

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056164.D
 Acq On : 10 Jun 2019 12:52
 Operator : JC/SP
 Sample : K3255-08 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D2-20190604

Quant Time: Jun 11 02:18:52 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	302599	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	464688	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	453227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	151839	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	163193	54.32	ug/l	0.00
Spiked Amount 50.000			Recovery =	108.64%		
35) Dibromofluoromethane	7.59	113	148196	51.98	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.96%		
50) Toluene-d8	10.09	98	598019	54.51	ug/l	0.00
Spiked Amount 50.000			Recovery =	109.02%		
62) 4-Bromofluorobenzene	12.40	95	196333	52.62	ug/l	0.00
Spiked Amount 50.000			Recovery =	105.24%		

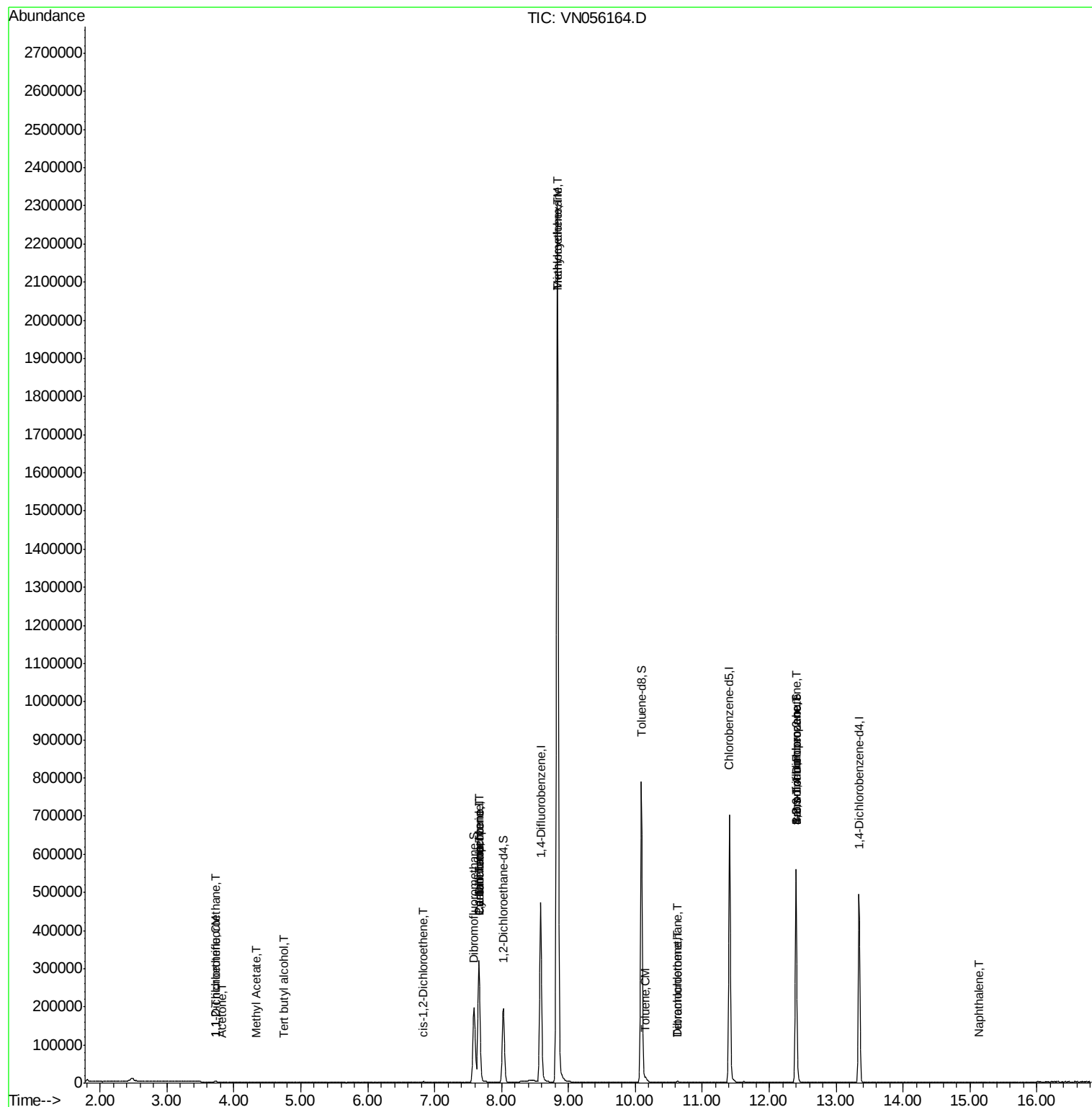
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.73	101	931	0.365	ug/l #	27
11) Tert butyl alcohol	4.73	59	752	1.438	ug/l #	74
12) 1,1-Dichloroethene	3.72	96	1333	0.525	ug/l #	74
16) Acetone	3.82	43	1706	1.187	ug/l #	81
18) Methyl Acetate	4.33	43	2914	0.460	ug/l #	84
27) cis-1,2-Dichloroethene	6.83	96	1148	0.359	ug/l	43
31) Cyclohexane	7.67	56	4370	0.917	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17986	4.501	ug/l #	47
38) Carbon Tetrachloride	7.66	117	24276	6.590	ug/l #	14
39) Methylcyclohexane	8.83	83	9931	1.995	ug/l #	1
44) Trichloroethene	8.83	130	949985	272.422	ug/l	100
52) Toluene	10.15	92	3799	0.503	ug/l	98
60) Dibromochloromethane	10.63	129	770	2.674	ug/l #	11
64) Tetrachloroethene	10.63	164	842	0.215	ug/l	94
71) Bromoform	12.40	173	1193	3.173	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	89269	31.951	ug/l #	100
79) 2-Chlorotoluene	12.59	91	97	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	89269	106.404	ug/l #	15
95) Naphthalene	15.14	128	114	3.866	ug/l #	69

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

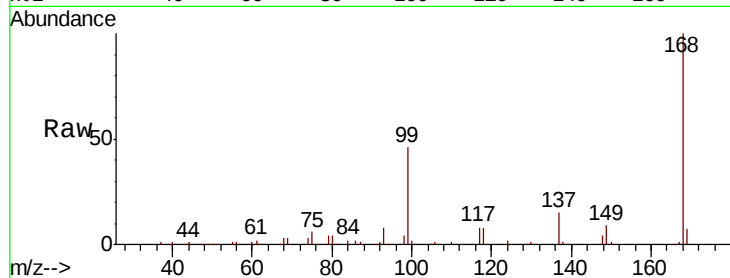
RE108D2-20190604

Tot Ion:168 Resp: 302599

Ion Ratio Lower Upper

168 100

99 45.9 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.66

150000

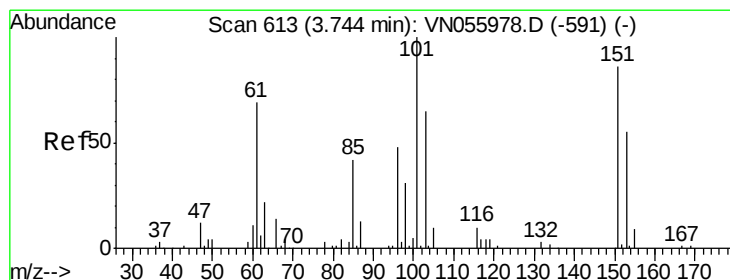
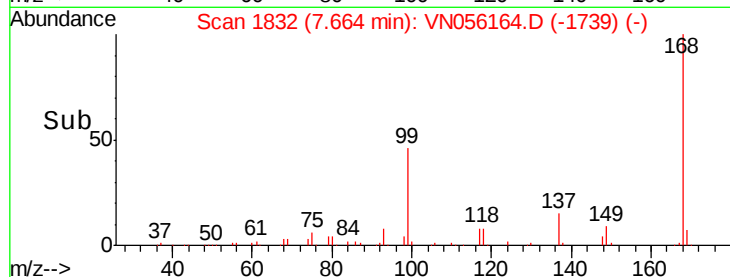
100000

50000

0

Time-->

7.60 7.70 7.80



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.365 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.01 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

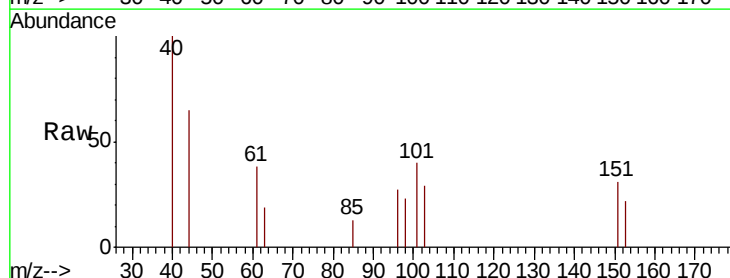
Tgt Ion:101 Resp: 931

Ion Ratio Lower Upper

101 100

85 22.8 33.4 50.2#

151 0.0 69.4 104.2#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V

3.73

600

500

400

300

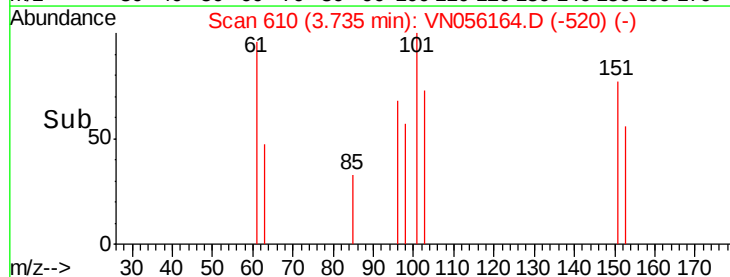
200

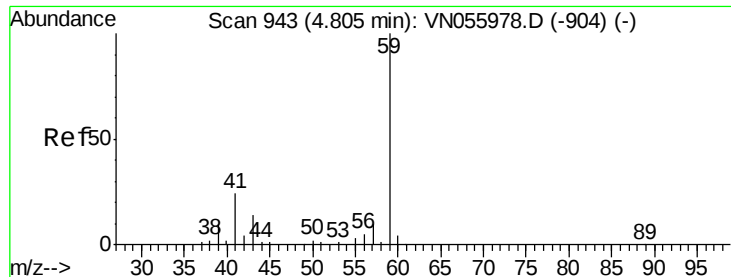
100

0

Time-->

3.68 3.70 3.72 3.74 3.76



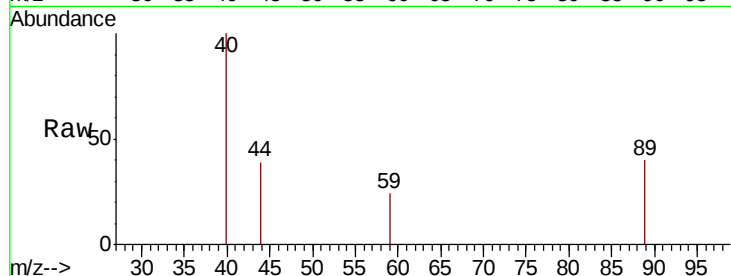


#11

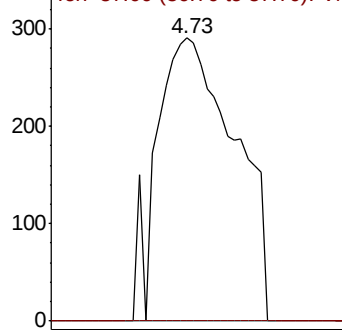
Tert butyl alcohol
Concen: 1.438 ug/l
RT: 4.73 min Scan# 920
Delta R.T. -0.07 min
Lab File: VN056164.D
Acq: 10 Jun 2019 12:52

Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20190604

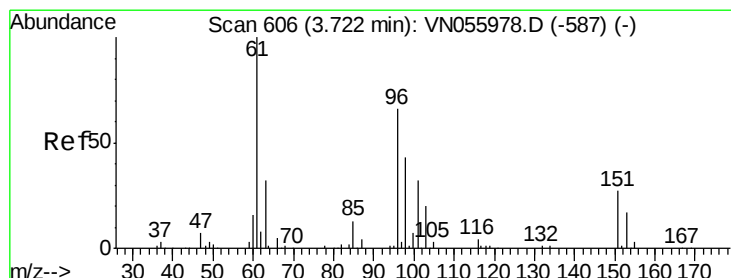
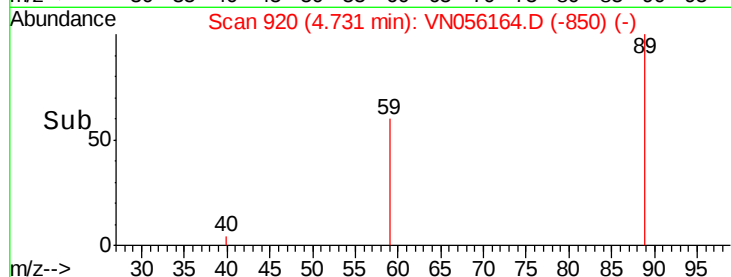
Tot Ion: 59 Resp: 752
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0
Ion 57.00 (56.70 to 57.70): VN0



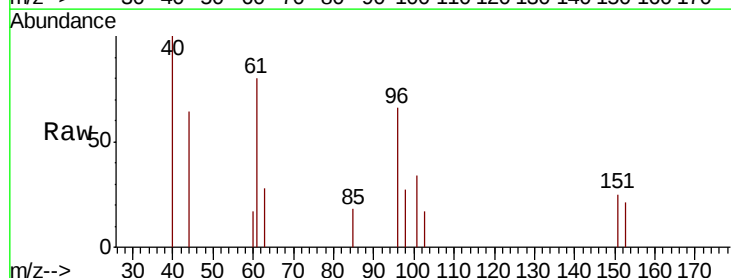
Time-->



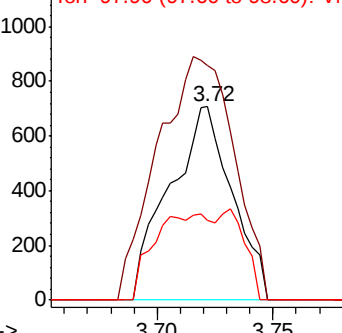
#12

1,1-Dichloroethene
Concen: 0.525 ug/l
RT: 3.72 min Scan# 606
Delta R.T. 0.00 min
Lab File: VN056164.D
Acq: 10 Jun 2019 12:52

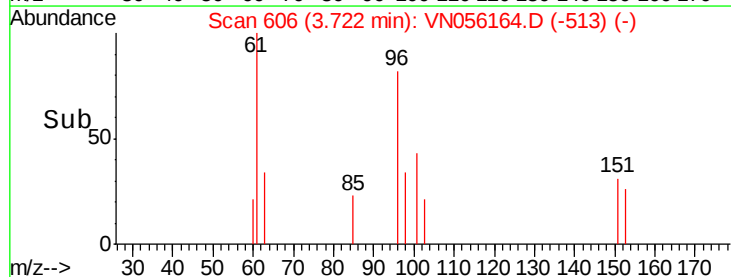
Tgt Ion: 96 Resp: 1333
Ion Ratio Lower Upper
96 100
61 121.5 123.2 184.8#
98 41.2 50.4 75.6#



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



Time-->





#16

Acetone

Concen: 1.187 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

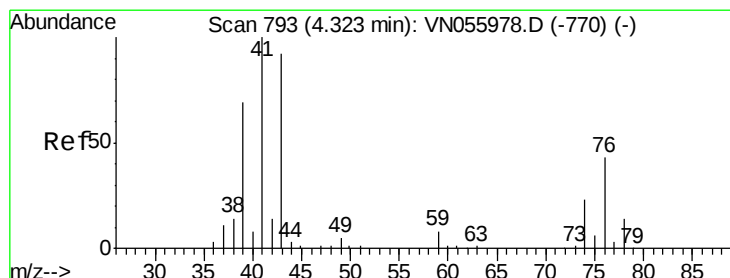
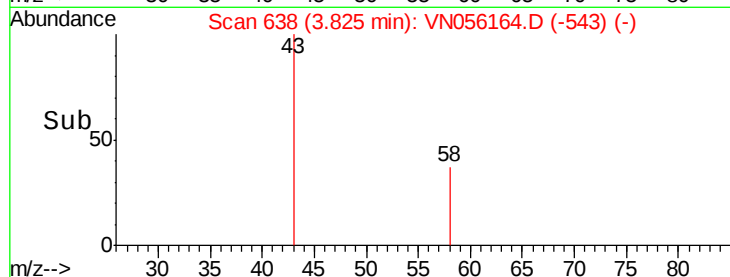
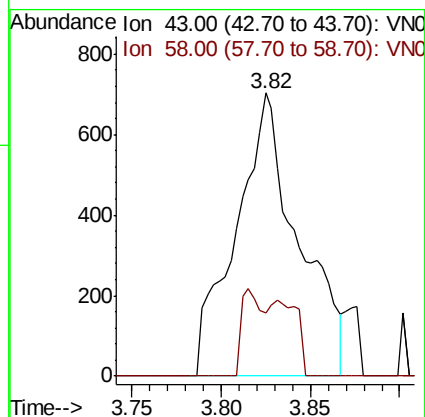
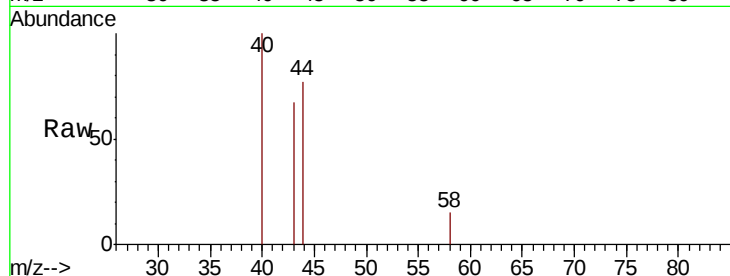
RE108D2-20190604

Tot Ion: 43 Resp: 1706

Ion Ratio Lower Upper

43 100

58 22.3 26.6 39.8#



#18

Methyl Acetate

Concen: 0.460 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN056164.D

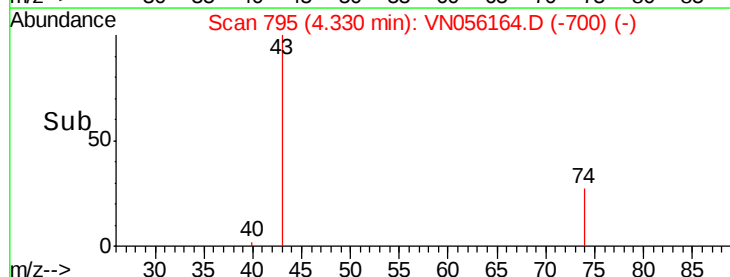
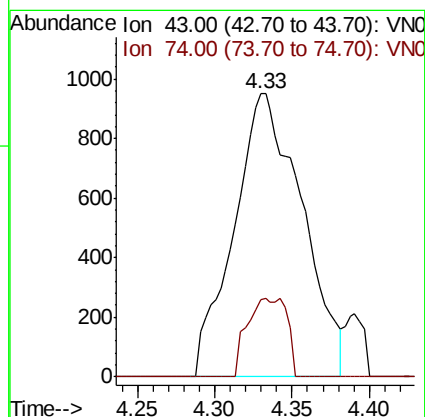
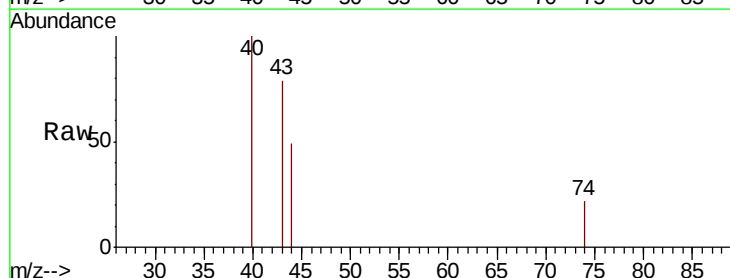
Acq: 10 Jun 2019 12:52

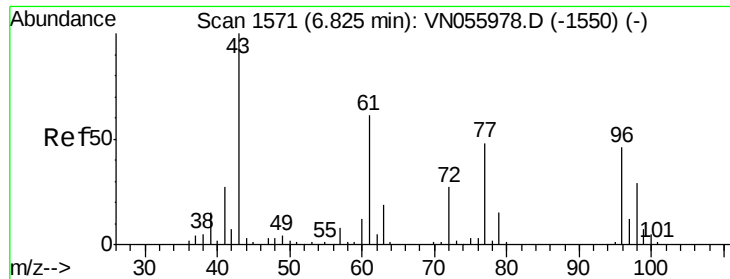
Tgt Ion: 43 Resp: 2914

Ion Ratio Lower Upper

43 100

74 16.0 19.3 28.9#





#27

cis-1,2-Dichloroethene

Concen: 0.359 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20190604

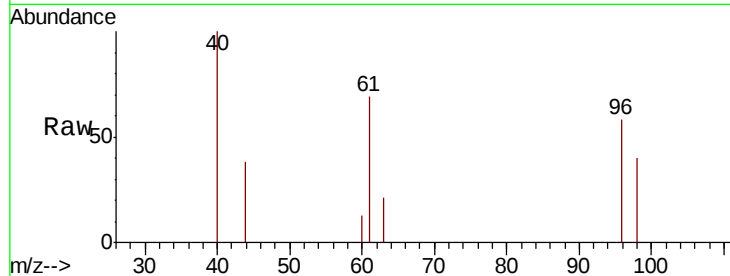
Tot Ion: 96 Resp: 1148

Ion Ratio Lower Upper

96 100

61 213.8 0.0 275.8

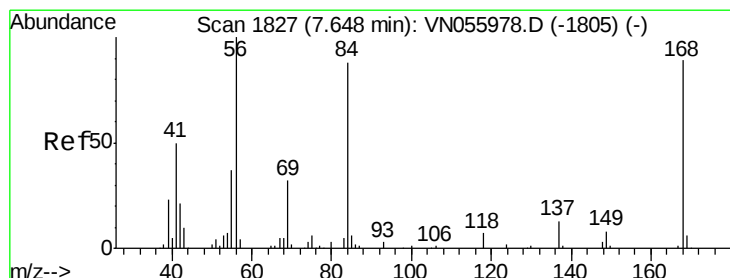
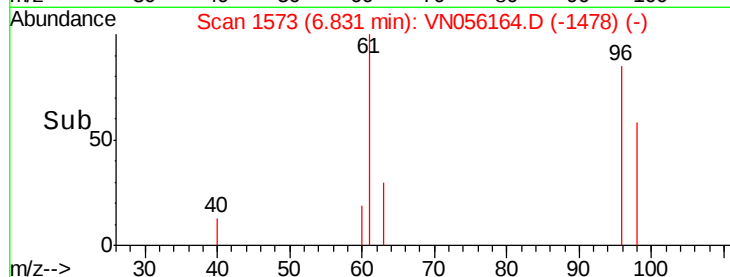
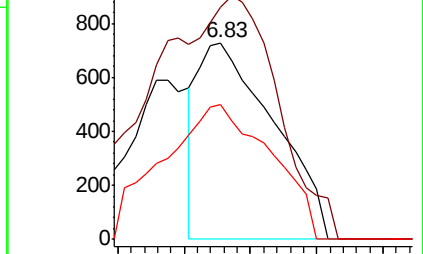
98 99.2 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN055978.D (-1550) (-)

Ion 60.90 (60.60 to 61.60): VN055978.D (-1550) (-)

Ion 97.90 (97.60 to 98.60): VN055978.D (-1550) (-)



#31

Cyclohexane

Concen: 0.917 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

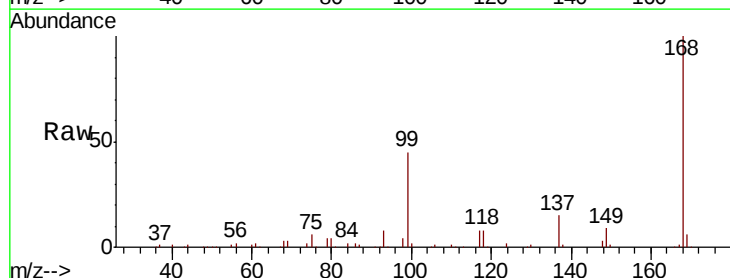
Tgt Ion: 56 Resp: 4370

Ion Ratio Lower Upper

56 100

69 178.7 25.6 38.4#

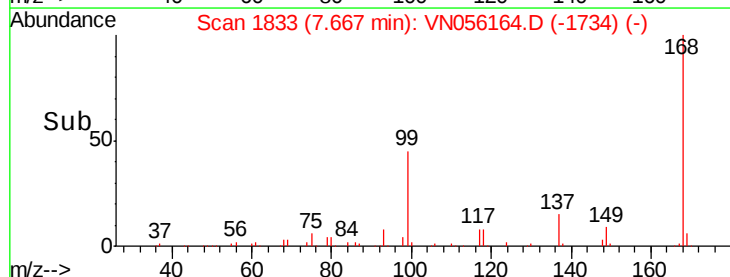
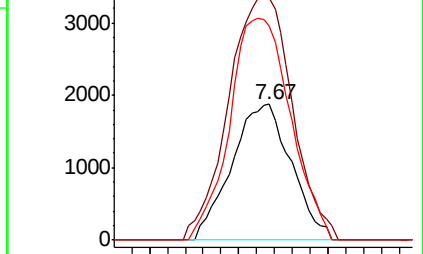
84 157.9 67.4 101.0#

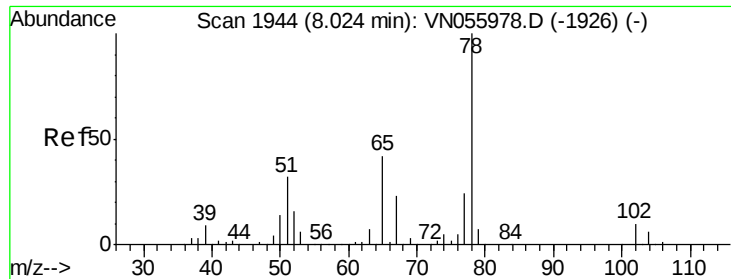


Abundance Ion 56.00 (55.70 to 56.70): VN055978.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN055978.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN055978.D (-1805) (-)

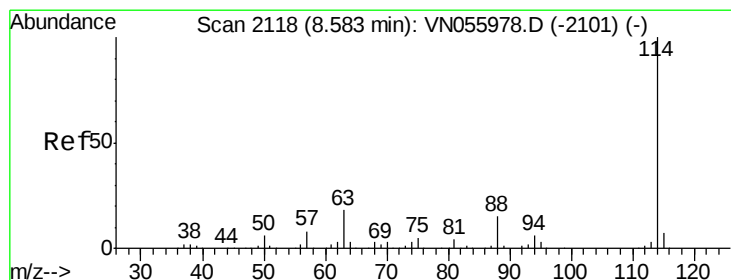
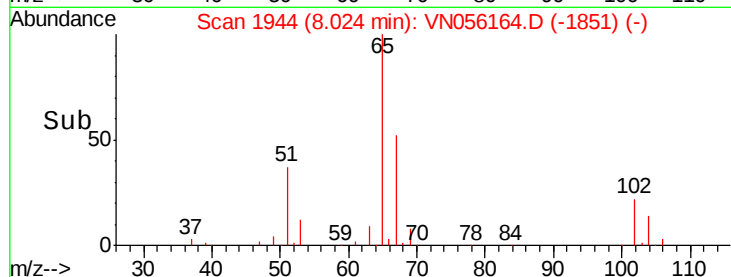
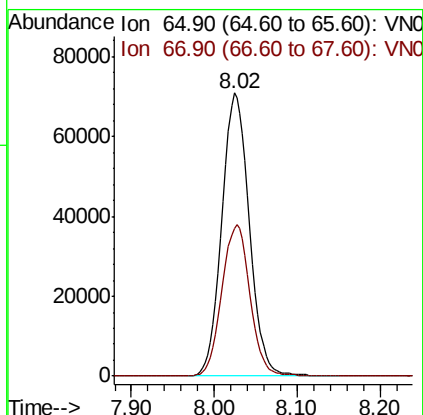
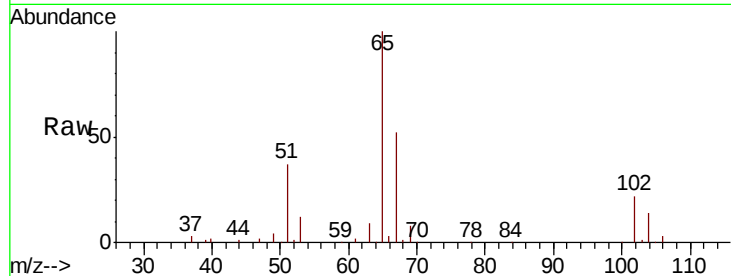




#33
 1,2-Dichloroethane-d4
 Concen: 54.315 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN056164.D
 Acq: 10 Jun 2019 12:52

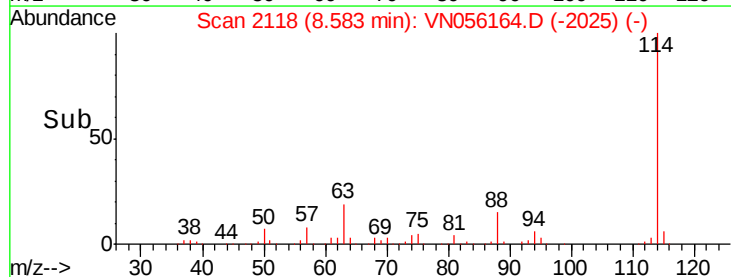
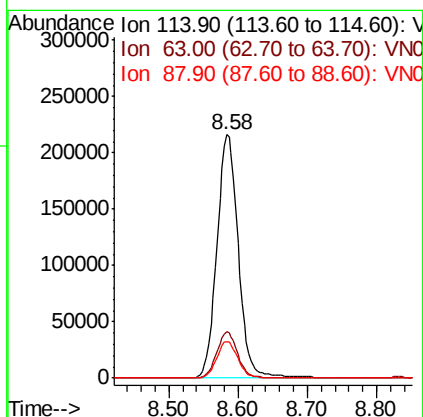
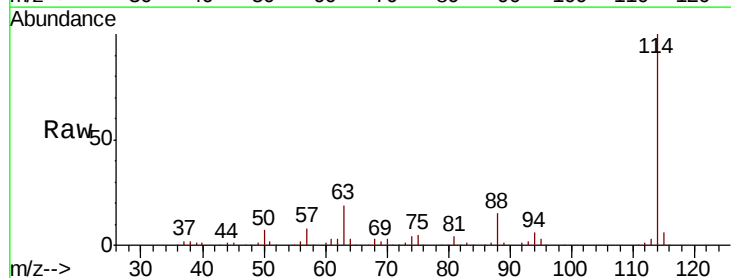
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 RE108D2-20190604

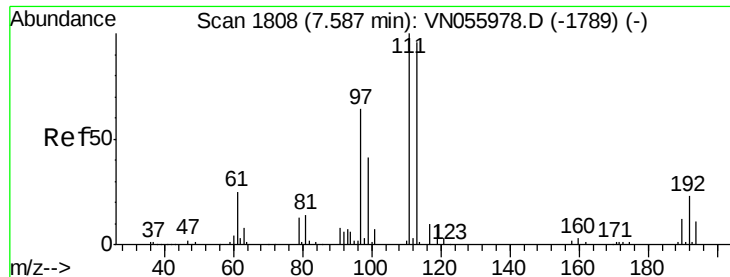
Tot Ion: 65 Resp: 163193
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056164.D
 Acq: 10 Jun 2019 12:52

Tgt Ion: 114 Resp: 464688
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 15.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 51.980 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20190604

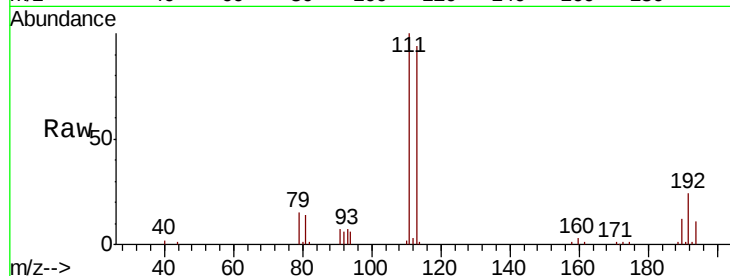
Tot Ion:113 Resp: 148196

Ion Ratio Lower Upper

113 100

111 104.7 81.9 122.9

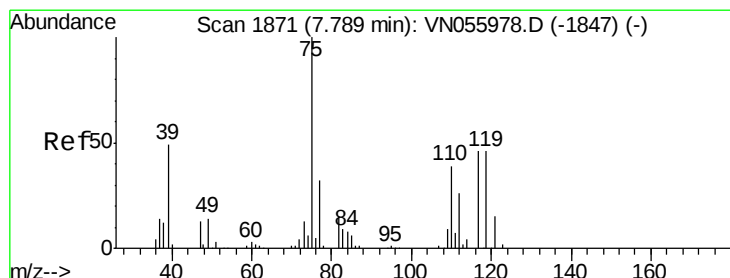
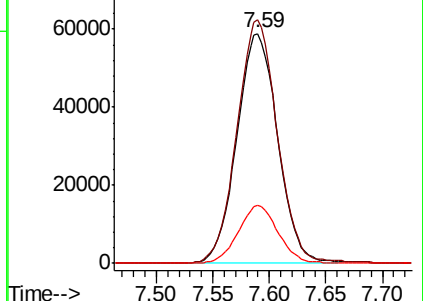
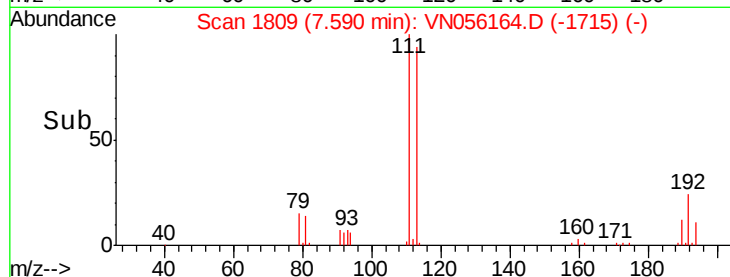
192 24.4 19.5 29.3



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: 4.501 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

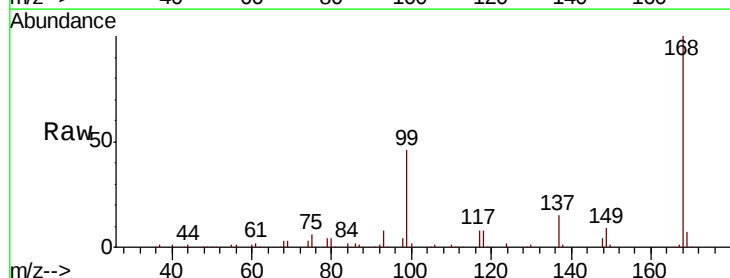
Tgt Ion: 75 Resp: 17986

Ion Ratio Lower Upper

75 100

110 8.3 19.0 57.0#

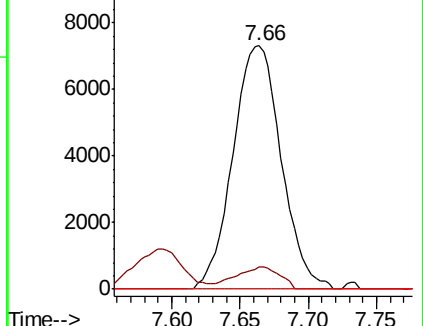
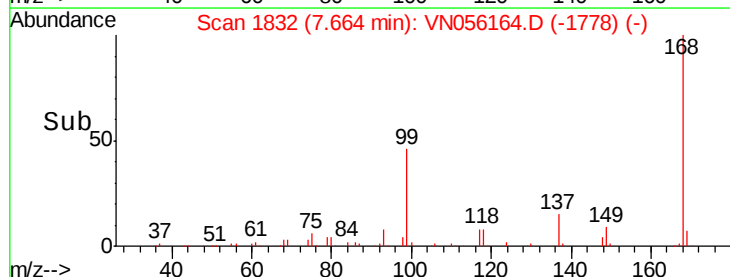
77 0.0 25.1 37.7#

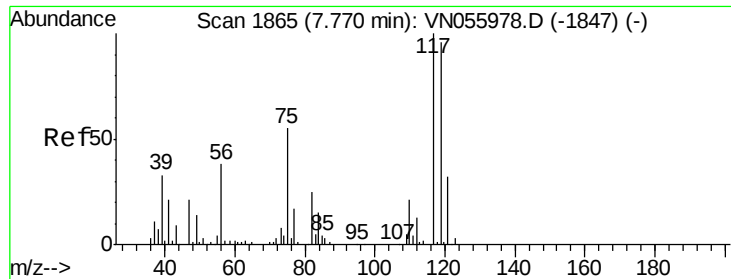


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO

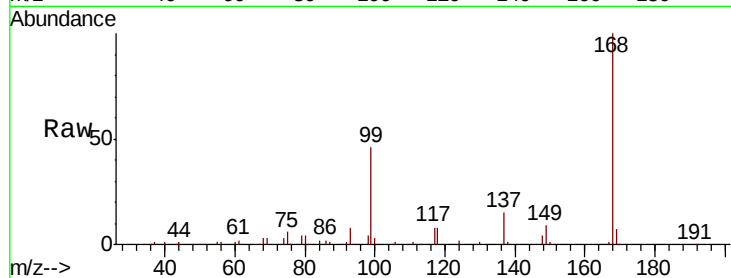




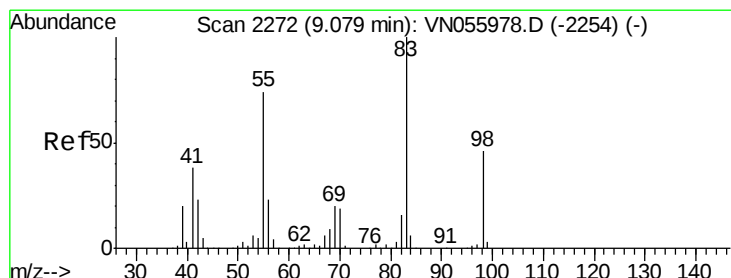
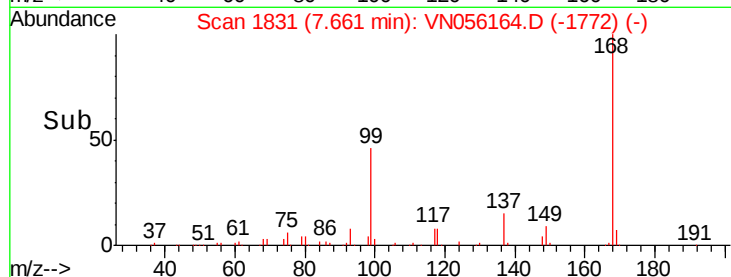
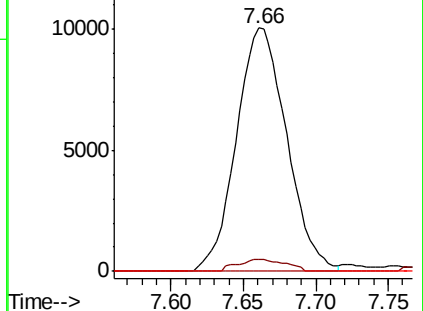
#38
Carbon Tetrachloride
Concen: 6.590 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN056164.D
Acq: 10 Jun 2019 12:52

Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20190604

Tot Ion:117 Resp: 24276
Ion Ratio Lower Upper
117 100
119 4.7 79.0 118.6#
121 0.0 24.7 37.1#

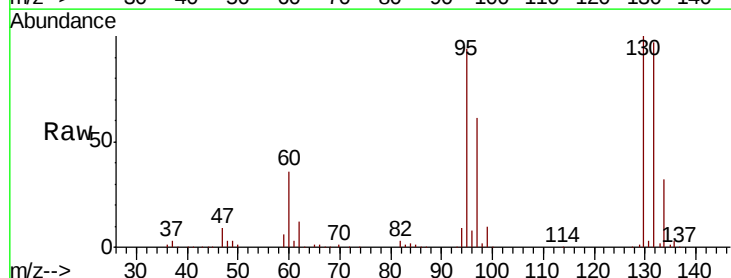


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

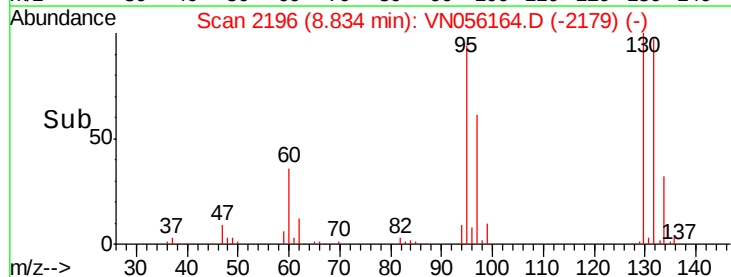
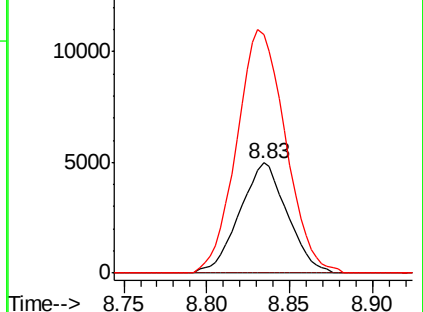


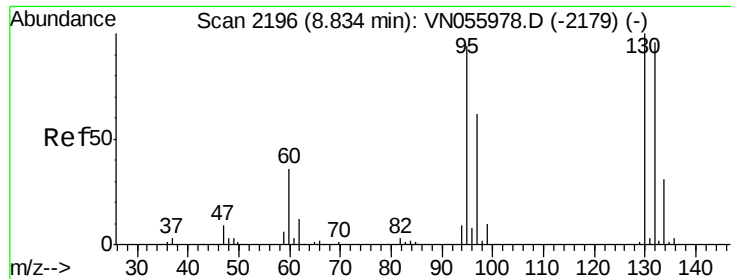
#39
Methylcyclohexane
Concen: 1.995 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VN056164.D
Acq: 10 Jun 2019 12:52

Tgt Ion: 83 Resp: 9931
Ion Ratio Lower Upper
83 100
55 0.0 59.3 88.9#
98 216.4 36.6 54.8#



Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 98.00 (97.70 to 98.70): VNO

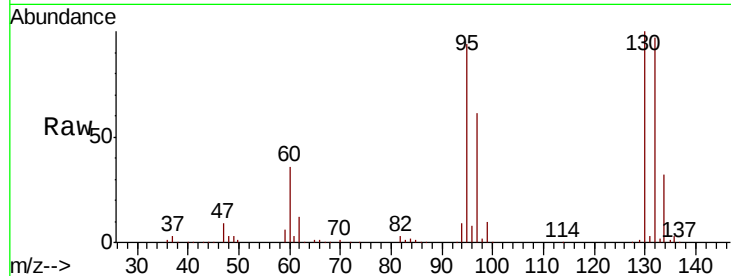




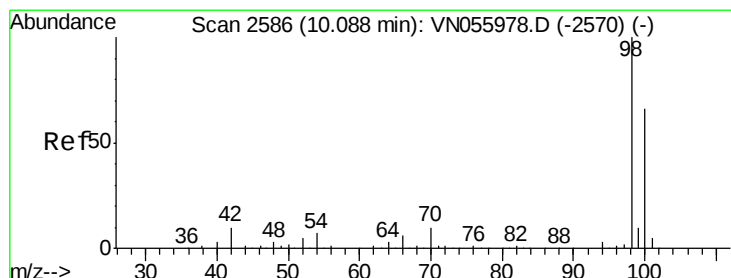
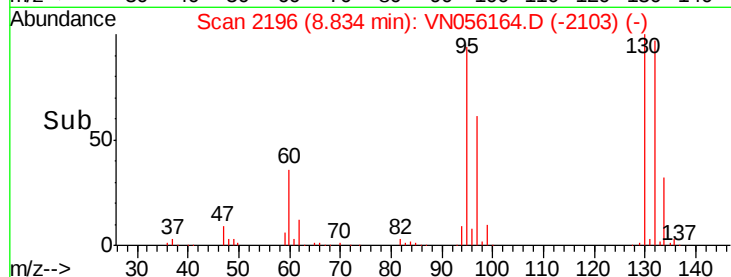
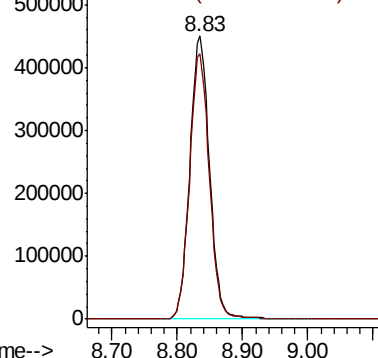
#44
 Trichloroethene
 Concen: 272.422 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN056164.D
 Acq: 10 Jun 2019 12:52

Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D2-20190604

Tot Ion:130 Resp: 949985
 Ion Ratio Lower Upper
 130 100
 95 93.7 0.0 188.0

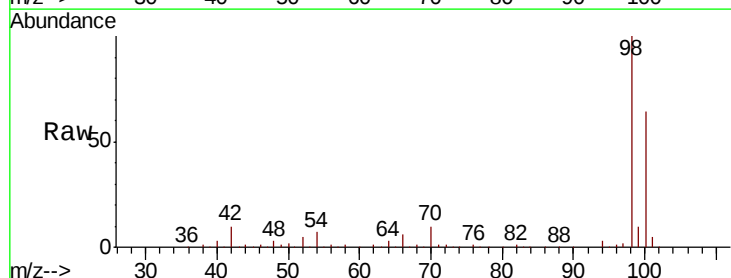


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN

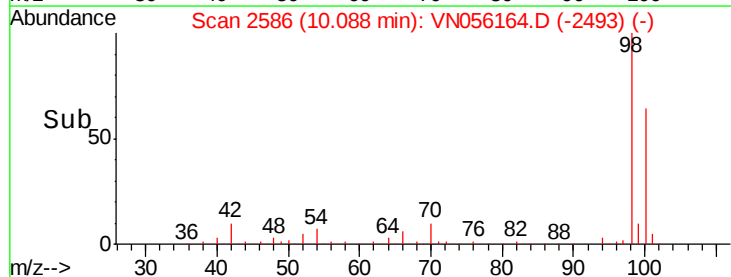
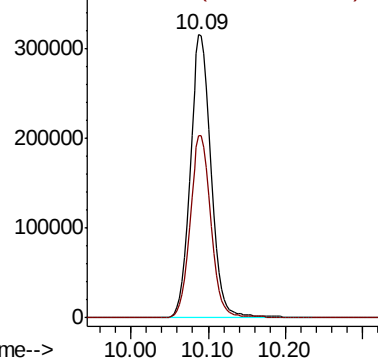


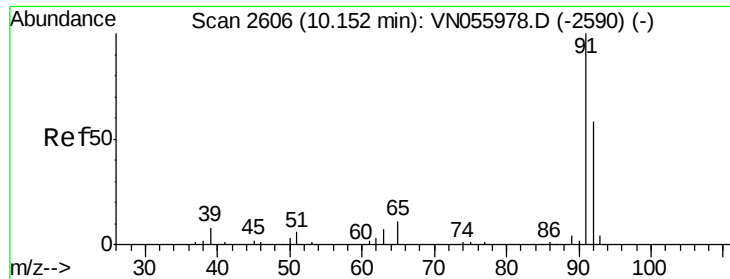
#50
 Toluene-d8
 Concen: 54.510 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: VN056164.D
 Acq: 10 Jun 2019 12:52

Tgt Ion: 98 Resp: 598019
 Ion Ratio Lower Upper
 98 100
 100 64.5 51.9 77.9



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





#52

Toluene

Concen: 0.503 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

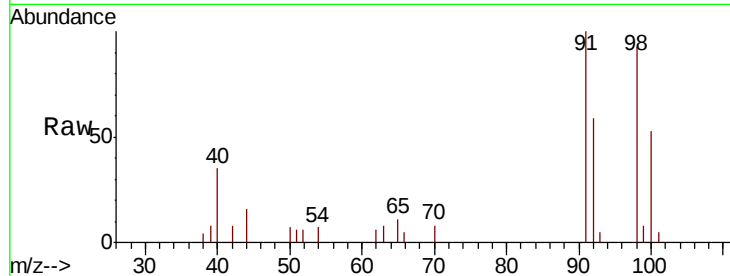
RE108D2-20190604

Tot Ion: 92 Resp: 3799

Ion Ratio Lower Upper

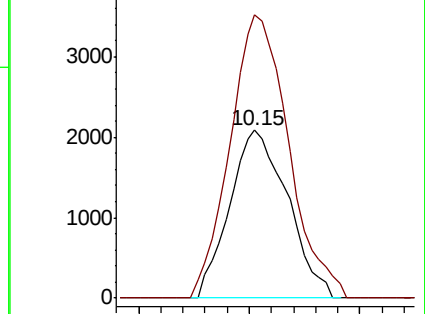
92 100

91 171.2 139.4 209.2

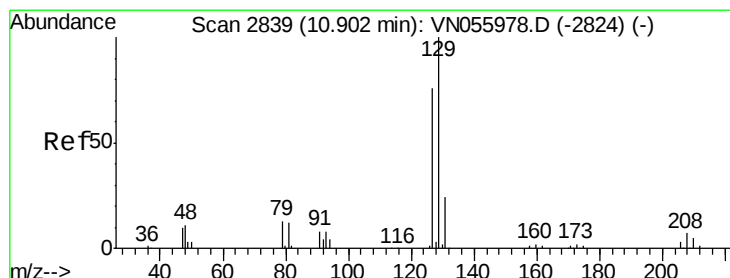
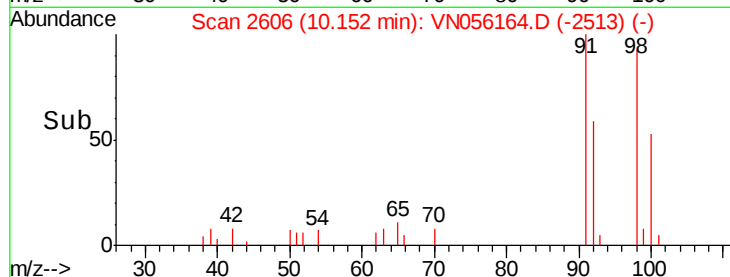


Abundance Ion 92.00 (91.70 to 92.70): VN055978.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN055978.D (-2590) (-)



Time-->



#60

Dibromochloromethane

Concen: 2.674 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN056164.D

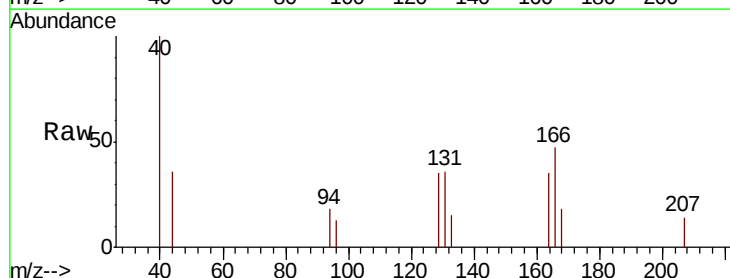
Acq: 10 Jun 2019 12:52

Tgt Ion: 129 Resp: 770

Ion Ratio Lower Upper

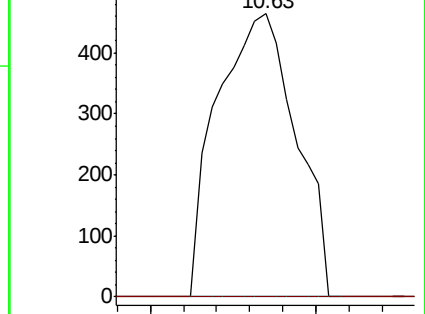
129 100

127 0.0 38.1 114.3#

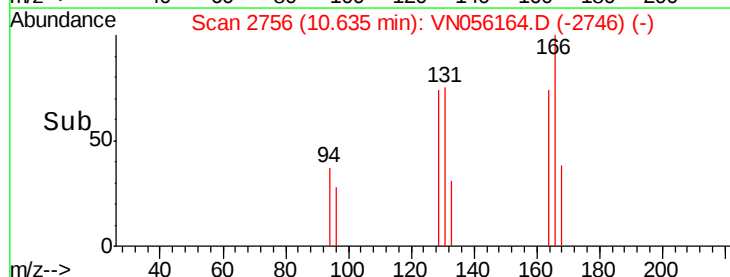


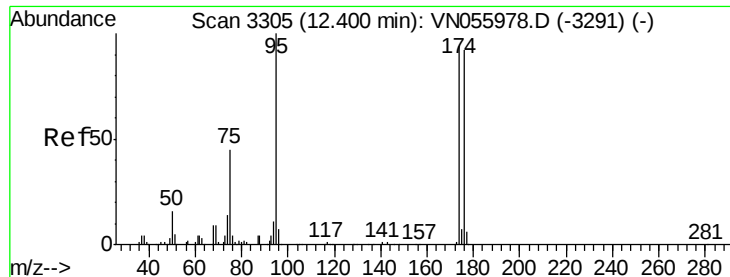
Abundance Ion 128.80 (128.50 to 129.50): VN055978.D (-2824) (-)

Ion 126.80 (126.50 to 127.50): VN055978.D (-2824) (-)



Time-->





#62

4-Bromofluorobenzene

Concen: 52.624 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20190604

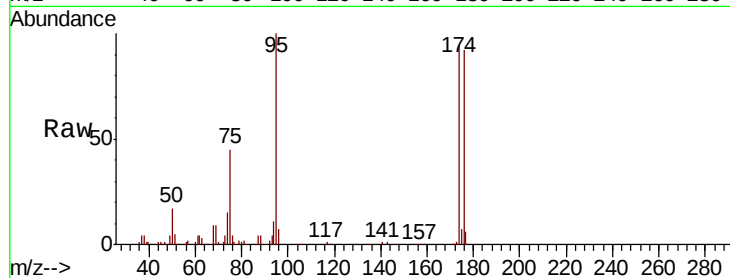
Tot Ion: 95 Resp: 196333

Ion Ratio Lower Upper

95 100

174 96.2 0.0 191.0

176 93.7 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

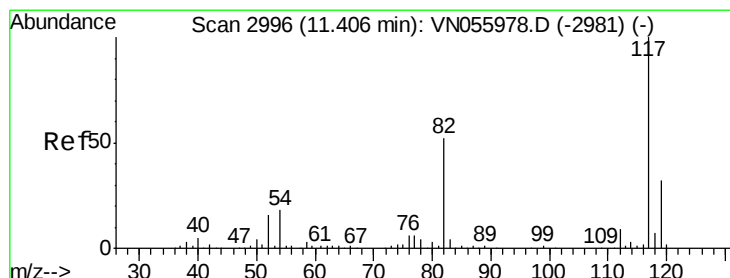
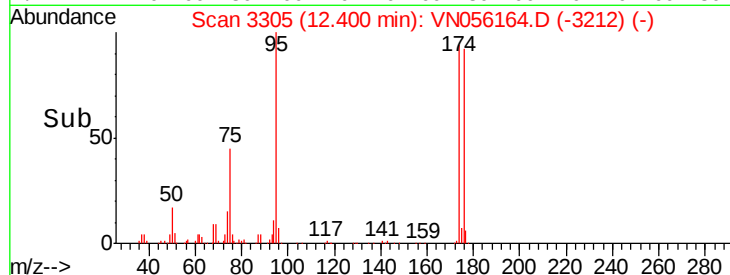
12.40

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: VN056164.D

Acq: 10 Jun 2019 12:52

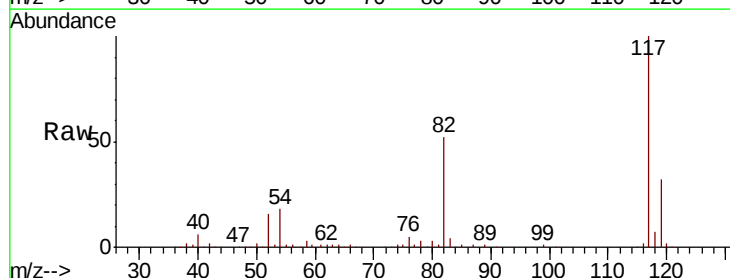
Tgt Ion: 117 Resp: 453227

Ion Ratio Lower Upper

117 100

82 52.0 41.8 62.8

119 32.4 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)

11.41

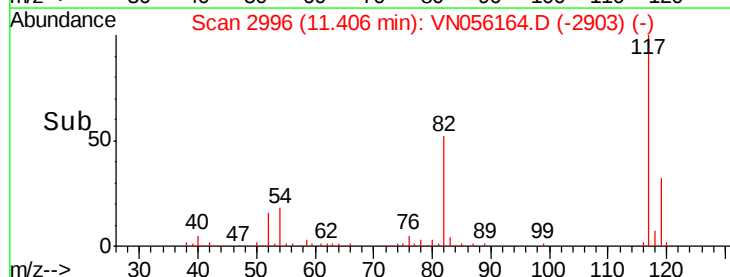
300000

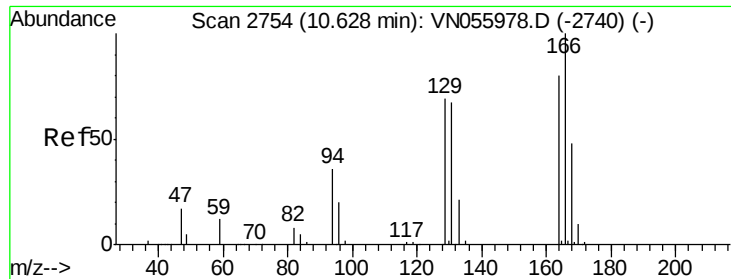
200000

100000

0

Time--> 11.30 11.40 11.50





#64

Tetrachloroethene

Concen: 0.215 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20190604

Tot Ion:164 Resp: 842

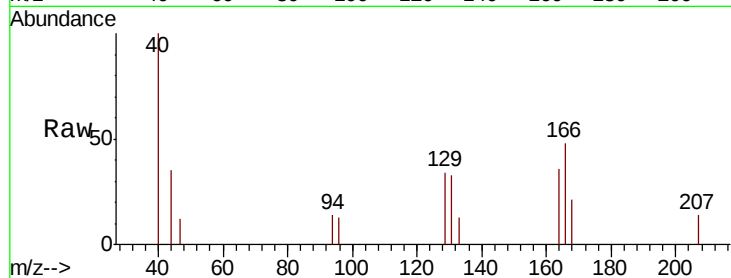
Ion Ratio Lower Upper

164 100

166 133.4 103.0 154.6

129 96.2 70.6 105.8

131 92.6 68.6 102.8



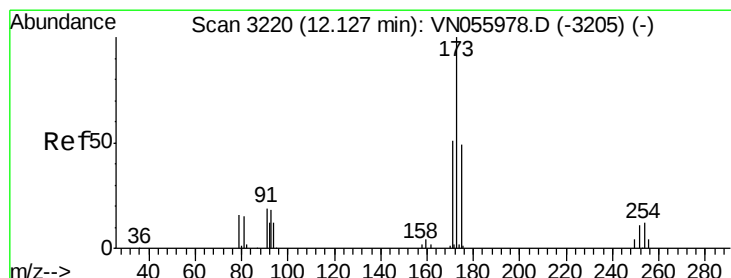
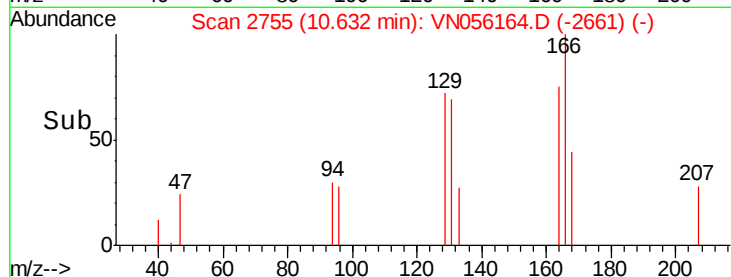
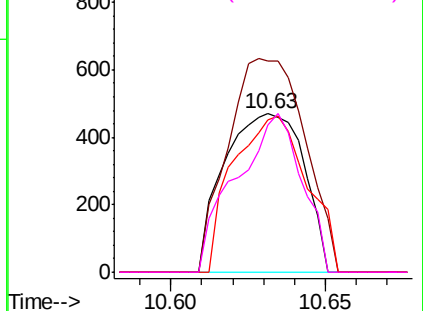
Abundance

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: 3.173 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

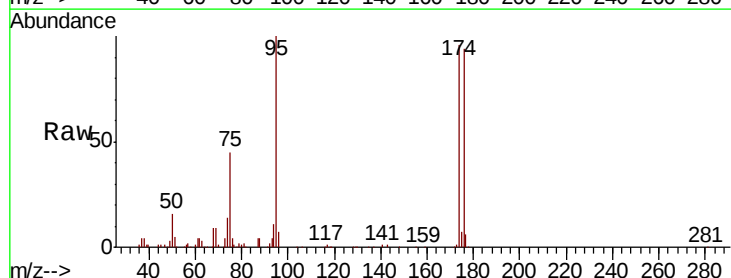
Tgt Ion:173 Resp: 1193

Ion Ratio Lower Upper

173 100

175 992.7 24.3 72.8#

254 0.0 0.0 0.0

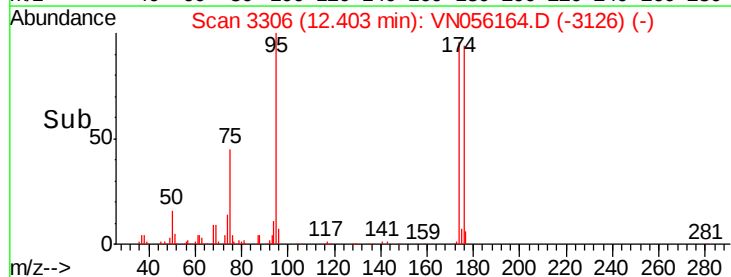
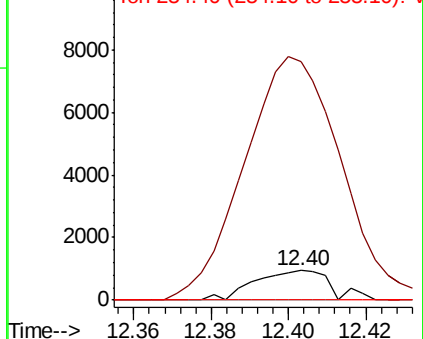


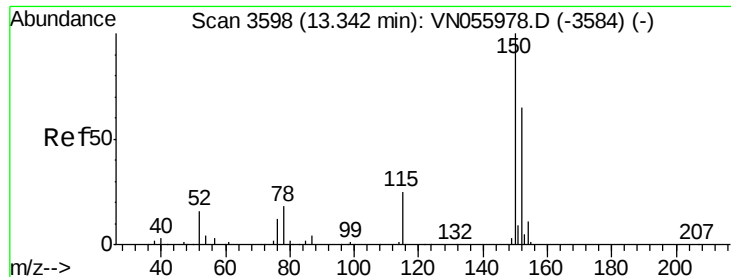
Abundance

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: VN056164.D

Acq: 10 Jun 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20190604

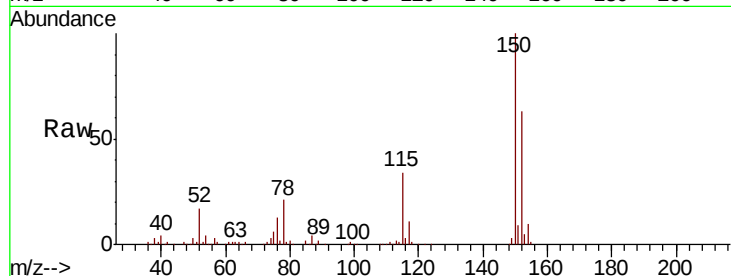
Tot Ion:152 Resp: 151839

Ion Ratio Lower Upper

152 100

115 52.6 27.0 81.0

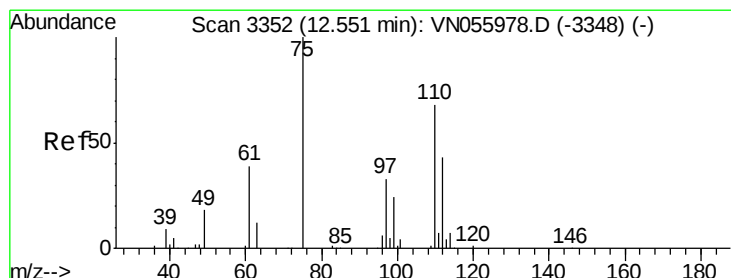
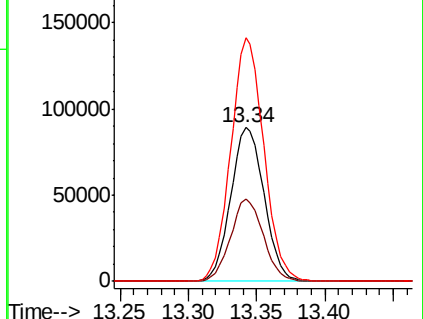
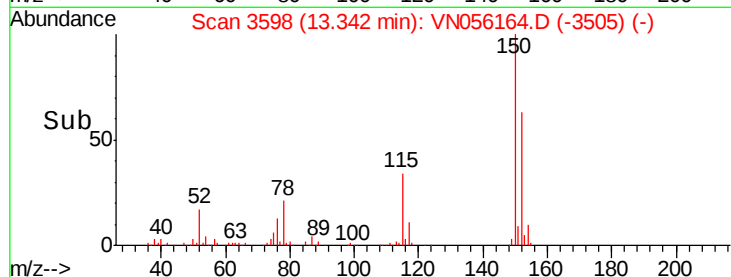
150 156.5 0.0 343.2



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: 31.951 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056164.D

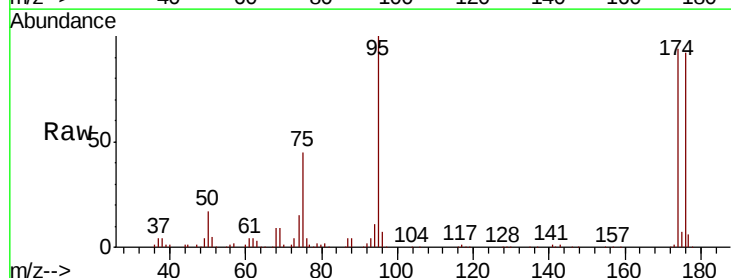
Acq: 10 Jun 2019 12:52

Tgt Ion: 75 Resp: 89269

Ion Ratio Lower Upper

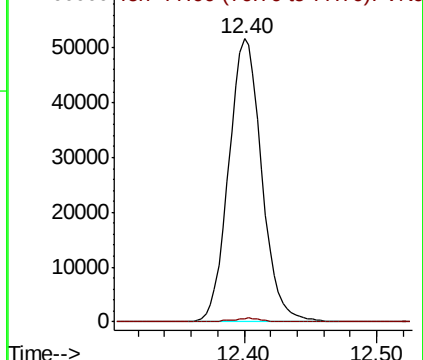
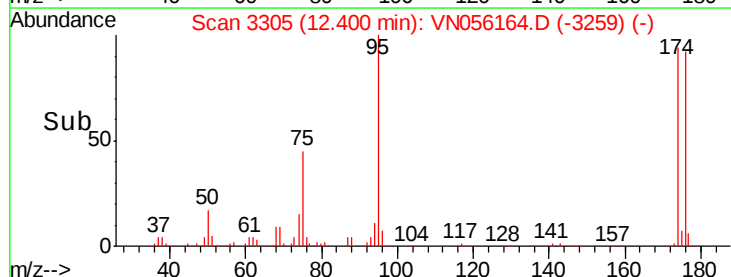
75 100

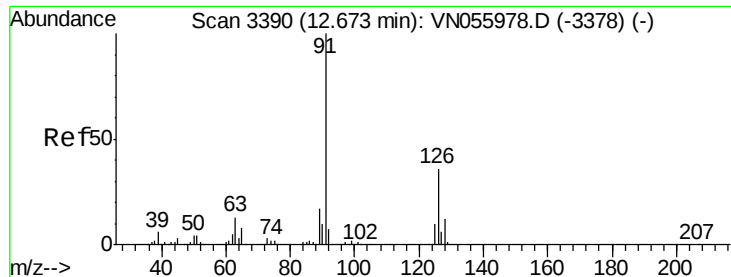
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

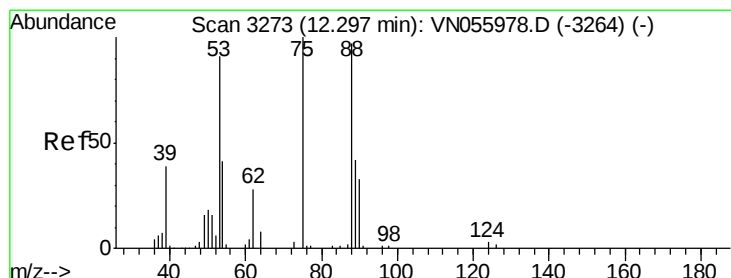
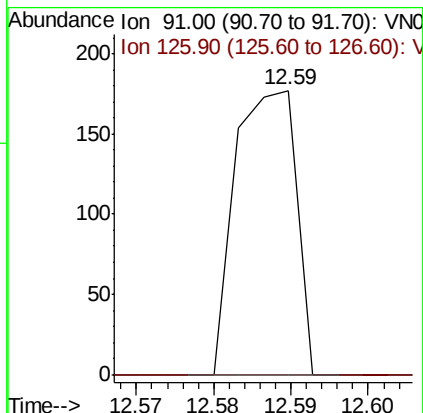
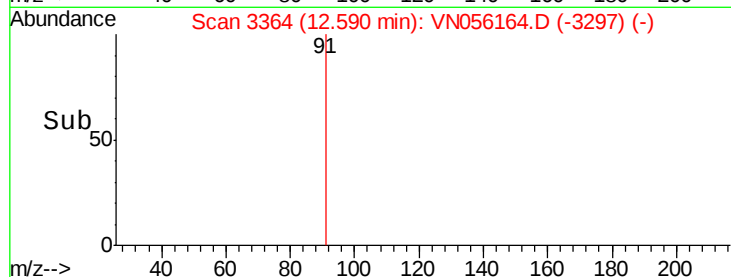
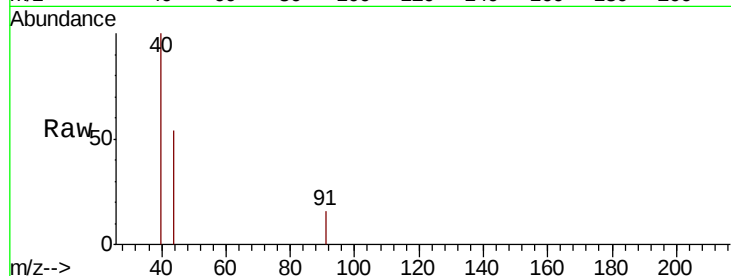
RE108D2-20190604

Tot Ion: 91 Resp: 97

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 106.404 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056164.D

Acq: 10 Jun 2019 12:52

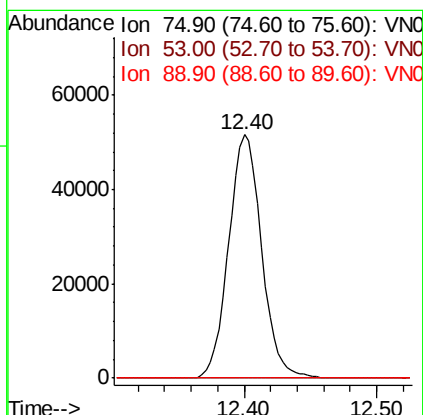
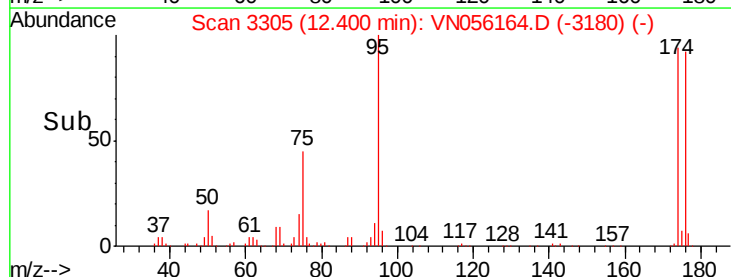
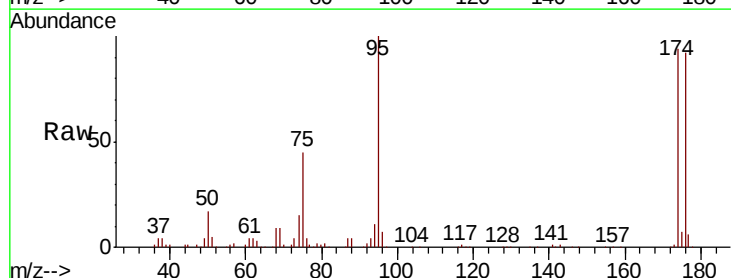
Tgt Ion: 75 Resp: 89269

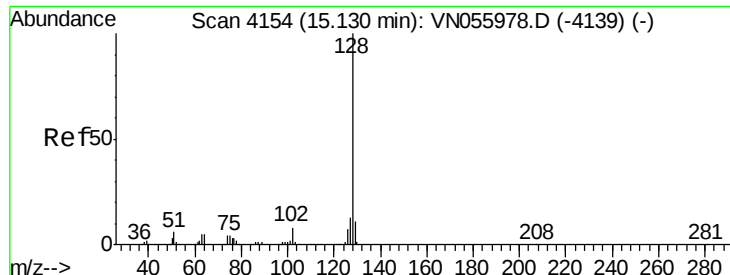
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#





#95

Naphthalene

Concen: 3.866 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056164.D

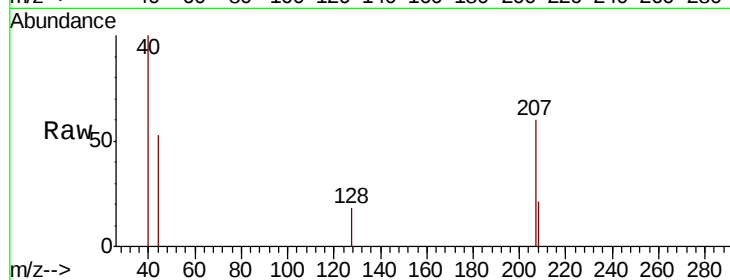
Acq: 10 Jun 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20190604



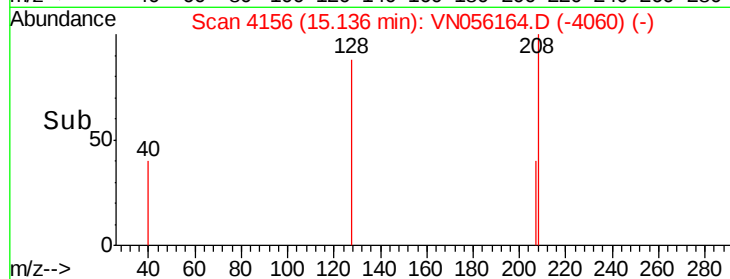
Tot Ion:128 Resp: 114

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

15.14

200

150

100

50

0

Time-->