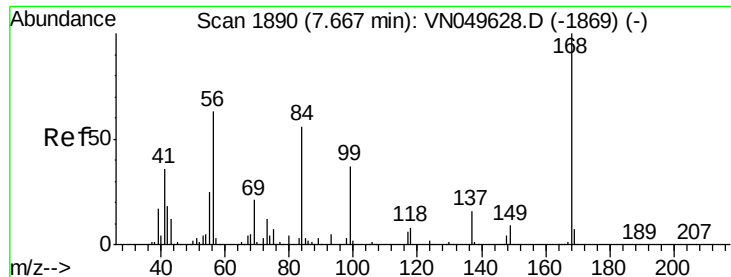
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 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: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

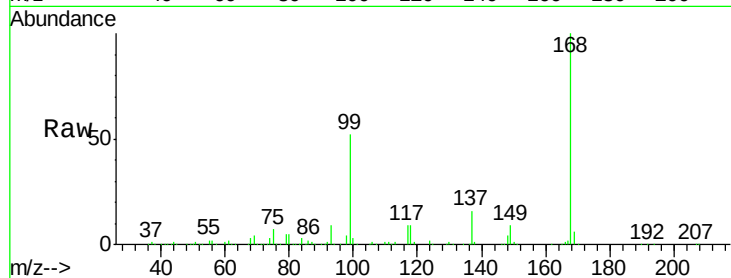
ClientSampleId :

Tot Ion:168 Resp: 1325731

Ion Ratio Lower Upper

168 100

99 51.9 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

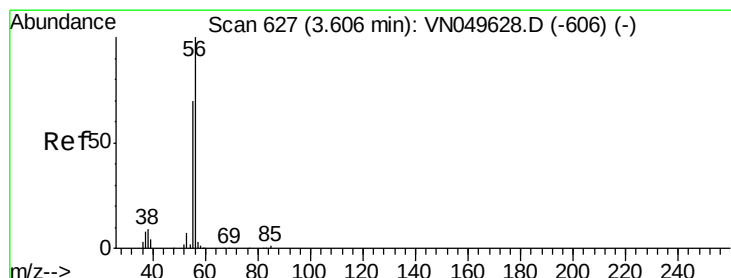
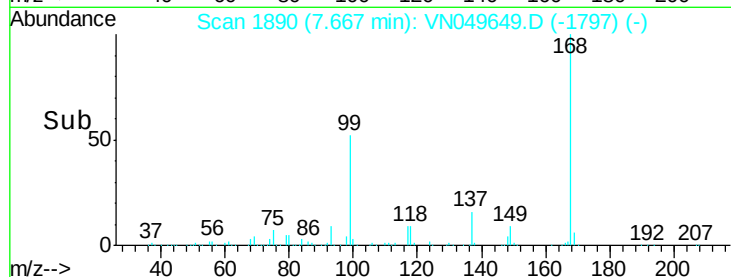
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 2.01 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049649.D

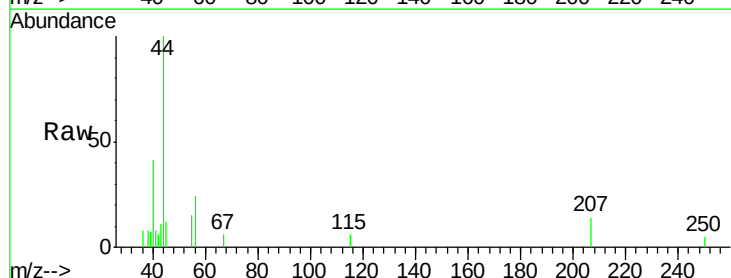
Acq: 30 Jun 2018 16:09

Tgt Ion: 56 Resp: 1885

Ion Ratio Lower Upper

56 100

55 47.4 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.61

800

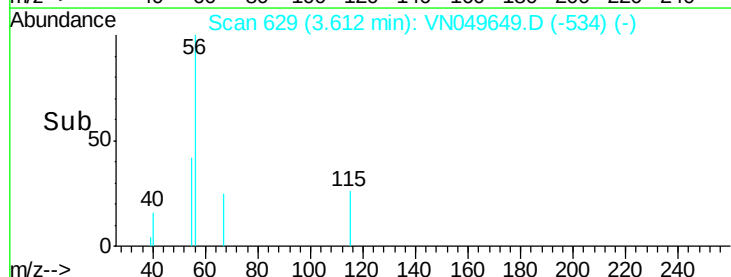
600

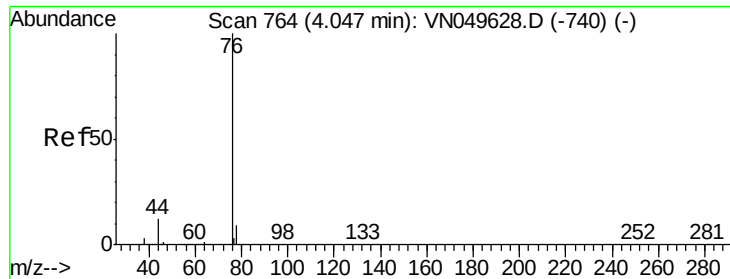
400

200

0

Time-->

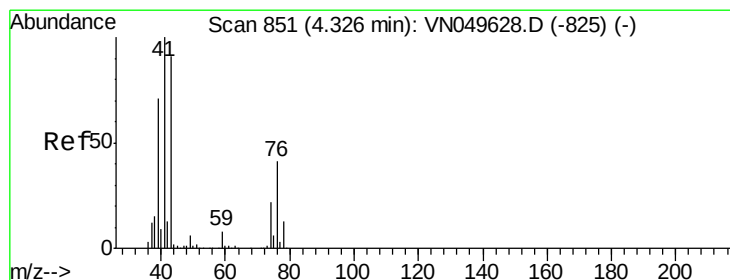
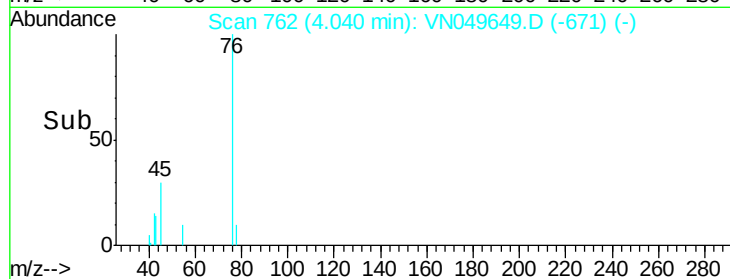
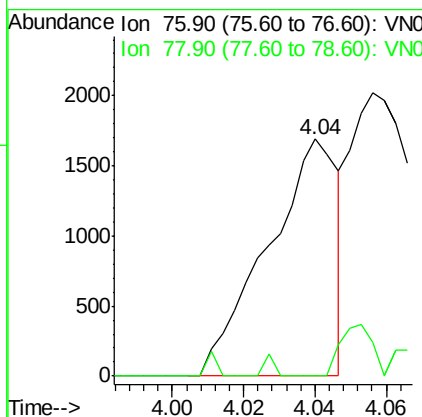
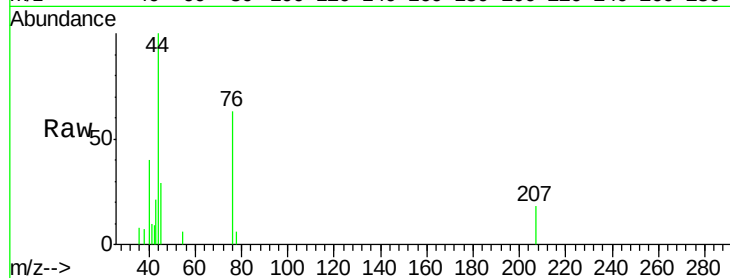




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.04 min Scan# 762
Delta R.T. -0.01 min
Lab File: VN049649.D
Acq: 30 Jun 2018 16:09

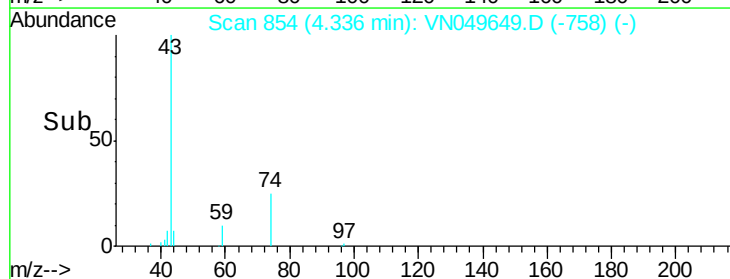
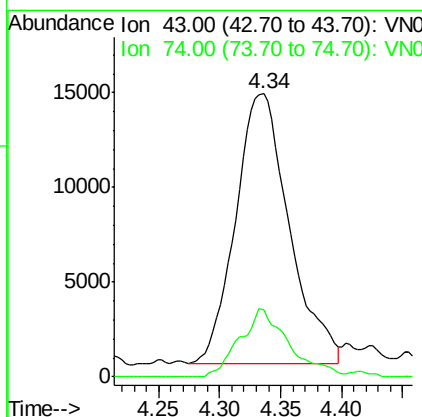
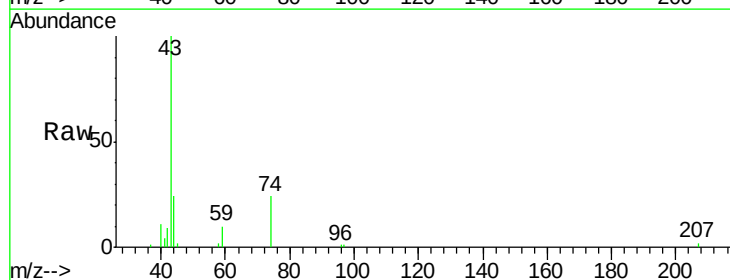
Instrument :
MSVOA_N
ClientSampled :

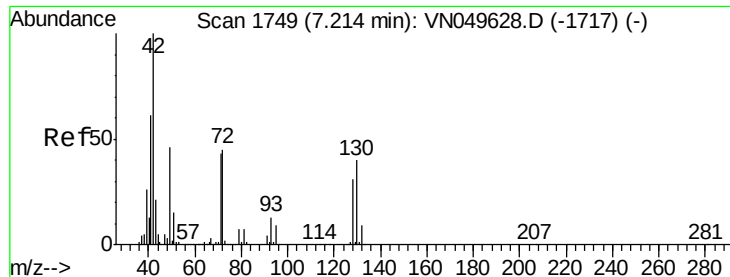
Tot Ion: 76 Resp: 2301
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049649.D
Acq: 30 Jun 2018 16:09

Tgt Ion: 43 Resp: 43337
Ion Ratio Lower Upper
43 100
74 23.2 19.8 29.8





#29

Tetrahydrofuran

Concen: 0.21 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

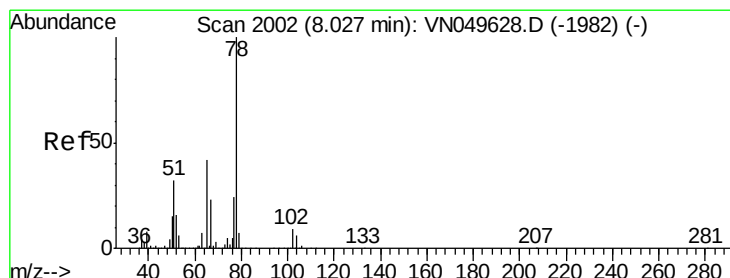
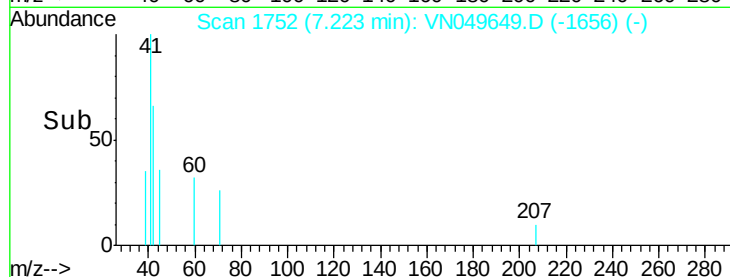
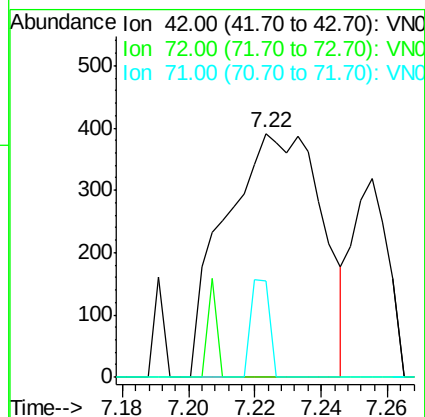
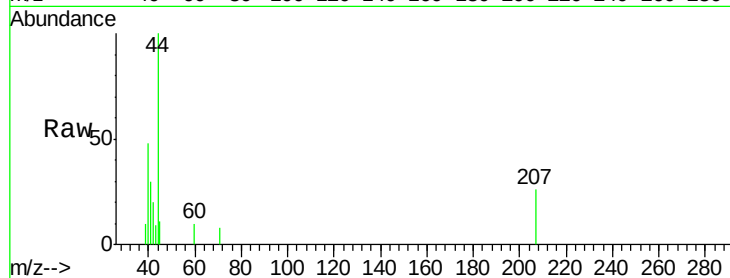
Tot Ion: 42 Resp: 795

Ion Ratio Lower Upper

42 100

72 3.9 35.6 53.4#

71 7.5 34.0 51.0#



#33

1,2-Dichloroethane-d4

Concen: 50.23 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049649.D

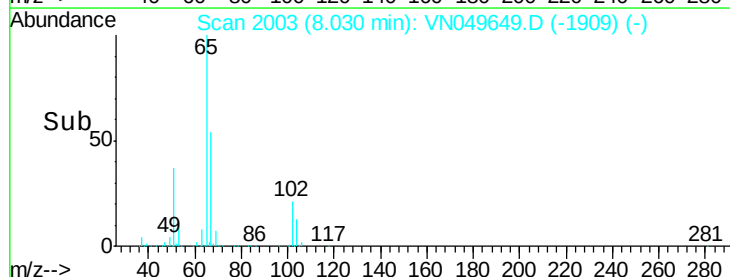
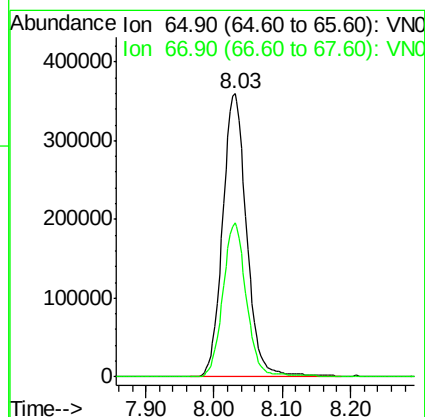
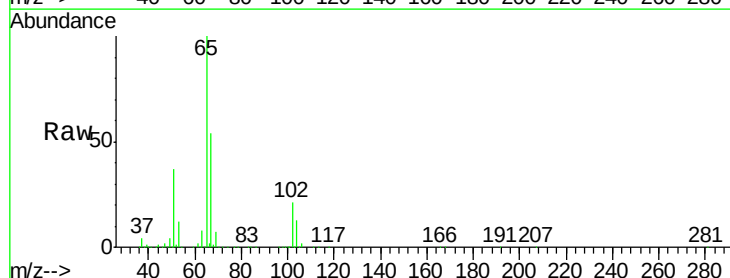
Acq: 30 Jun 2018 16:09

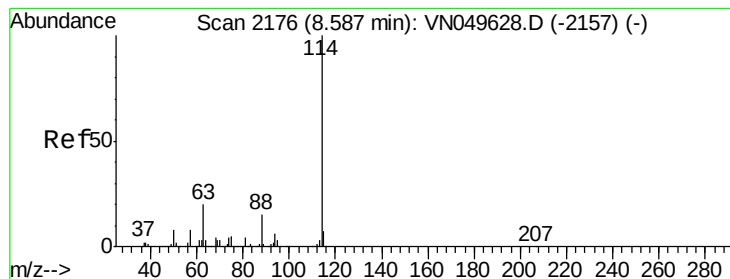
Tgt Ion: 65 Resp: 879459

Ion Ratio Lower Upper

65 100

67 52.4 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

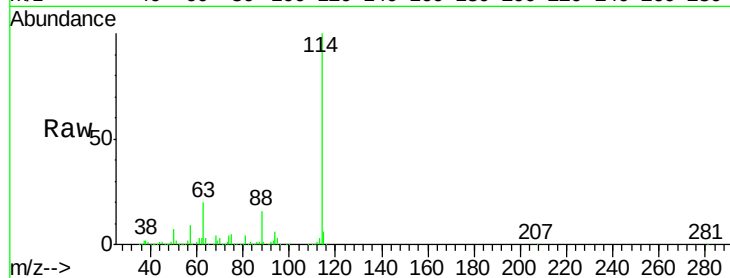
Tot Ion:114 Resp: 2116374

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.8

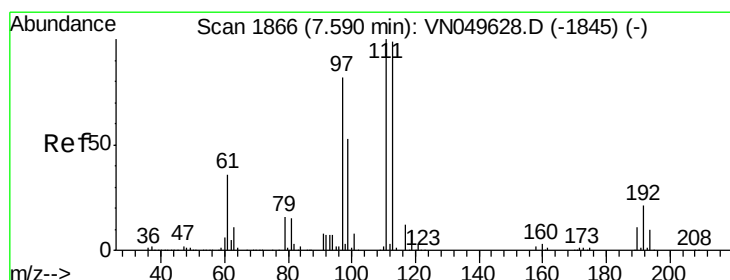
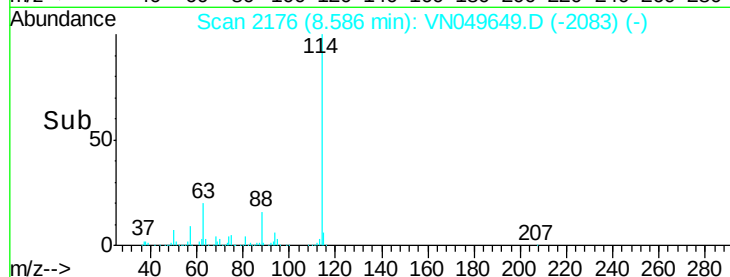
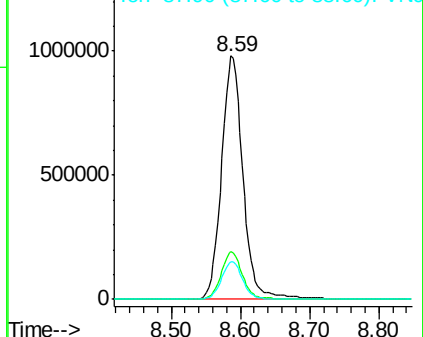
88 15.6 0.0 30.6



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: 49.03 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

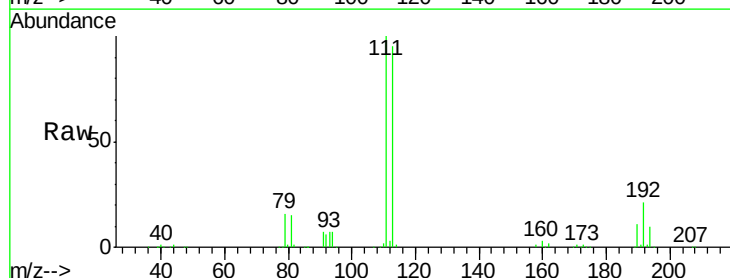
Tgt Ion:113 Resp: 775738

Ion Ratio Lower Upper

113 100

111 102.2 81.8 122.8

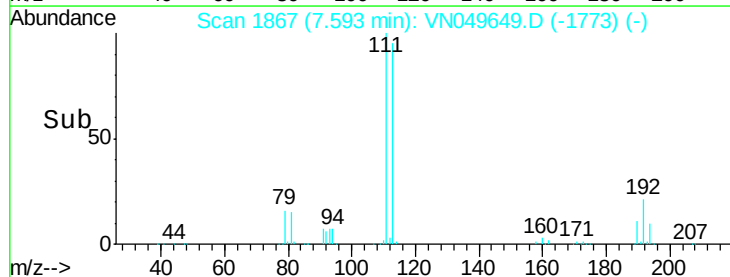
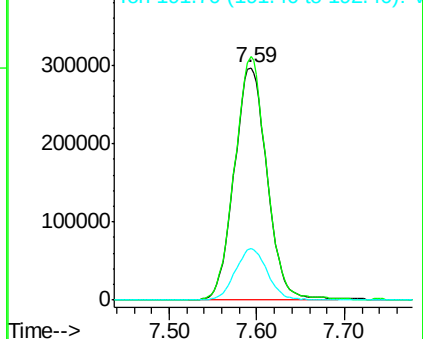
192 21.6 17.8 26.6

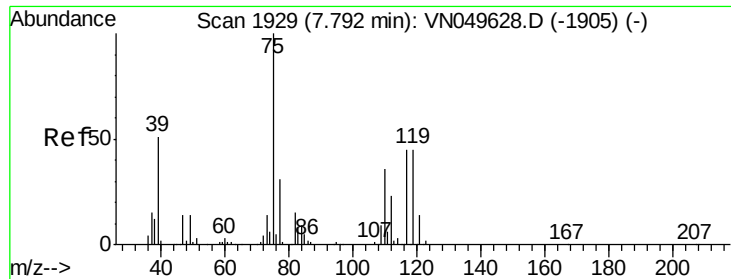


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

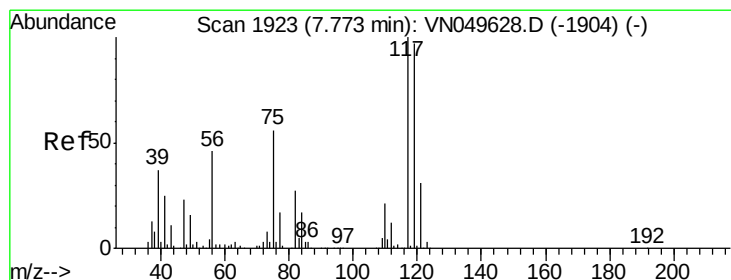
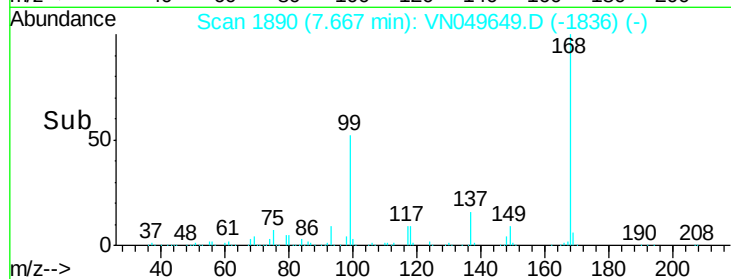
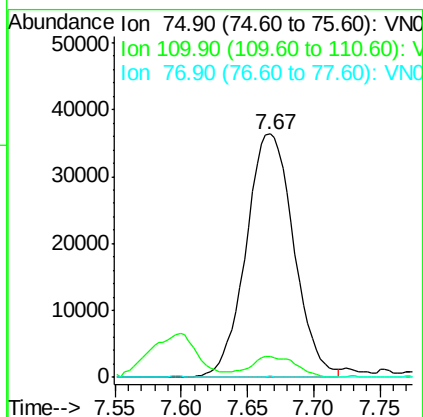
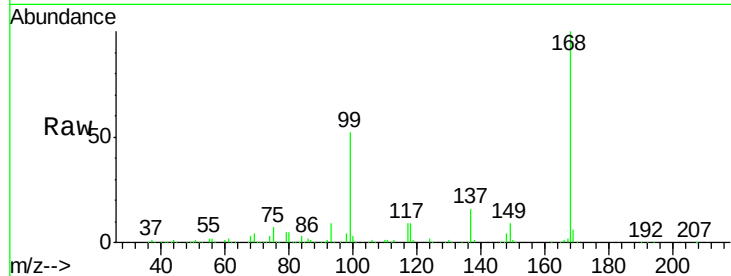




#36
 1,1-Dichloropropene
 Concen: 3.84 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049649.D
 Acq: 30 Jun 2018 16:09

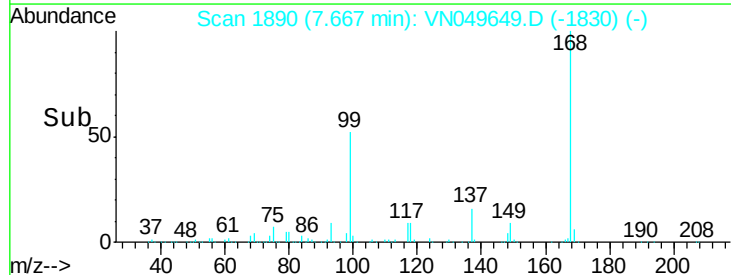
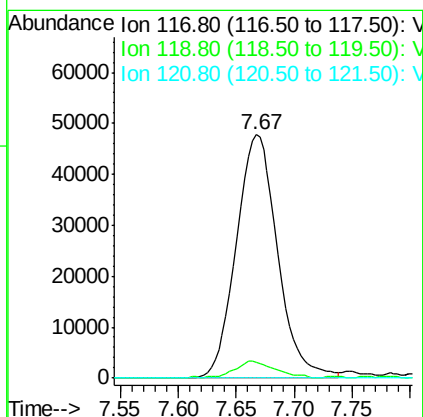
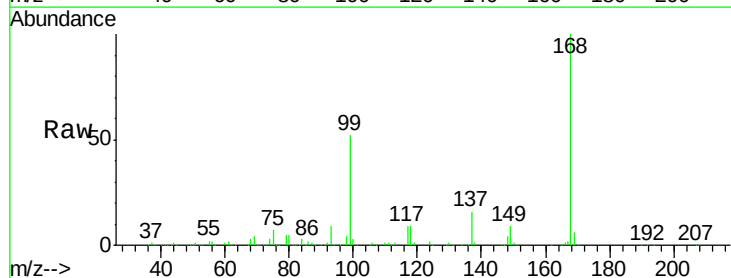
Instrument :
 MSVOA_N
 ClientSampled :

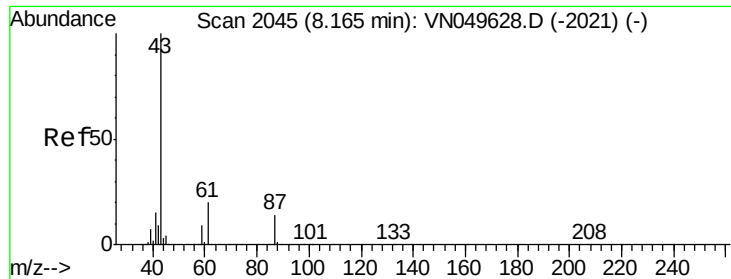
Tot Ion	75	Resp	91408
Ion Ratio	100	Lower	Upper
75	100		
110	8.4	18.1	54.4#
77	0.1	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.11 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049649.D
 Acq: 30 Jun 2018 16:09

Tgt Ion	117	Resp	118406
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	6.5	77.2	115.8#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 1.27 ug/l

RT: 8.23 min Scan# 2064

Delta R.T. 0.06 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampled :

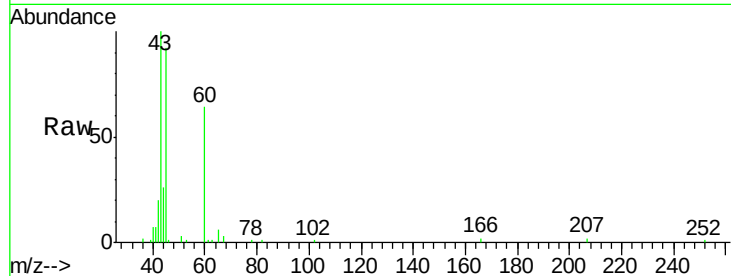
Tot Ion: 43 Resp: 50554

Ion Ratio Lower Upper

43 100

61 1.4 14.9 22.3#

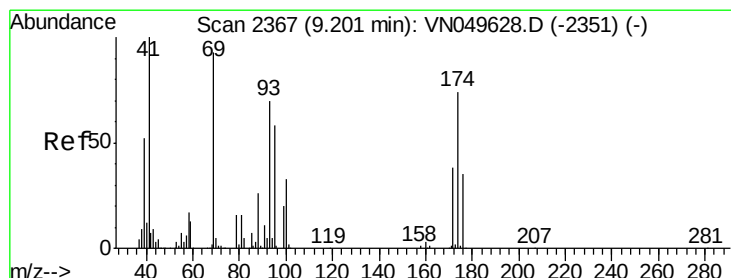
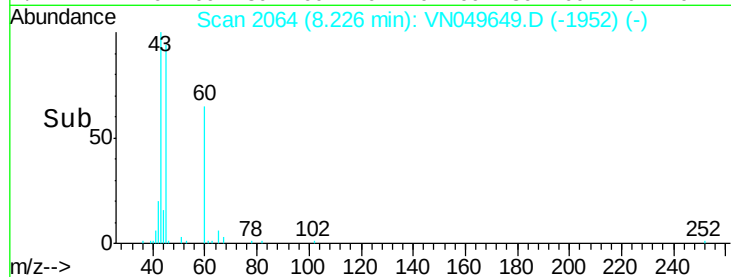
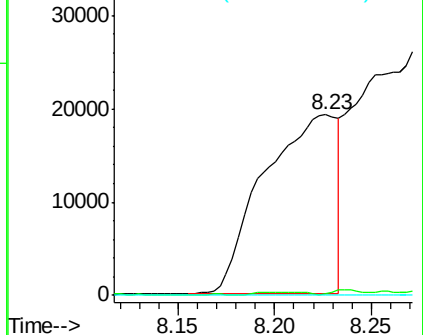
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049628.D (-2021) (-)

Ion 61.00 (60.70 to 61.70): VN049628.D (-2021) (-)

Ion 87.00 (86.70 to 87.70): VN049628.D (-2021) (-)



#49

1,4-Dioxane

Concen: 0.45 ug/l

RT: 9.17 min Scan# 2356

Delta R.T. -0.04 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

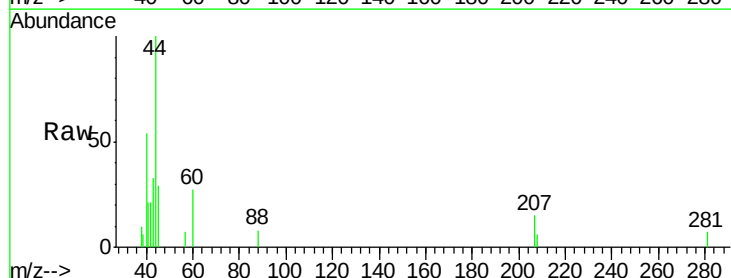
Tgt Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 540.0 25.1 37.7#

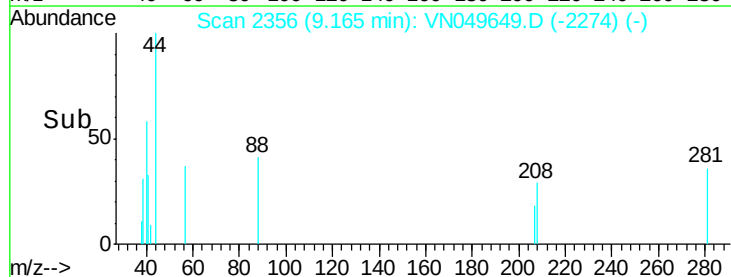
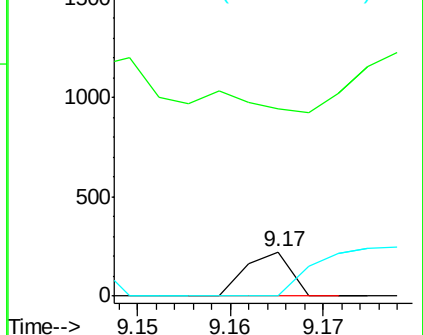
58 273.3 52.5 78.7#

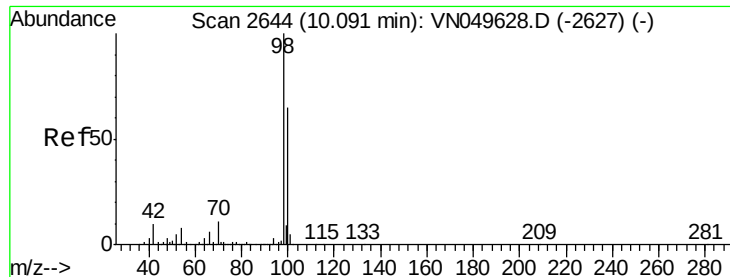


Abundance Ion 88.00 (87.70 to 88.70): VN049628.D (-2351) (-)

Ion 43.00 (42.70 to 43.70): VN049628.D (-2351) (-)

Ion 58.00 (57.70 to 58.70): VN049628.D (-2351) (-)





#50

Toluene-d8

Concen: 46.31 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

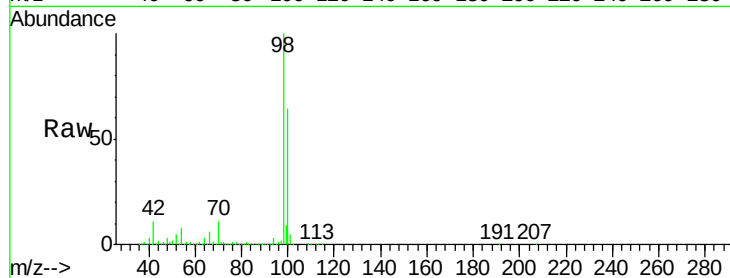
ClientSampleId :

Tot Ion: 98 Resp: 2867829

Ion Ratio Lower Upper

98 100

100 63.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN049628.D (-2627) (-)

Ion 100.00 (99.70 to 100.70): VN049628.D (-2627) (-)

10.09

1500000

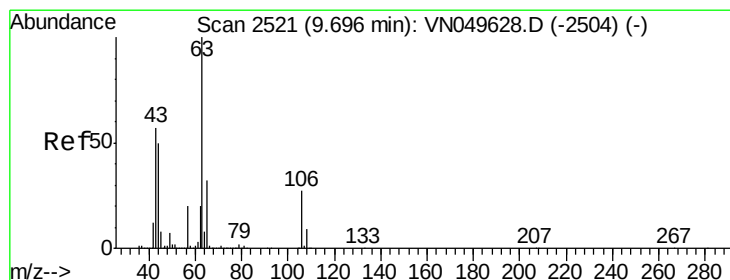
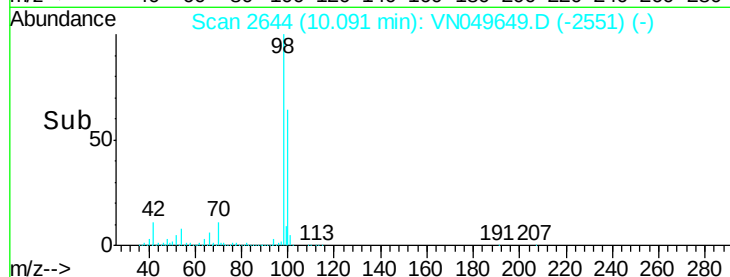
1000000

500000

0

Time-->

10.00 10.20



#58

2-Chloroethyl Vinyl ether

Concen: 10.83 ug/l

RT: 9.69 min Scan# 2520

Delta R.T. -0.00 min

Lab File: VN049649.D

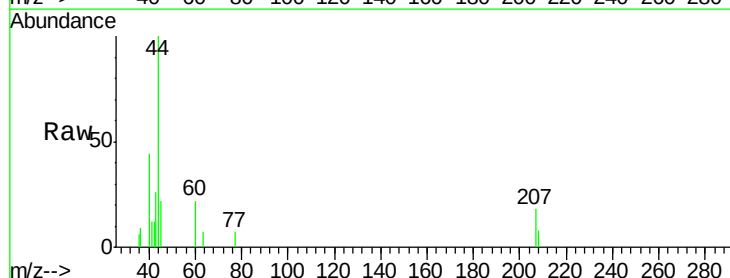
Acq: 30 Jun 2018 16:09

Tgt Ion: 63 Resp: 71

Ion Ratio Lower Upper

63 100

106 0.0 21.8 32.8#



Abundance Ion 62.90 (62.60 to 63.60): VN049628.D (-2504) (-)

Ion 105.90 (105.60 to 106.60): VN049628.D (-2504) (-)

9.69

200

150

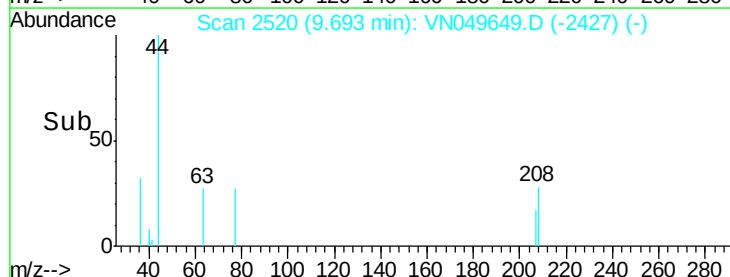
100

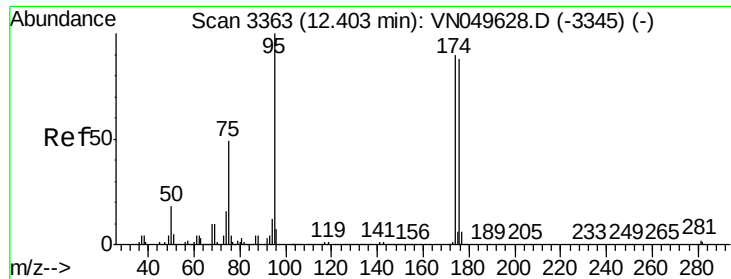
50

0

Time-->

9.68 9.69 9.70





#62

4-Bromofluorobenzene

Concen: 39.11 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

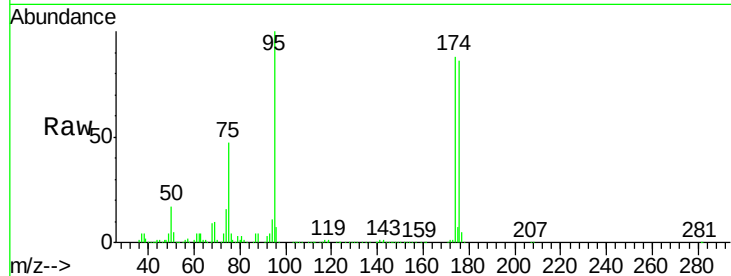
Tot Ion: 95 Resp: 826949

Ion Ratio Lower Upper

95 100

174 90.9 0.0 179.6

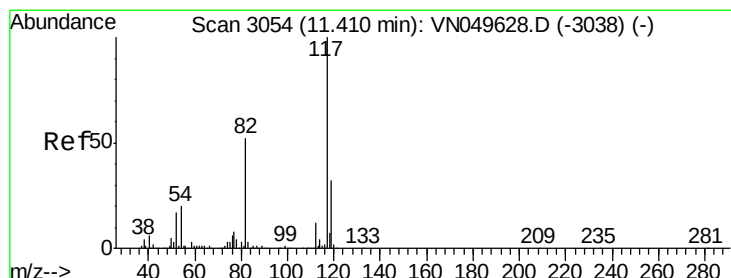
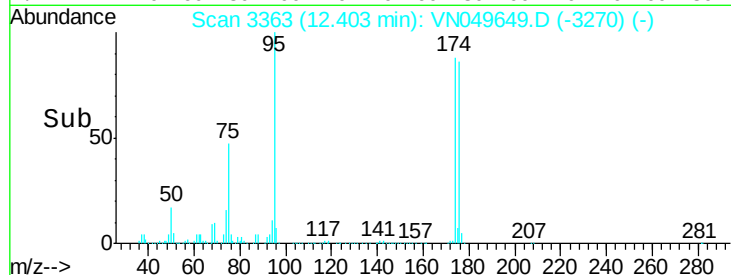
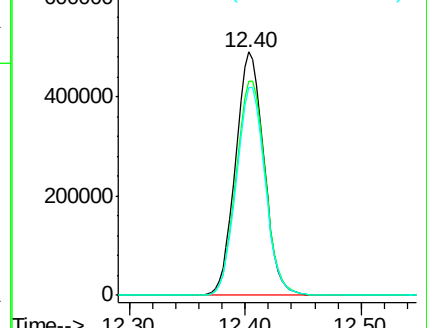
176 86.5 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): VN049628.D (-3345) (-)

Ion 173.80 (173.50 to 174.50): VN049628.D (-3345) (-)

Ion 175.80 (175.50 to 176.50): VN049628.D (-3345) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

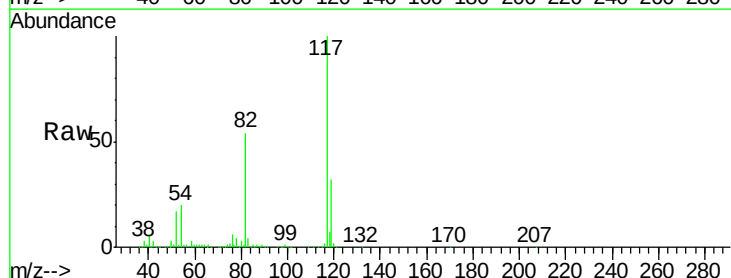
Tgt Ion: 117 Resp: 1769522

Ion Ratio Lower Upper

117 100

82 54.0 41.9 62.9

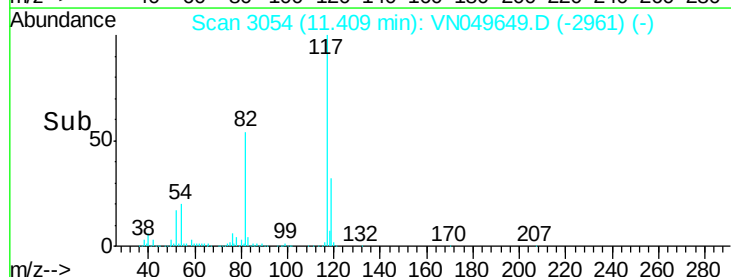
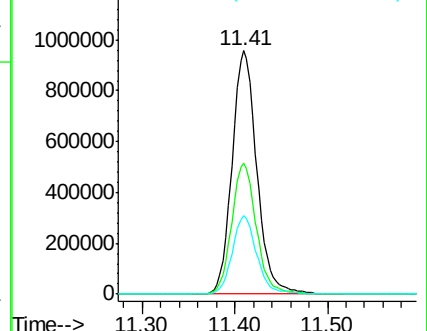
119 32.3 25.4 38.2

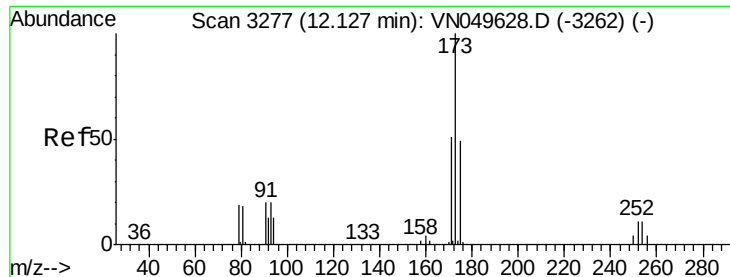


Abundance Ion 116.90 (116.60 to 117.60): VN049628.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049628.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049628.D (-3038) (-)





#71

Bromoform

Concen: 0.58 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

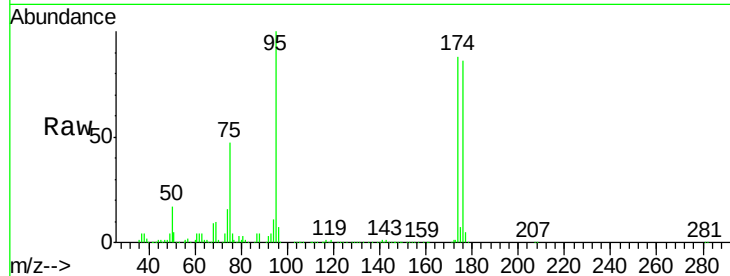
Tot Ion:173 Resp: 6408

Ion Ratio Lower Upper

173 100

175 669.6 24.6 73.8#

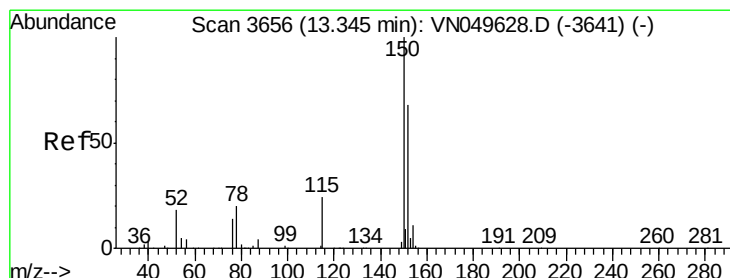
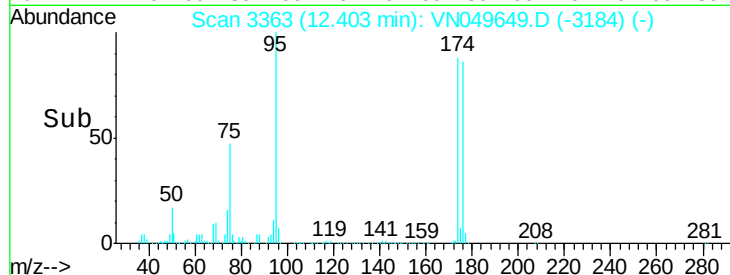
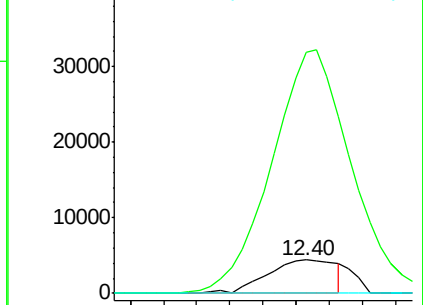
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

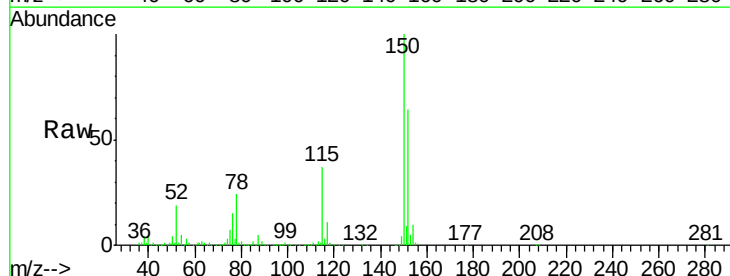
Tgt Ion:152 Resp: 649727

Ion Ratio Lower Upper

152 100

115 56.6 28.1 84.2

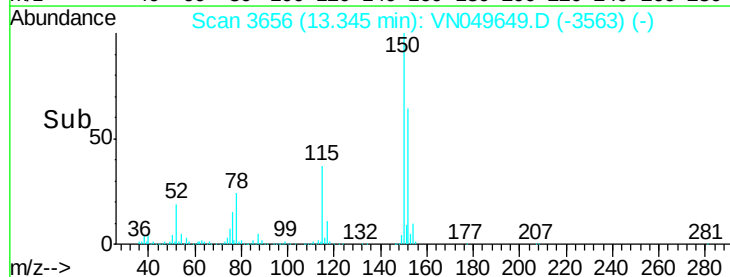
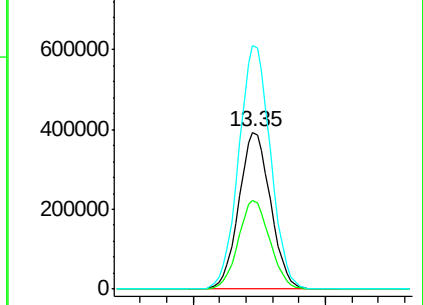
150 156.4 0.0 347.6

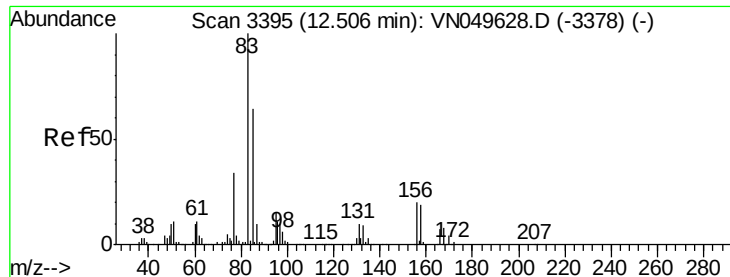


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampled :

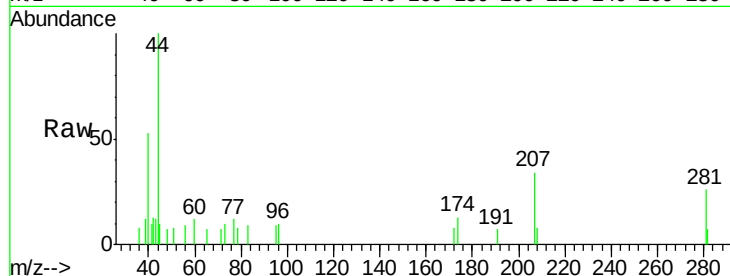
Tot Ion: 83 Resp: 103

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

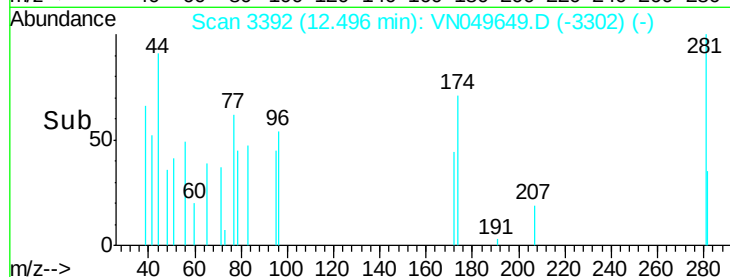
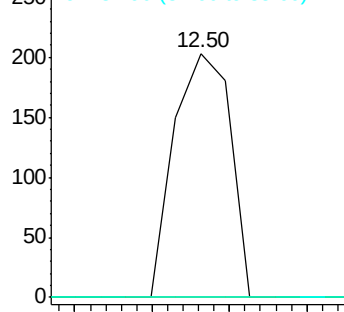
85 0.0 32.5 97.4#



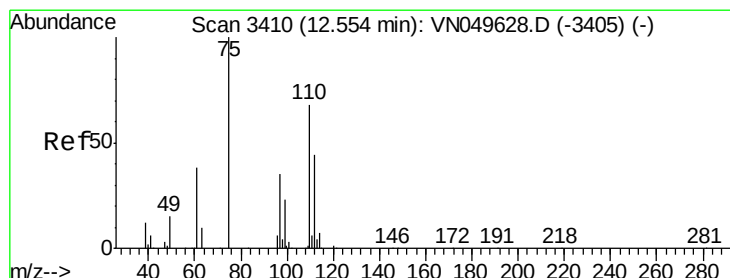
Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



Time-->



#76

1,2,3-Trichloropropane

Concen: 37.97 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049649.D

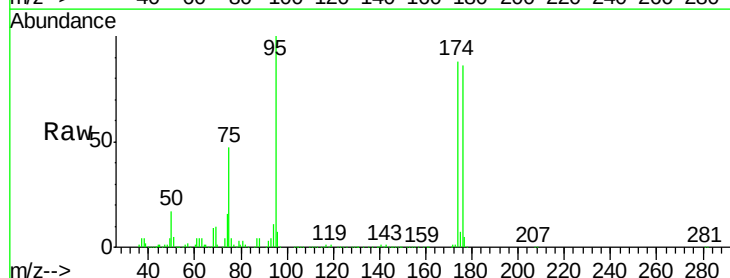
Acq: 30 Jun 2018 16:09

Tgt Ion: 75 Resp: 395634

Ion Ratio Lower Upper

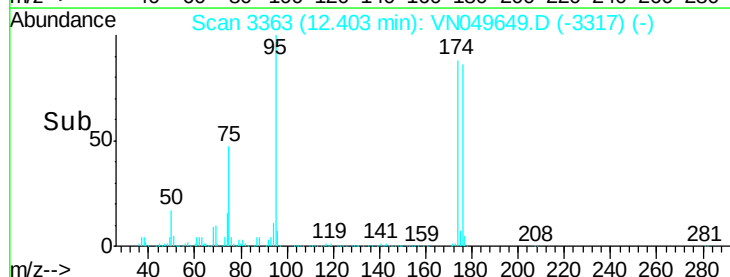
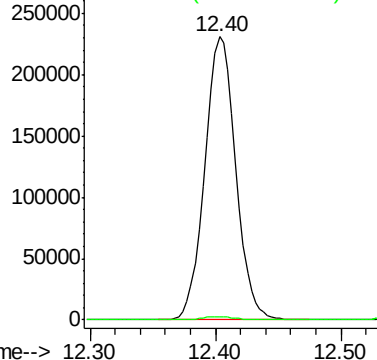
75 100

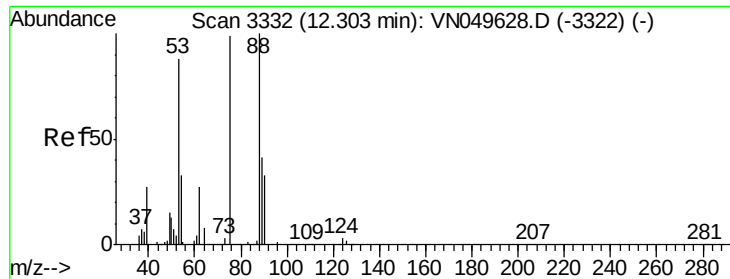
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 128.96 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

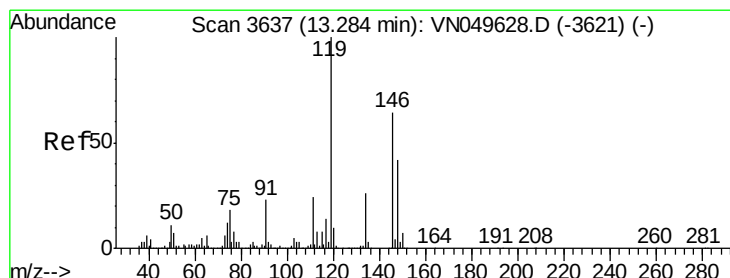
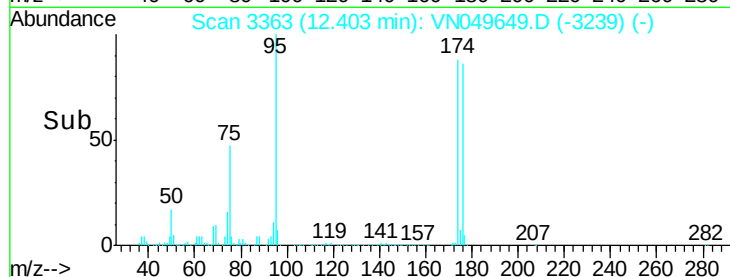
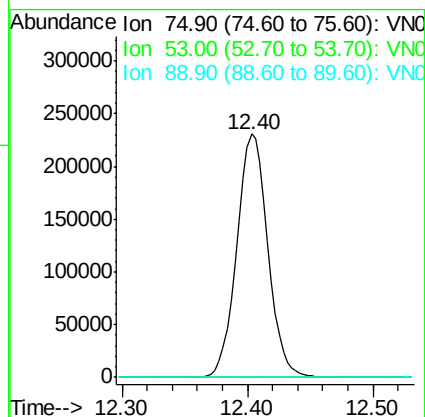
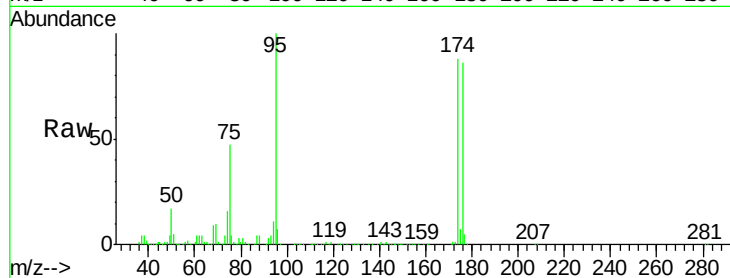
Tot Ion: 75 Resp: 395634

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 35.9 53.9#



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 13.29 min Scan# 3638

Delta R.T. 0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

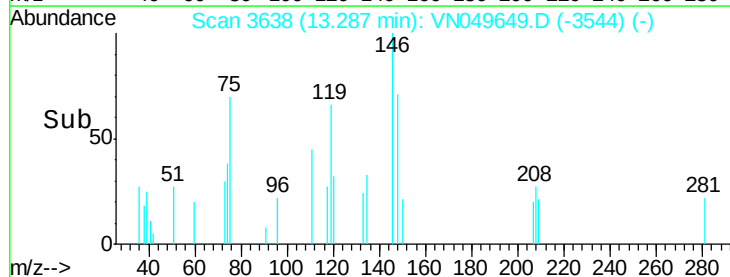
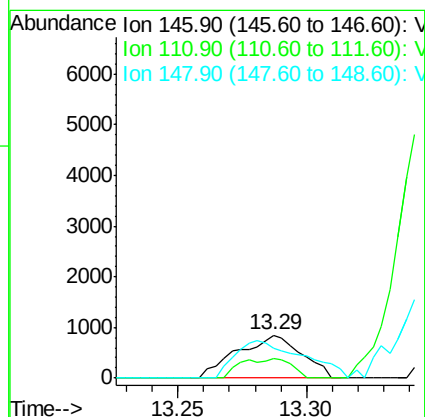
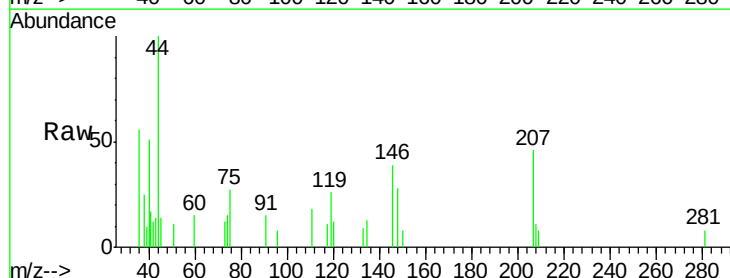
Tgt Ion: 146 Resp: 1462

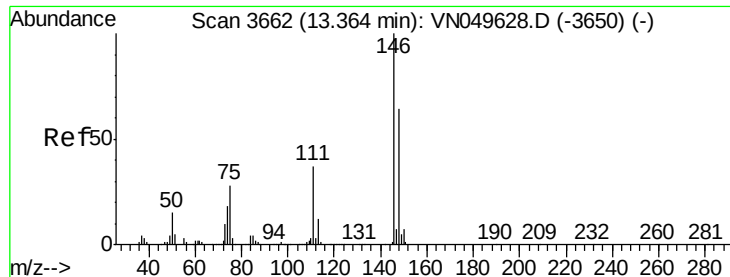
Ion Ratio Lower Upper

146 100

111 36.0 19.0 57.0

148 92.3 32.5 97.5





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.29 min Scan# 3638

Delta R.T. -0.08 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

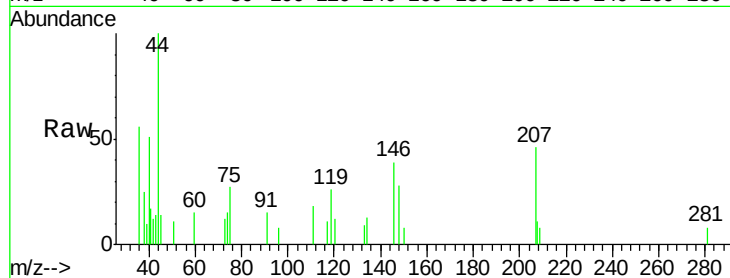
Tot Ion:146 Resp: 1462

Ion Ratio Lower Upper

146 100

111 36.0 18.9 56.5

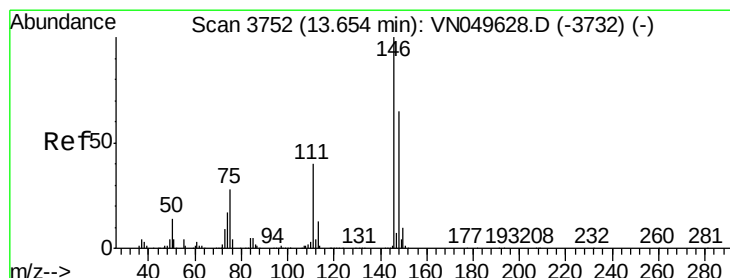
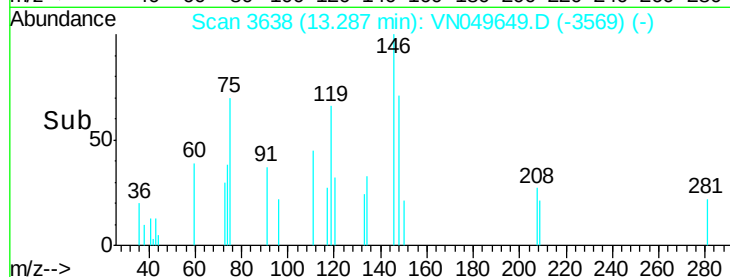
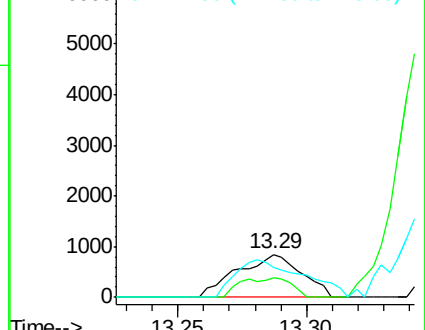
148 92.3 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: Below Cal

RT: 13.66 min Scan# 3753

Delta R.T. 0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

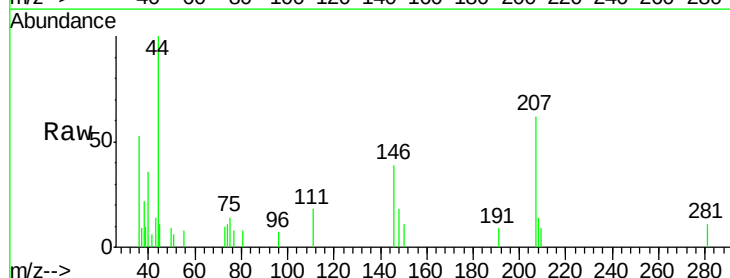
Tgt Ion:146 Resp: 1672

Ion Ratio Lower Upper

146 100

111 41.6 19.7 59.1

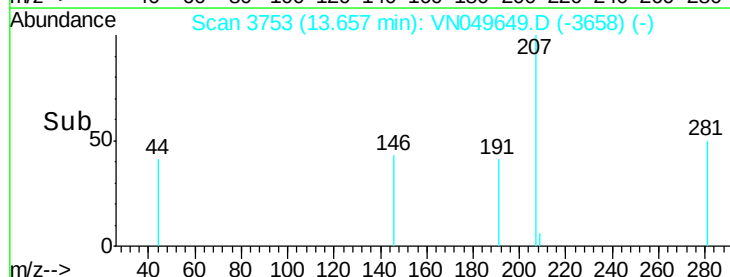
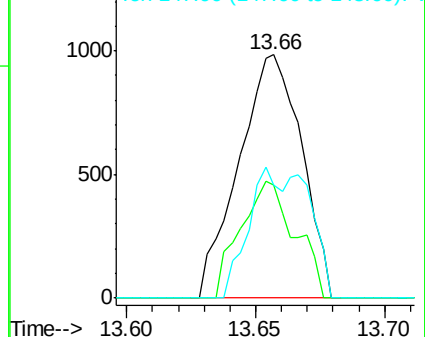
148 28.7 32.0 96.2#

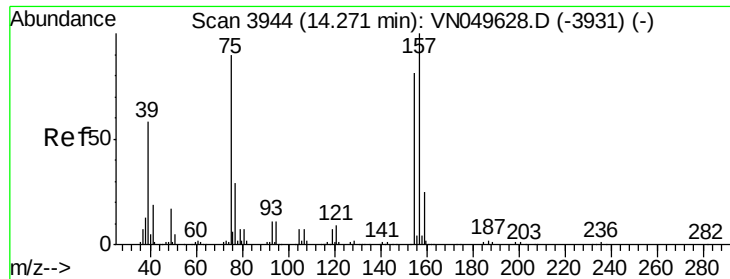


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampled :

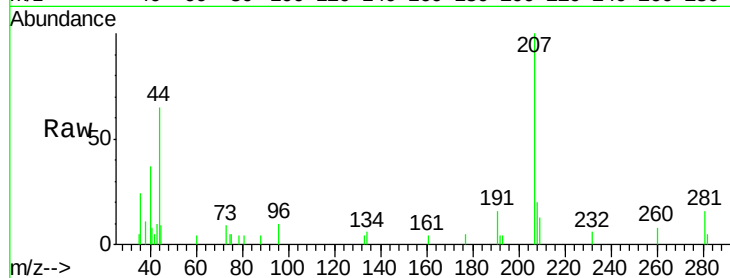
Tot Ion: 75 Resp: 316

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

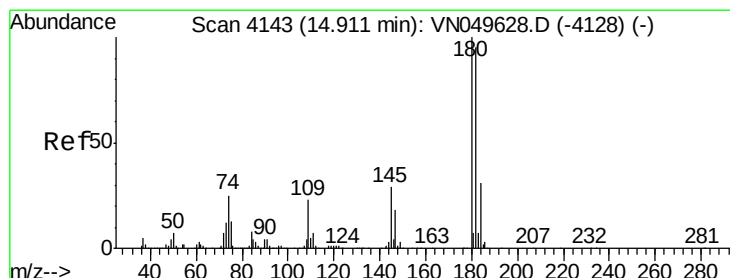
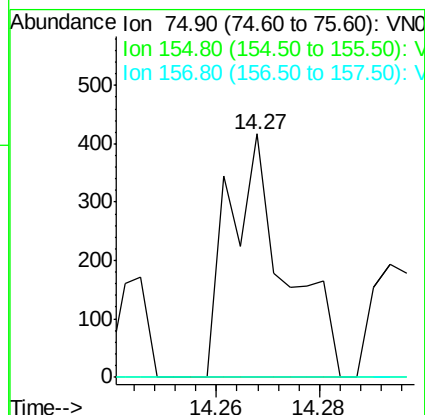
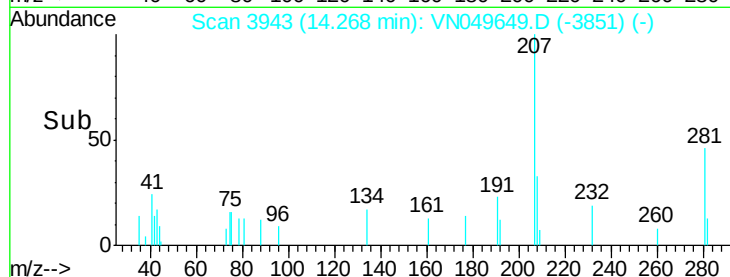
157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049649.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049649.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049649.D (-3851) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.51 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

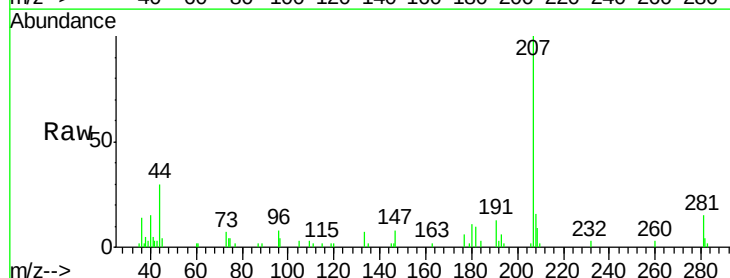
Tgt Ion: 180 Resp: 1323

Ion Ratio Lower Upper

180 100

182 97.1 47.3 141.9

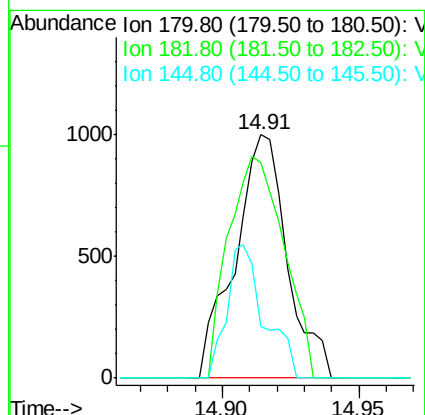
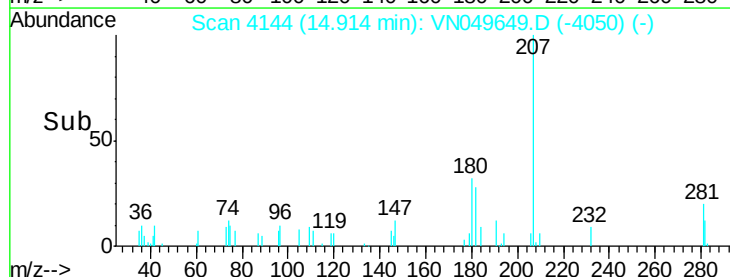
145 39.3 14.4 43.0

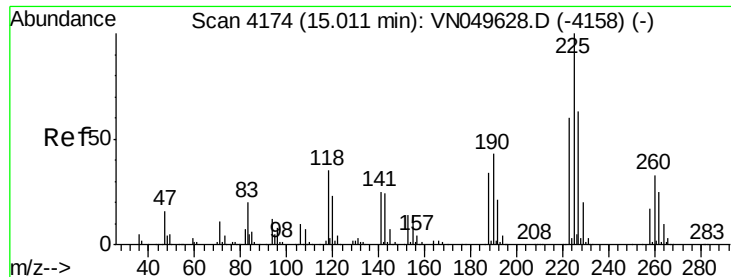


Abundance Ion 179.80 (179.50 to 180.50): VN049649.D (-4050) (-)

Ion 181.80 (181.50 to 182.50): VN049649.D (-4050) (-)

Ion 144.80 (144.50 to 145.50): VN049649.D (-4050) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4174

Delta R.T. 0.00 min

Lab File: VN049649.D

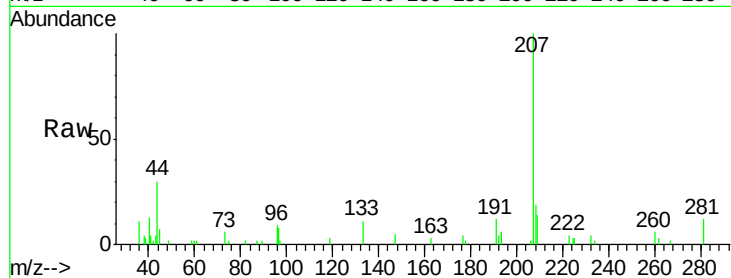
Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

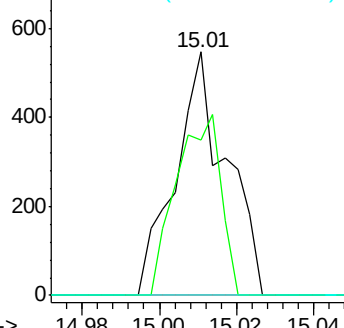
Tot Ion:	225	Resp:	502
Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.9	92.7
227	0.0	31.8	95.4#



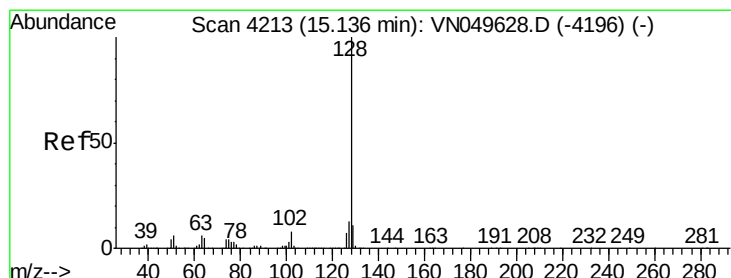
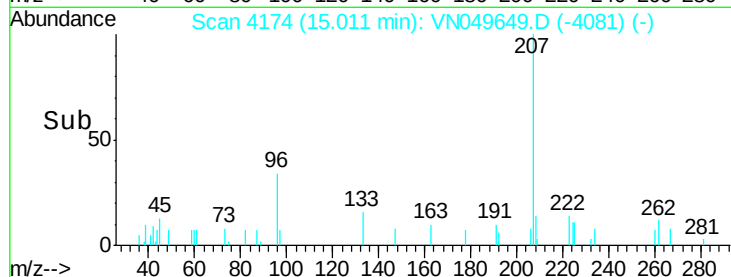
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 4.15 ug/l

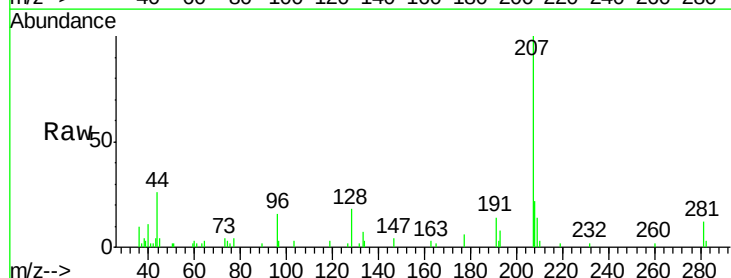
RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

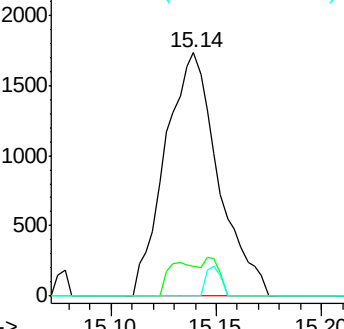
Tgt Ion:	128	Resp:	3029
Ion	Ratio	Lower	Upper
128	100		
127	8.1	10.4	15.6#
129	3.5	8.6	13.0#



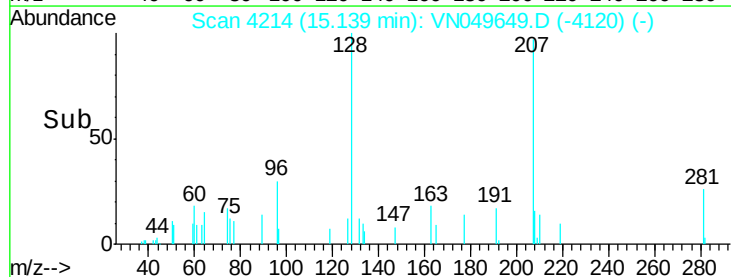
Abundance Ion 128.00 (127.70 to 128.70): V

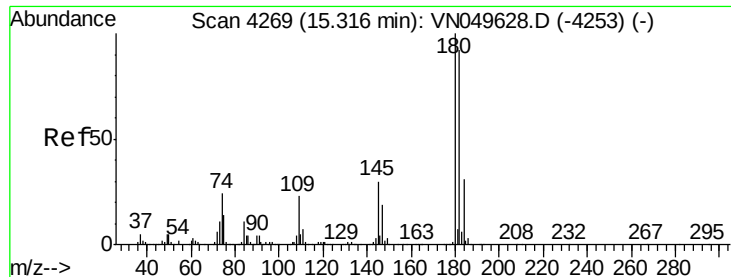
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->





#96

1,2,3-Trichlorobenzene

Concen: 1.71 ua/l

RT: 15.31 min Scan# 4267

Delta R.T. -0.01 min

Lab File: VN049649.D

Acq: 30 Jun 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

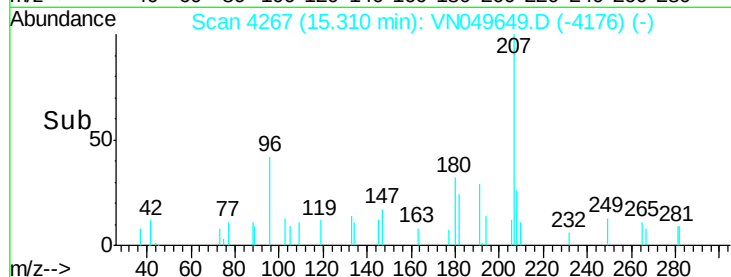
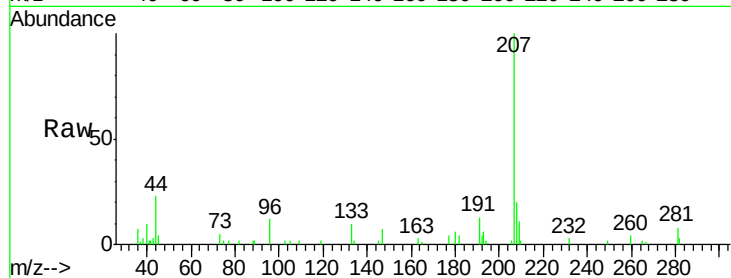
Tot Ion:180 Resp: 779

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.2#

145 21.1 15.2 45.6



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

