

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061119\
 Data File : VN056224.D
 Acq On : 11 Jun 2019 15:37
 Operator : JC/SP
 Sample : K3284-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW306I-20190609

Quant Time: Jun 12 06:34:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	303038	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	454936	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	446444	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	135855	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	158056	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
35) Dibromofluoromethane	7.59	113	148621	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
50) Toluene-d8	10.09	98	580527	54.05	ug/l	0.00
Spiked Amount			Recovery	=	108.10%	
62) 4-Bromofluorobenzene	12.40	95	181164	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	

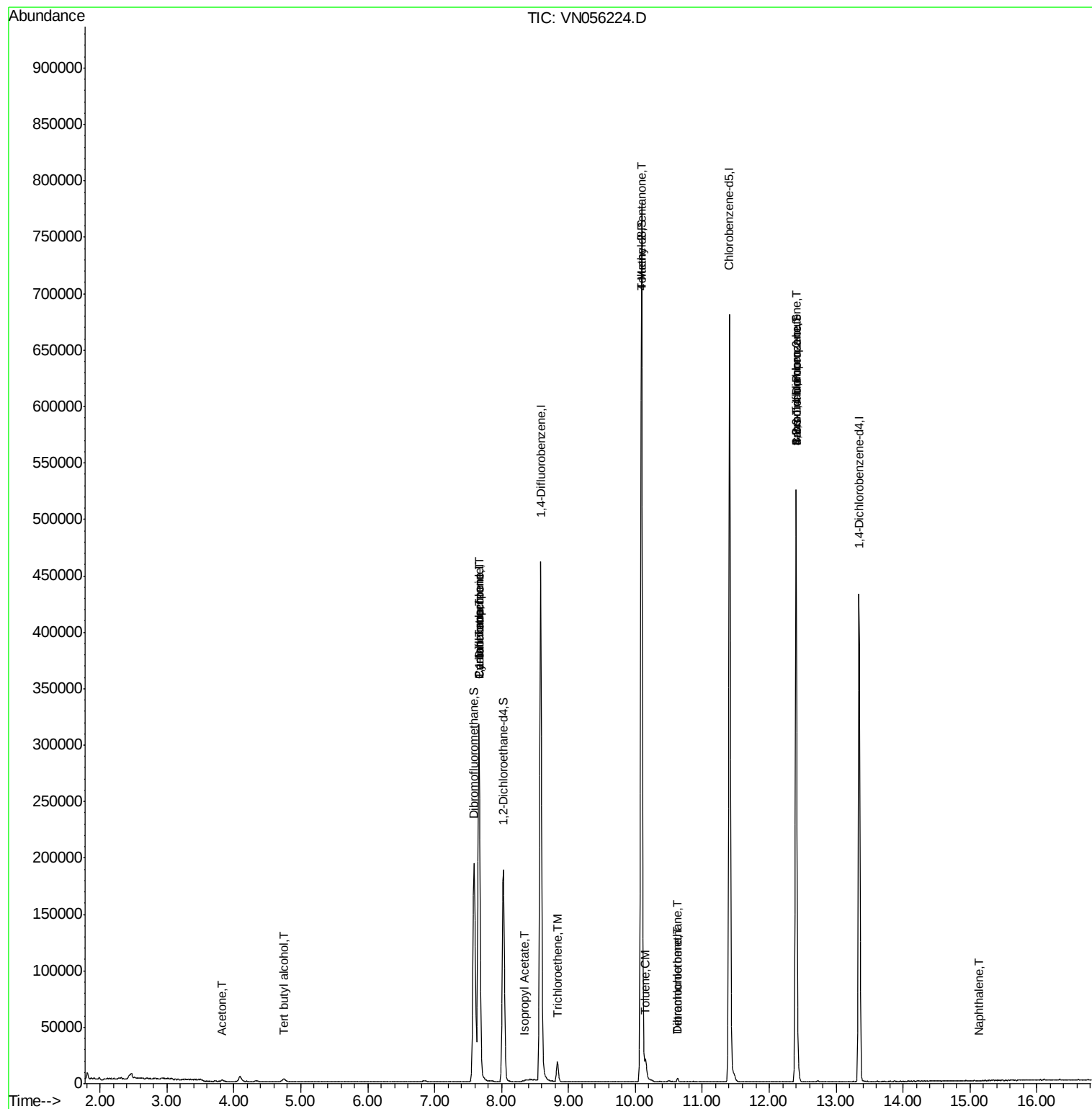
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	2795	5.338	ug/l #	74
16) Acetone	3.82	43	2714	1.886	ug/l	93
18) Methyl Acetate	4.35	43	1506	Below Cal	#	51
31) Cyclohexane	7.66	56	3973	0.832	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17330	4.430	ug/l #	48
38) Carbon Tetrachloride	7.66	117	24459	6.782	ug/l #	14
43) Isopropyl Acetate	8.34	43	1821	0.323	ug/l #	53
44) Trichloroethene	8.83	130	7780	2.279	ug/l	95
51) 4-Methyl-2-Pentanone	10.09	43	2340	0.663	ug/l #	1
52) Toluene	10.16	92	6798	0.920	ug/l	93
60) Dibromochloromethane	10.63	129	806	2.689	ug/l #	11
64) Tetrachloroethene	10.63	164	790	0.204	ug/l	94
71) Bromoform	12.41	173	1362	3.242	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	83248	33.302	ug/l #	100
79) 2-Chlorotoluene	12.40	91	530	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	83248	110.902	ug/l #	15
95) Naphthalene	15.13	128	31	3.856	ug/l #	69

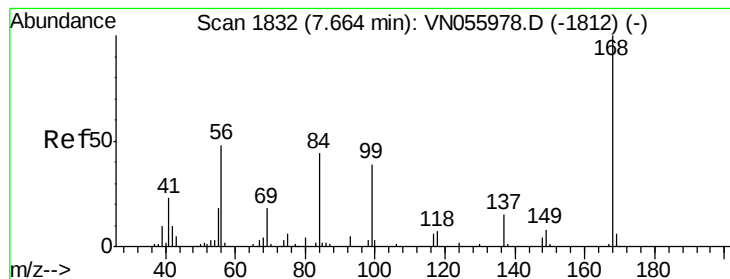
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

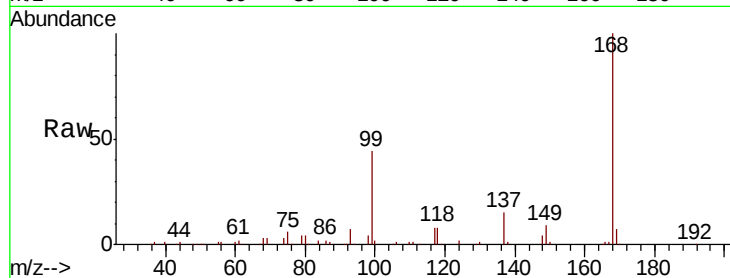
BPS1-TT-MW306I-20190609

Tot Ion:168 Resp: 303038

Ion Ratio Lower Upper

168 100

99 44.4 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

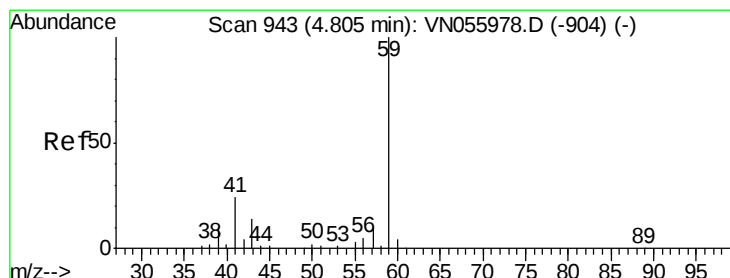
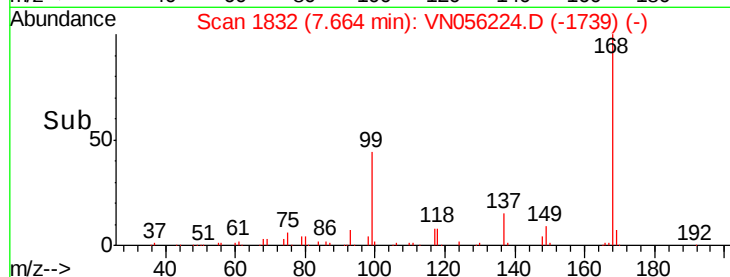
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 5.338 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.06 min

Lab File: VN056224.D

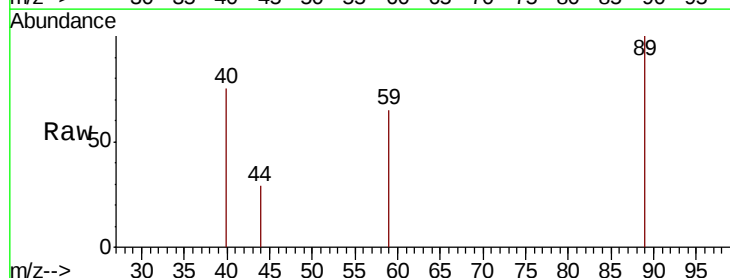
Acq: 11 Jun 2019 15:37

Tgt Ion: 59 Resp: 2795

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.75

1000

800

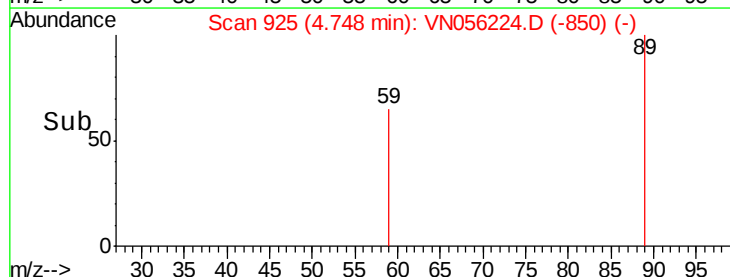
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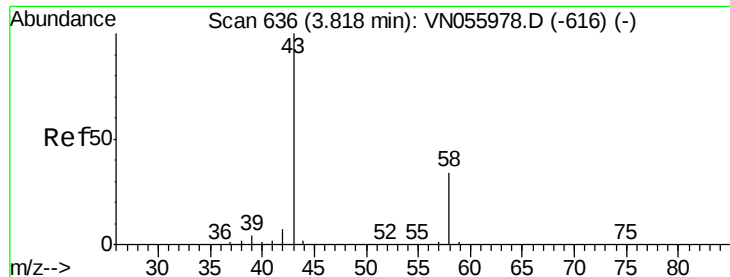
400

200

0

Time--> 4.65 4.70 4.75 4.80





#16

Acetone

Concen: 1.886 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

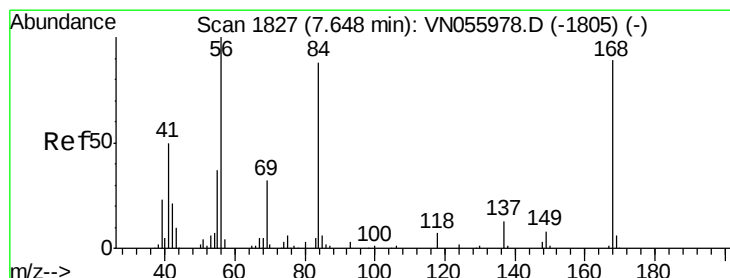
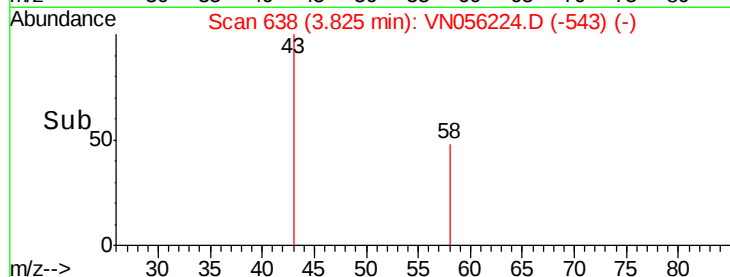
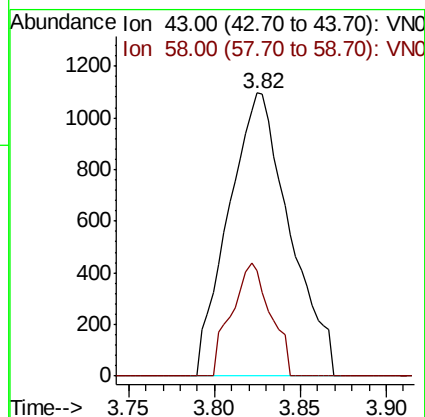
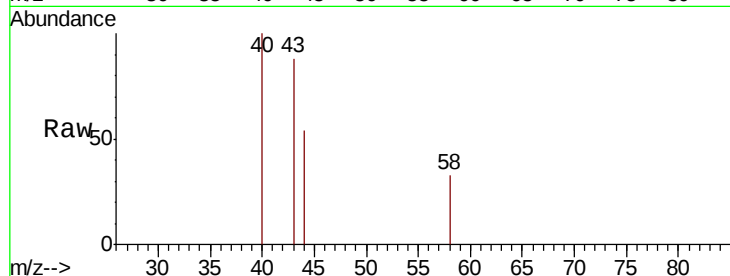
BPS1-TT-MW306I-20190609

Tot Ion: 43 Resp: 2714

Ion Ratio Lower Upper

43 100

58 37.1 26.6 39.8



#31

Cyclohexane

Concen: 0.832 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

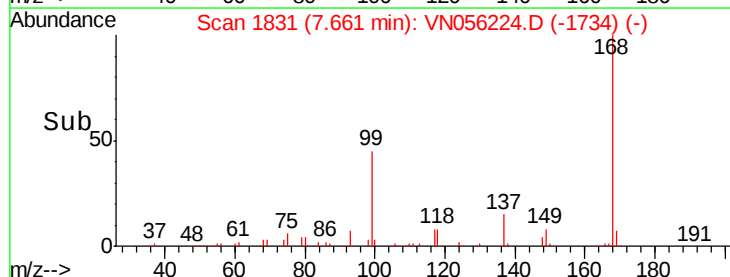
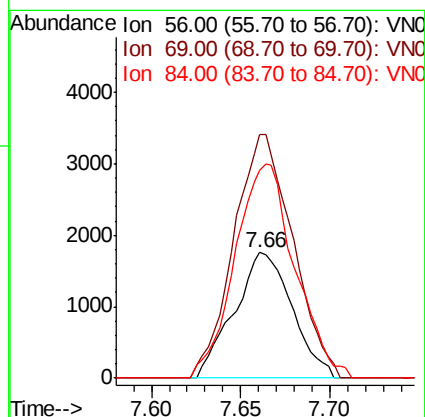
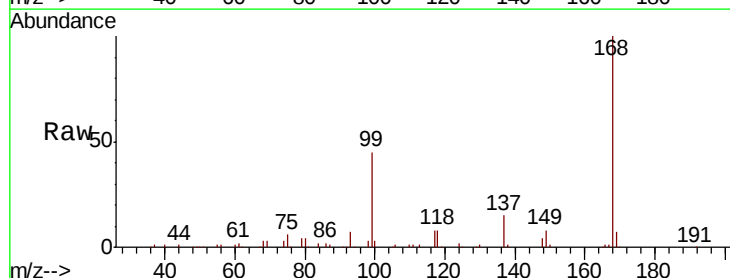
Tgt Ion: 56 Resp: 3973

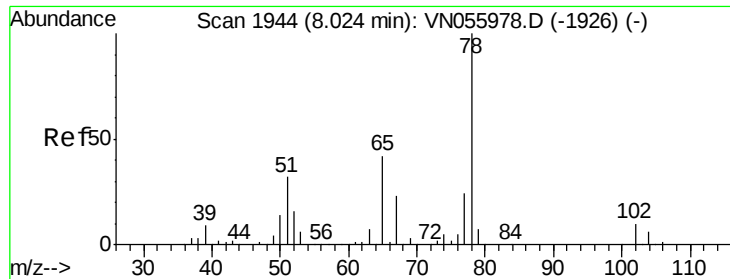
Ion Ratio Lower Upper

56 100

69 193.6 25.6 38.4#

84 165.4 67.4 101.0#

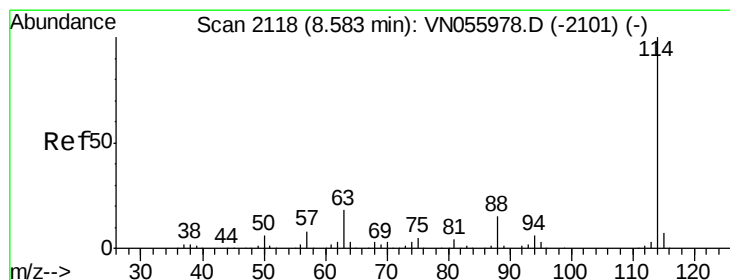
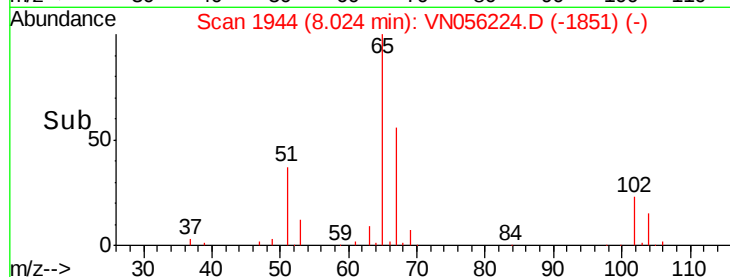
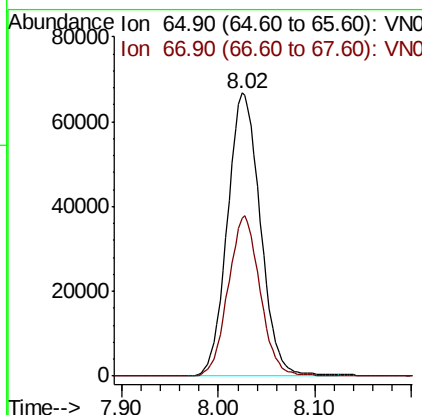
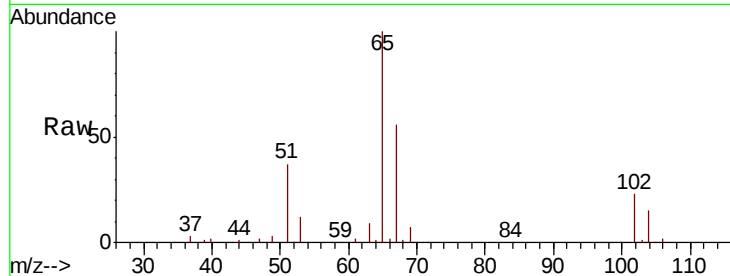




#33
 1,2-Dichloroethane-d4
 Concen: 52.529 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN056224.D
 Acq: 11 Jun 2019 15:37

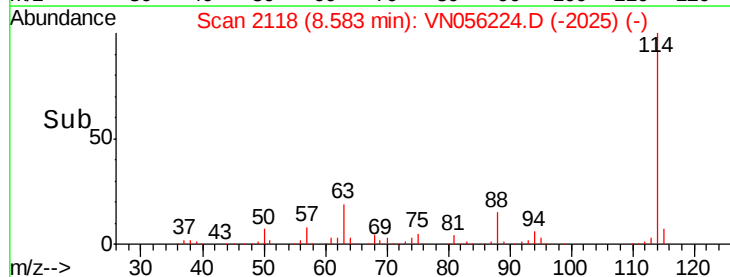
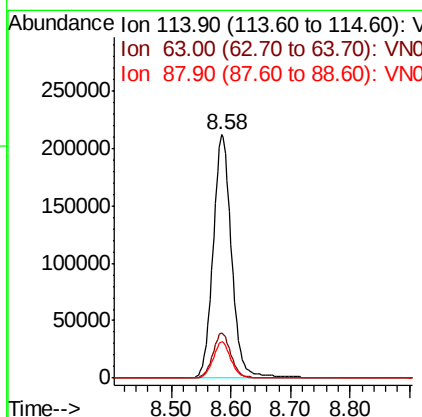
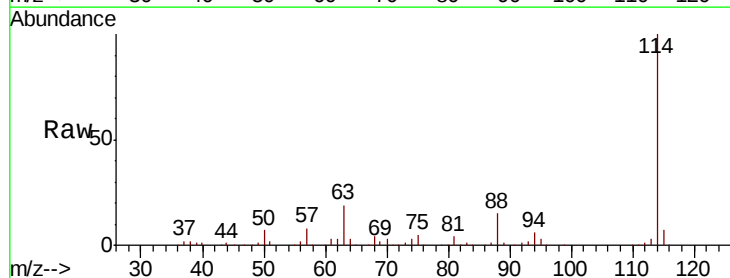
Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW306I-20190609

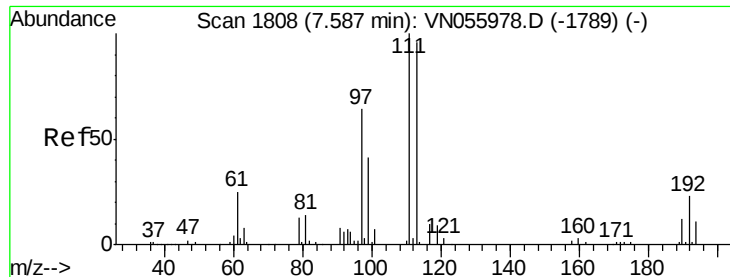
Tot Ion: 65 Resp: 158056
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056224.D
 Acq: 11 Jun 2019 15:37

Tgt Ion: 114 Resp: 454936
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.2
 88 14.9 0.0 31.0

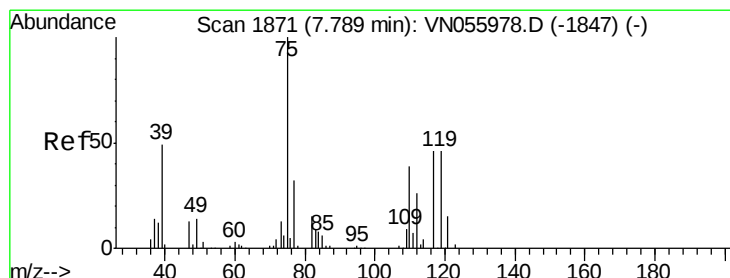
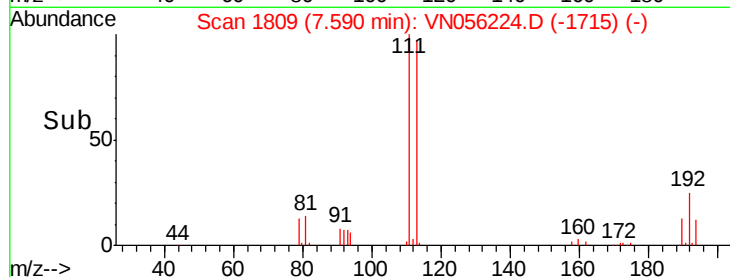
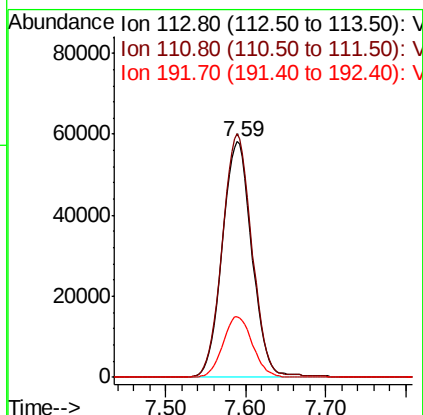
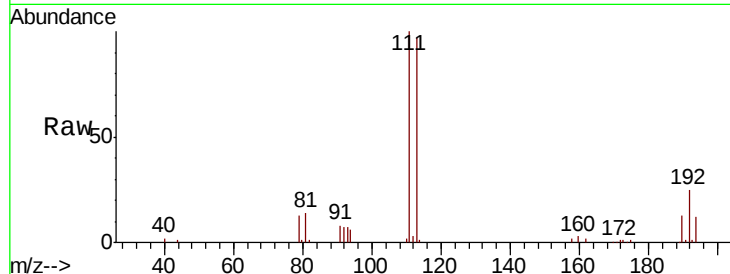




#35
 Dibromofluoromethane
 Concen: 53.247 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056224.D
 Acq: 11 Jun 2019 15:37

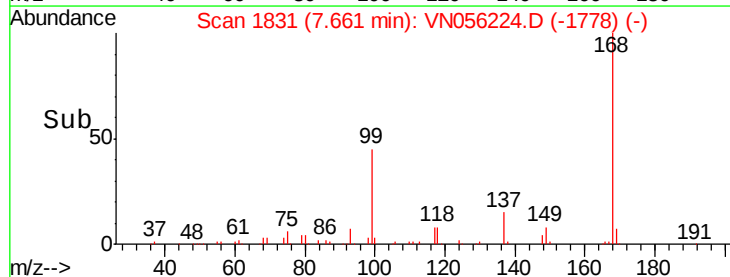
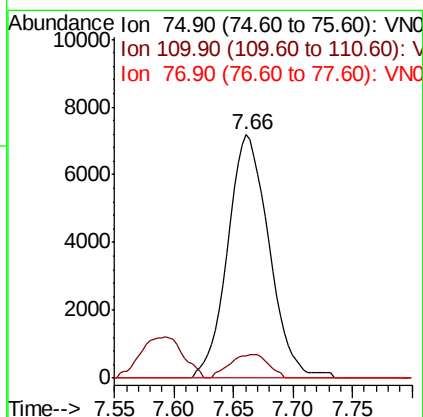
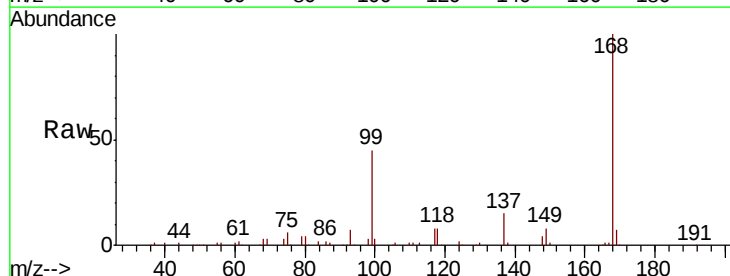
Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW306I-20190609

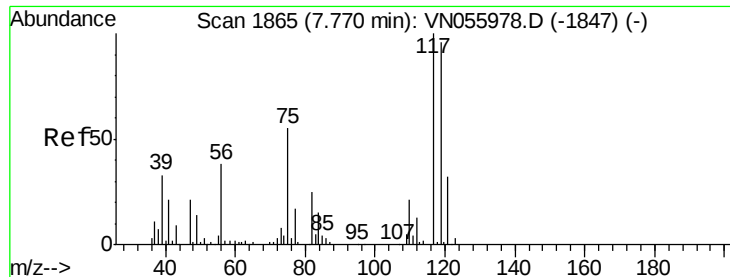
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.9	122.9
192	25.5	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.430 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056224.D
 Acq: 11 Jun 2019 15:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.782 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW306I-20190609

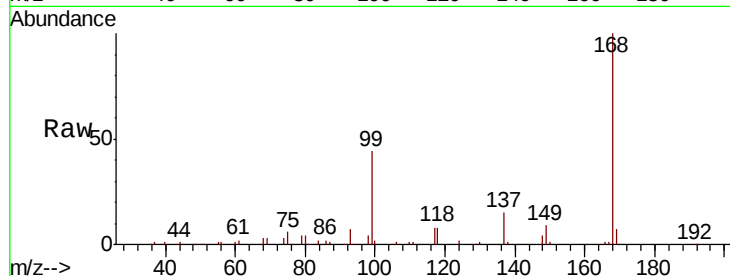
Tot Ion:117 Resp: 24459

Ion Ratio Lower Upper

117 100

119 4.2 79.0 118.6#

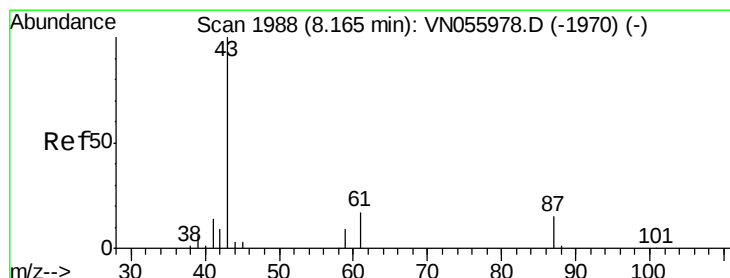
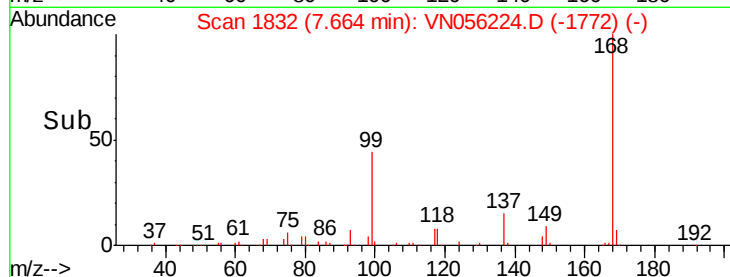
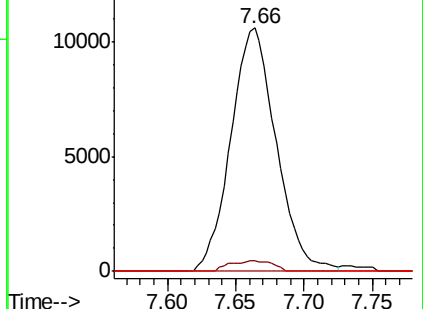
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.323 ug/l

RT: 8.34 min Scan# 2042

Delta R.T. 0.17 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

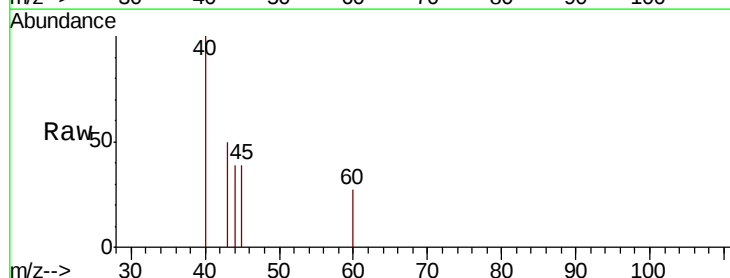
Tgt Ion: 43 Resp: 1821

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

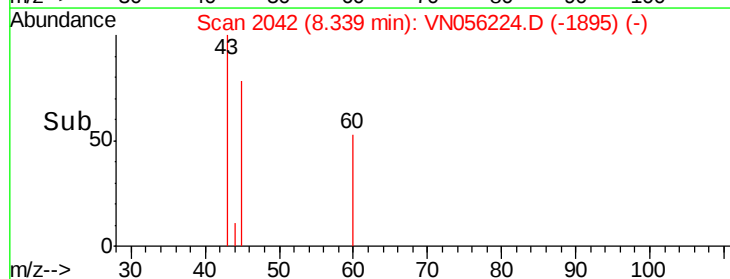
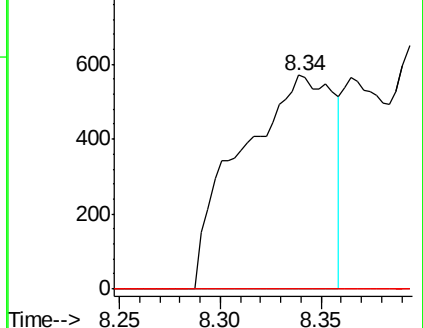
87 0.0 11.4 17.2#

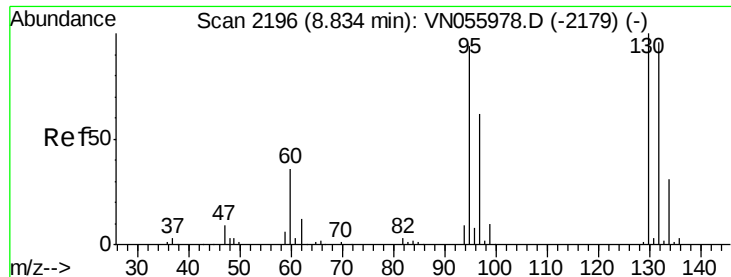


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#44

Trichloroethene

Concen: 2.279 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

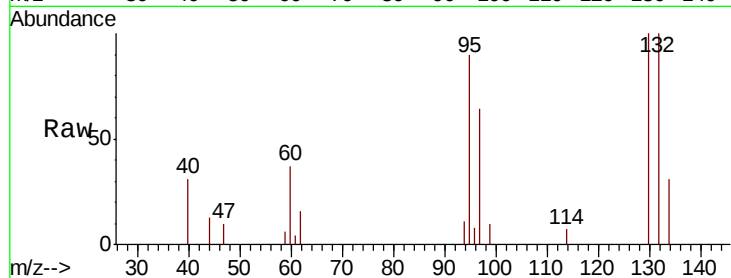
BPS1-TT-MW306I-20190609

Tot Ion:130 Resp: 7780

Ion Ratio Lower Upper

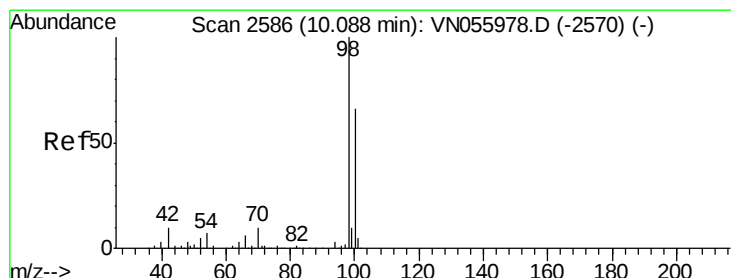
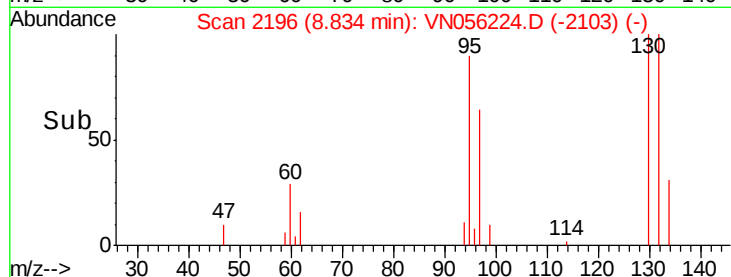
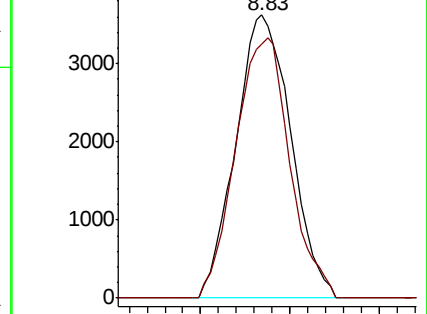
130 100

95 89.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN055978.D (-2179) (-)



#50

Toluene-d8

Concen: 54.050 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056224.D

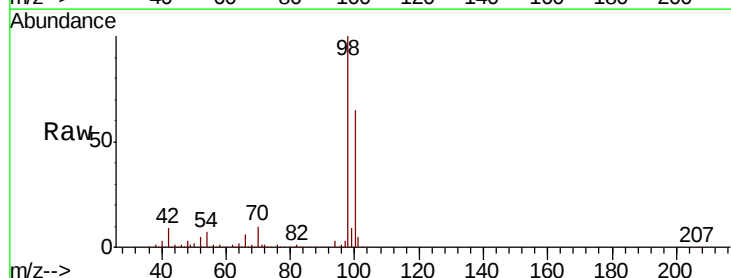
Acq: 11 Jun 2019 15:37

Tgt Ion: 98 Resp: 580527

Ion Ratio Lower Upper

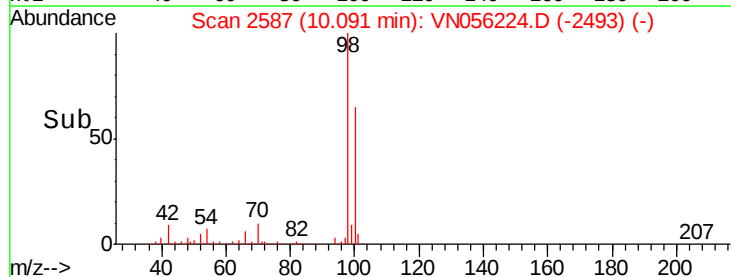
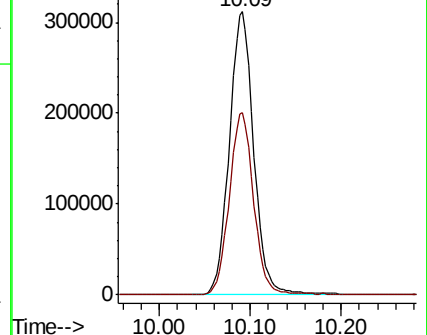
98 100

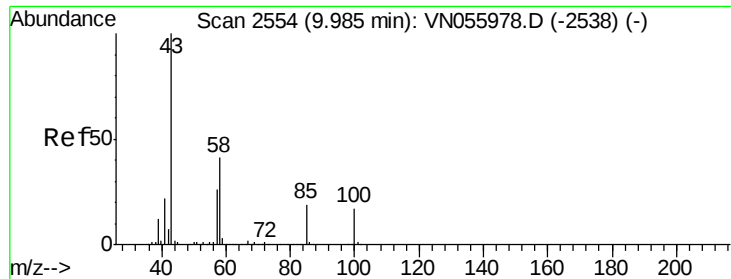
100 64.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.663 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

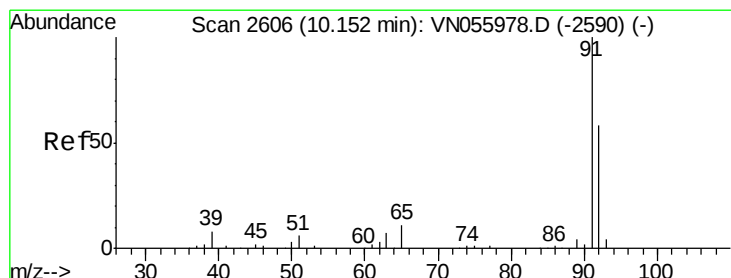
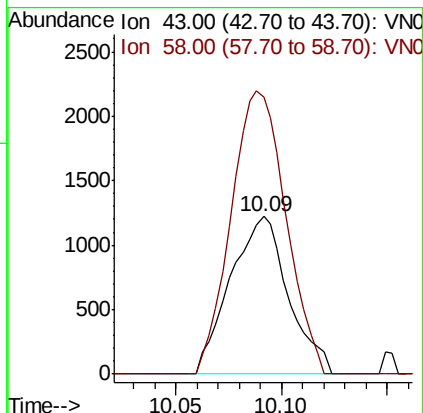
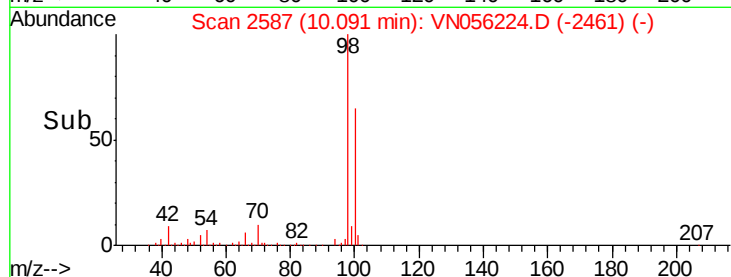
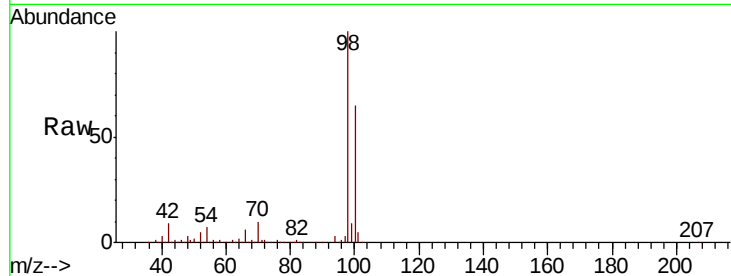
BPS1-TT-MW306I-20190609

Tot Ion: 43 Resp: 2340

Ion Ratio Lower Upper

43 100

58 169.1 32.1 48.1#



#52

Toluene

Concen: 0.920 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056224.D

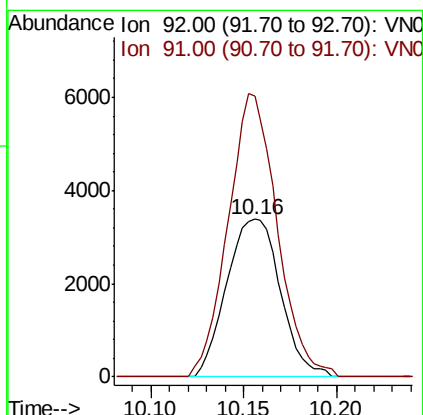
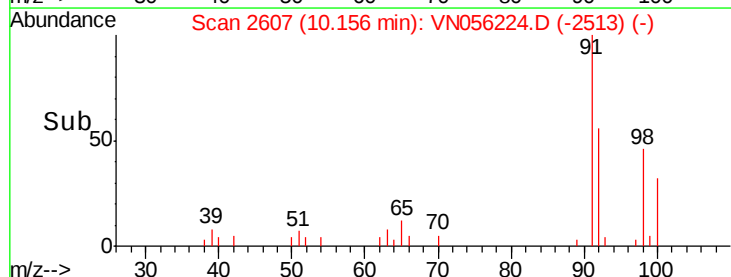
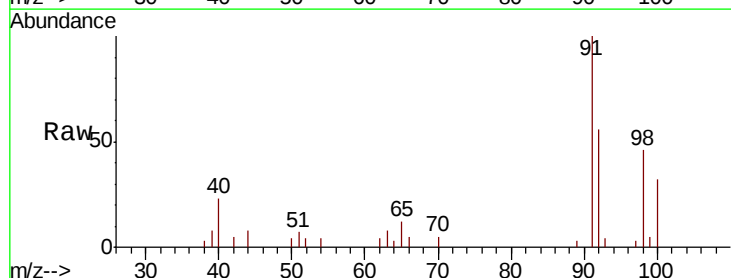
Acq: 11 Jun 2019 15:37

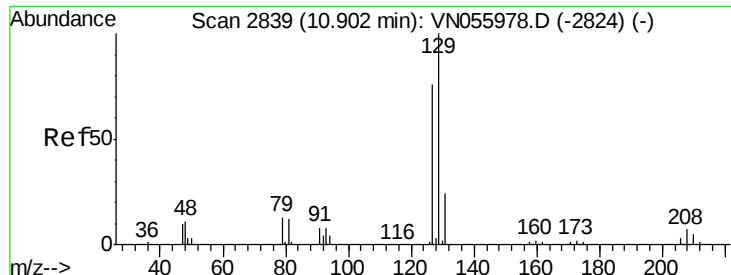
Tgt Ion: 92 Resp: 6798

Ion Ratio Lower Upper

92 100

91 164.1 139.4 209.2





#60

Dibromochloromethane

Concen: 2.689 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

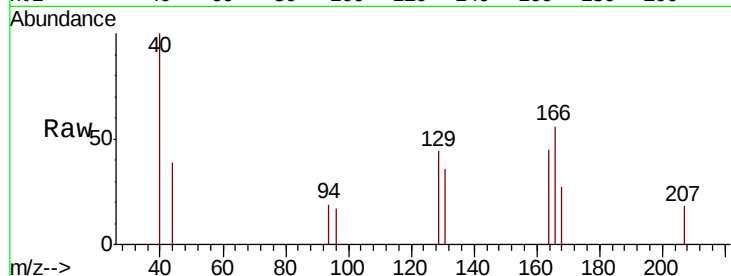
BPS1-TT-MW306I-20190609

Tot Ion:129 Resp: 806

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

500

400

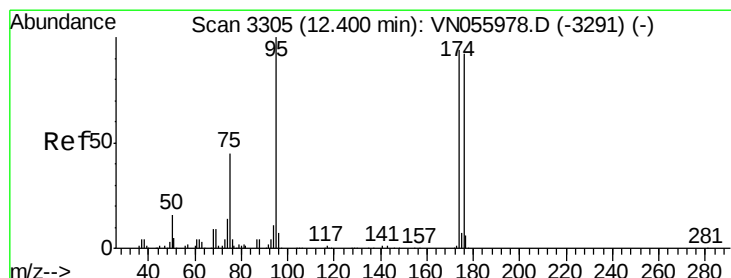
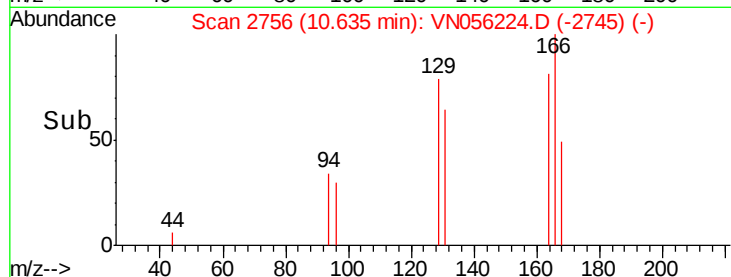
300

200

100

0

Time--> 10.60 10.65



#62

4-Bromofluorobenzene

Concen: 49.599 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

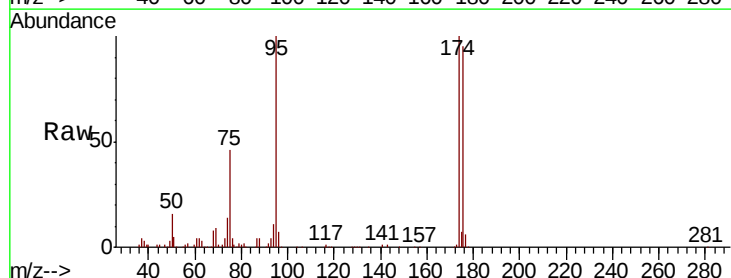
Tgt Ion: 95 Resp: 181164

Ion Ratio Lower Upper

95 100

174 101.0 0.0 191.0

176 97.4 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

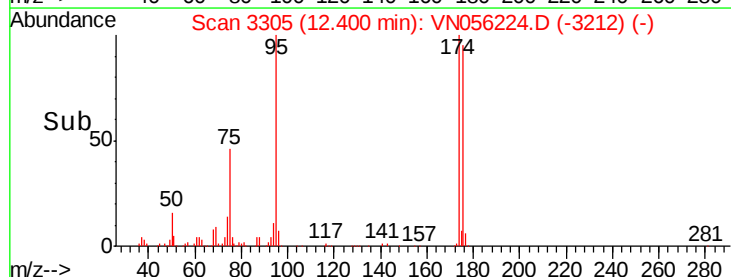
12.40

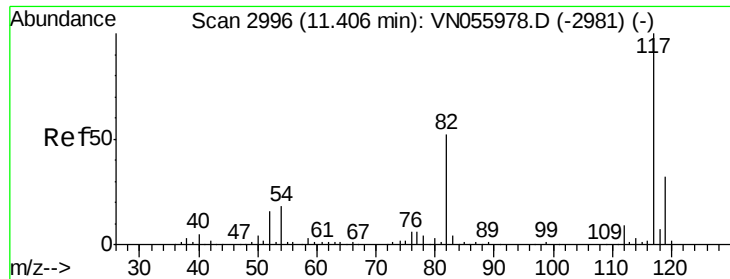
100000

50000

0

Time--> 12.30 12.40 12.50





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW306I-20190609

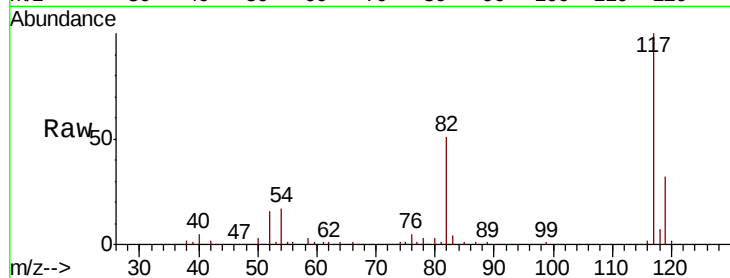
Tot Ion:117 Resp: 446444

Ion Ratio Lower Upper

117 100

82 50.5 41.8 62.8

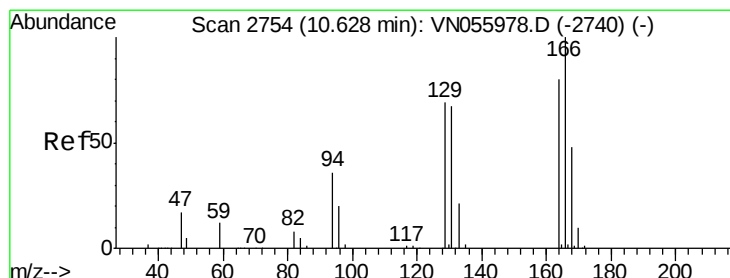
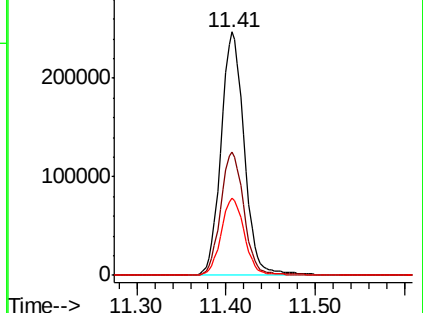
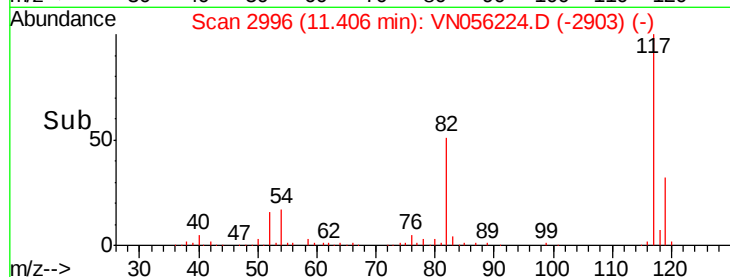
119 31.9 25.4 38.0



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



#64

Tetrachloroethene

Concen: 0.204 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. 0.01 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

Tgt Ion:164 Resp: 790

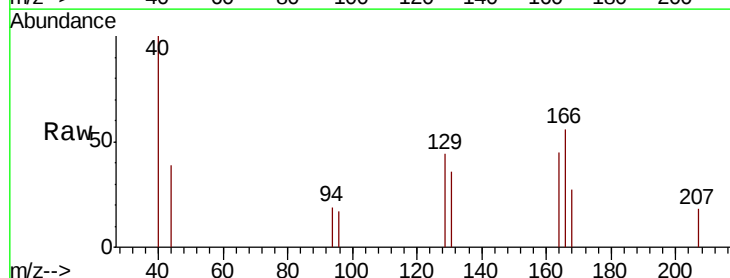
Ion Ratio Lower Upper

164 100

166 124.0 103.0 154.6

129 97.4 70.6 105.8

131 79.9 68.6 102.8

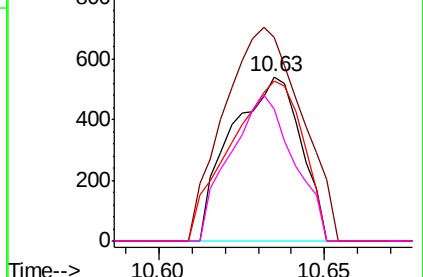
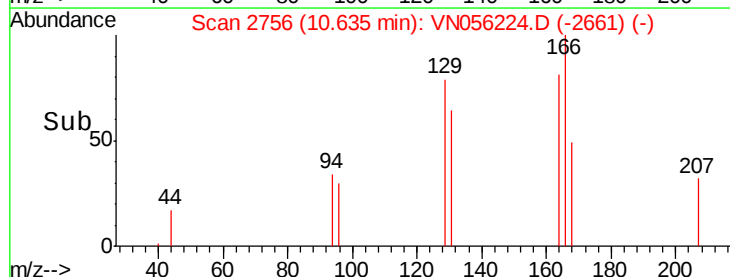


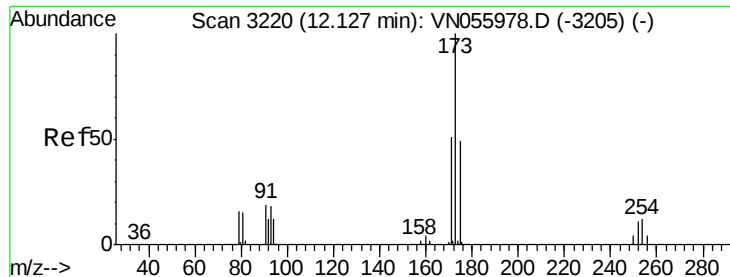
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

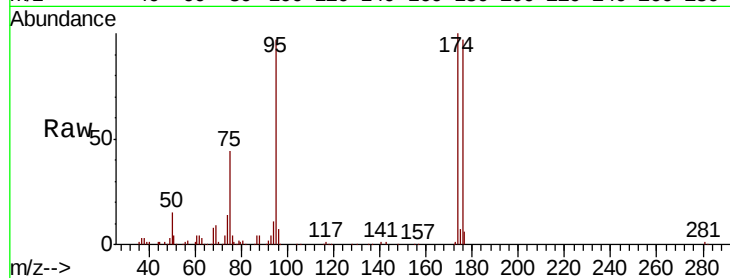




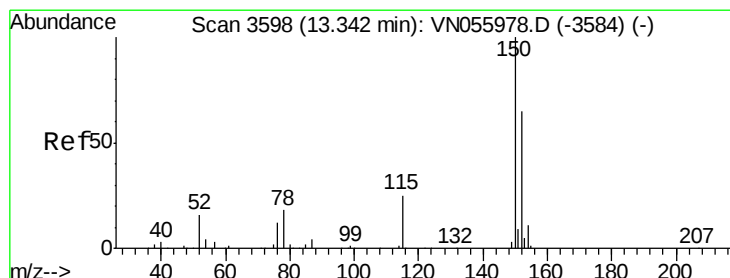
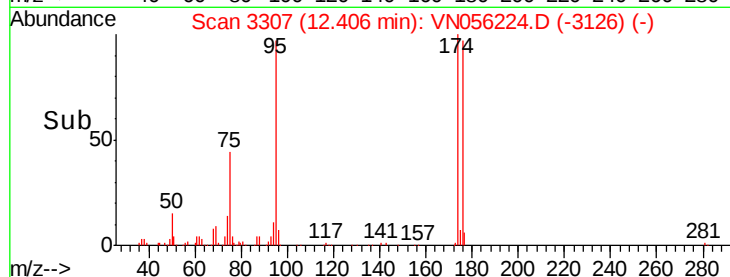
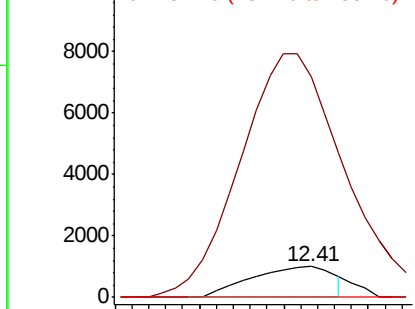
#71
Bromoform
Concen: 3.242 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN056224.D
Acq: 11 Jun 2019 15:37

Instrument :
MSVOA_N
ClientSampleId :
BPS1-TT-MW306I-20190609

Tot Ion:173 Resp: 1362
Ion Ratio Lower Upper
173 100
175 846.0 24.3 72.8#
254 0.0 0.0 0.0

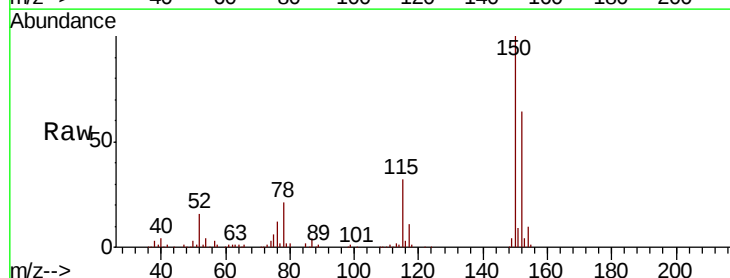


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

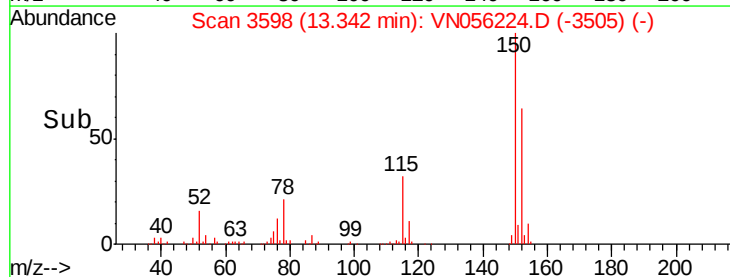
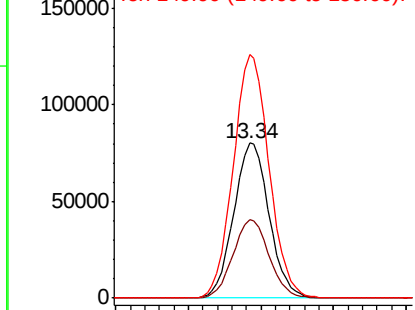


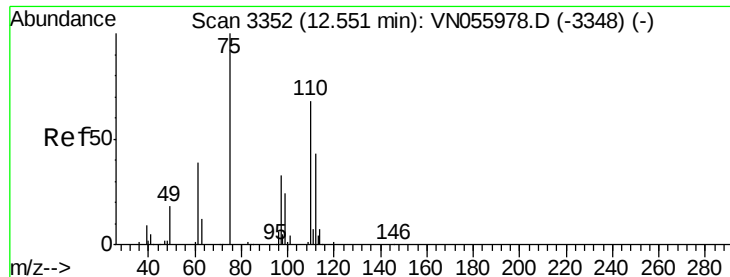
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056224.D
Acq: 11 Jun 2019 15:37

Tgt Ion:152 Resp: 135855
Ion Ratio Lower Upper
152 100
115 51.7 27.0 81.0
150 158.7 0.0 343.2



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





#76

1,2,3-Trichloropropane

Concen: 33.302 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

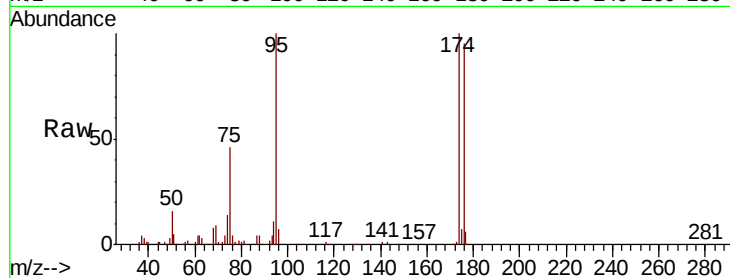
BPS1-TT-MW306I-20190609

Tot Ion: 75 Resp: 83248

Ion Ratio Lower Upper

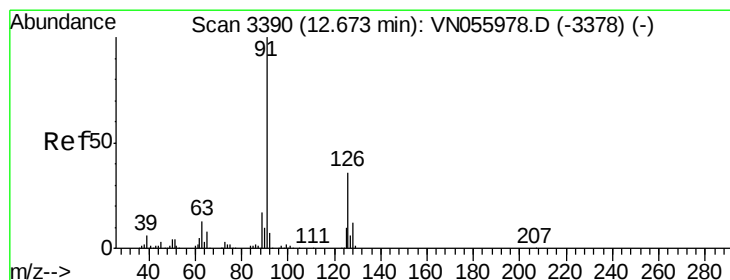
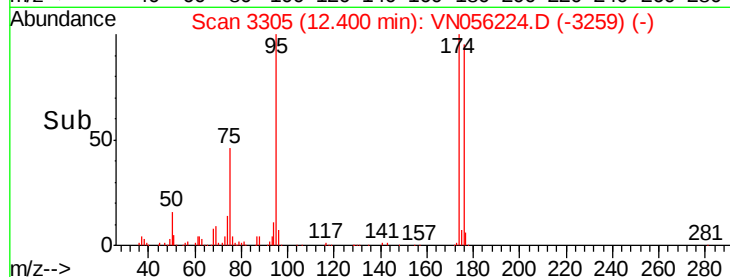
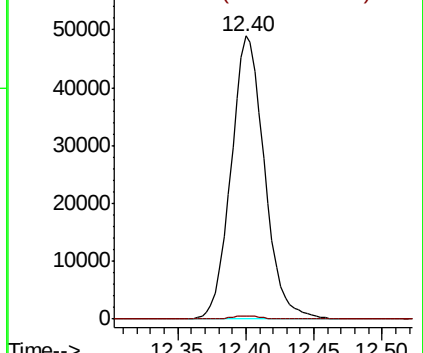
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056224.D

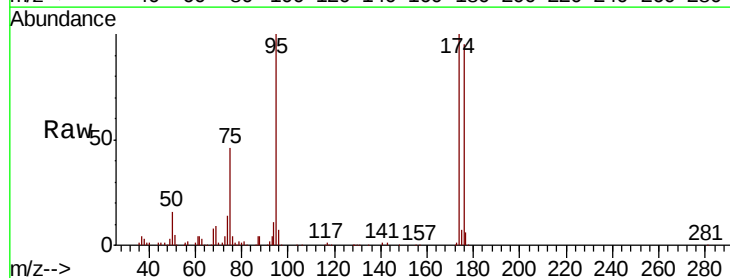
Acq: 11 Jun 2019 15:37

Tgt Ion: 91 Resp: 530

Ion Ratio Lower Upper

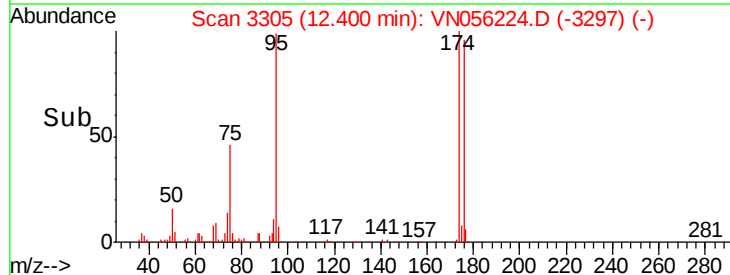
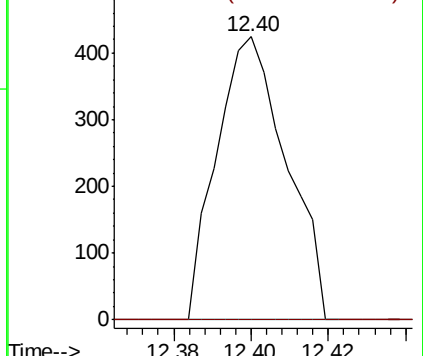
91 100

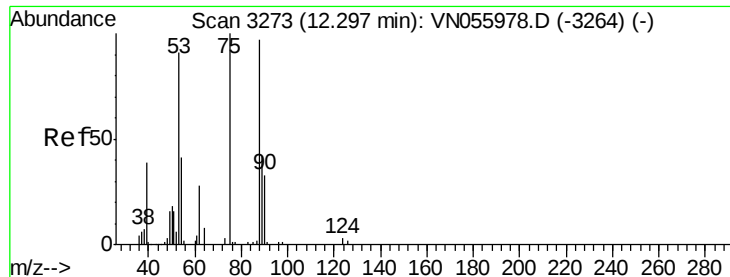
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 110.902 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW306I-20190609

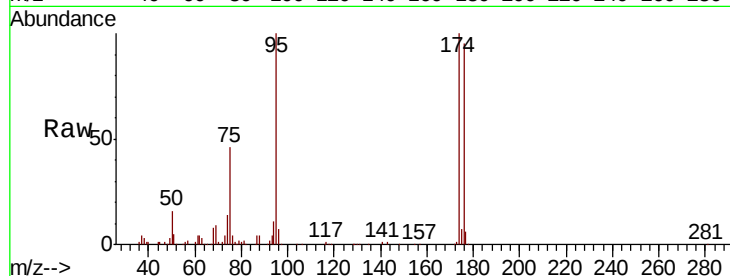
Tot Ion: 75 Resp: 83248

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

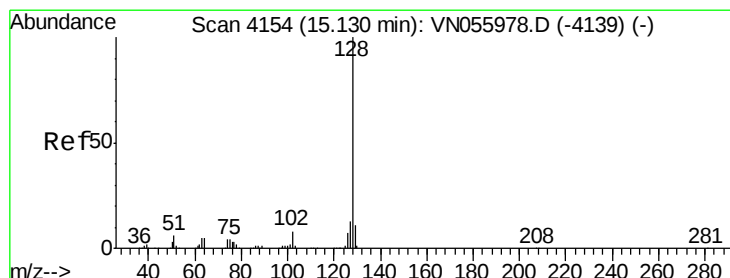
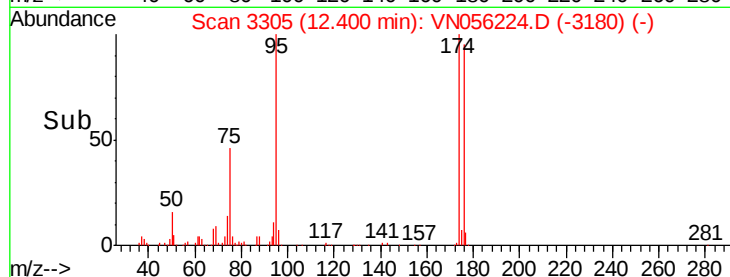
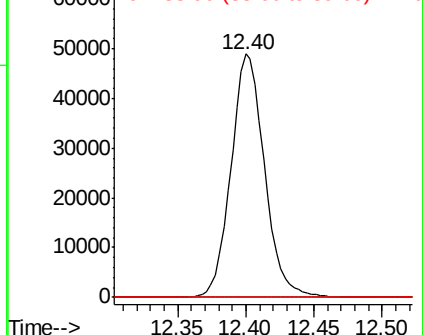
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 3.856 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056224.D

Acq: 11 Jun 2019 15:37

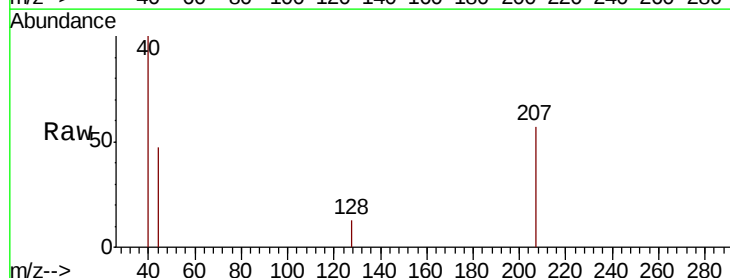
Tgt Ion: 128 Resp: 31

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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

