

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056266.D
 Acq On : 12 Jun 2019 22:11
 Operator : JC/SP
 Sample : K3315-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D2-20190607

Quant Time: Jun 13 04:36:46 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

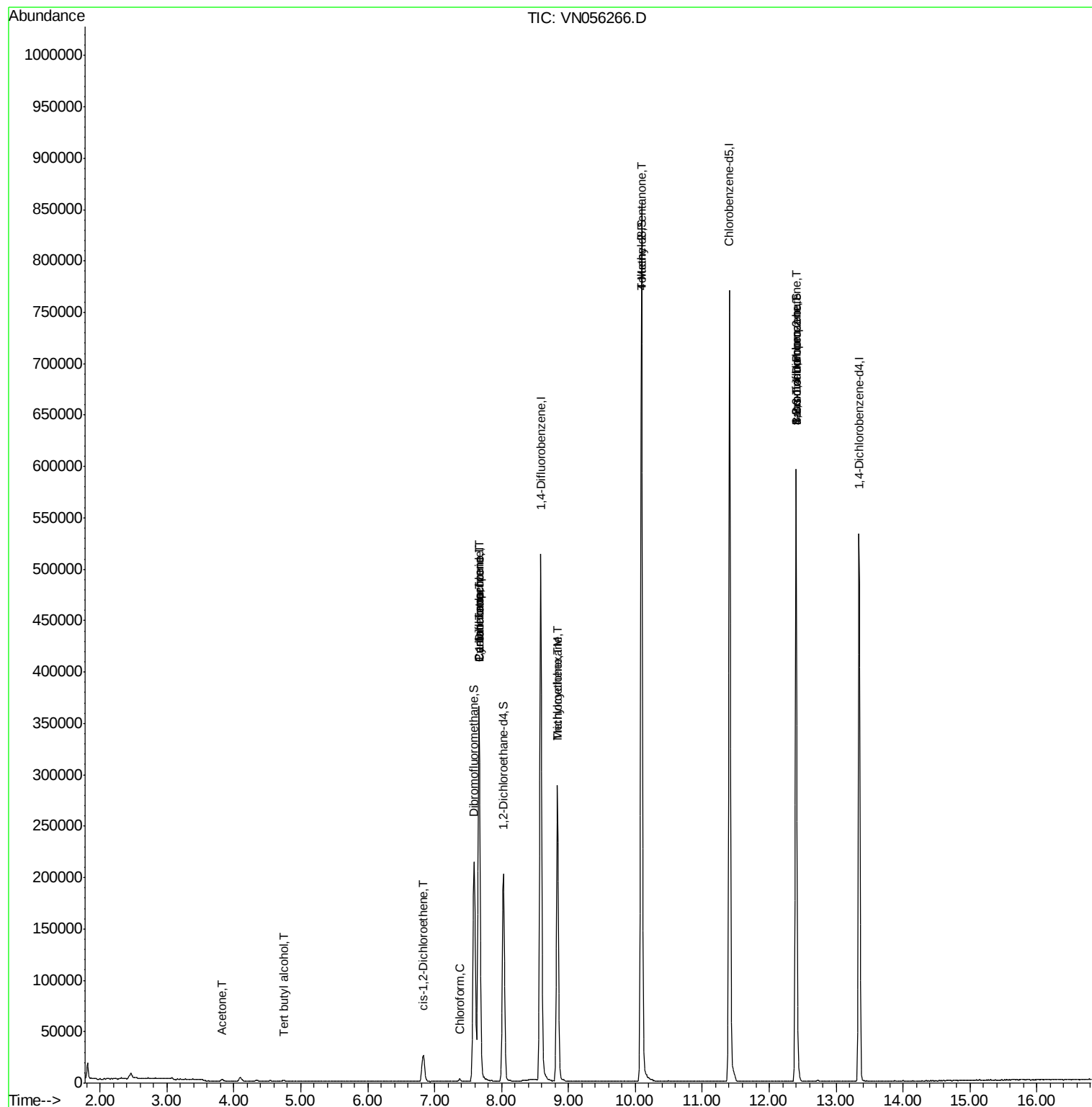
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	352127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	518872	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	508409	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	169510	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	170771	48.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.68%	
35) Dibromofluoromethane	7.59	113	164924	51.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.62%	
50) Toluene-d8	10.09	98	646274	52.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.52%	
62) 4-Bromofluorobenzene	12.40	95	203420	48.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.66%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.75	59	230	0.378	ug/l #	74
16) Acetone	3.82	43	3190	1.908	ug/l	96
18) Methyl Acetate	4.34	43	1792	Below Cal	#	55
27) cis-1,2-Dichloroethene	6.83	96	19360	5.200	ug/l	88
30) Chloroform	7.37	83	3143	0.561	ug/l	93
31) Cyclohexane	7.66	56	4477	0.807	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19553	4.383	ug/l #	48
38) Carbon Tetrachloride	7.66	117	27394	6.660	ug/l #	15
39) Methylcyclohexane	8.84	83	1158	0.208	ug/l #	1
44) Trichloroethene	8.83	130	119713	30.745	ug/l	93
51) 4-Methyl-2-Pentanone	10.09	43	2259	0.562	ug/l #	1
71) Bromoform	12.40	173	1568	3.247	ug/l #	1
73) Isopropylbenzene	12.40	105	29	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	94101	30.170	ug/l #	100
79) 2-Chlorotoluene	12.40	91	440	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	94101	100.471	ug/l #	15

(#) = 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: VN056266.D

Acq: 12 Jun 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

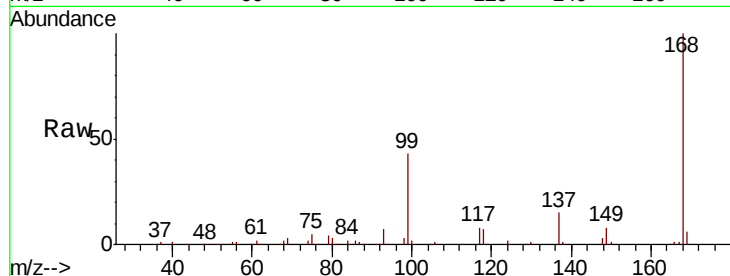
RE104D2-20190607

Tot Ion:168 Resp: 352127

Ion Ratio Lower Upper

168 100

99 43.0 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

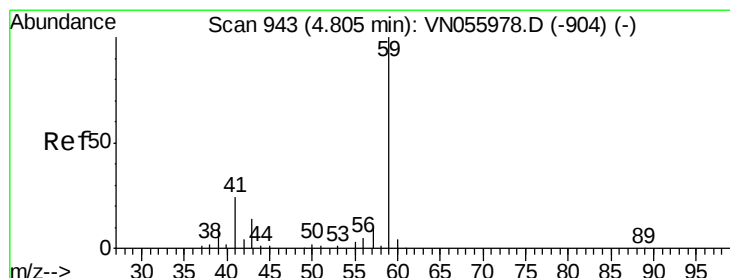
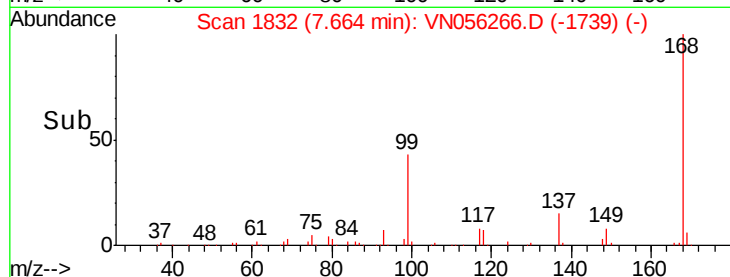
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 0.378 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.05 min

Lab File: VN056266.D

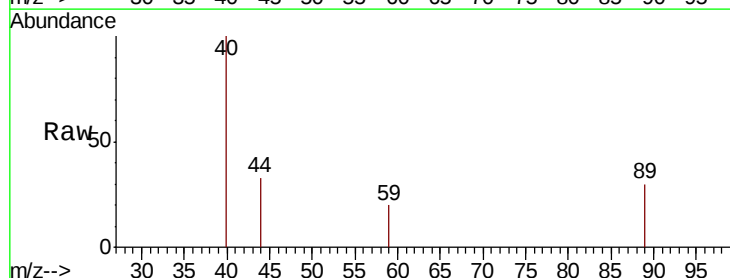
Acq: 12 Jun 2019 22:11

Tgt Ion: 59 Resp: 230

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

4.75

300

250

200

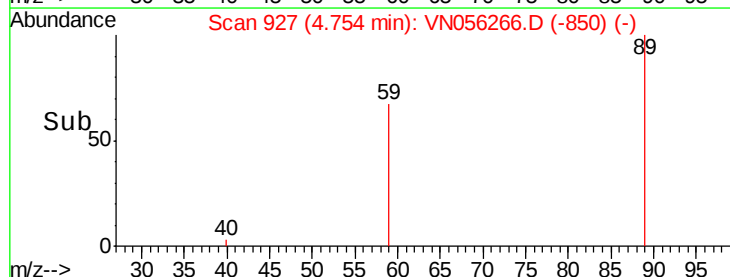
150

100

50

0

Time--> 4.73 4.74 4.75 4.76 4.77





#16

Acetone

Concen: 1.908 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056266.D

Acq: 12 Jun 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

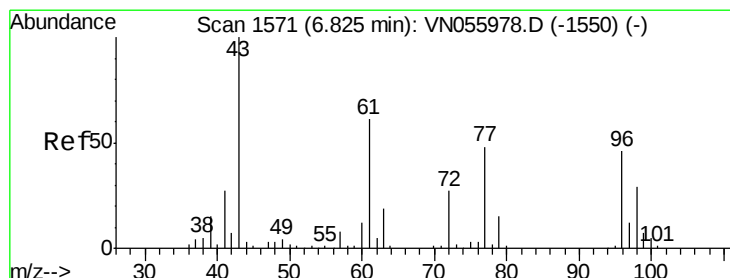
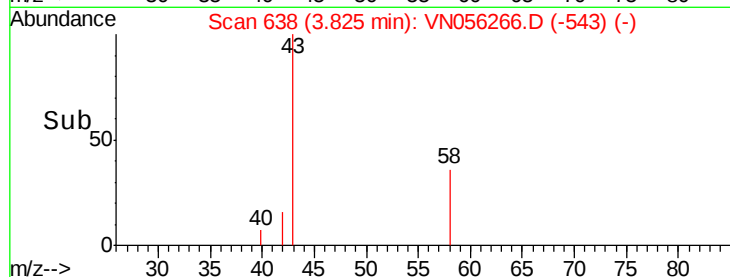
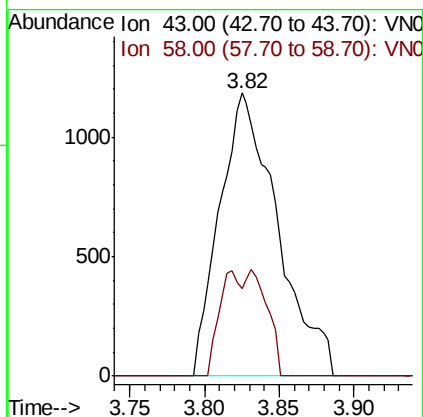
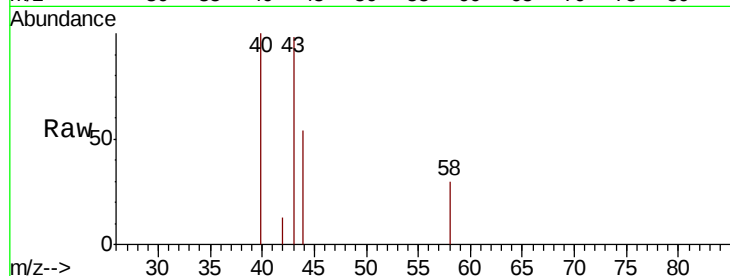
RE104D2-20190607

Tot Ion: 43 Resp: 3190

Ion Ratio Lower Upper

43 100

58 30.7 26.6 39.8



#27

cis-1,2-Dichloroethene

Concen: 5.200 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056266.D

Acq: 12 Jun 2019 22:11

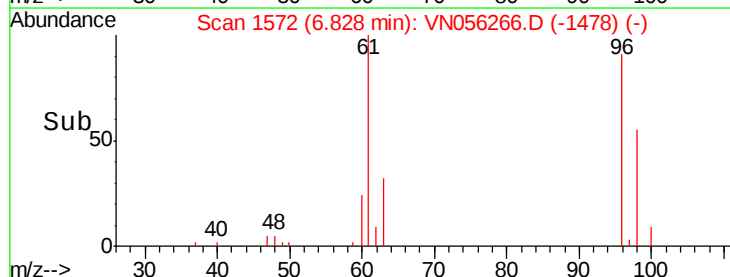
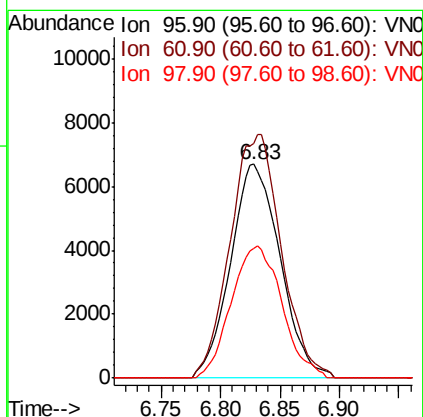
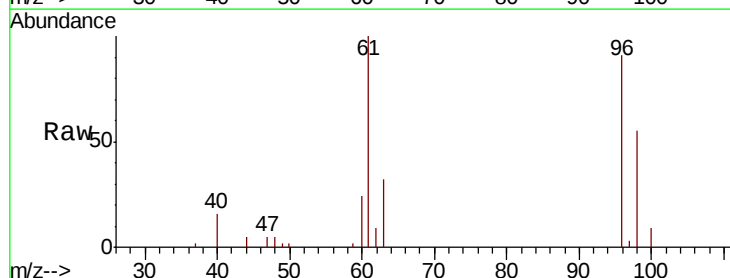
Tgt Ion: 96 Resp: 19360

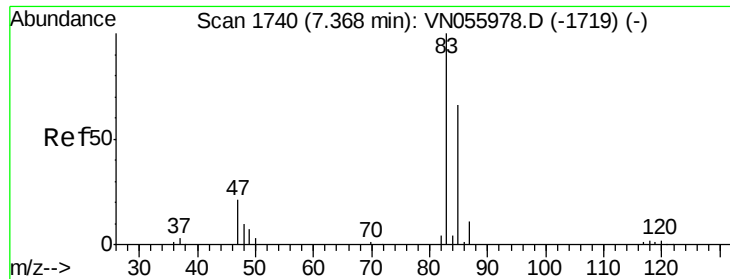
Ion Ratio Lower Upper

96 100

61 117.2 0.0 275.8

98 63.0 0.0 128.4

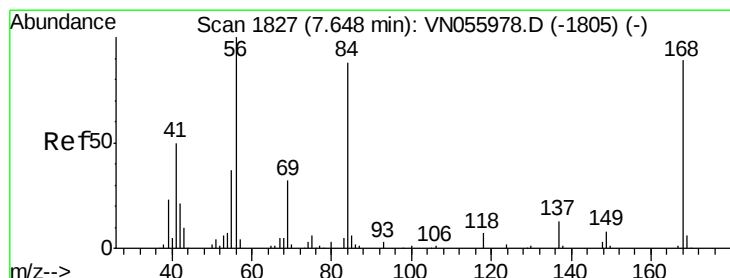
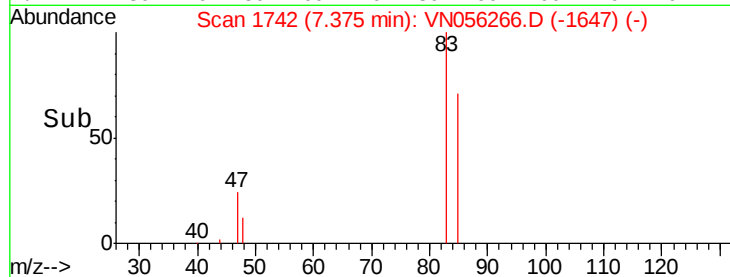
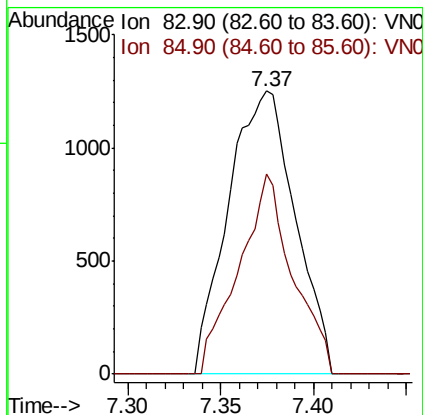
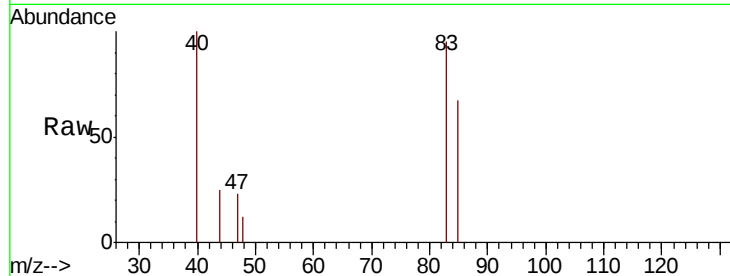




#30
Chloroform
Concen: 0.561 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.01 min
Lab File: VN056266.D
Acq: 12 Jun 2019 22:11

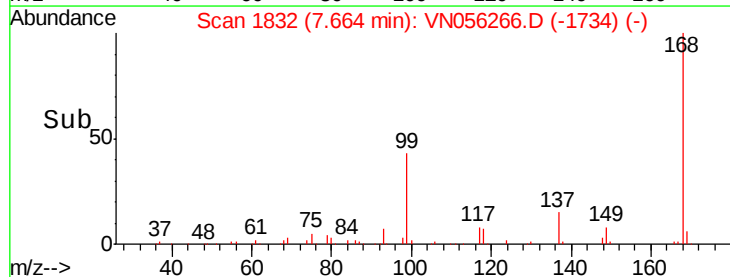
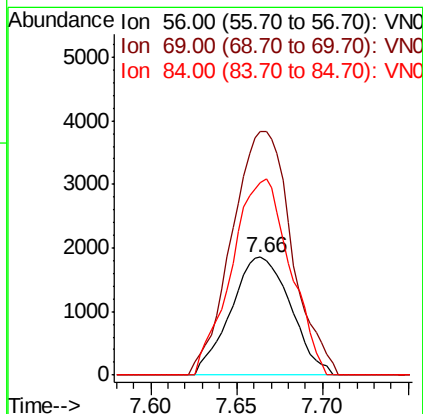
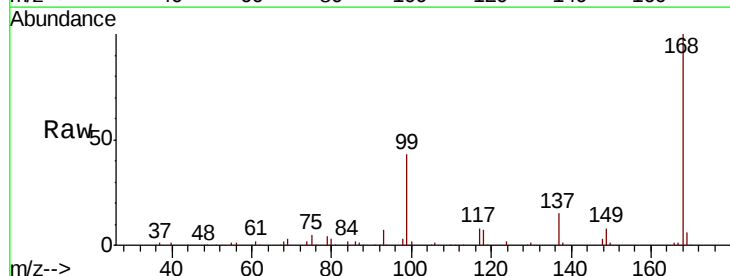
Instrument :
MSVOA_N
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RE104D2-20190607

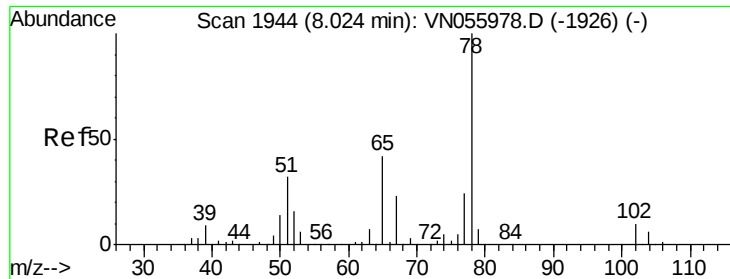
Tot Ion: 83 Resp: 3143
Ion Ratio Lower Upper
83 100
85 70.5 51.8 77.8



#31
Cyclohexane
Concen: 0.807 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056266.D
Acq: 12 Jun 2019 22:11

Tgt Ion: 56 Resp: 4477
Ion Ratio Lower Upper
56 100
69 206.6 25.6 38.4#
84 163.3 67.4 101.0#

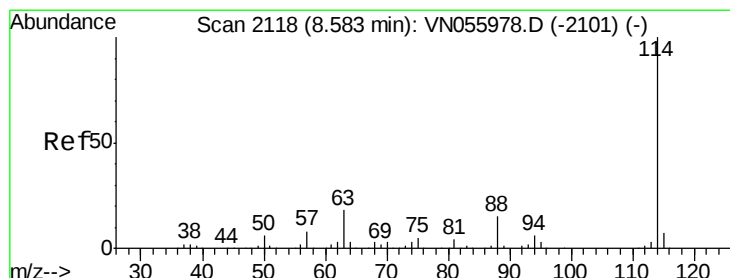
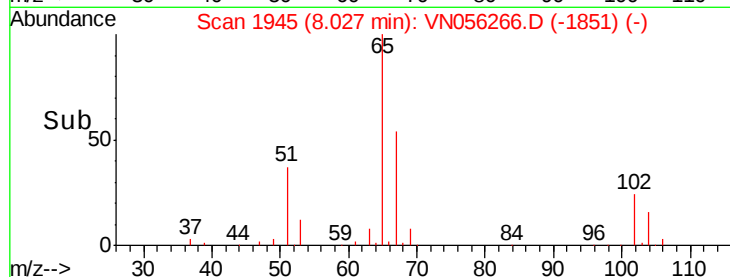
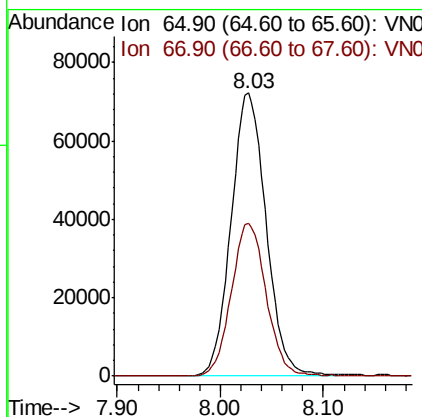
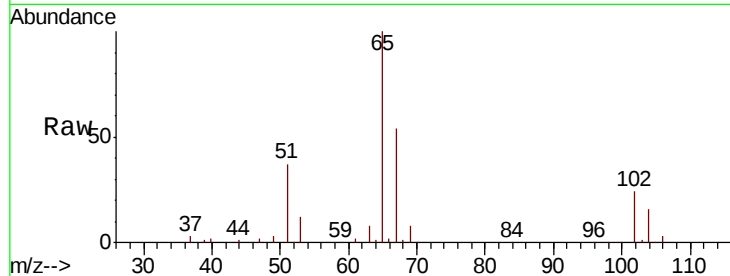




#33
 1,2-Dichloroethane-d4
 Concen: 48.843 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056266.D
 Acq: 12 Jun 2019 22:11

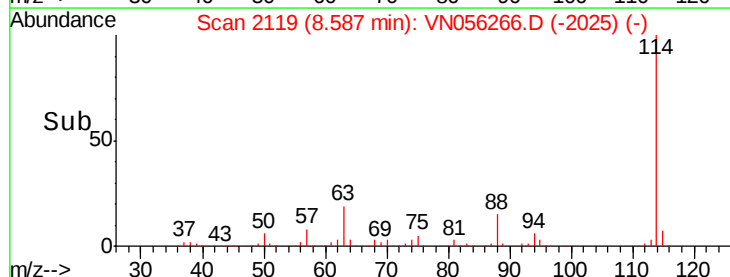
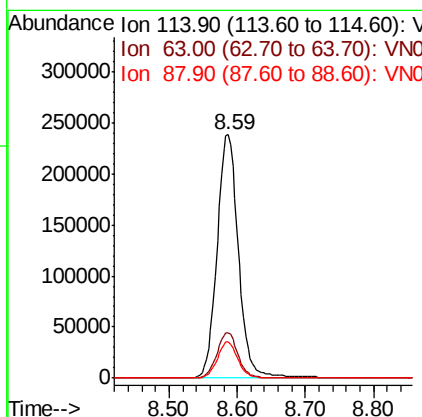
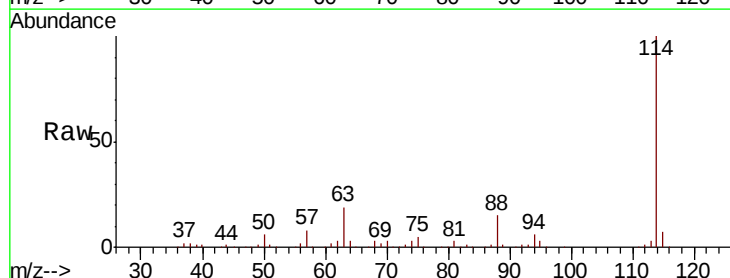
Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D2-20190607

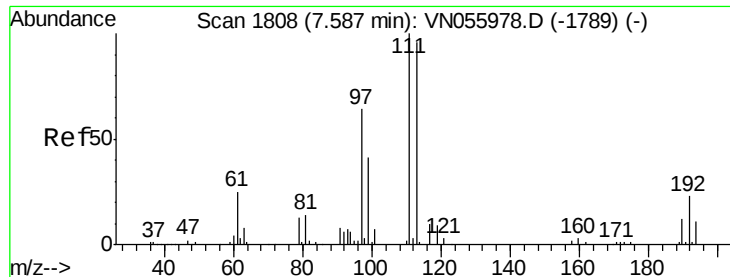
Tot Ion: 65 Resp: 170771
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056266.D
 Acq: 12 Jun 2019 22:11

Tgt Ion: 114 Resp: 518872
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.2
 88 14.7 0.0 31.0

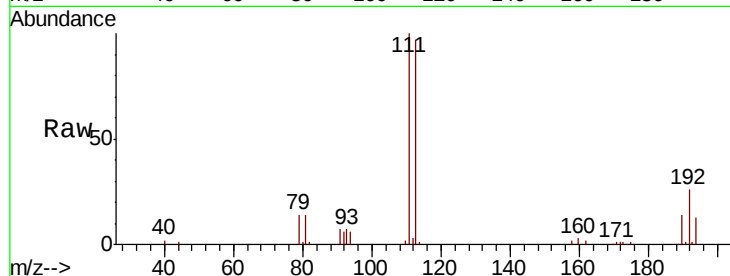




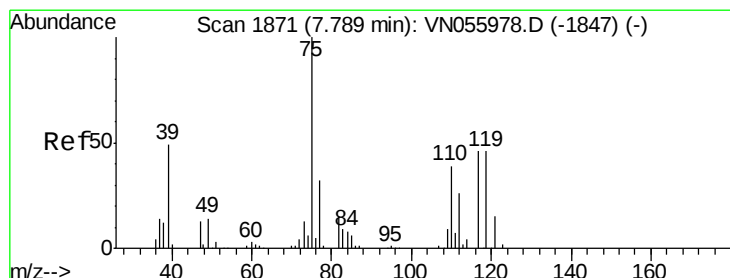
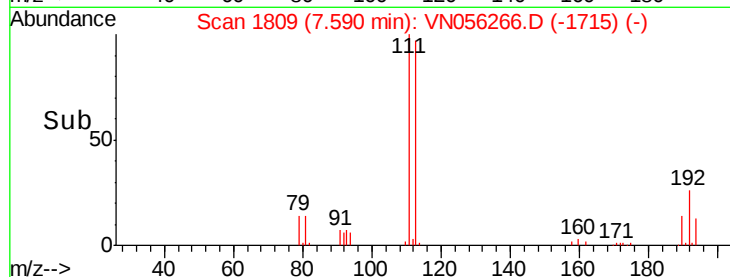
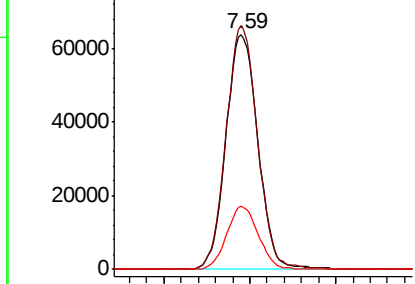
#35
 Dibromofluoromethane
 Concen: 51.807 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056266.D
 Acq: 12 Jun 2019 22:11

Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D2-20190607

Tot Ion:113 Resp: 164924
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.9 122.9
 192 26.4 19.5 29.3

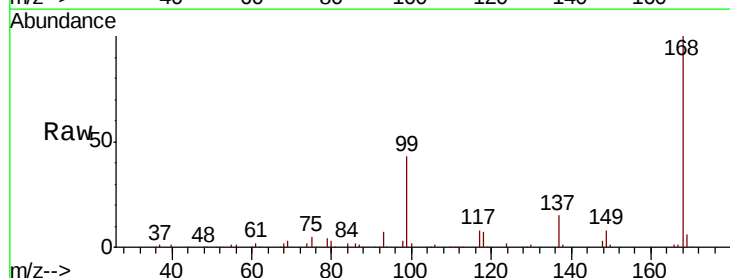


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

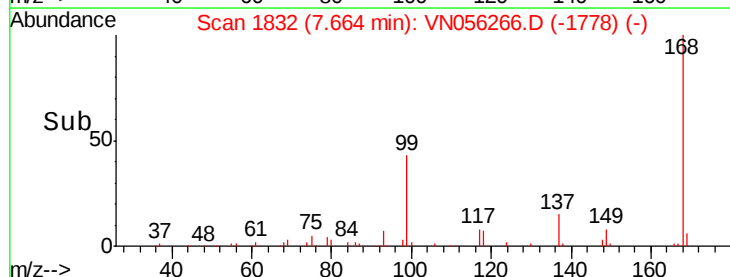
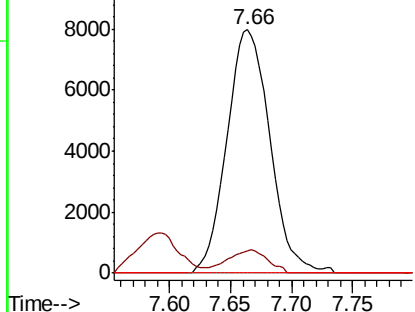


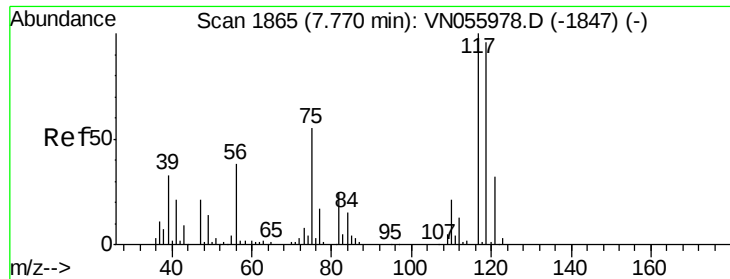
#36
 1,1-Dichloropropene
 Concen: 4.383 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056266.D
 Acq: 12 Jun 2019 22:11

Tgt Ion: 75 Resp: 19553
 Ion Ratio Lower Upper
 75 100
 110 8.8 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: 6.660 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056266.D

Acq: 12 Jun 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

RE104D2-20190607

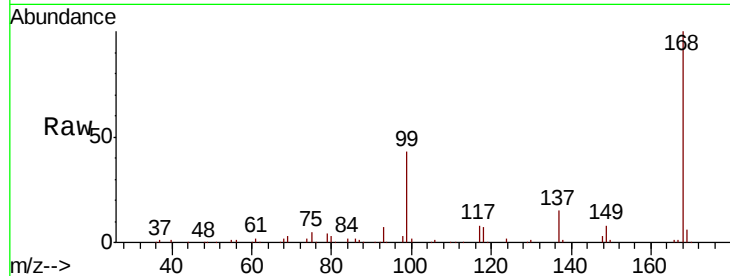
Tot Ion:117 Resp: 27394

Ion Ratio Lower Upper

117 100

119 5.3 79.0 118.6#

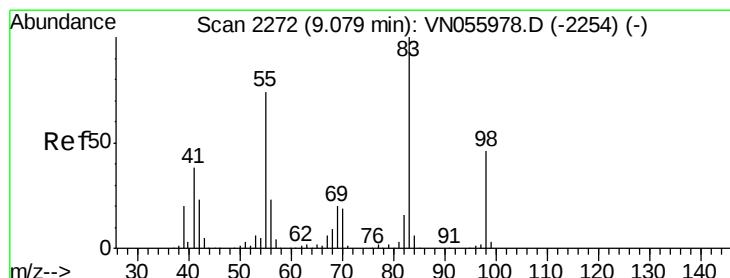
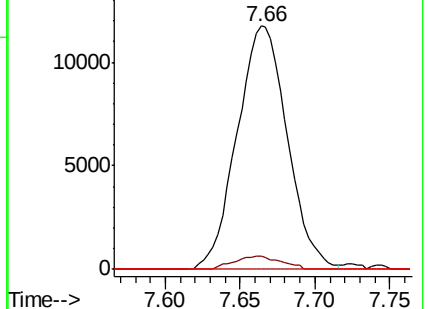
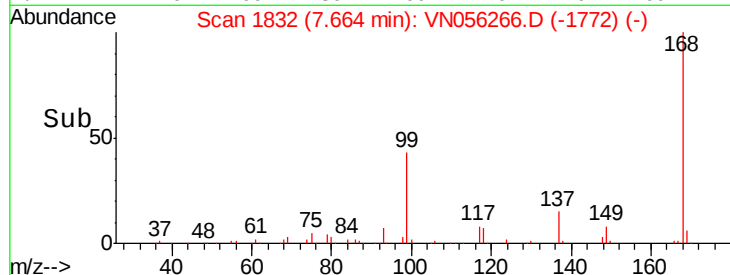
121 0.0 24.7 37.1#



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: 0.208 ug/l

RT: 8.84 min Scan# 2198

Delta R.T. -0.24 min

Lab File: VN056266.D

Acq: 12 Jun 2019 22:11

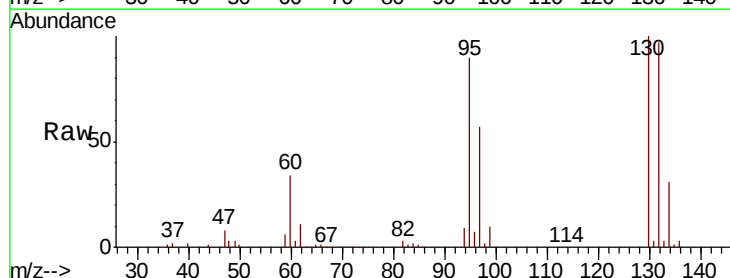
Tgt Ion: 83 Resp: 1158

Ion Ratio Lower Upper

83 100

55 0.0 59.3 88.9#

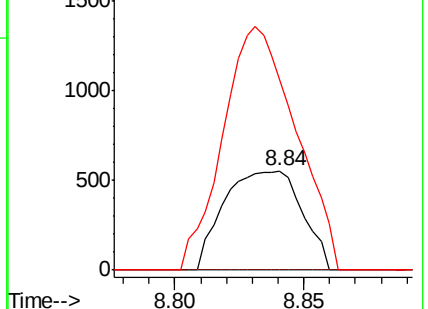
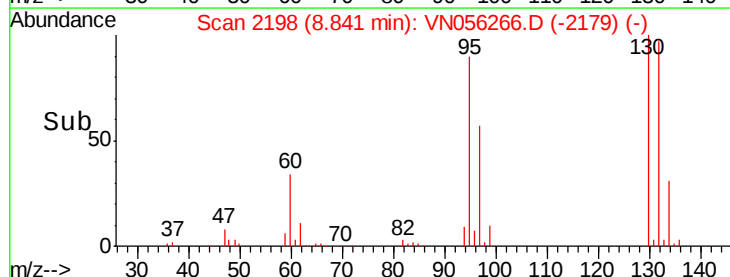
98 192.2 36.6 54.8#

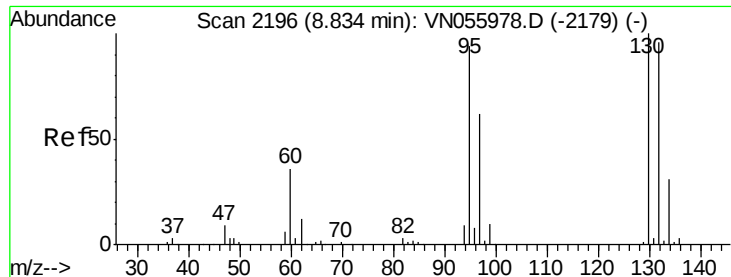


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#44

Trichloroethene

Concen: 30.745 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056266.D

Acq: 12 Jun 2019 22:11

Instrument :

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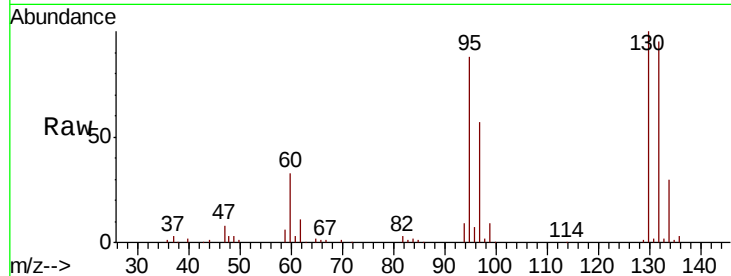
RE104D2-20190607

Tot Ion:130 Resp: 119713

Ion Ratio Lower Upper

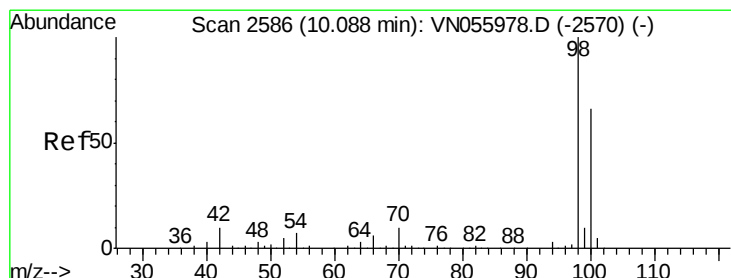
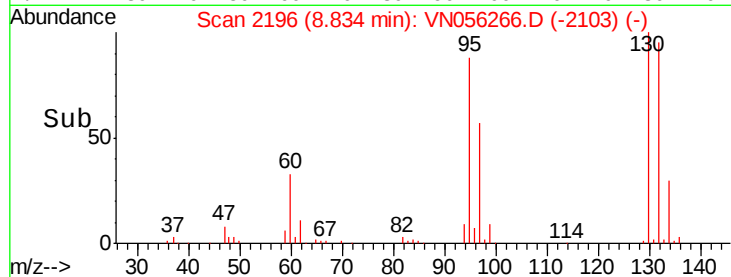
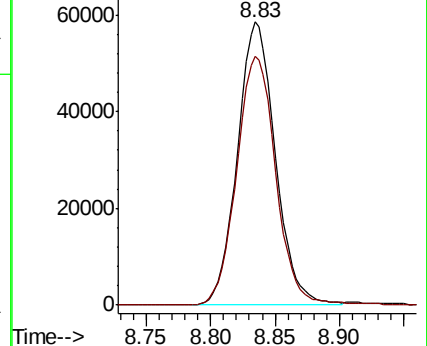
130 100

95 87.7 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: 52.757 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056266.D

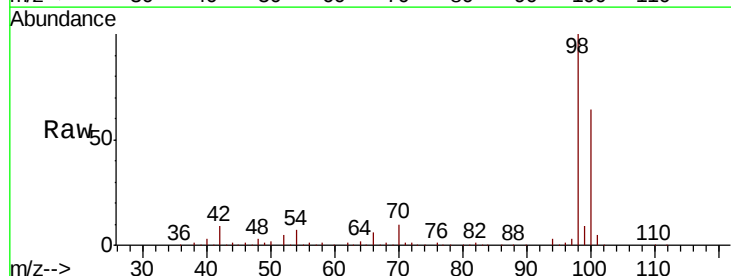
Acq: 12 Jun 2019 22:11

Tgt Ion: 98 Resp: 646274

Ion Ratio Lower Upper

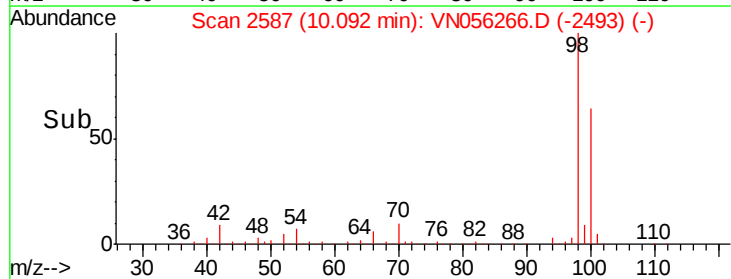
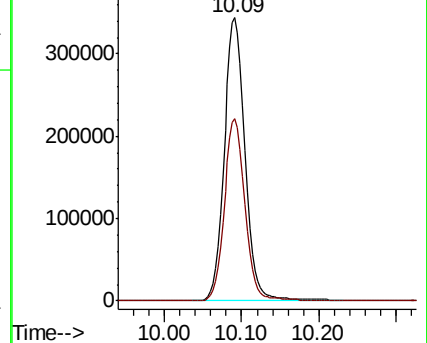
98 100

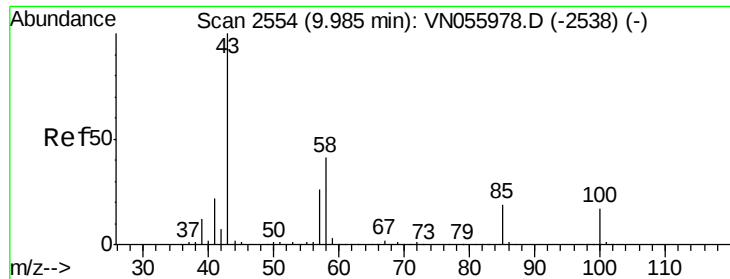
100 63.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.562 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. 0.11 min

Lab File: VN056266.D

Acq: 12 Jun 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

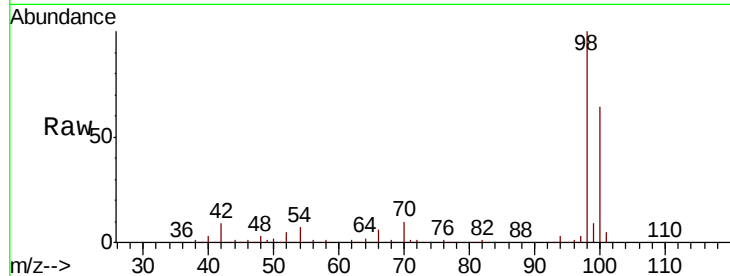
RE104D2-20190607

Tot Ion: 43 Resp: 2259

Ion Ratio Lower Upper

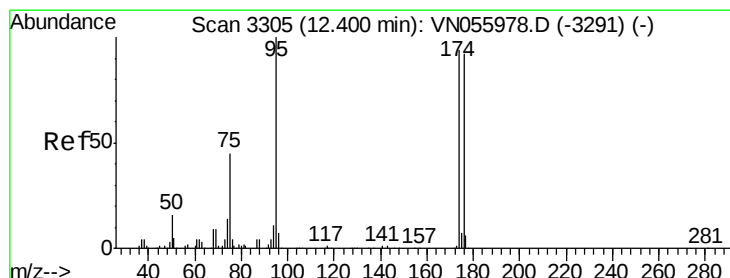
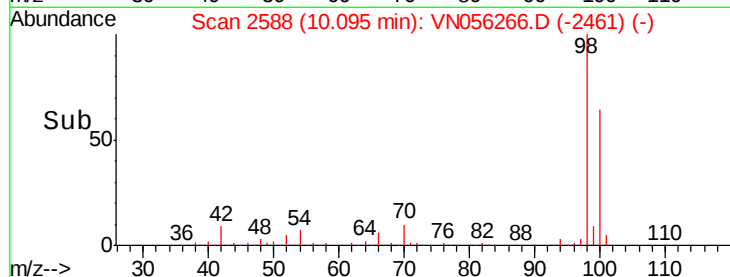
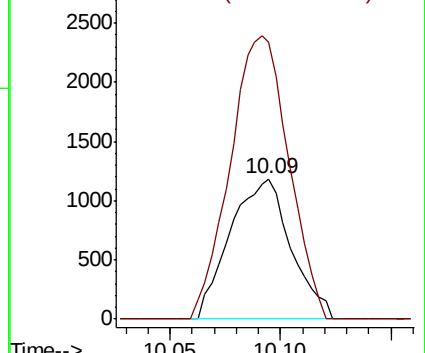
43 100

58 194.5 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 48.830 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056266.D

Acq: 12 Jun 2019 22:11

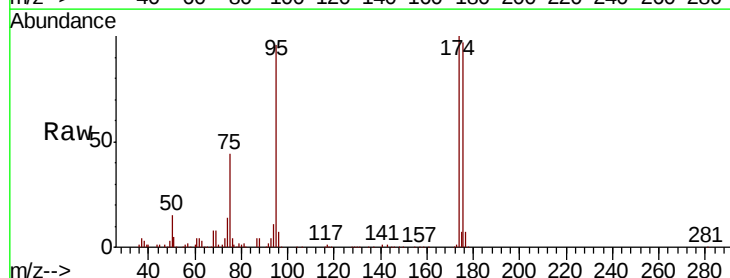
Tgt Ion: 95 Resp: 203420

Ion Ratio Lower Upper

95 100

174 106.4 0.0 191.0

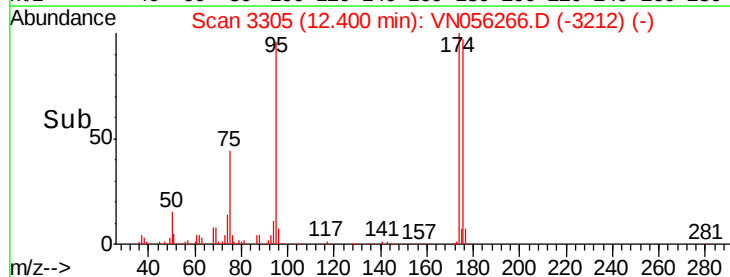
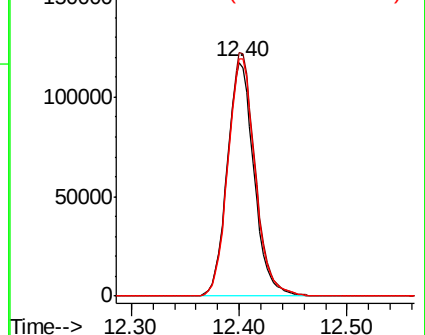
176 103.0 0.0 185.2

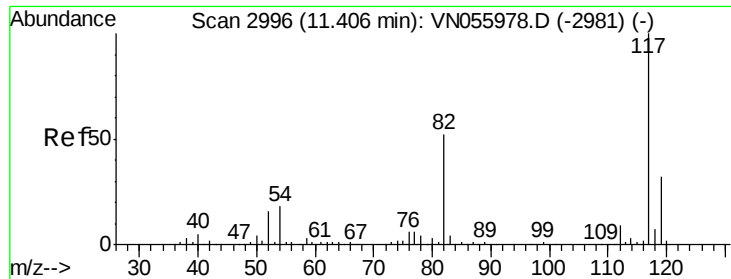


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

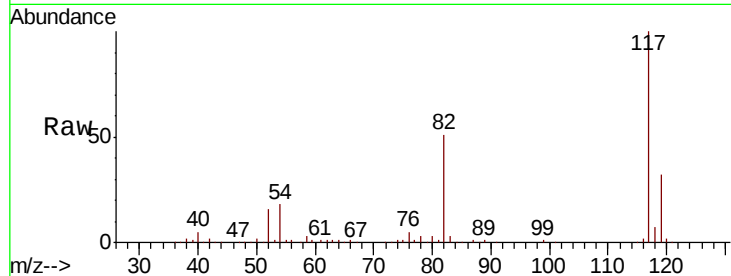




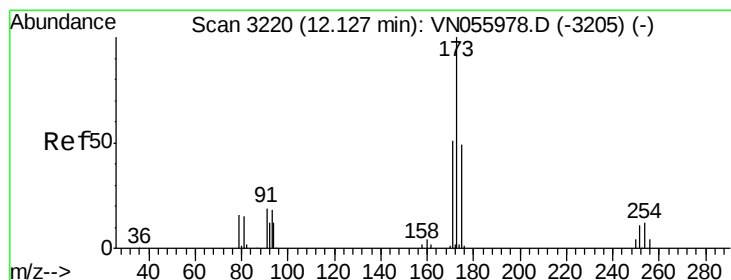
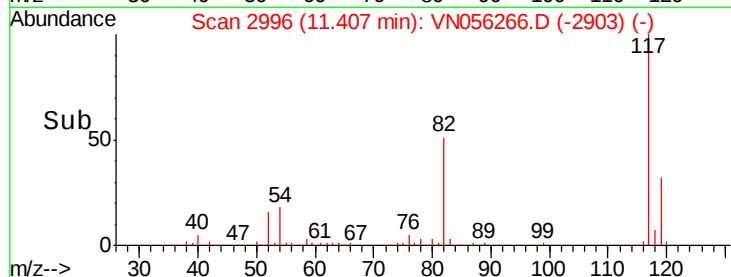
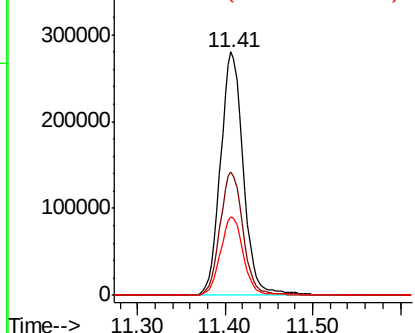
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056266.D
Acq: 12 Jun 2019 22:11

Instrument :
MSVOA_N
ClientSampleId :
RE104D2-20190607

Tot Ion:117 Resp: 508409
Ion Ratio Lower Upper
117 100
82 50.6 41.8 62.8
119 32.0 25.4 38.0

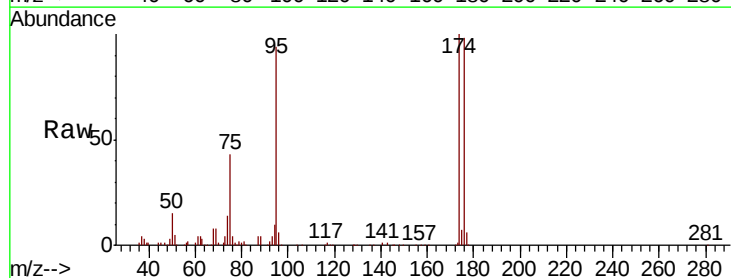


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

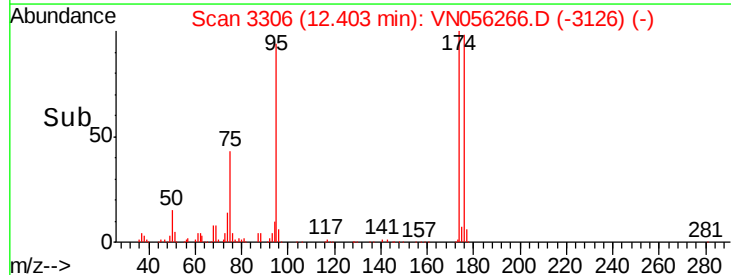
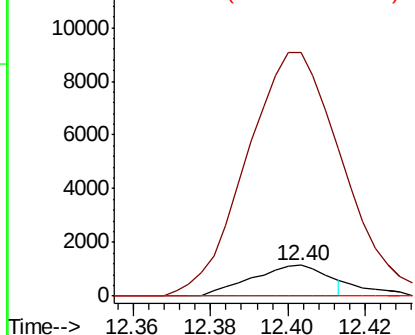


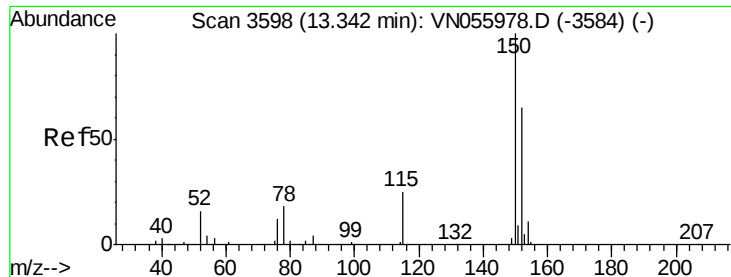
#71
Bromoform
Concen: 3.247 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056266.D
Acq: 12 Jun 2019 22:11

Tgt Ion:173 Resp: 1568
Ion Ratio Lower Upper
173 100
175 858.3 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: VN056266.D

Acq: 12 Jun 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

RE104D2-20190607

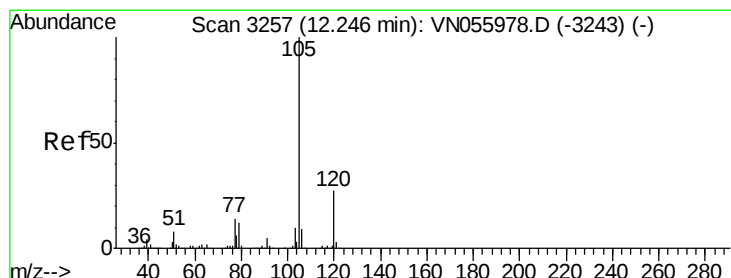
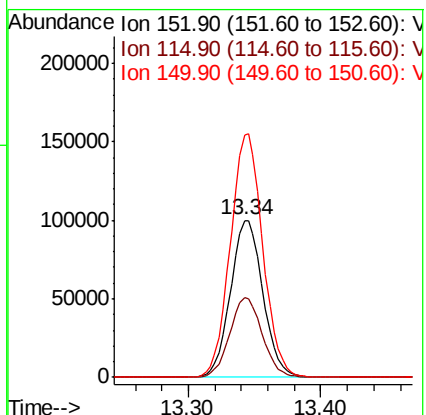
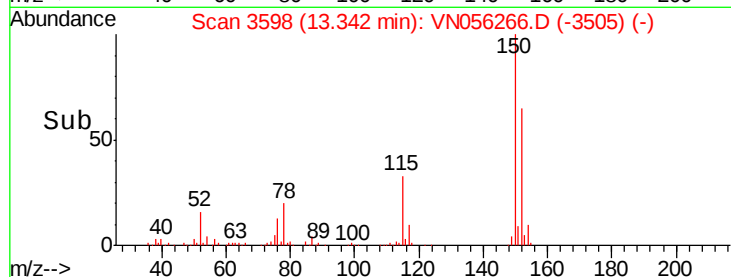
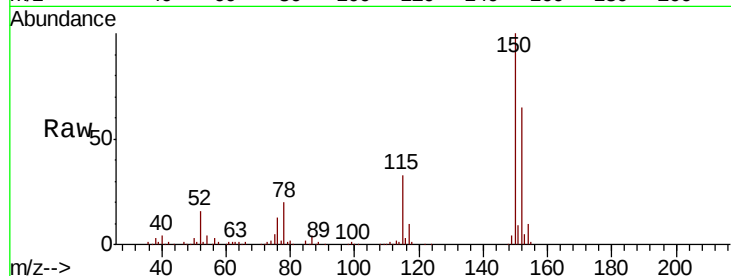
Tot Ion:152 Resp: 169510

Ion Ratio Lower Upper

152 100

115 50.7 27.0 81.0

150 155.2 0.0 343.2



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. 0.15 min

Lab File: VN056266.D

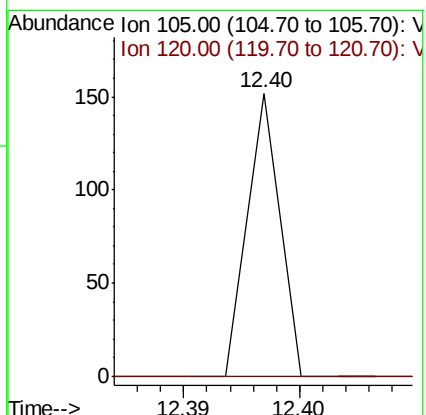
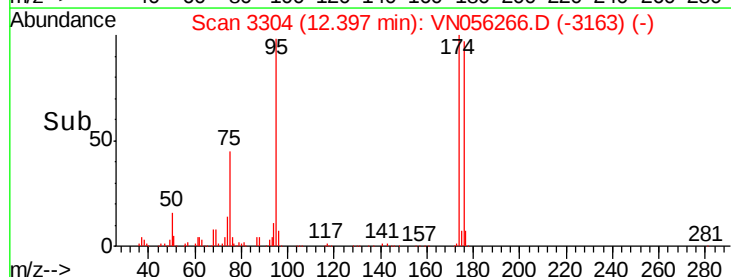
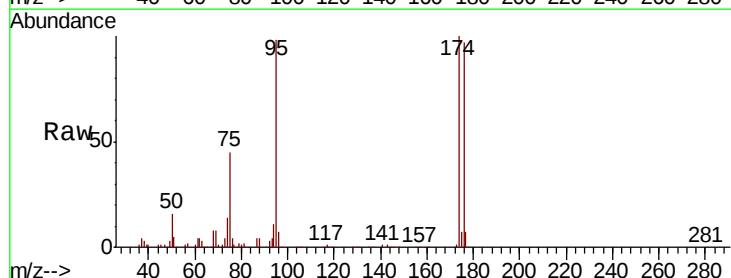
Acq: 12 Jun 2019 22:11

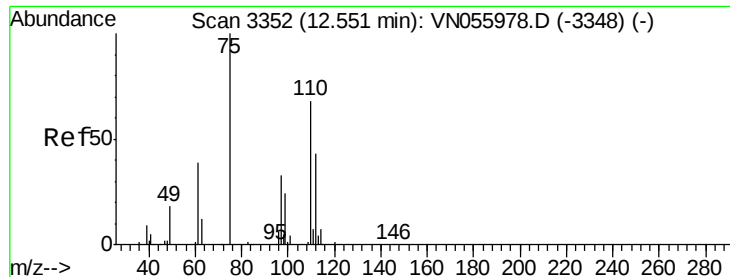
Tgt Ion:105 Resp: 29

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#





#76

1,2,3-Trichloropropane

Concen: 30.170 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056266.D

Acq: 12 Jun 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

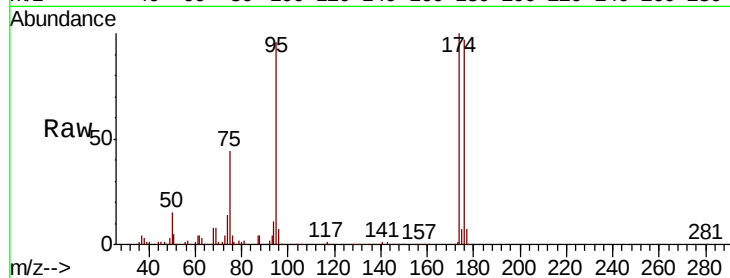
RE104D2-20190607

Tot Ion: 75 Resp: 94101

Ion Ratio Lower Upper

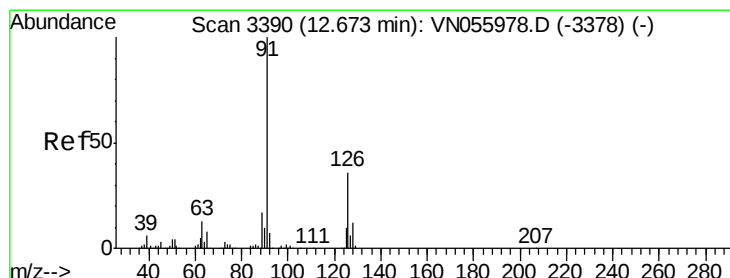
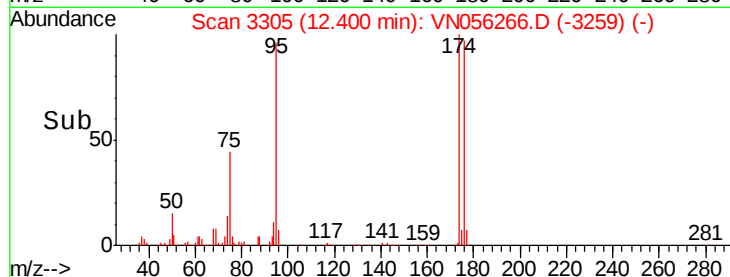
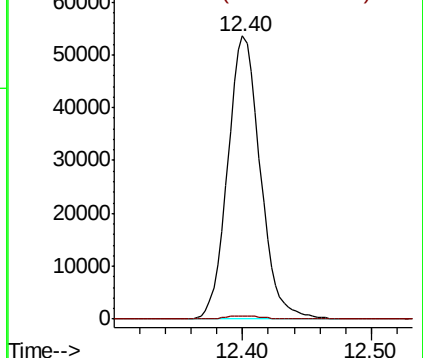
75 100

77 1.2 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# 3306

Delta R.T. -0.27 min

Lab File: VN056266.D

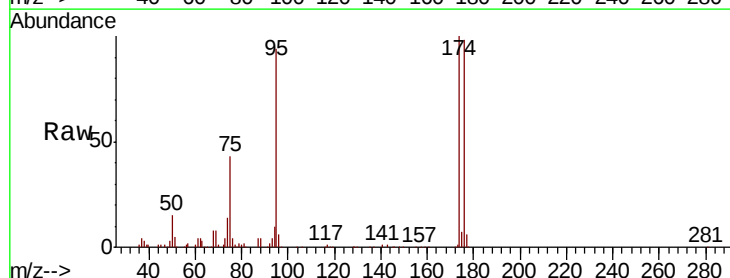
Acq: 12 Jun 2019 22:11

Tgt Ion: 91 Resp: 440

Ion Ratio Lower Upper

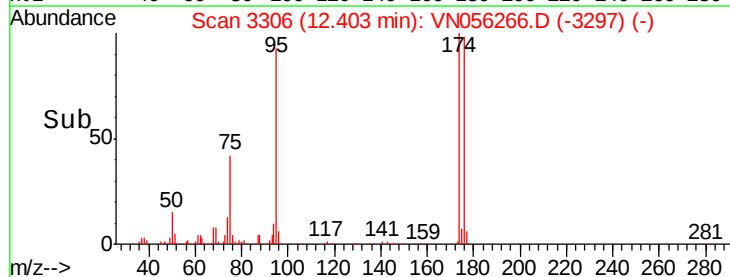
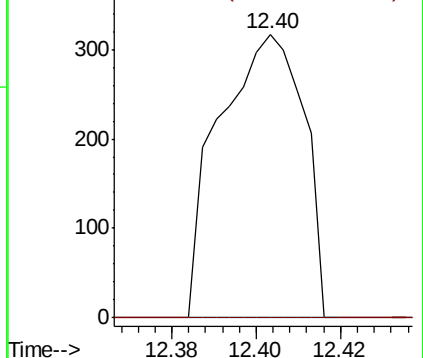
91 100

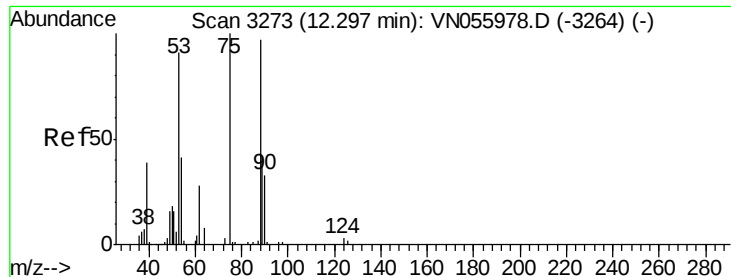
126 0.0 18.1 54.4#



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: 100.471 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056266.D

Acq: 12 Jun 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

RE104D2-20190607

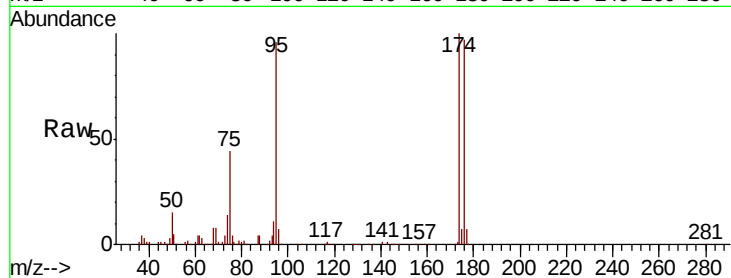
Tot Ion: 75 Resp: 94101

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

