

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081219\
 Data File : VN057214.D
 Acq On : 12 Aug 2019 14:49
 Operator : JC/SP
 Sample : K4262-04DL 4X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-19D_080819DL

Quant Time: Aug 13 01:43:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

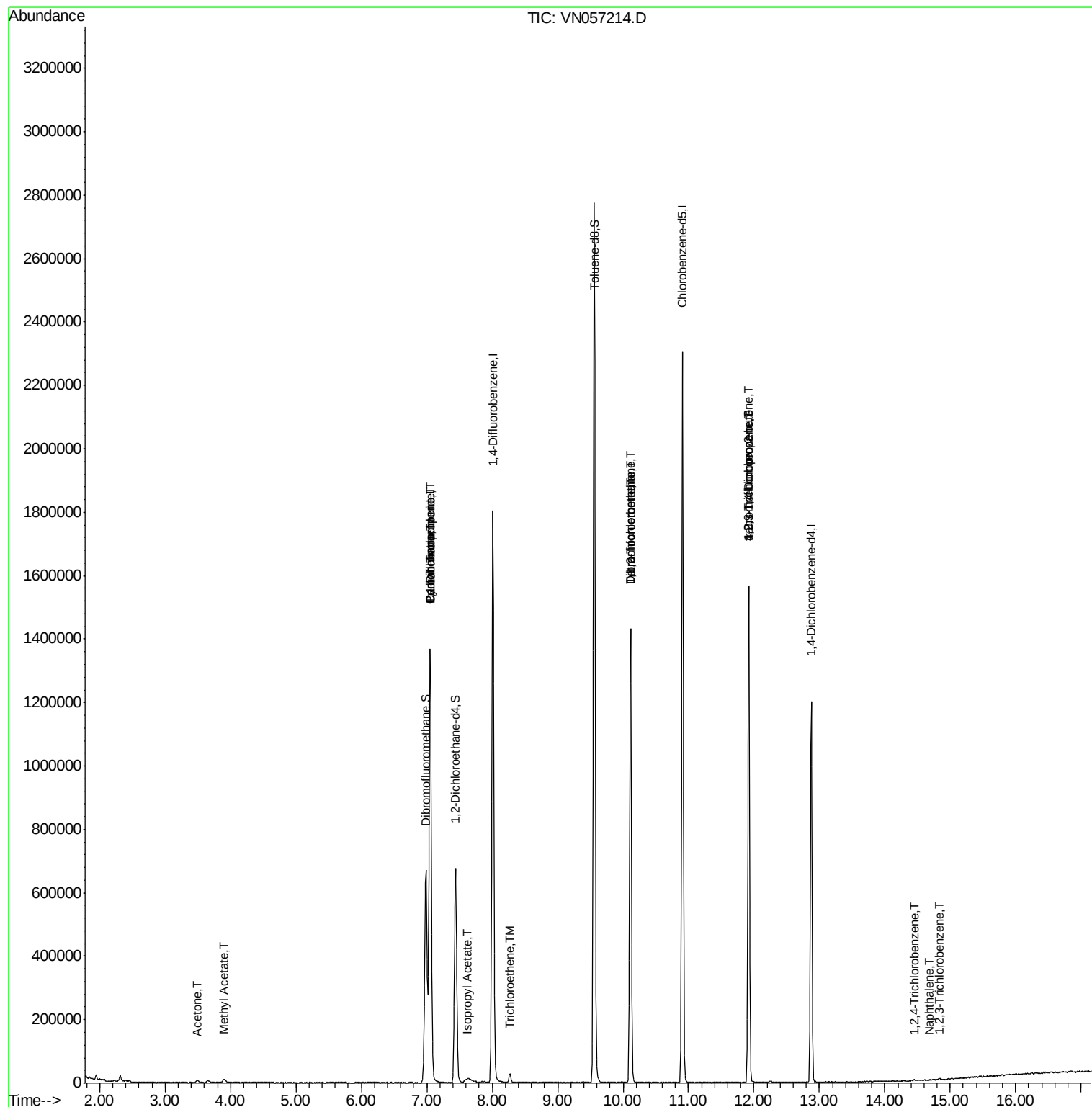
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1305403	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1795491	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1481502	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	360686	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	600865	44.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.52%	
35) Dibromofluoromethane	6.99	113	547815	48.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.24%	
50) Toluene-d8	9.56	98	2094456	48.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.18%	
62) 4-Bromofluorobenzene	11.92	95	541150	38.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.92%	
Target Compounds						
					Qvalue	
16) Acetone	3.49	43	7335	1.809	ug/l #	79
18) Methyl Acetate	3.90	43	19617	0.980	ug/l	97
31) Cyclohexane	7.05	56	18667	0.959	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	77812	5.264	ug/l #	48
37) Ethyl Acetate	6.30	43	103	Below Cal	#	70
38) Carbon Tetrachloride	7.05	117	107037	6.947	ug/l #	17
43) Isopropyl Acetate	7.63	43	14812	0.712	ug/l #	51
44) Trichloroethene	8.27	130	11772	0.898	ug/l	96
55) 1,1,2-Trichloroethane	10.11	97	2632	0.230	ug/l #	4
60) Dibromochloromethane	10.11	129	311861	25.994	ug/l #	11
64) Tetrachloroethene	10.11	164	375829	30.504	ug/l	95
73) Isopropylbenzene	11.76	105	490	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	11.93	83	30	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	251051	34.758	ug/l #	100
79) 2-Chlorotoluene	12.20	91	644	Below Cal		77
81) trans-1,4-Dichloro-2-buten	11.92	75	251051	102.342	ug/l #	14
83) tert-Butylbenzene	12.53	119	324	Below Cal	#	50
93) 1,2,4-Trichlorobenzene	14.44	180	383	5.995	ug/l #	1
94) Hexachlorobutadiene	14.54	225	170	Below Cal	#	19
95) Naphthalene	14.67	128	1537	2.968	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.84	180	1474	5.963	ug/l	66

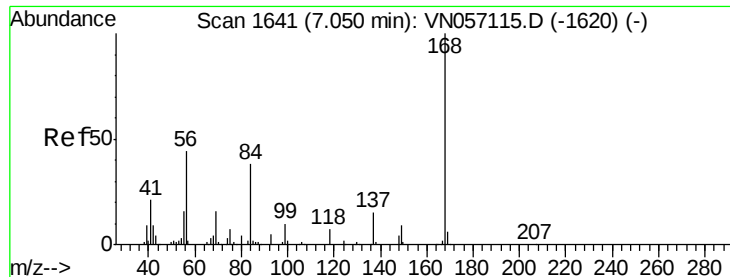
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1641

Delta R.T. -0.00 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

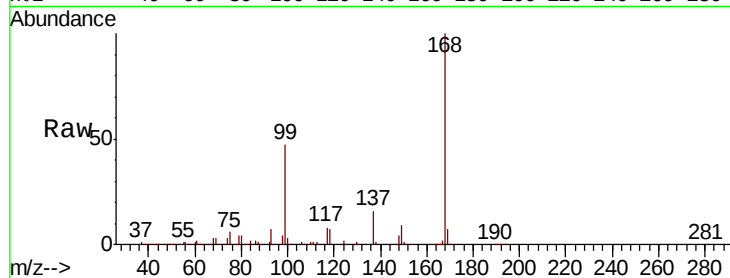
MW-19D_080819DL

Tgt Ion:168 Resp: 1305403

Ion Ratio Lower Upper

168 100

99 46.7 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): VN057214.D (-1620) (-)

Ion 98.90 (98.60 to 99.60): VN057214.D (-1620) (-)

7.05

600000

500000

400000

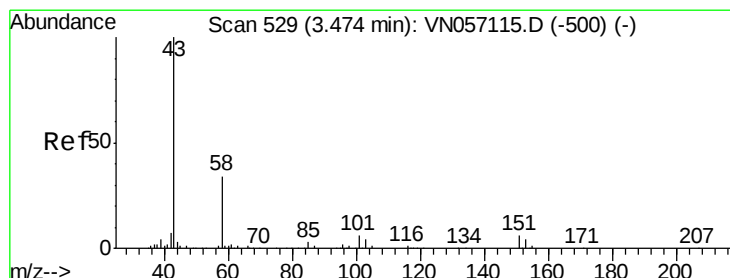
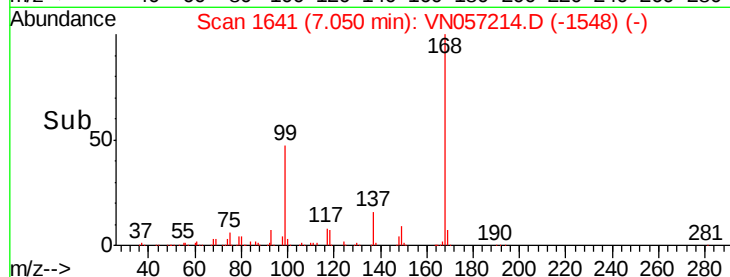
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 1.809 ug/l

RT: 3.49 min Scan# 534

Delta R.T. 0.02 min

Lab File: VN057214.D

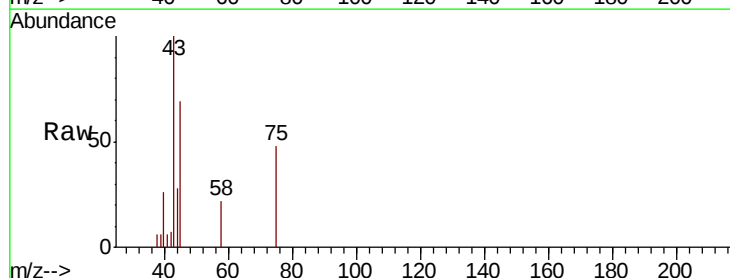
Acq: 12 Aug 2019 14:49

Tgt Ion: 43 Resp: 7335

Ion Ratio Lower Upper

43 100

58 22.4 27.4 41.2#



Abundance Ion 43.00 (42.70 to 43.70): VN057214.D (-500) (-)

Ion 58.00 (57.70 to 58.70): VN057214.D (-500) (-)

3.49

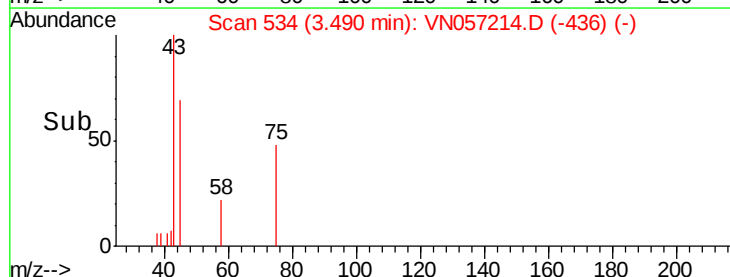
3000

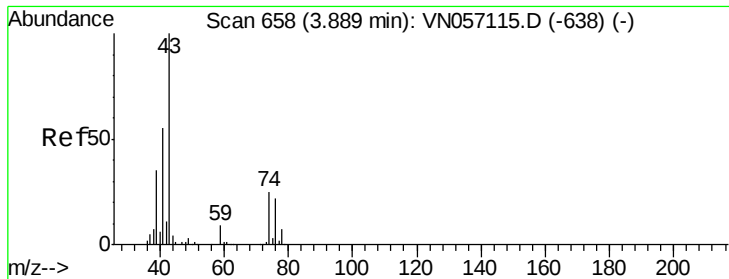
2000

1000

0

Time-->





#18

Methyl Acetate

Concen: 0.980 ug/l

RT: 3.90 min Scan# 660

Delta R.T. 0.01 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

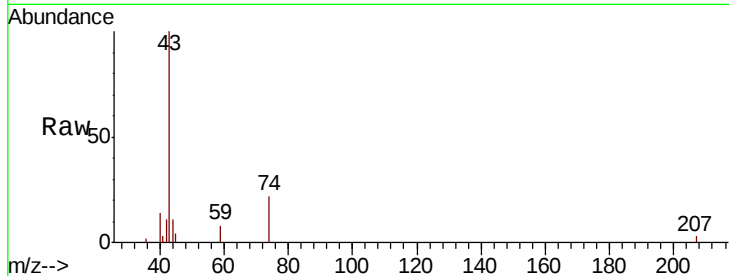
MW-19D_080819DL

Tgt Ion: 43 Resp: 19617

Ion Ratio Lower Upper

43 100

74 23.6 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

8000

6000

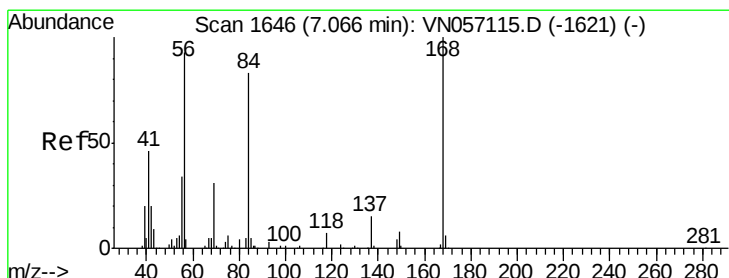
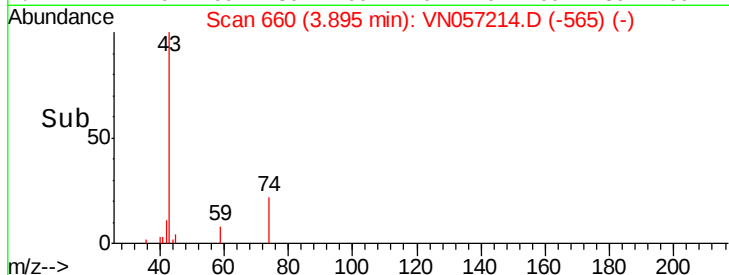
4000

2000

0

Time-->

3.80 3.85 3.90 3.95 4.00



#31

Cyclohexane

Concen: 0.959 ug/l

RT: 7.05 min Scan# 1641

Delta R.T. -0.02 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

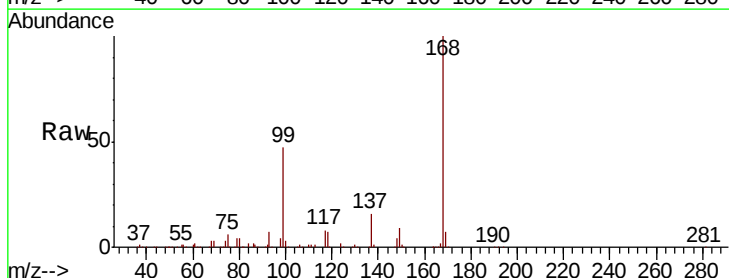
Tgt Ion: 56 Resp: 18667

Ion Ratio Lower Upper

56 100

69 189.6 26.9 40.3#

84 153.9 71.9 107.9#



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

20000

15000

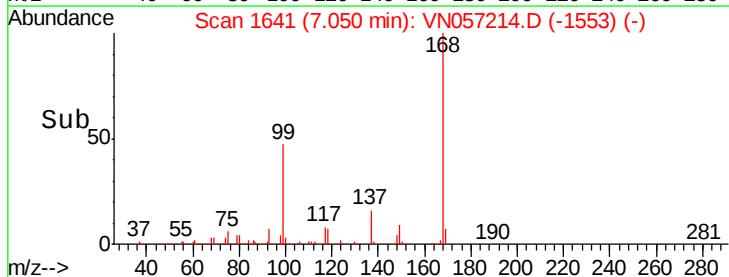
10000

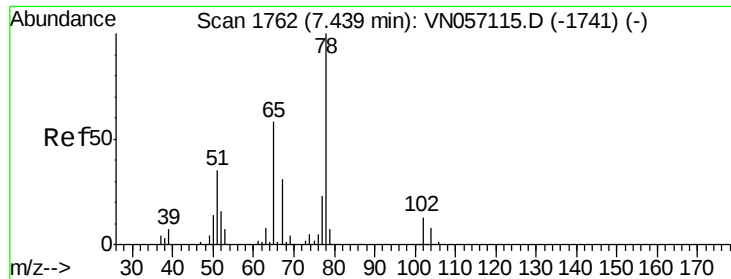
5000

0

Time-->

7.00 7.05 7.10

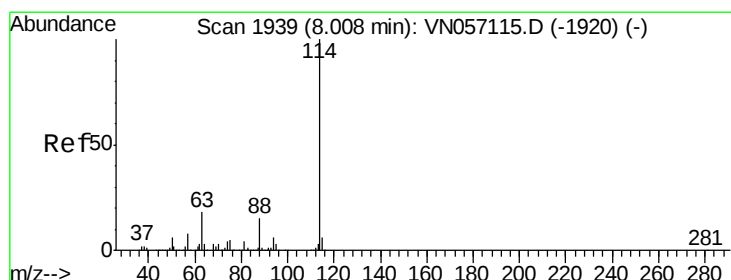
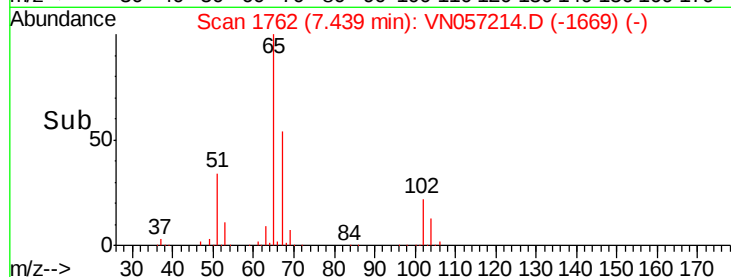
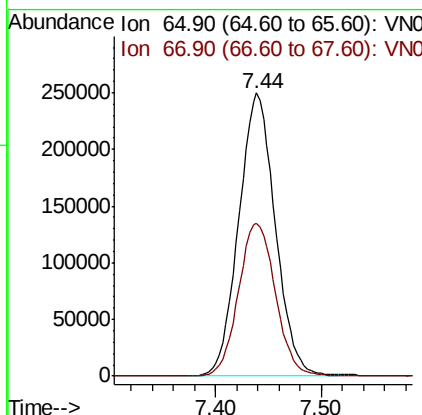
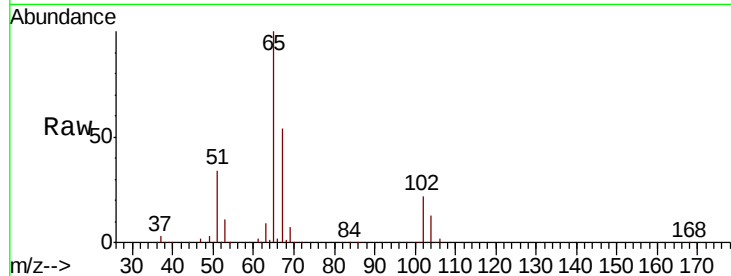




#33
 1,2-Dichloroethane-d4
 Concen: 44.757 ug/l
 RT: 7.44 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VN057214.D
 Acq: 12 Aug 2019 14:49

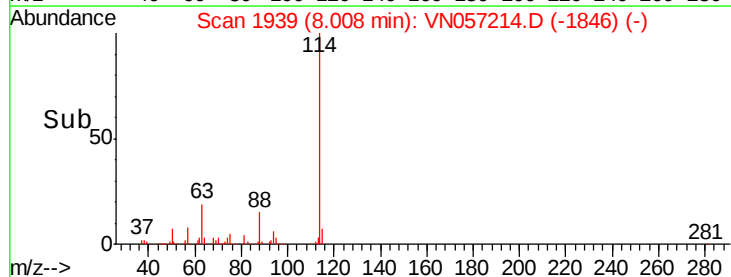
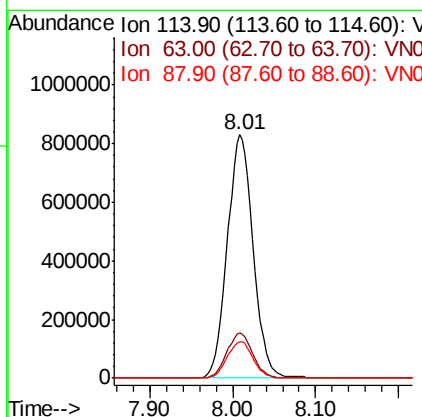
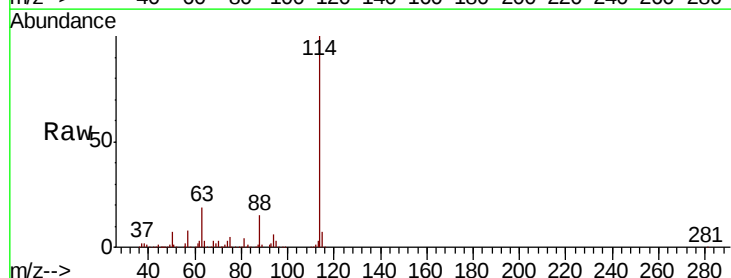
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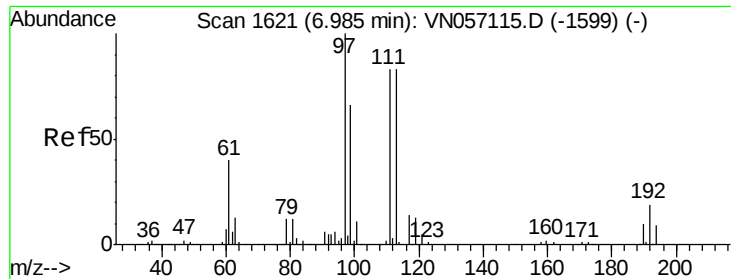
Tgt Ion: 65 Resp: 600865
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057214.D
 Acq: 12 Aug 2019 14:49

Tgt Ion: 114 Resp: 1795491
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 36.2
 88 15.1 0.0 30.0

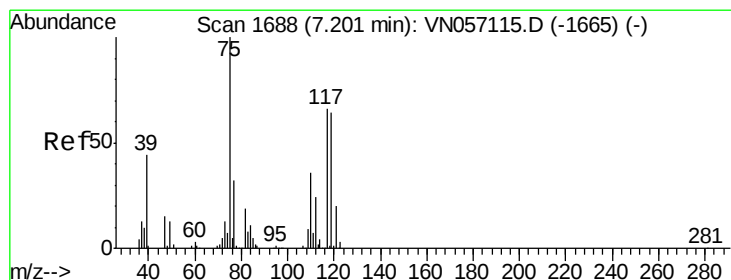
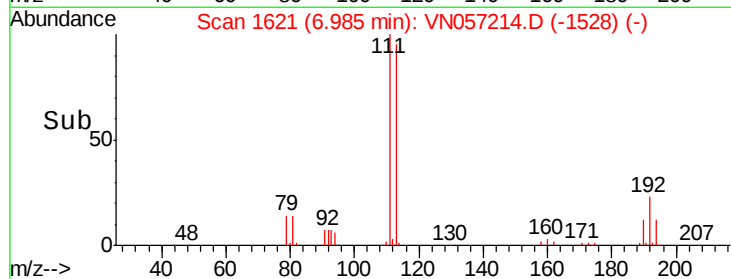
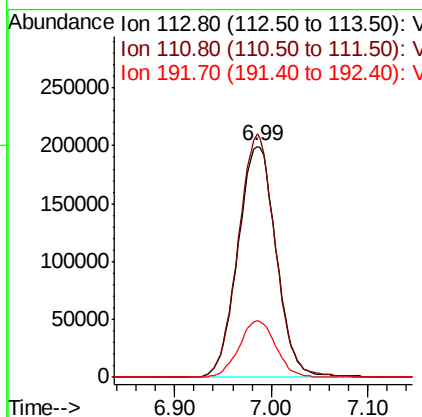
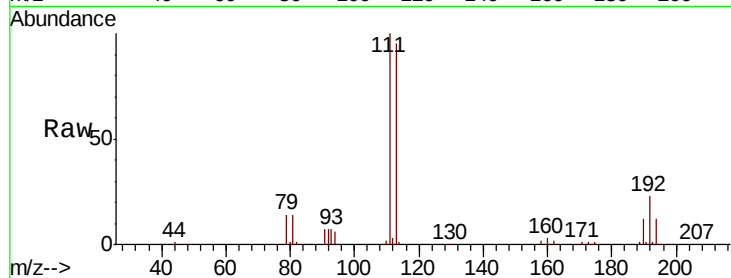




#35
 Dibromofluoromethane
 Concen: 48.621 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057214.D
 Acq: 12 Aug 2019 14:49

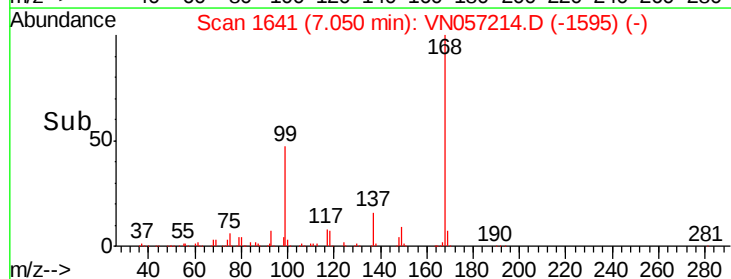
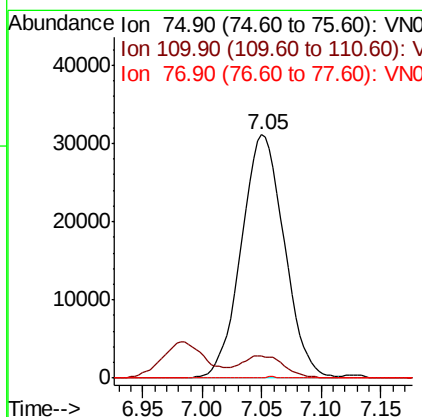
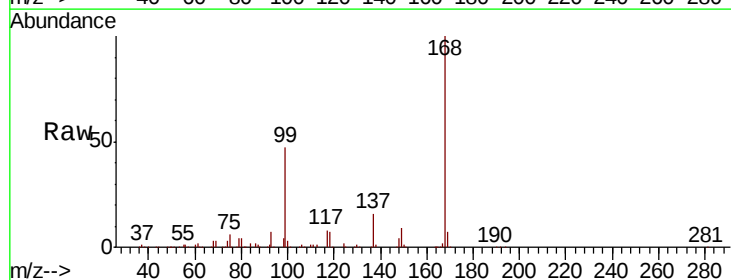
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-19D_080819DL

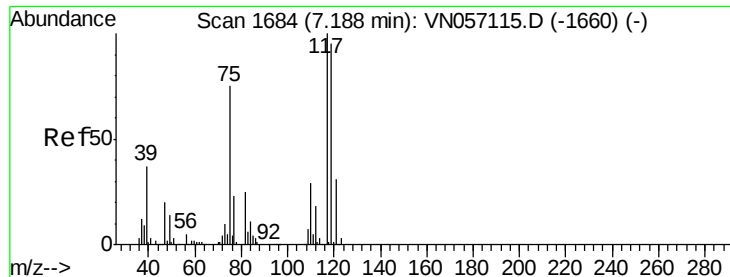
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.3	121.9
192	23.6	19.0	28.4



#36
 1,1-Dichloropropene
 Concen: 5.264 ug/l
 RT: 7.05 min Scan# 1641
 Delta R.T. -0.15 min
 Lab File: VN057214.D
 Acq: 12 Aug 2019 14:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.7	56.1#
77	0.1	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.947 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. -0.14 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

MW-19D_080819DL

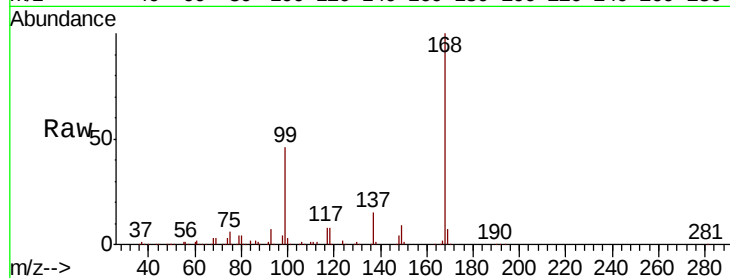
Tgt Ion:117 Resp: 107037

Ion Ratio Lower Upper

117 100

119 5.5 75.8 113.6#

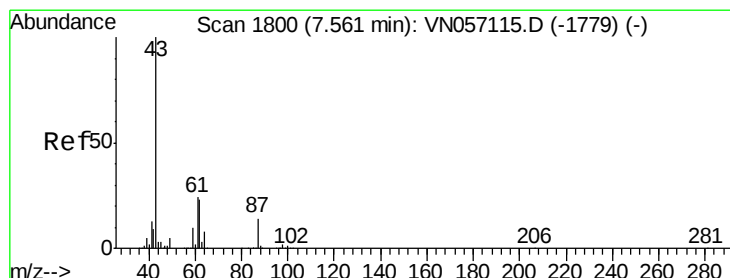
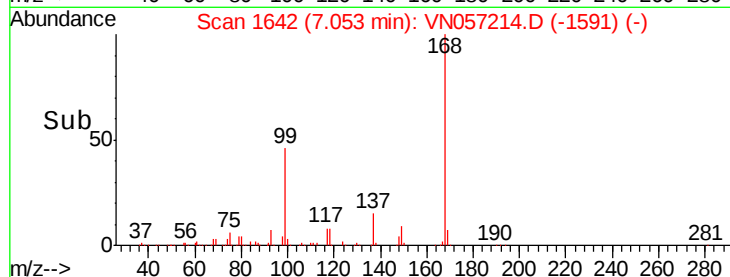
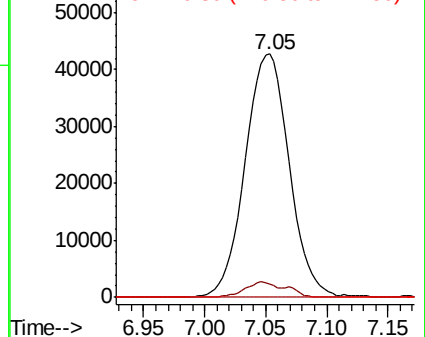
121 0.0 24.4 36.6#



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: 0.712 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.06 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

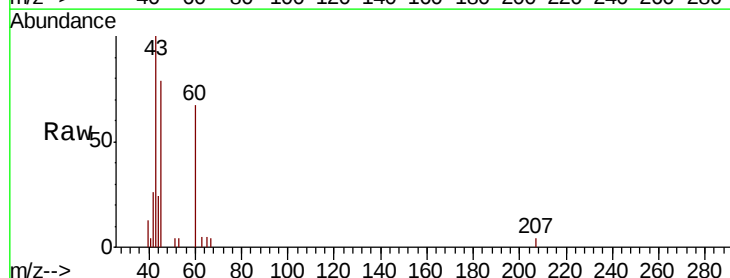
Tgt Ion: 43 Resp: 14812

Ion Ratio Lower Upper

43 100

61 0.0 24.2 36.2#

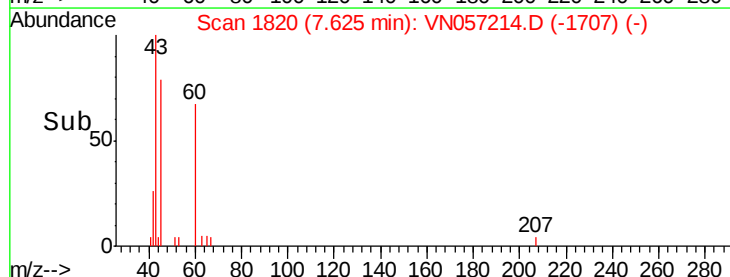
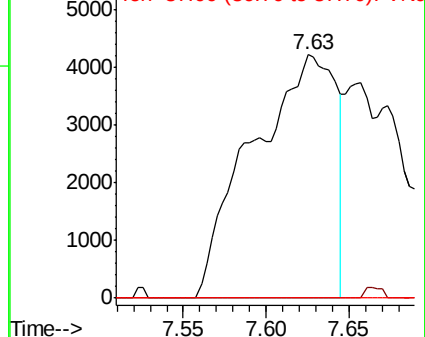
87 0.0 11.8 17.8#

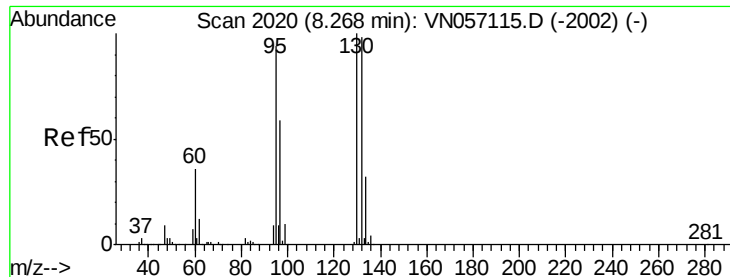


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

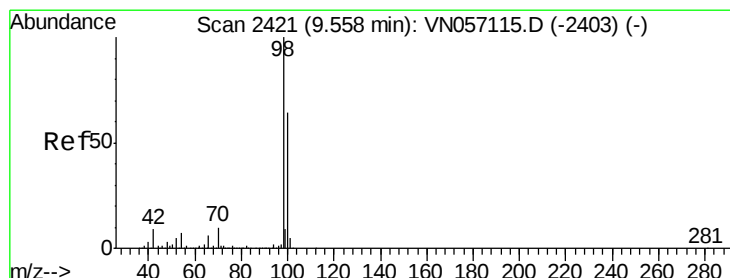
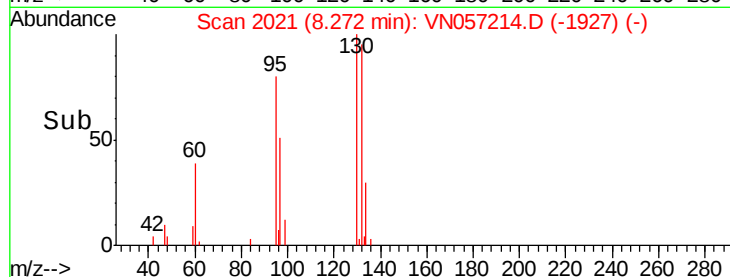
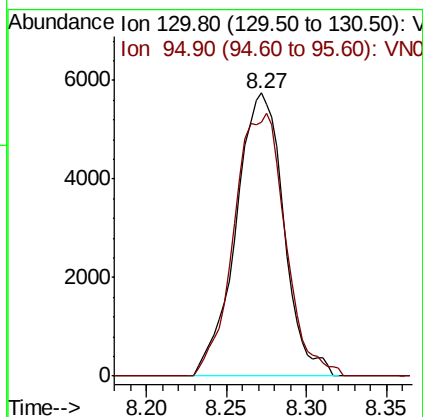
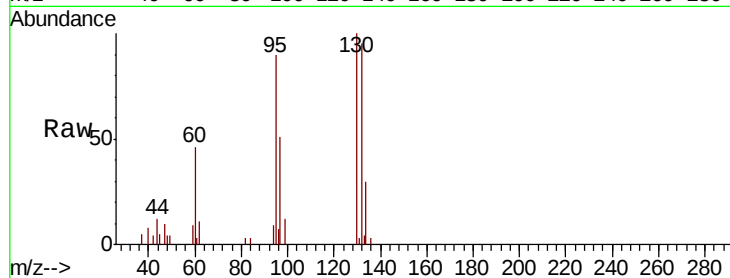




#44
 Trichloroethene
 Concen: 0.898 ug/l
 RT: 8.27 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: VN057214.D
 Acq: 12 Aug 2019 14:49

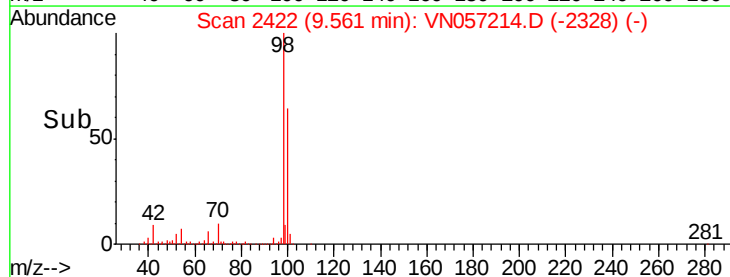
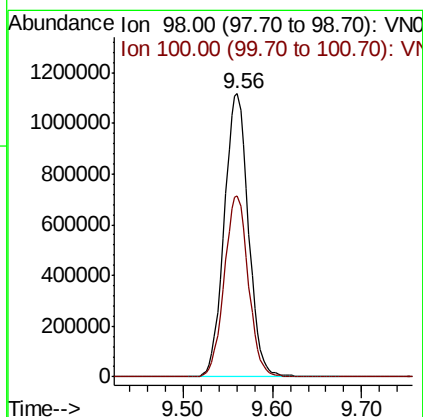
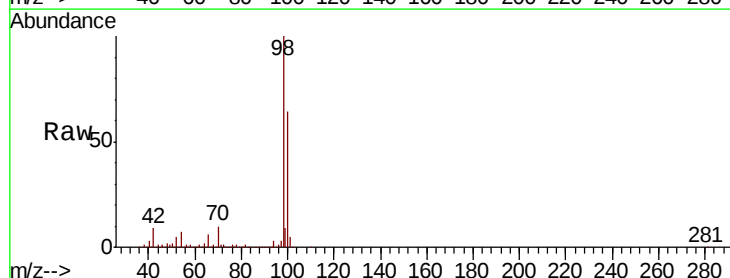
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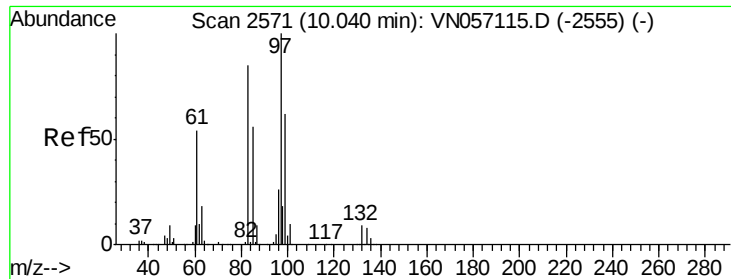
Tgt Ion:130 Resp: 11772
 Ion Ratio Lower Upper
 130 100
 95 89.7 0.0 187.4



#50
 Toluene-d8
 Concen: 48.589 ug/l
 RT: 9.56 min Scan# 2422
 Delta R.T. 0.00 min
 Lab File: VN057214.D
 Acq: 12 Aug 2019 14:49

Tgt Ion: 98 Resp: 2094456
 Ion Ratio Lower Upper
 98 100
 100 63.8 51.2 76.8

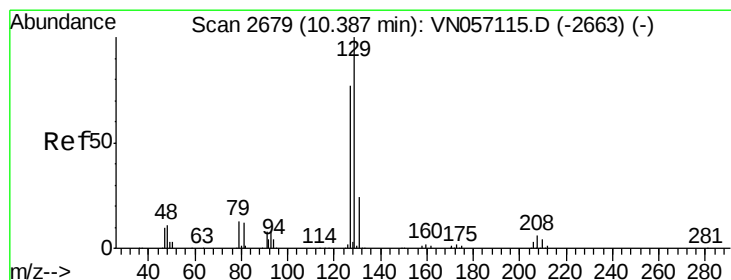
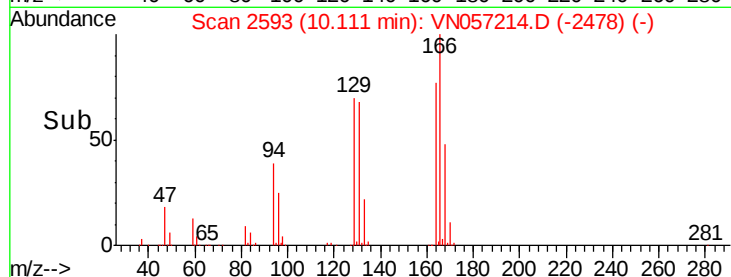
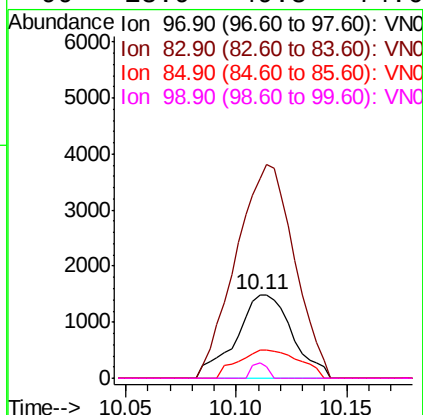
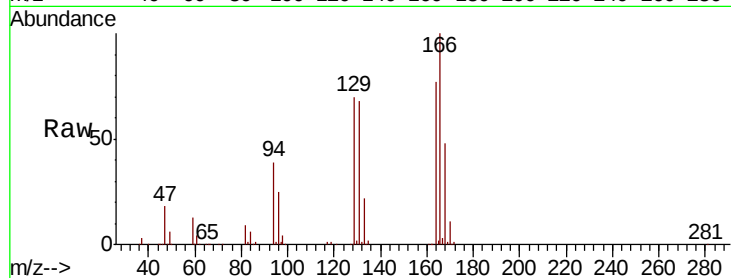




#55
 1,1,2-Trichloroethane
 Concen: 0.230 ug/l
 RT: 10.11 min Scan# 2593
 Delta R.T. 0.07 min
 Lab File: VN057214.D
 Acq: 12 Aug 2019 14:49

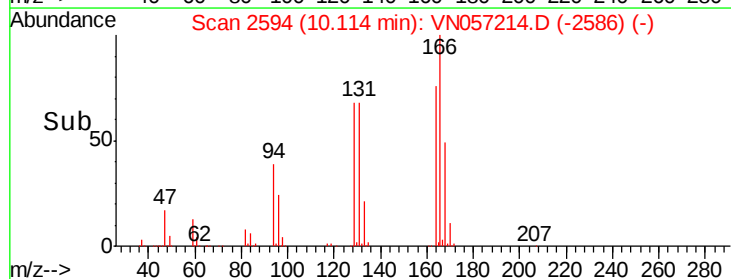
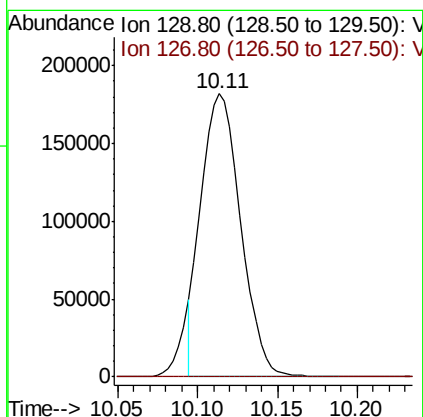
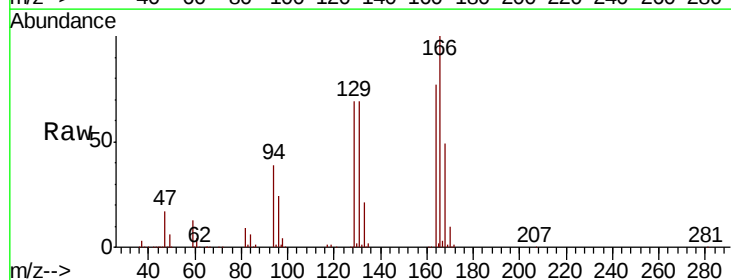
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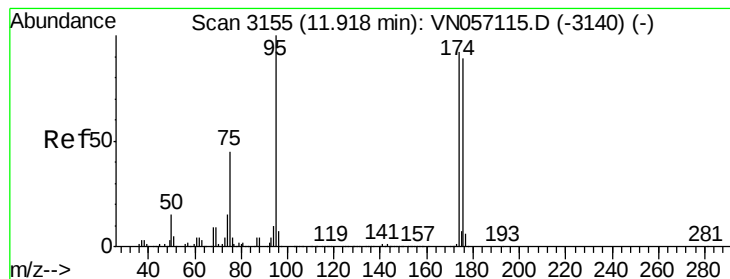
Tgt Ion: 97 Resp: 2632
 Ion Ratio Lower Upper
 97 100
 83 238.6 67.8 101.8#
 85 33.4 44.4 66.6#
 99 18.9 49.8 74.6#



#60
 Dibromochloromethane
 Concen: 25.994 ug/l
 RT: 10.11 min Scan# 2594
 Delta R.T. -0.27 min
 Lab File: VN057214.D
 Acq: 12 Aug 2019 14:49

Tgt Ion: 129 Resp: 311861
 Ion Ratio Lower Upper
 129 100
 127 0.1 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 38.963 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

MW-19D_080819DL

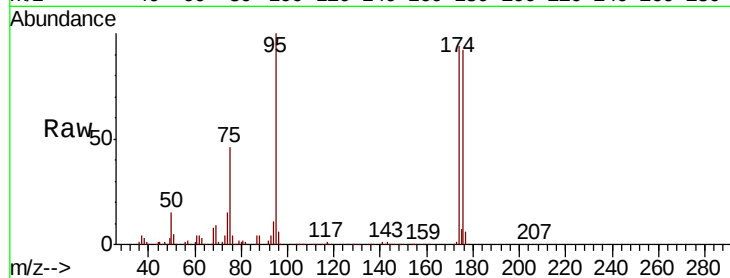
Tgt Ion: 95 Resp: 541150

Ion Ratio Lower Upper

95 100

174 95.4 0.0 185.0

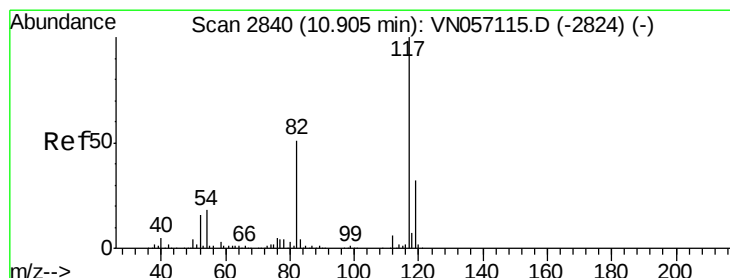
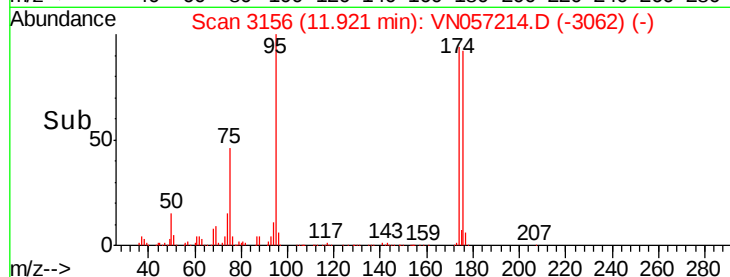
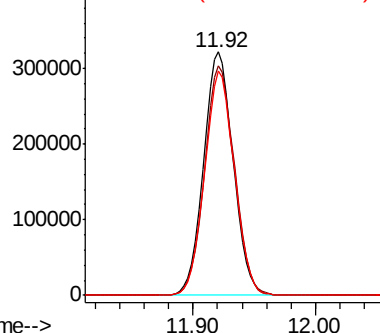
176 92.9 0.0 181.2



Abundance Ion 94.90 (94.60 to 95.60): VN057214.D (-3062) (-)

Ion 173.80 (173.50 to 174.50): VN057214.D (-3062) (-)

Ion 175.80 (175.50 to 176.50): VN057214.D (-3062) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.91 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

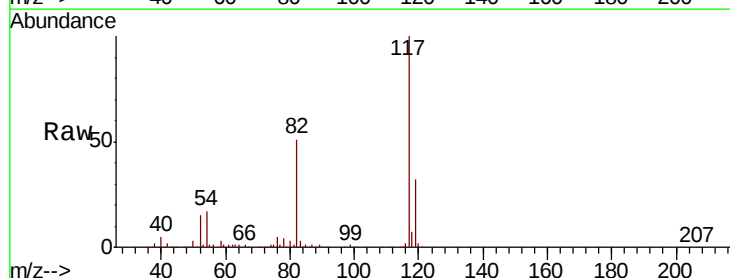
Tgt Ion: 117 Resp: 1481502

Ion Ratio Lower Upper

117 100

82 51.3 40.8 61.2

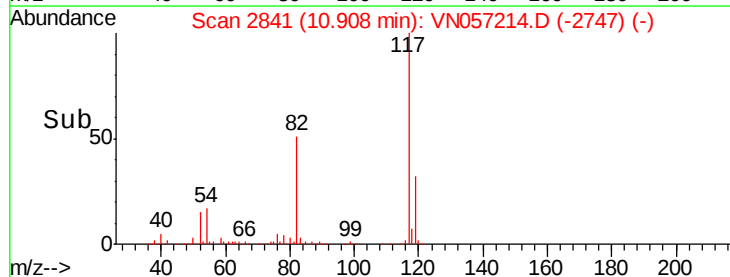
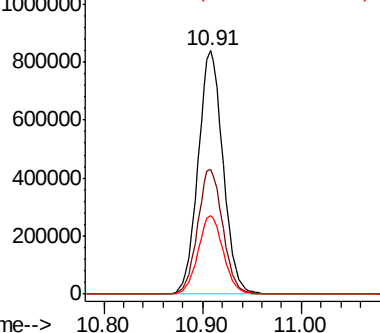
119 32.2 25.7 38.5

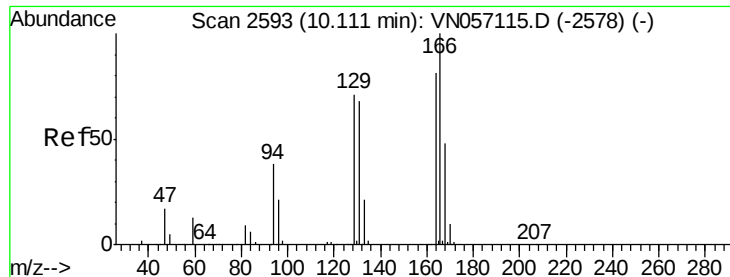


Abundance Ion 116.90 (116.60 to 117.60): VN057214.D (-2747) (-)

Ion 82.00 (81.70 to 82.70): VN057214.D (-2747) (-)

Ion 118.90 (118.60 to 119.60): VN057214.D (-2747) (-)





#64

Tetrachloroethene

Concen: 30.504 ug/l

RT: 10.11 min Scan# 2594

Delta R.T. 0.00 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

MW-19D_080819DL

Tgt Ion:164 Resp: 375829

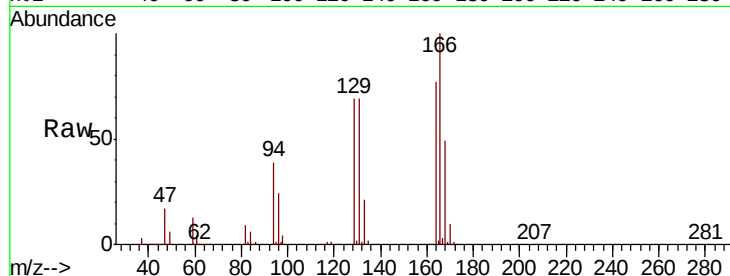
Ion Ratio Lower Upper

164 100

166 129.8 98.3 147.5

129 89.3 69.8 104.6

131 89.1 66.8 100.2

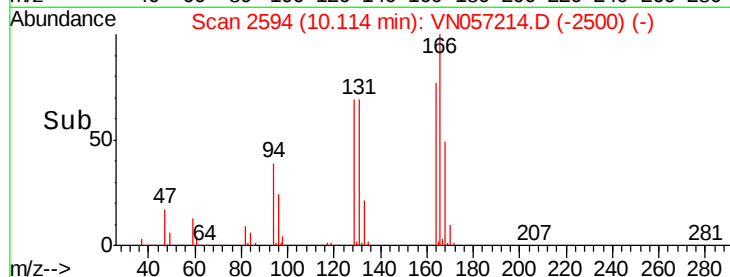


Abundance Ion 163.80 (163.50 to 164.50): V

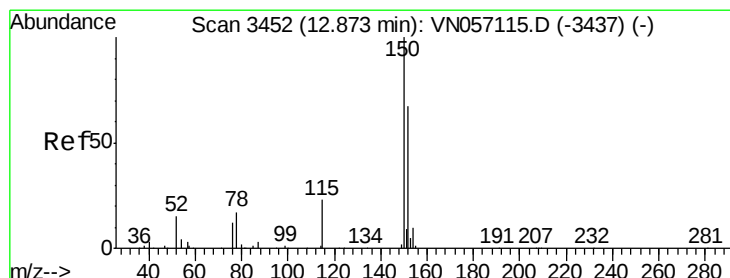
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time--> 10.00 10.10 10.20



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.88 min Scan# 3453

Delta R.T. 0.00 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

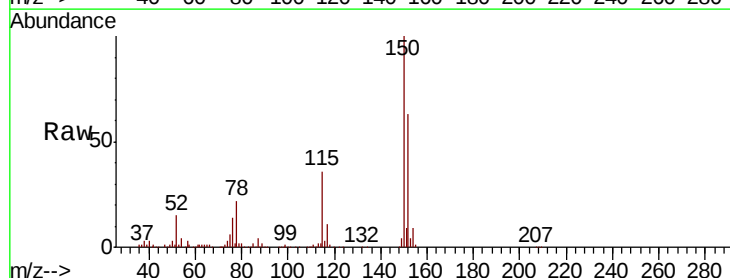
Tgt Ion:152 Resp: 360686

Ion Ratio Lower Upper

152 100

115 55.4 27.5 82.5

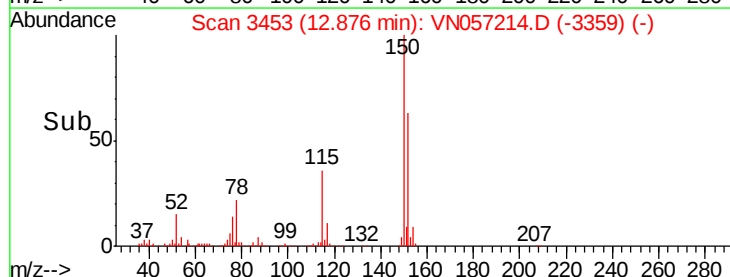
150 160.1 0.0 341.6



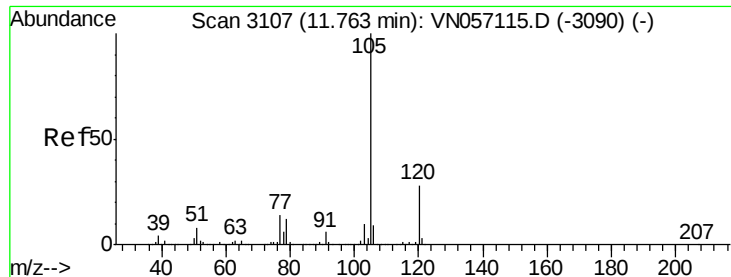
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time--> 12.80 12.85 12.90 12.95



#73

Isopropylbenzene

Concen: Below Cal

RT: 11.76 min Scan# 3106

Delta R.T. -0.00 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

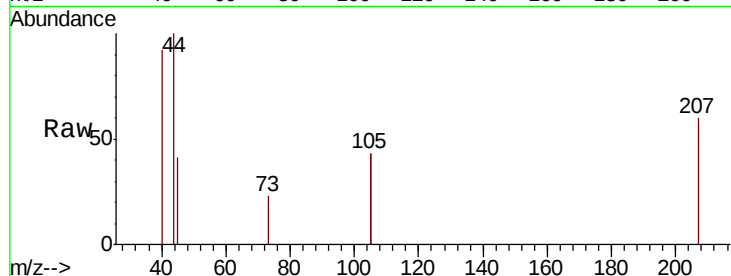
MW-19D_080819DL

Tgt Ion: 105 Resp: 490

Ion Ratio Lower Upper

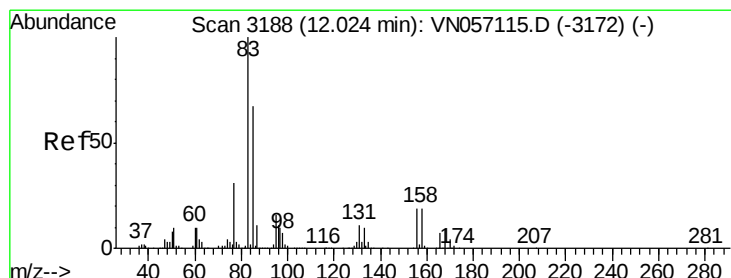
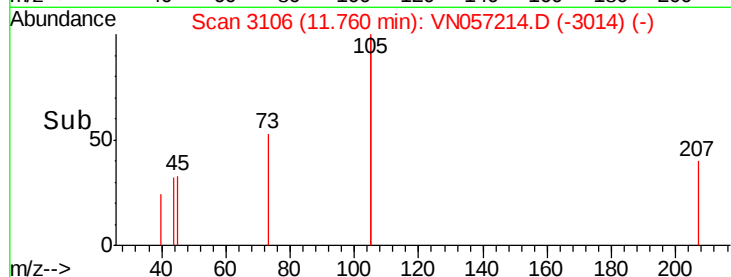
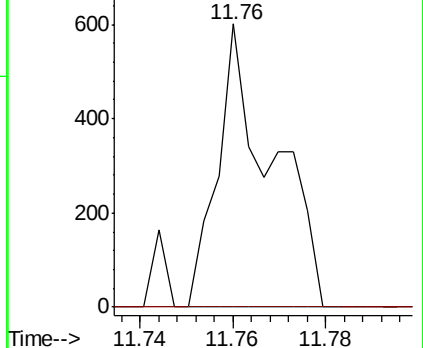
105 100

120 0.0 13.7 41.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.93 min Scan# 3158

Delta R.T. -0.10 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

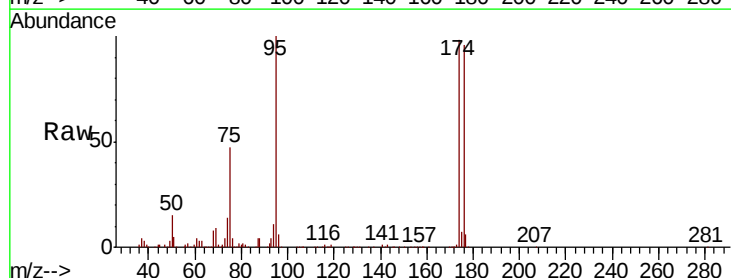
Tgt Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 2100.0 5.5 16.4#

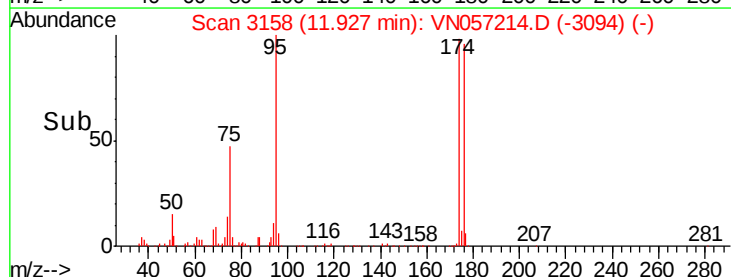
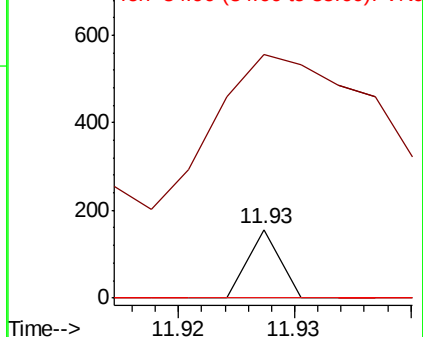
85 0.0 32.4 97.0#

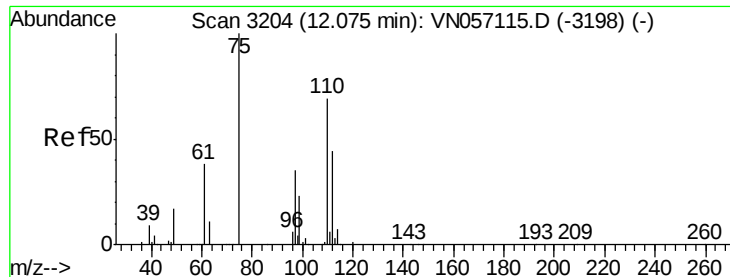


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 34.758 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.15 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

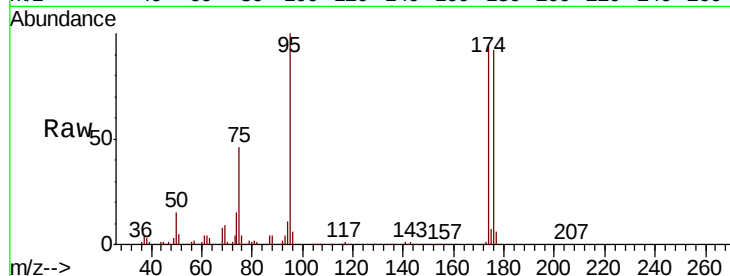
MW-19D_080819DL

Tgt Ion: 75 Resp: 251051

Ion Ratio Lower Upper

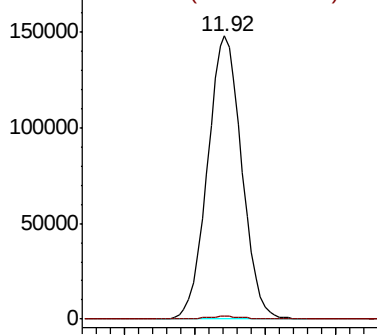
75 100

77 1.1 0.0 0.0#

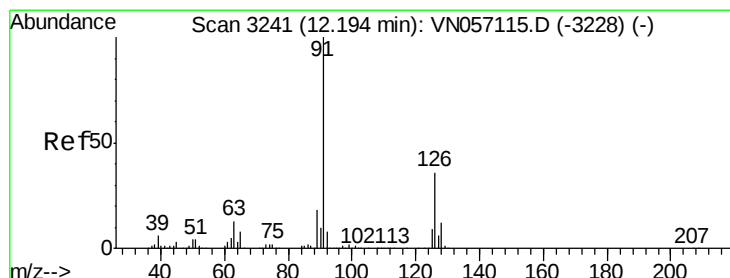
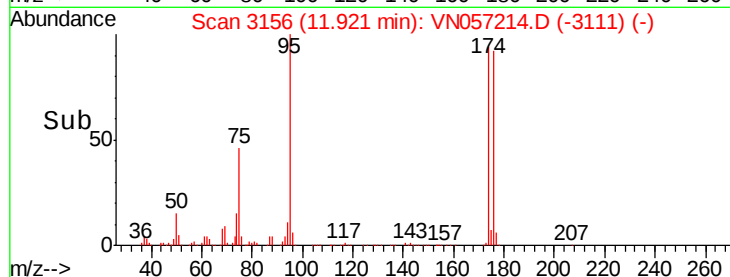


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.20 min Scan# 3243

Delta R.T. 0.01 min

Lab File: VN057214.D

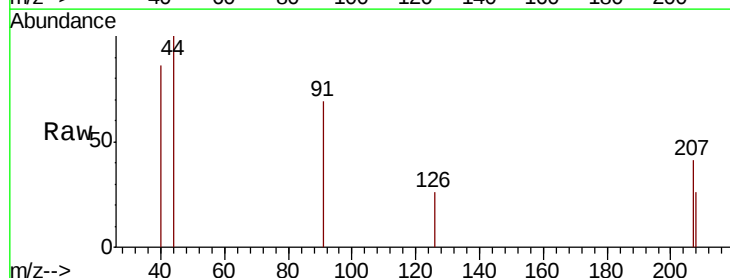
Acq: 12 Aug 2019 14:49

Tgt Ion: 91 Resp: 644

Ion Ratio Lower Upper

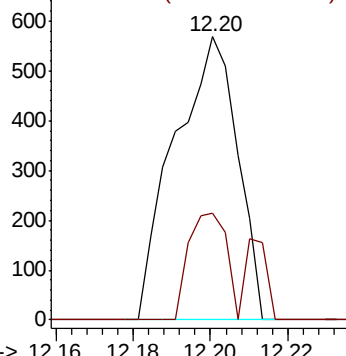
91 100

126 22.7 18.1 54.3

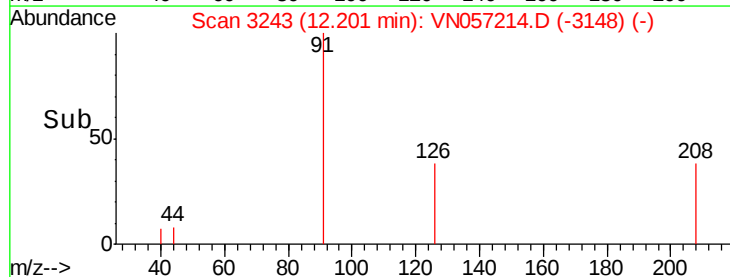


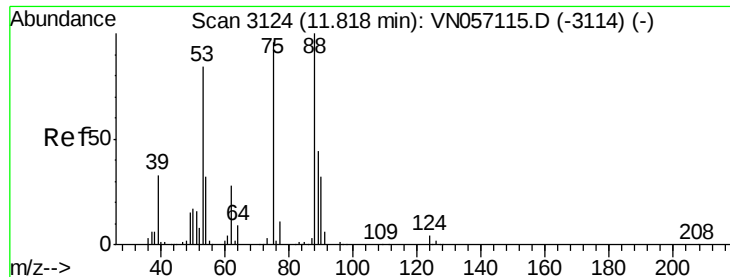
Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 102.342 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.10 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

MW-19D_080819DL

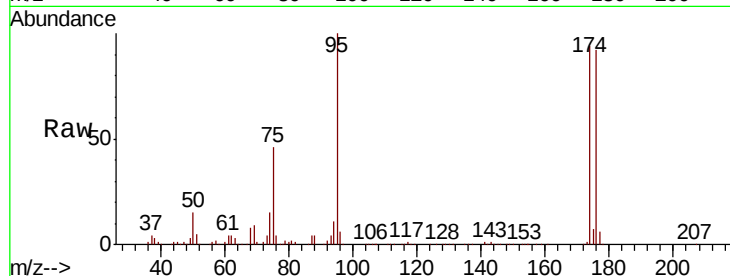
Tgt Ion: 75 Resp: 251051

Ion Ratio Lower Upper

75 100

53 0.0 70.6 106.0#

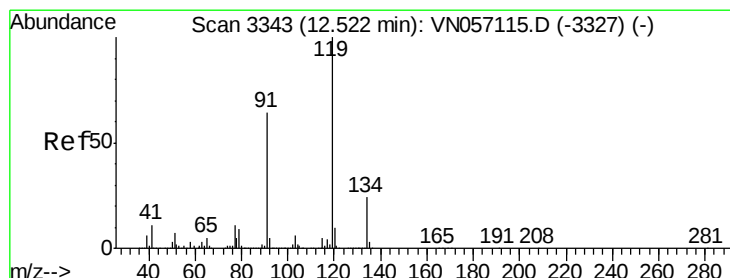
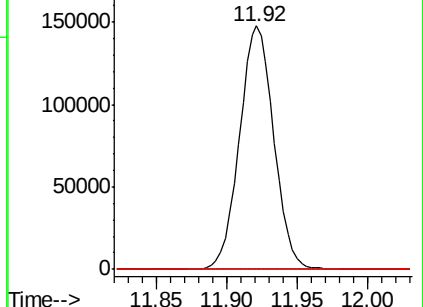
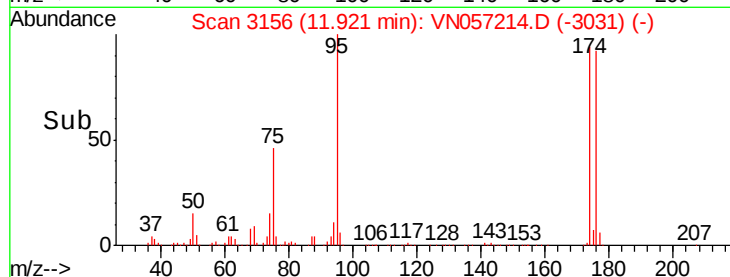
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN057214.D (-3156) (-)

Ion 53.00 (52.70 to 53.70): VN057214.D (-3156) (-)

Ion 88.90 (88.60 to 89.60): VN057214.D (-3156) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

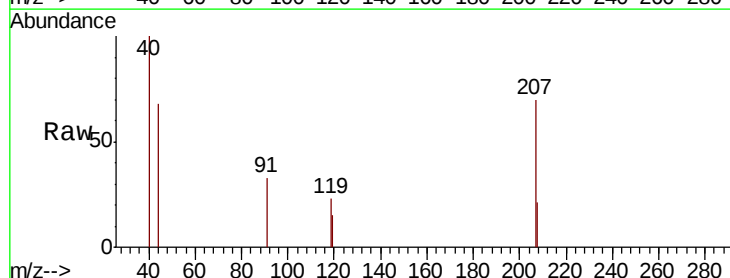
Tgt Ion: 119 Resp: 324

Ion Ratio Lower Upper

119 100

91 100.9 31.4 94.2#

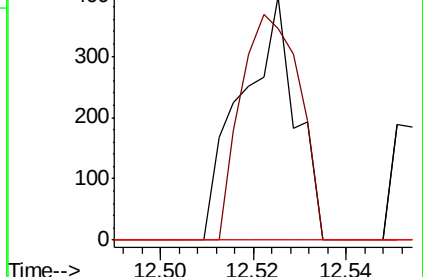
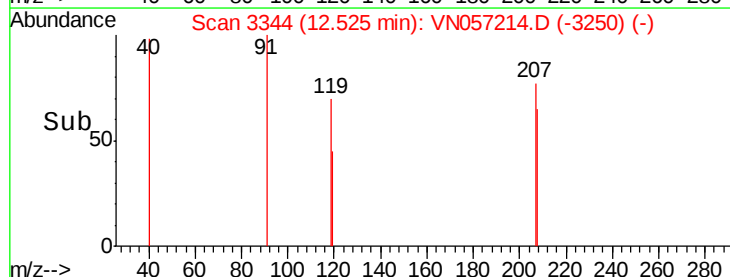
134 0.0 13.2 39.6#

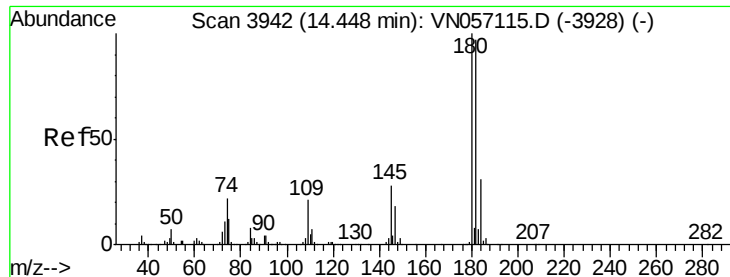


Abundance Ion 119.00 (118.70 to 119.70): VN057214.D (-3344) (-)

Ion 91.00 (90.70 to 91.70): VN057214.D (-3344) (-)

Ion 134.00 (133.70 to 134.70): VN057214.D (-3344) (-)

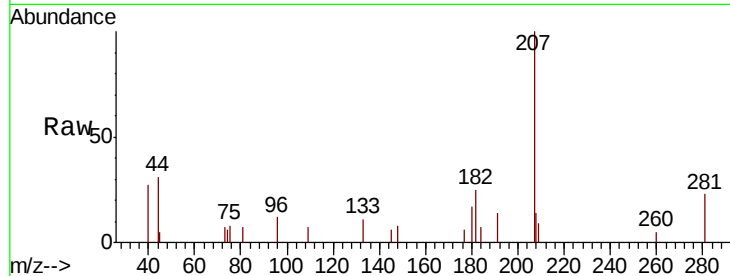




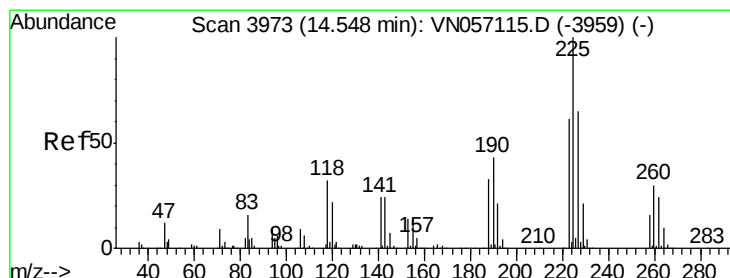
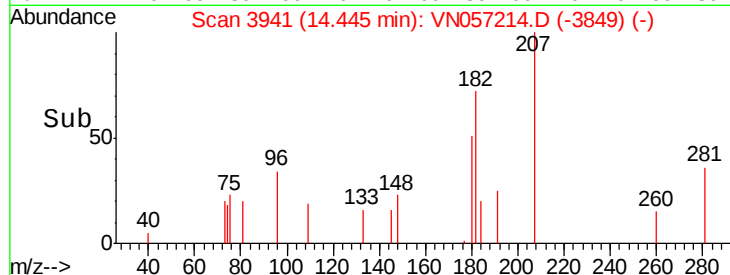
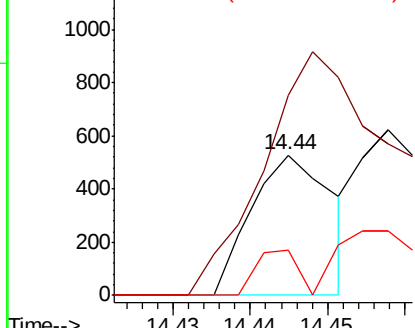
#93
 1,2,4-Trichlorobenzene
 Concen: 5.995 ug/l
 RT: 14.44 min Scan# 3941
 Delta R.T. -0.00 min
 Lab File: VN057214.D
 Acq: 12 Aug 2019 14:49

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-19D_080819DL

Tgt Ion:180 Resp: 383
 Ion Ratio Lower Upper
 180 100
 182 322.7 47.5 142.6#
 145 16.7 14.1 42.2

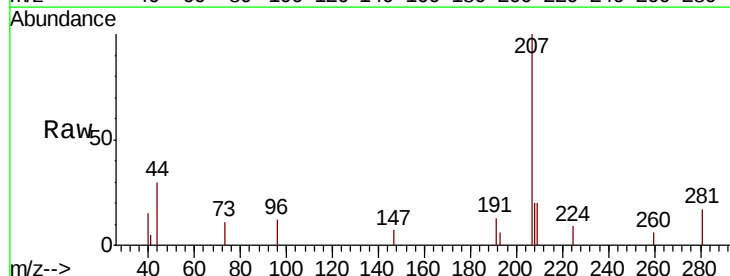


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

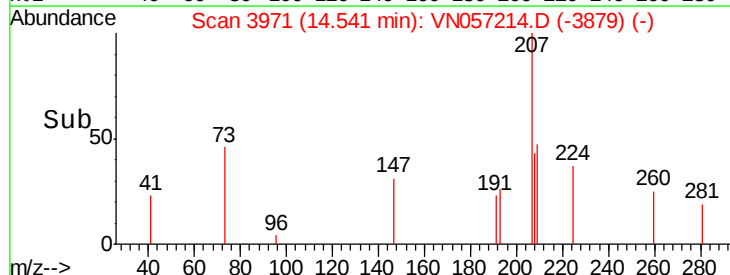
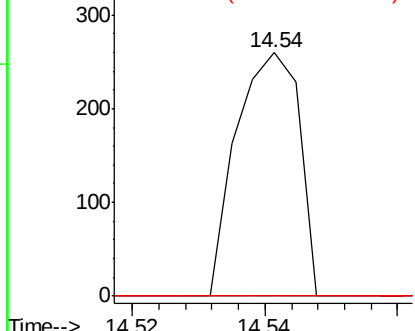


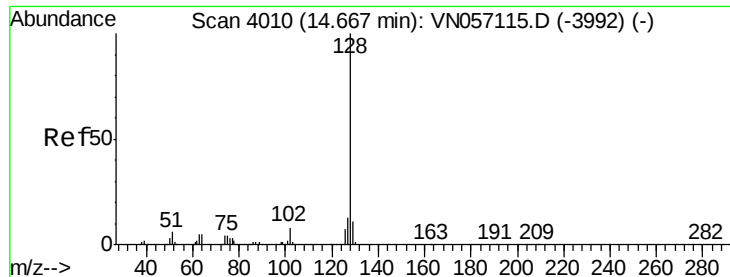
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 14.54 min Scan# 3971
 Delta R.T. -0.01 min
 Lab File: VN057214.D
 Acq: 12 Aug 2019 14:49

Tgt Ion:225 Resp: 170
 Ion Ratio Lower Upper
 225 100
 223 0.0 30.9 92.8#
 227 0.0 32.4 97.0#



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: 2.968 ug/l

RT: 14.67 min Scan# 4012

Delta R.T. 0.01 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

Instrument :

MSVOA_N

ClientSampleId :

MW-19D_080819DL

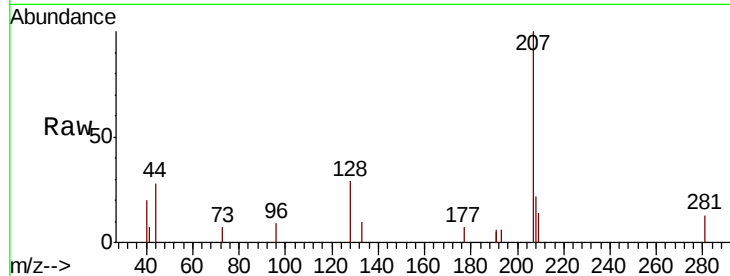
Tgt Ion:128 Resp: 1537

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

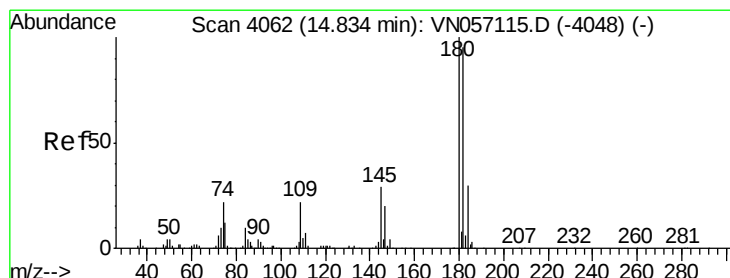
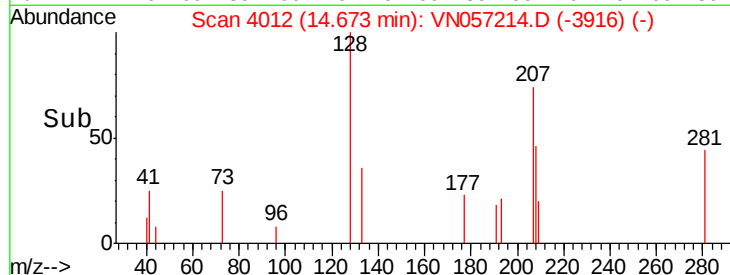
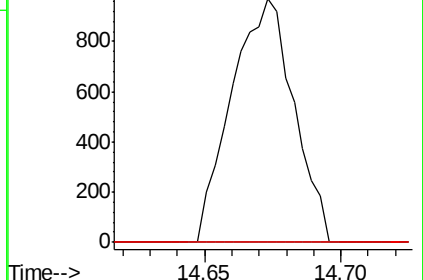
129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 5.963 ug/l

RT: 14.84 min Scan# 4064

Delta R.T. 0.01 min

Lab File: VN057214.D

Acq: 12 Aug 2019 14:49

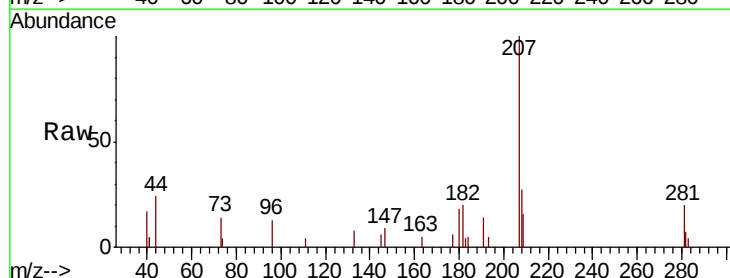
Tgt Ion:180 Resp: 1474

Ion Ratio Lower Upper

180 100

182 56.4 48.3 144.8

145 22.3 14.9 44.5



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

