

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056192.D
 Acq On : 11 Jun 2019 1:49
 Operator : JC/SP
 Sample : K3223-03DL 402X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 05:09:20 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	308685	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	460247	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	454590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149022	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	162238	52.93	ug/l	0.00
Spiked Amount			Recovery	=	105.86%	
35) Dibromofluoromethane	7.59	113	152690	54.07	ug/l	0.00
Spiked Amount			Recovery	=	108.14%	
50) Toluene-d8	10.09	98	597743	55.01	ug/l	0.00
Spiked Amount			Recovery	=	110.02%	
62) 4-Bromofluorobenzene	12.40	95	193147	52.27	ug/l	0.00
Spiked Amount			Recovery	=	104.54%	

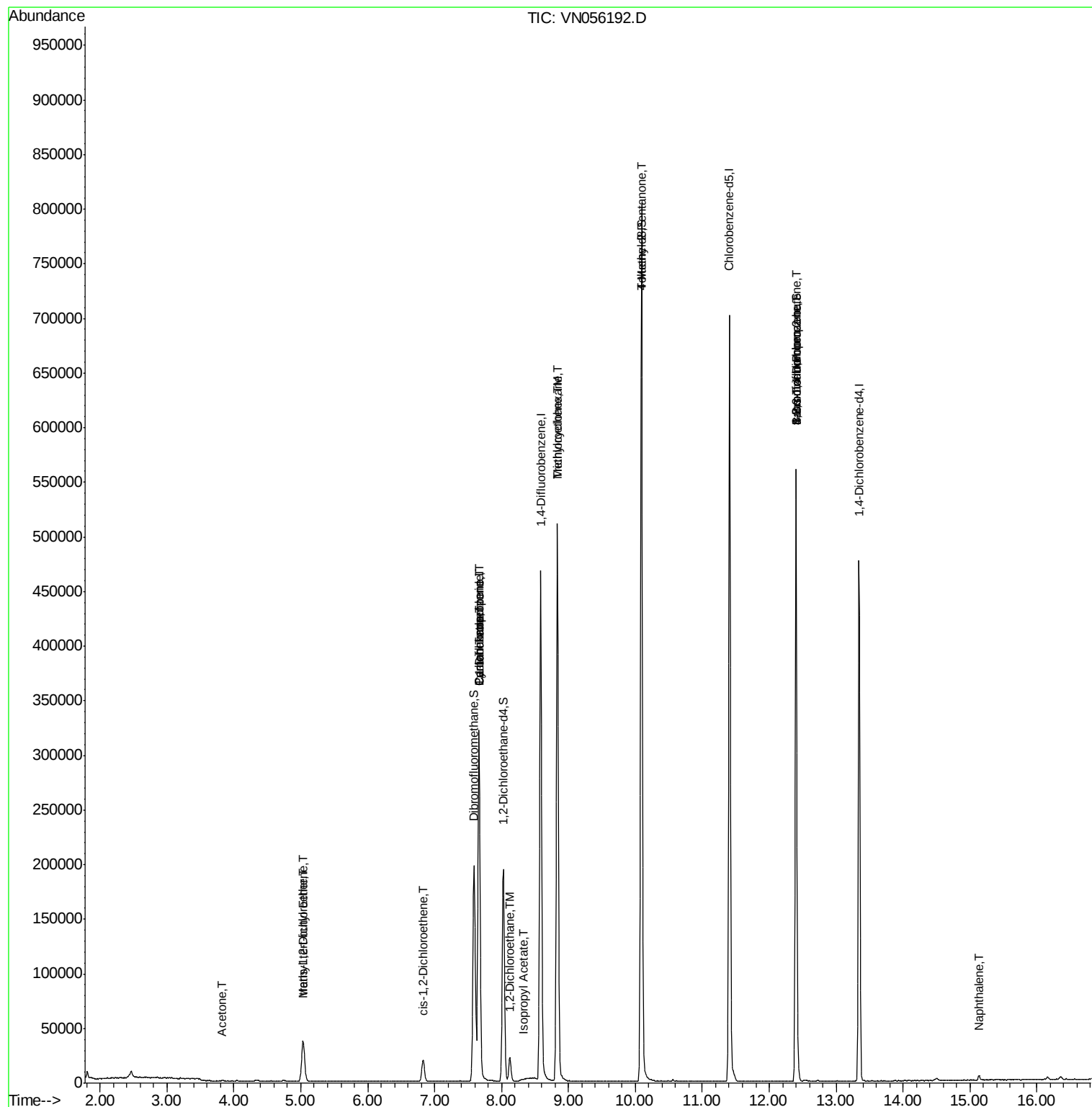
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	433	0.295	ug/l #	41
19) Methyl tert-butyl Ether	5.05	73	6135	0.743	ug/l	95
21) trans-1,2-Dichloroethene	5.04	96	25132	9.052	ug/l	90
27) cis-1,2-Dichloroethene	6.82	96	14329	4.390	ug/l	91
31) Cyclohexane	7.66	56	4120	0.847	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17573	4.440	ug/l #	44
38) Carbon Tetrachloride	7.66	117	24675	6.763	ug/l #	15
39) Methylcyclohexane	8.83	83	2203	0.447	ug/l #	1
42) 1,2-Dichloroethane	8.12	62	21771	5.631	ug/l	98
43) Isopropyl Acetate	8.32	43	2009	0.352	ug/l #	53
44) Trichloroethene	8.83	130	210331	60.897	ug/l	99
51) 4-Methyl-2-Pentanone	10.09	43	2261	0.634	ug/l #	1
71) Bromoform	12.40	173	1312	3.215	ug/l #	1
73) Isopropylbenzene	12.40	105	106	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	88967	32.445	ug/l #	100
79) 2-Chlorotoluene	12.40	91	519	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	88967	108.049	ug/l #	15
95) Naphthalene	15.13	128	5314	4.539	ug/l #	96

(#) = 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: VN056192.D

Acq: 11 Jun 2019 1:49

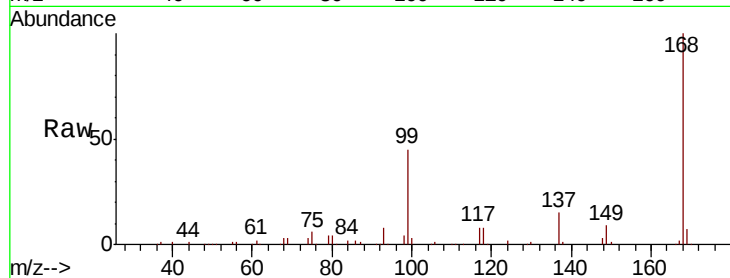
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 308685

Ion Ratio Lower Upper

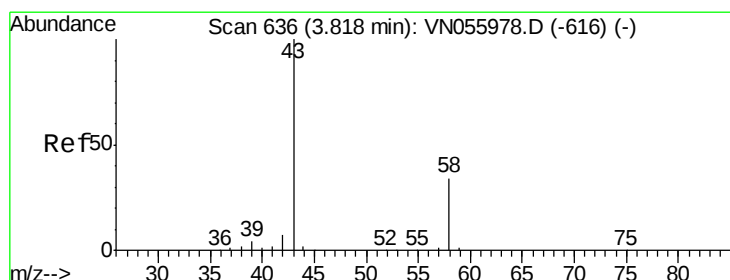
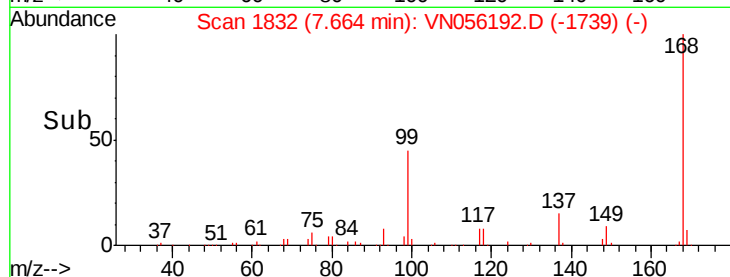
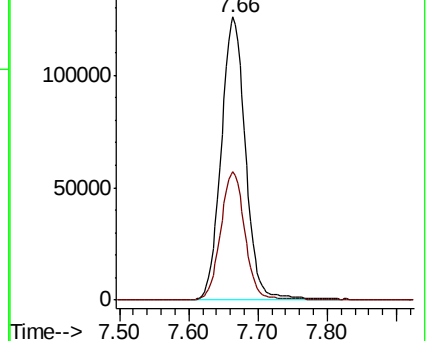
168 100

99 45.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 0.295 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN056192.D

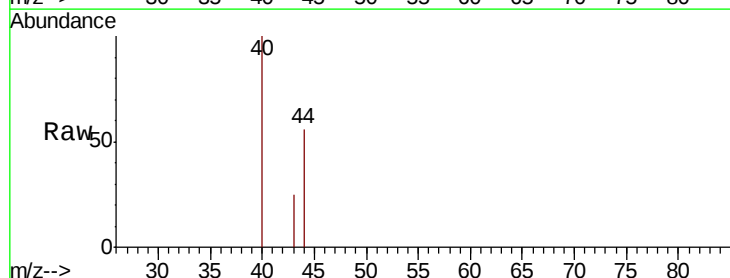
Acq: 11 Jun 2019 1:49

Tgt Ion: 43 Resp: 433

Ion Ratio Lower Upper

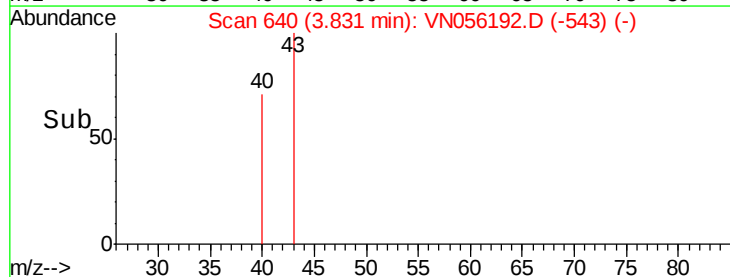
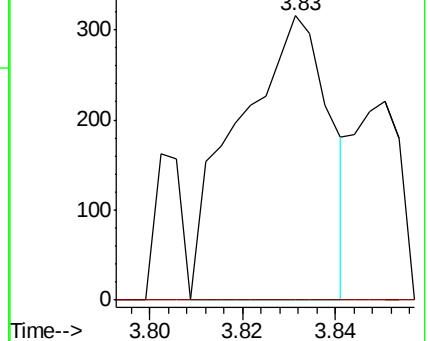
43 100

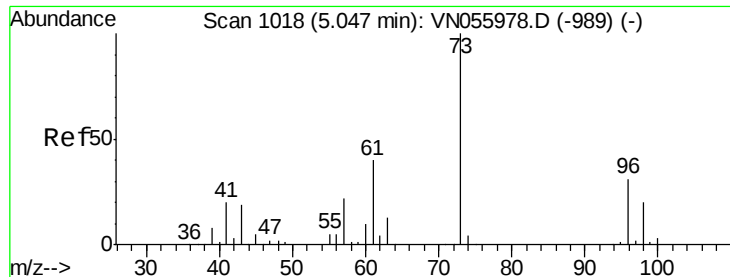
58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



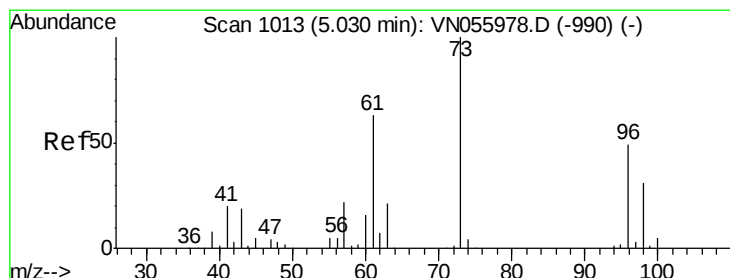
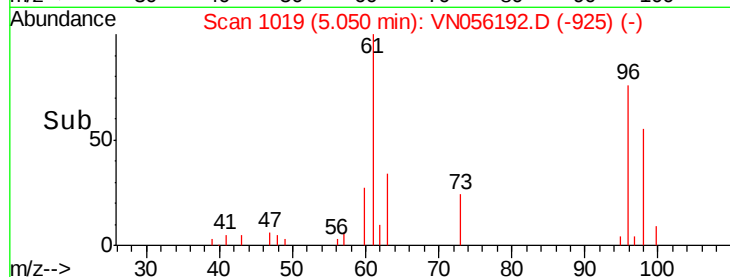
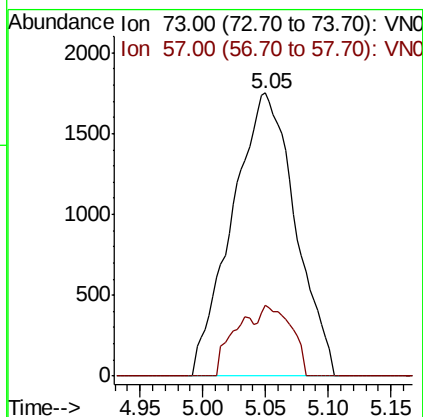
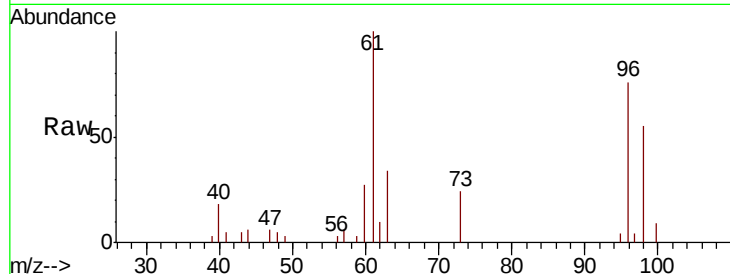


#19

Methvl tert-butvl Ether
 Concen: 0.743 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

Instrument :
 MSVOA_N
 ClientSampled :

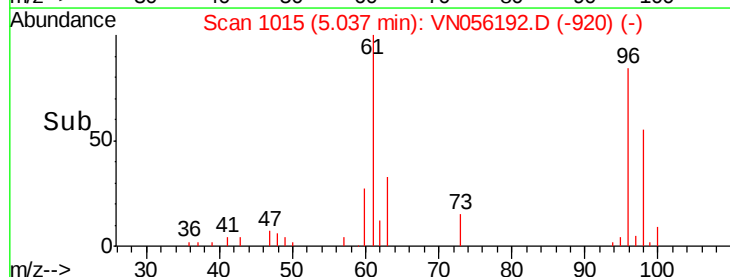
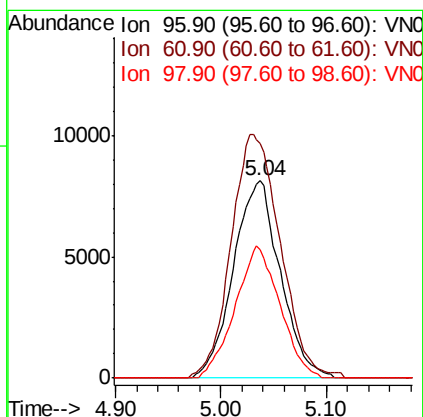
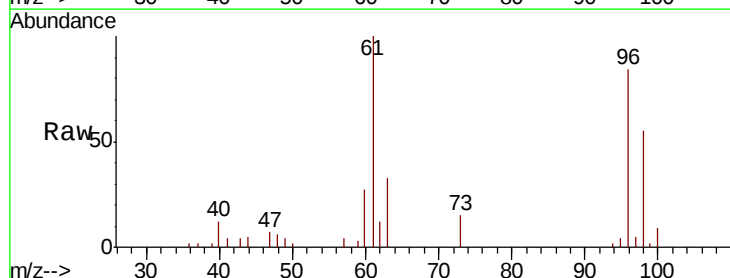
Tot Ion: 73 Resp: 6135
 Ion Ratio Lower Upper
 73 100
 57 24.9 17.8 26.8

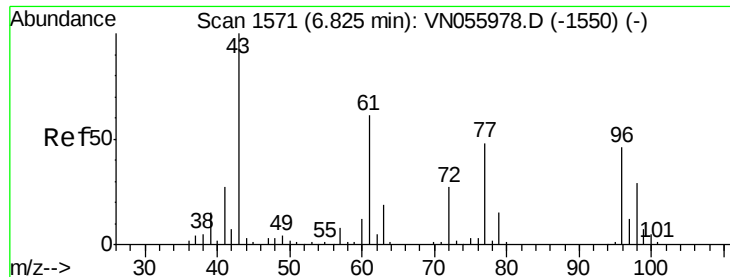


#21

trans-1,2-Dichloroethene
 Concen: 9.052 ug/l
 RT: 5.04 min Scan# 1015
 Delta R.T. 0.01 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

Tgt Ion: 96 Resp: 25132
 Ion Ratio Lower Upper
 96 100
 61 118.8 107.8 161.8
 98 64.9 49.8 74.8

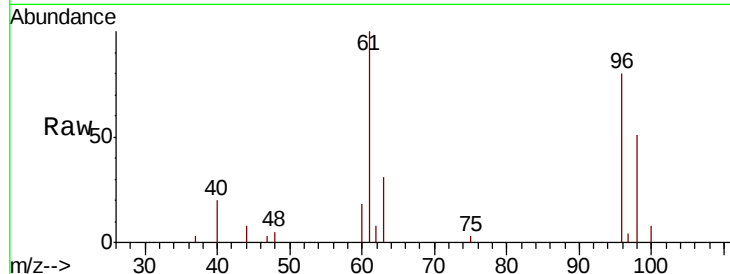




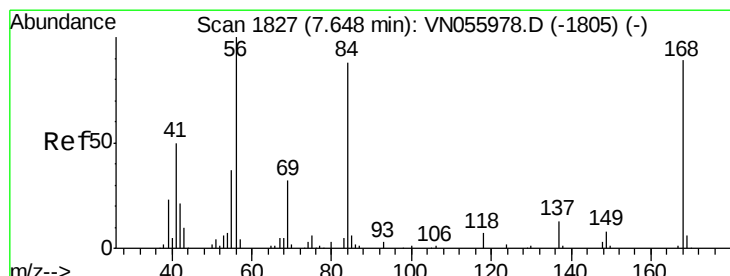
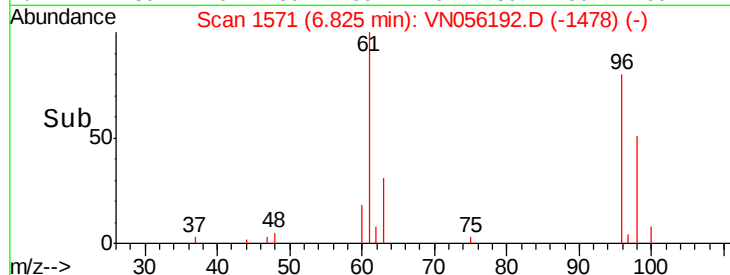
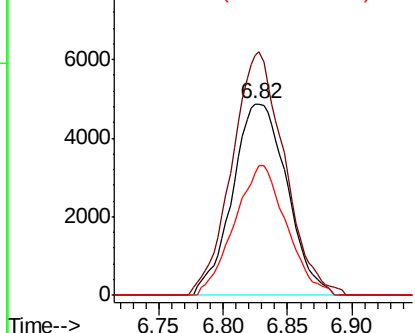
#27
 cis-1,2-Dichloroethene
 Concen: 4.390 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 96 Resp: 14329
 Ion Ratio Lower Upper
 96 100
 61 122.5 0.0 275.8
 98 64.6 0.0 128.4

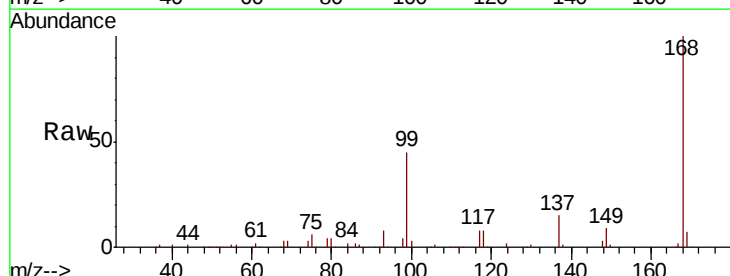


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

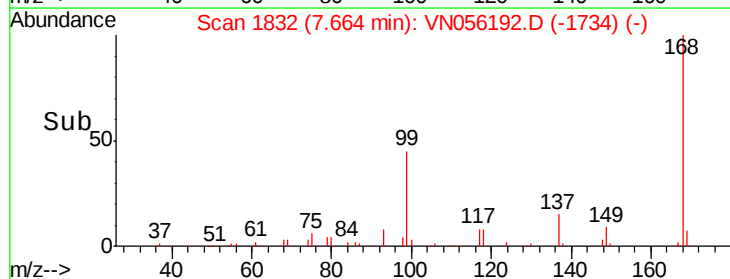
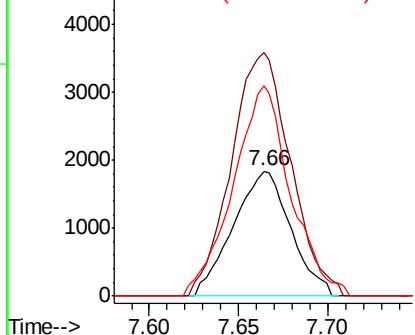


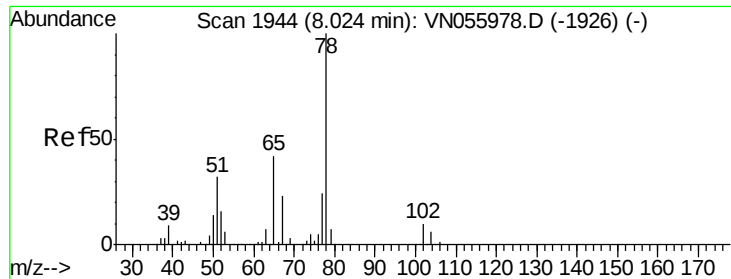
#31
 Cyclohexane
 Concen: 0.847 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. 0.02 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

Tgt Ion: 56 Resp: 4120
 Ion Ratio Lower Upper
 56 100
 69 195.0 25.6 38.4#
 84 159.8 67.4 101.0#



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

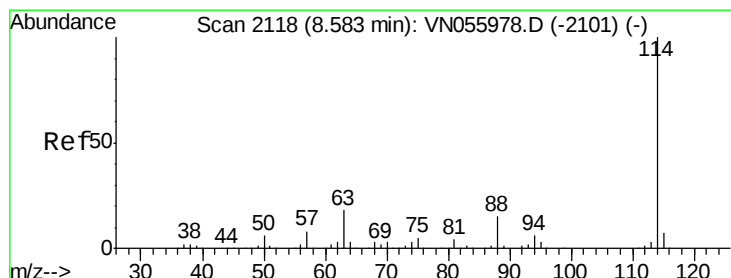
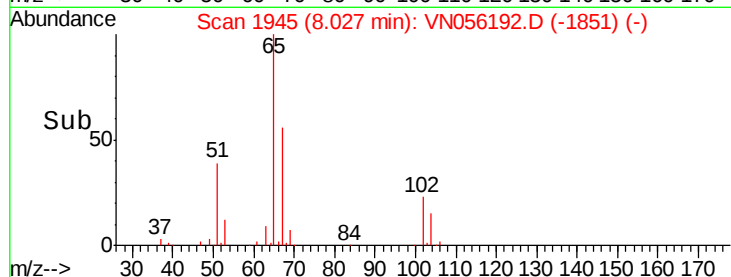
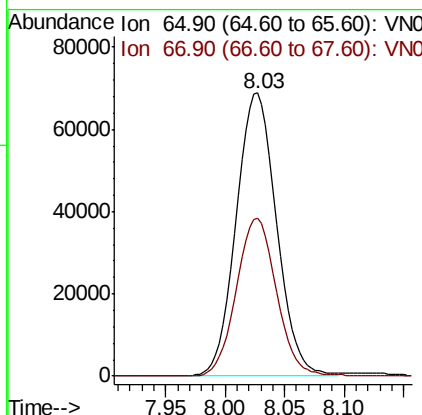
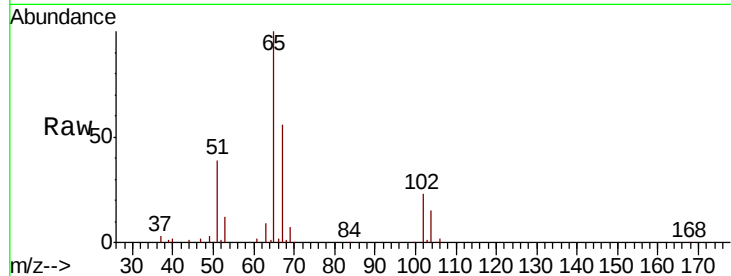




#33
 1,2-Dichloroethane-d4
 Concen: 52.933 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

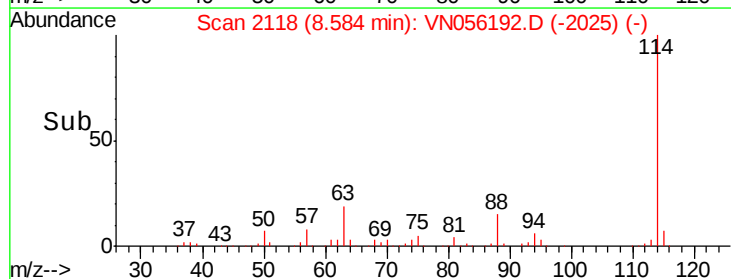
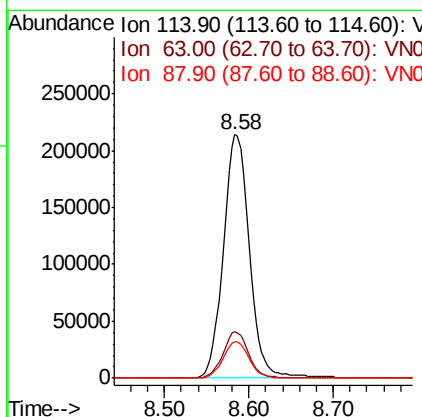
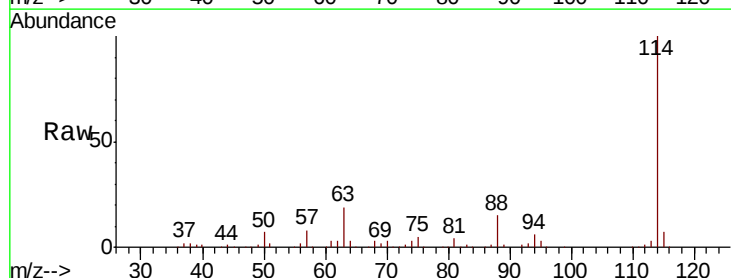
Instrument :
 MSVOA_N
 ClientSampleId :

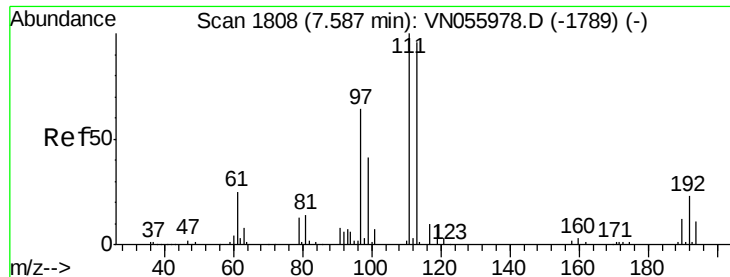
Tot Ion: 65 Resp: 162238
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

Tgt Ion: 114 Resp: 460247
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.2
 88 14.9 0.0 31.0





#35

Dibromofluoromethane

Concen: 54.073 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :
MSVOA_N
ClientSampleId :

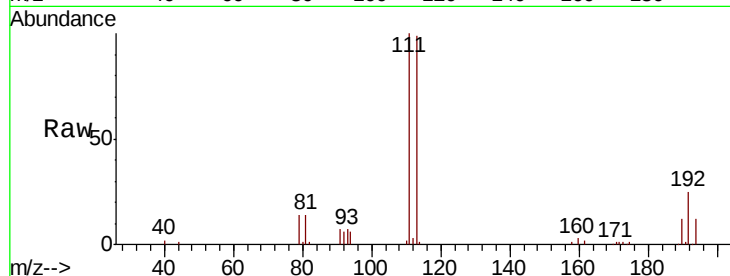
Tot Ion:113 Resp: 152690

Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.9	122.9
192	24.3	19.5	29.3

113 100

111 101.7 81.9 122.9

192 24.3 19.5 29.3

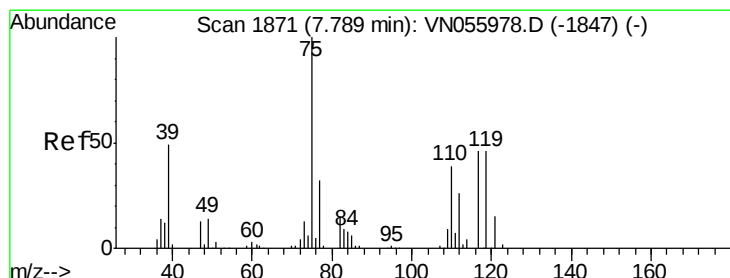
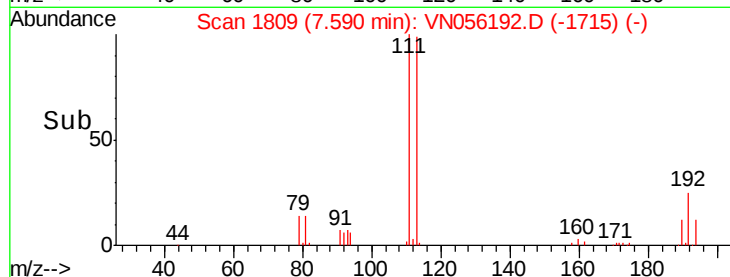
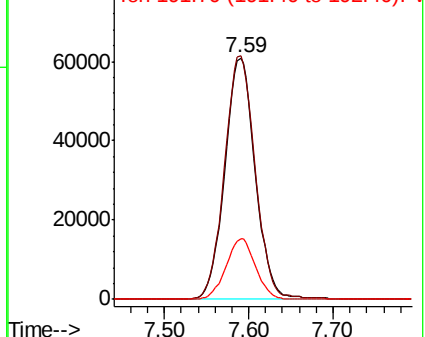


Abundance

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: 4.440 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

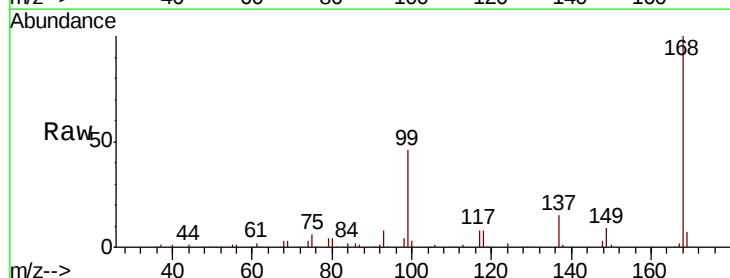
Tgt Ion: 75 Resp: 17573

Ion	Ratio	Lower	Upper
75	100		
110	4.7	19.0	57.0#
77	0.0	25.1	37.7#

75 100

110 4.7 19.0 57.0#

77 0.0 25.1 37.7#

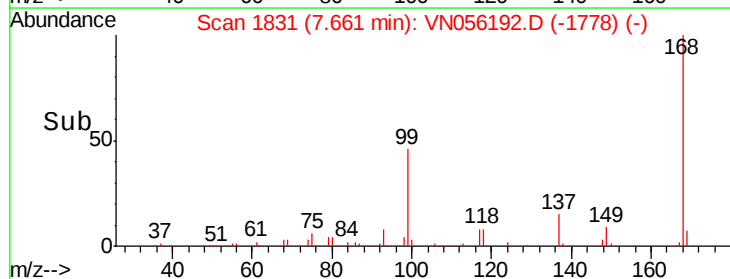
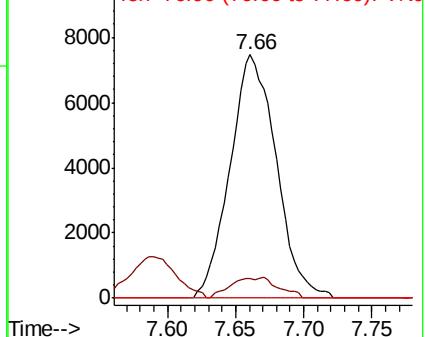


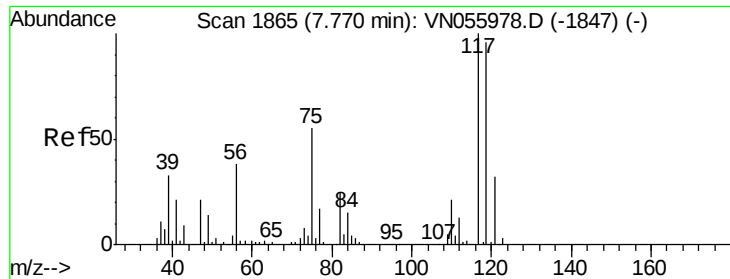
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.763 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampled :

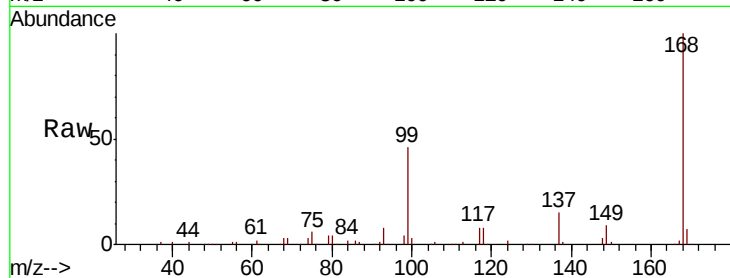
Tot Ion:117 Resp: 24675

Ion Ratio Lower Upper

117 100

119 5.3 79.0 118.6#

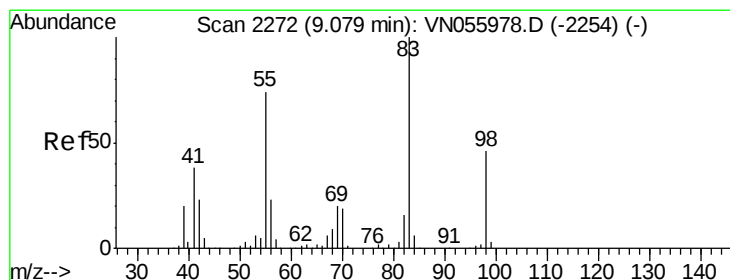
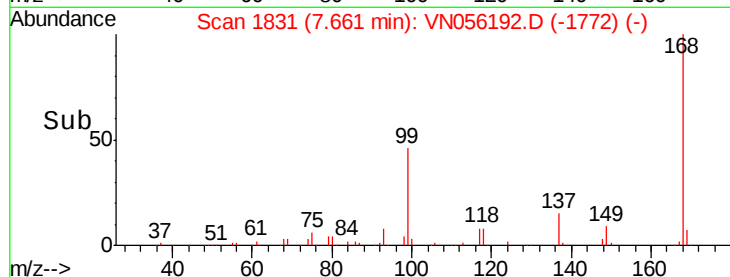
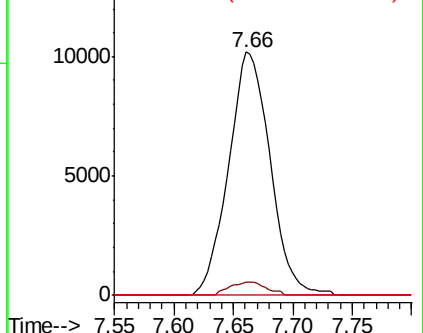
121 0.0 24.7 37.1#



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: 0.447 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

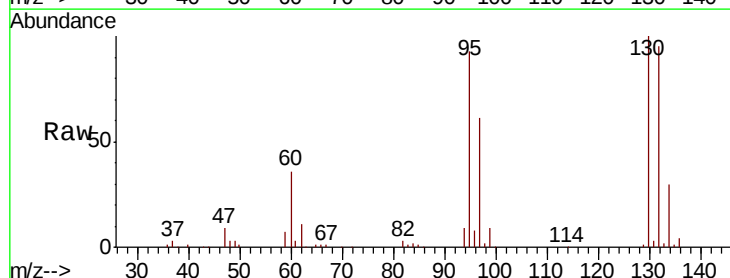
Tgt Ion: 83 Resp: 2203

Ion Ratio Lower Upper

83 100

55 0.0 59.3 88.9#

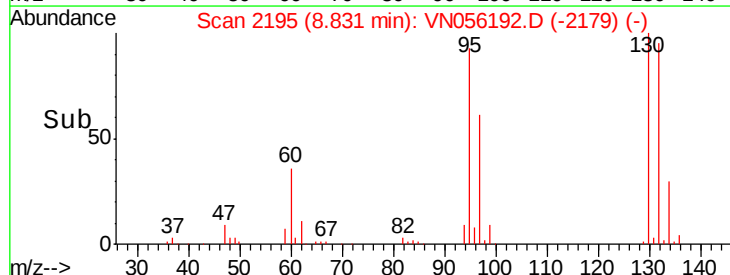
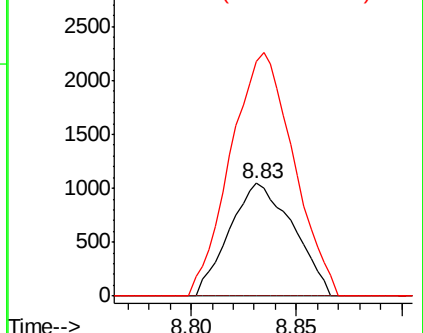
98 208.7 36.6 54.8#

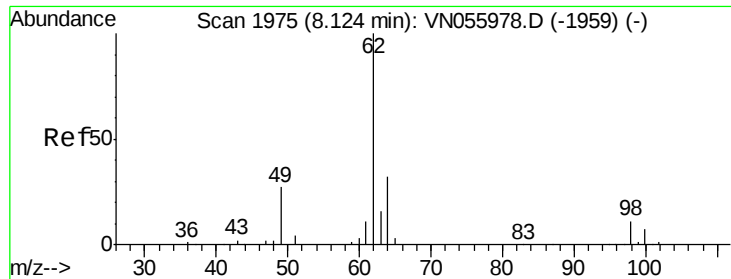


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#42

1,2-Dichloroethane

Concen: 5.631 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

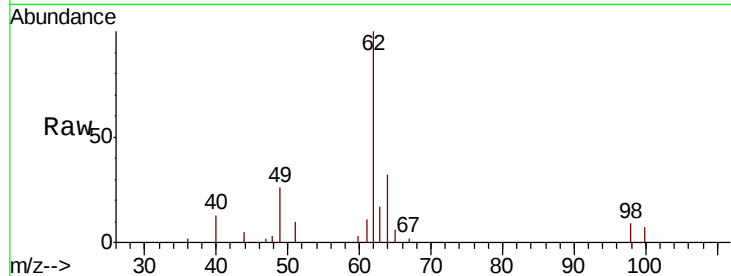
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 62 Resp: 21771

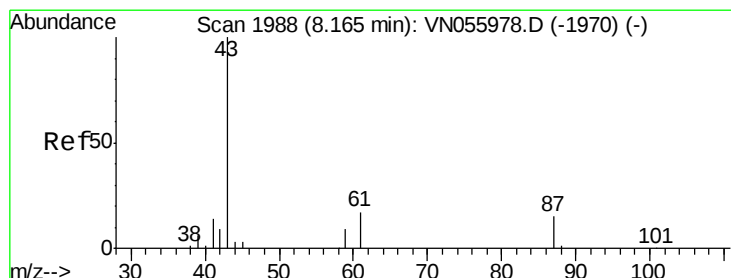
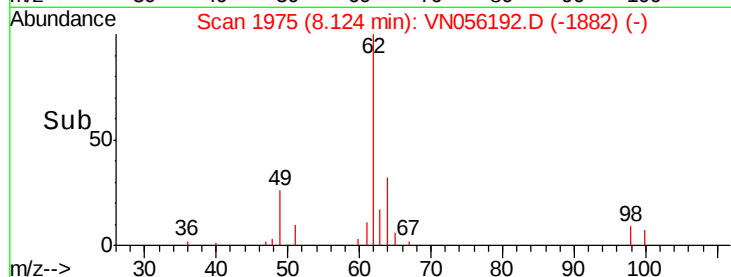
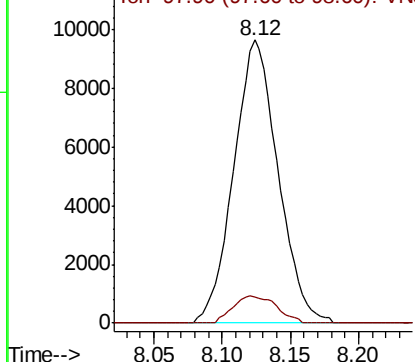
Ion Ratio Lower Upper

62 100

98 9.5 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#43

Isopropyl Acetate

Concen: 0.352 ug/l

RT: 8.32 min Scan# 2036

Delta R.T. 0.15 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

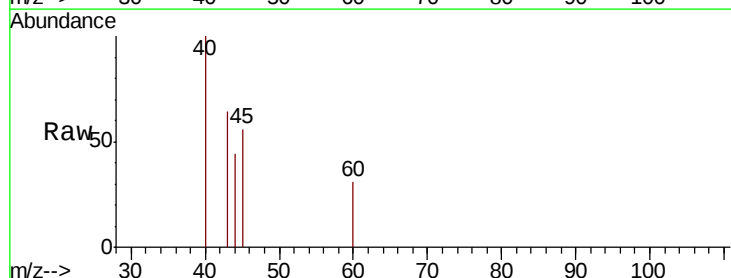
Tgt Ion: 43 Resp: 2009

Ion Ratio Lower Upper

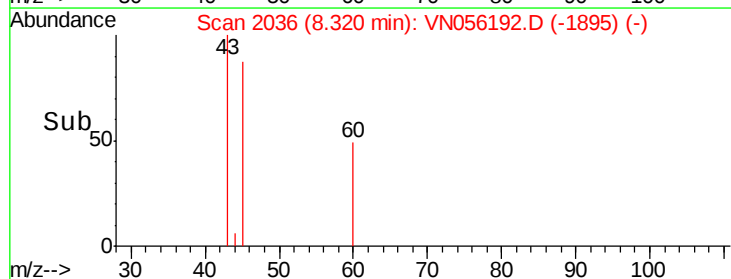
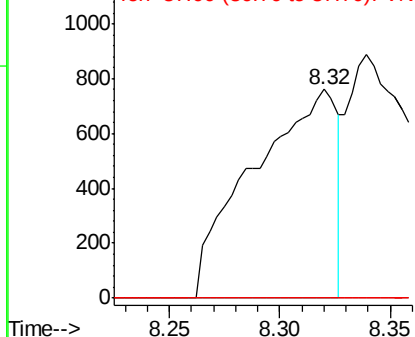
43 100

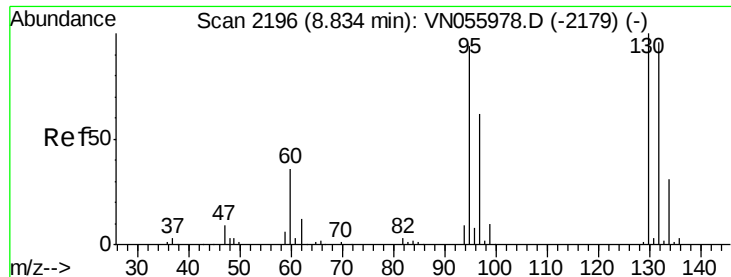
61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

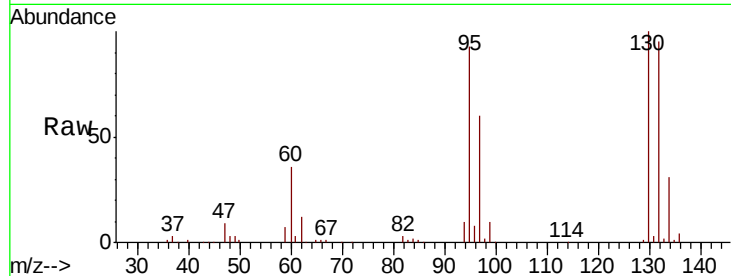




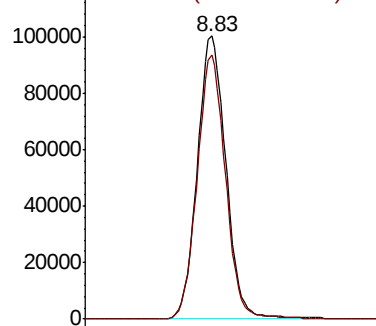
#44
 Trichloroethene
 Concen: 60.897 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

Instrument :
 MSVOA_N
 ClientSampled :

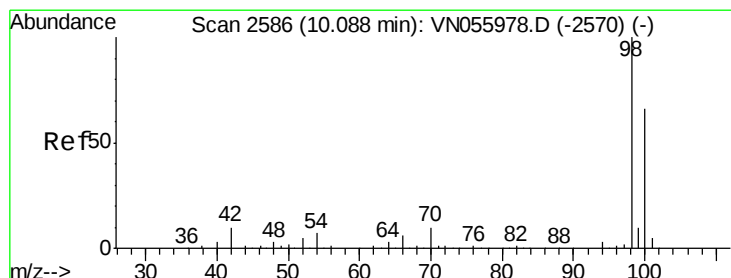
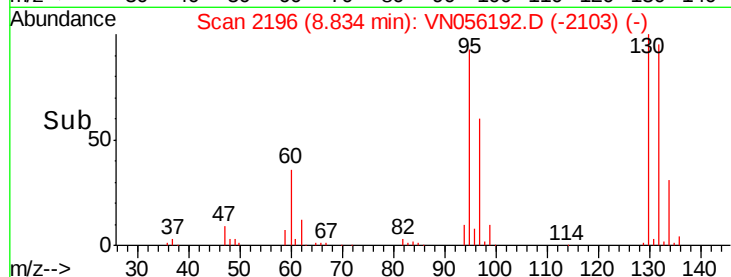
Tot Ion:130 Resp: 210331
 Ion Ratio Lower Upper
 130 100
 95 93.5 0.0 188.0



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

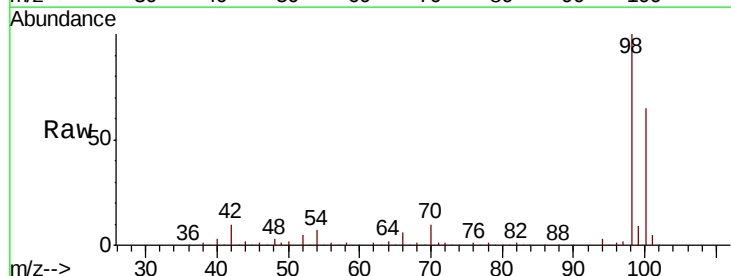


Time-->

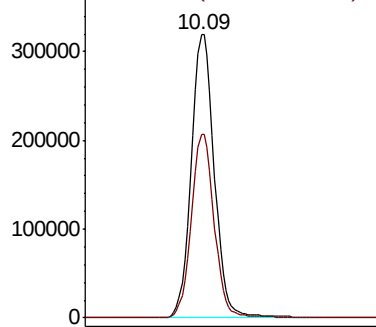


#50
 Toluene-d8
 Concen: 55.011 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

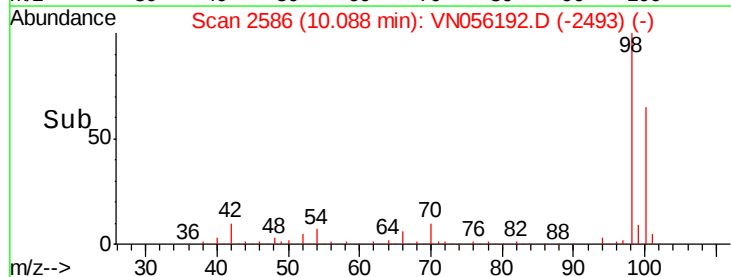
Tgt Ion: 98 Resp: 597743
 Ion Ratio Lower Upper
 98 100
 100 64.4 51.9 77.9

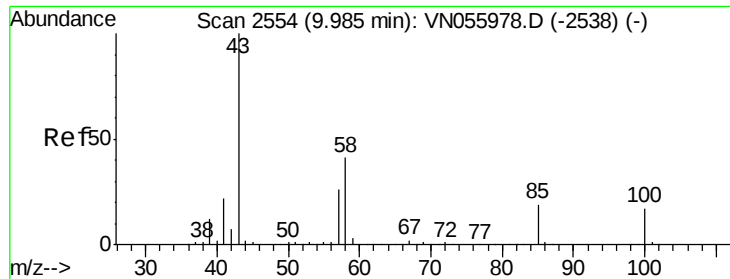


Abundance Ion 98.00 (97.70 to 98.70): VN
 Ion 100.00 (99.70 to 100.70): VN



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.634 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

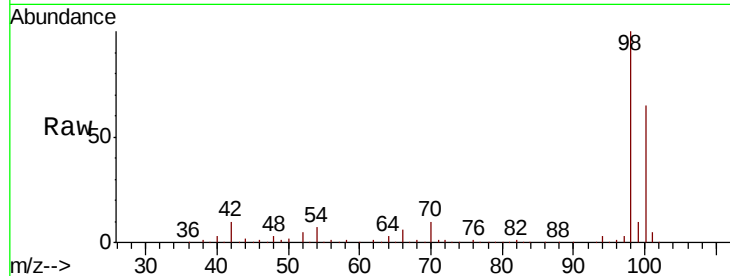
ClientSampleId :

Tot Ion: 43 Resp: 2261

Ion Ratio Lower Upper

43 100

58 177.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

2500

2000

1500

1000

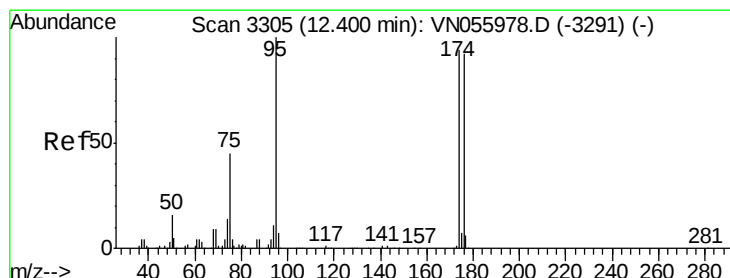
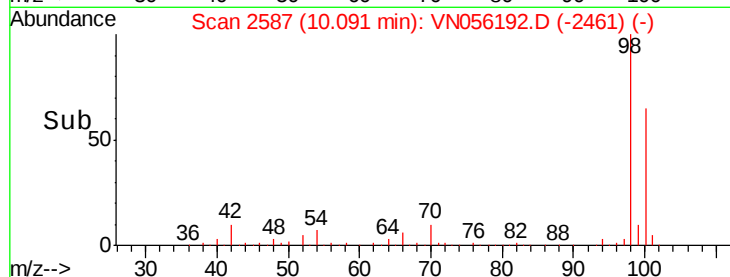
500

0

10.05

10.10

Time-->



#62

4-Bromofluorobenzene

Concen: 52.269 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

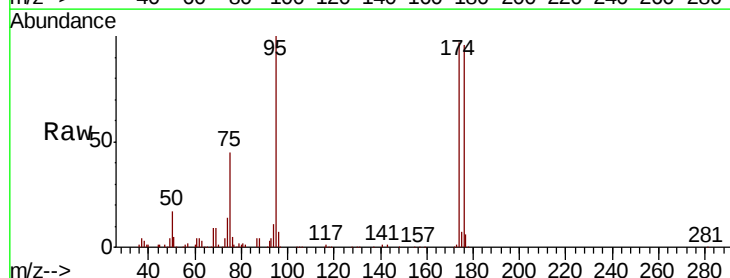
Tgt Ion: 95 Resp: 193147

Ion Ratio Lower Upper

95 100

174 97.9 0.0 191.0

176 95.7 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) (-)

150000

100000

50000

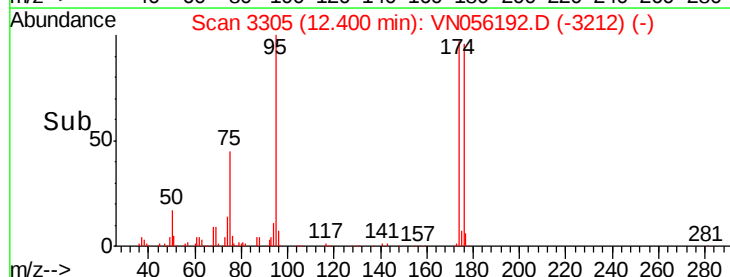
0

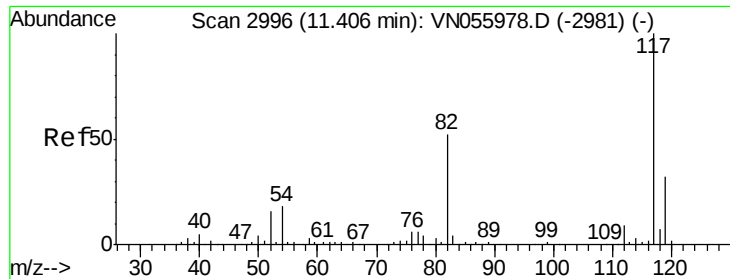
12.30

12.40

12.50

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

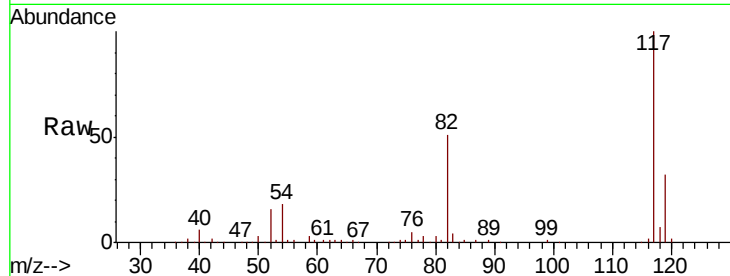
Tot Ion:117 Resp: 454590

Ion Ratio Lower Upper

117 100

82 50.9 41.8 62.8

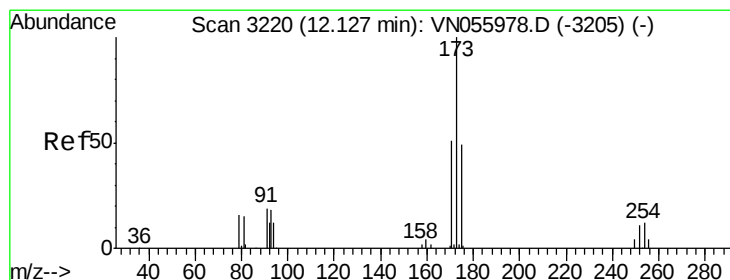
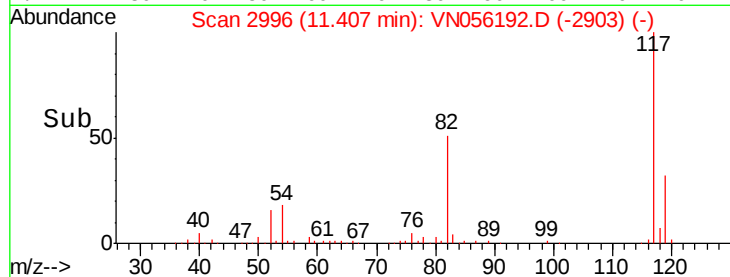
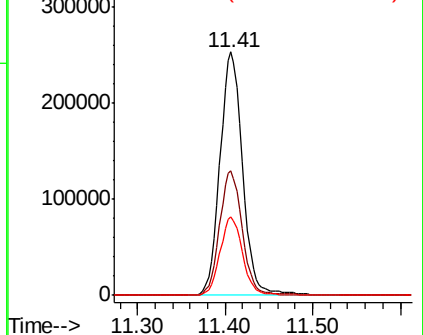
119 32.0 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.215 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

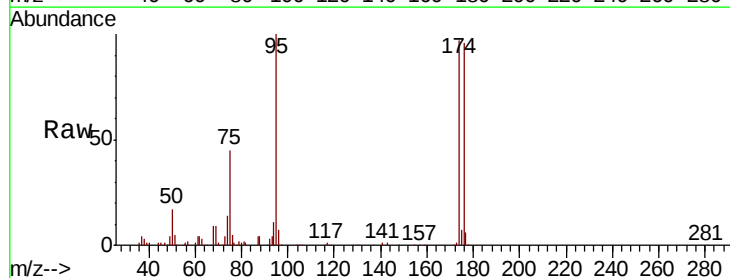
Tgt Ion:173 Resp: 1312

Ion Ratio Lower Upper

173 100

175 907.3 24.3 72.8#

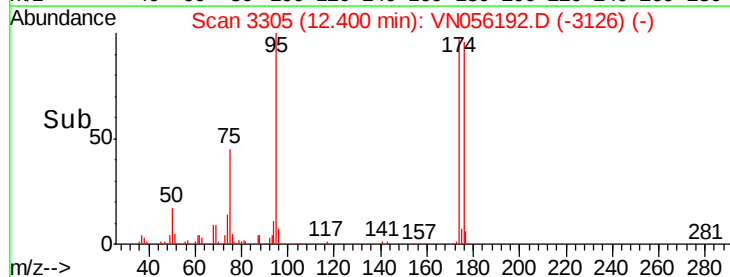
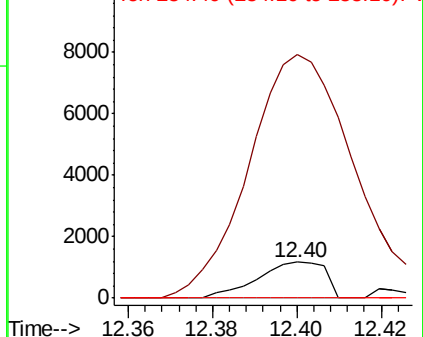
254 0.0 0.0 0.0

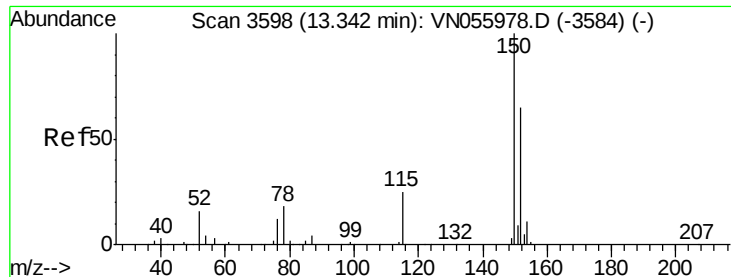


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



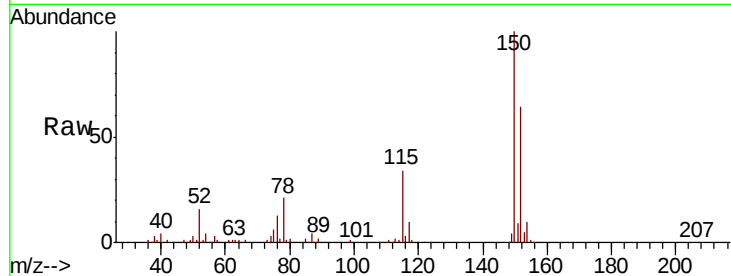


#72

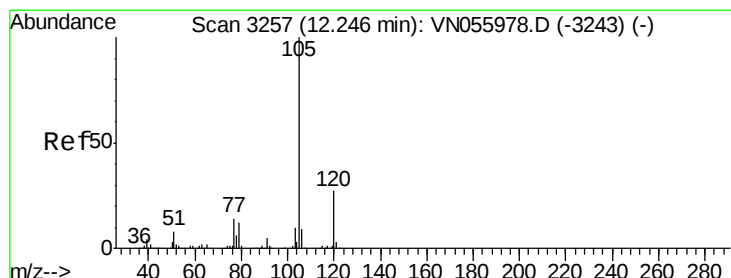
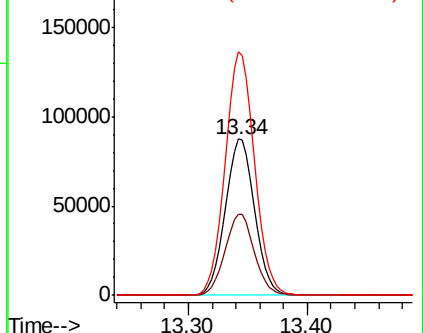
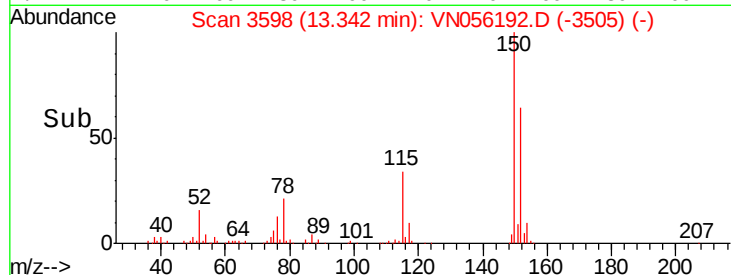
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056192.D
Acq: 11 Jun 2019 1:49

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	52.0	27.0	81.0
150	156.2	0.0	343.2



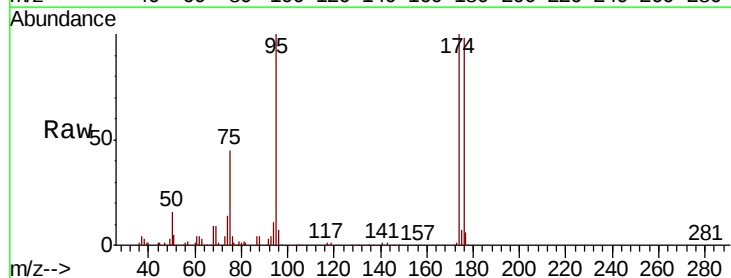
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



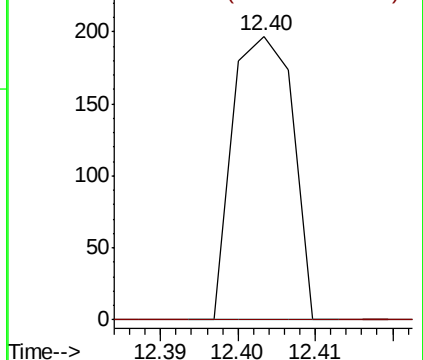
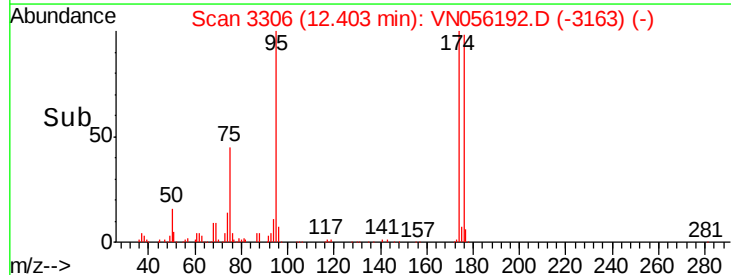
#73

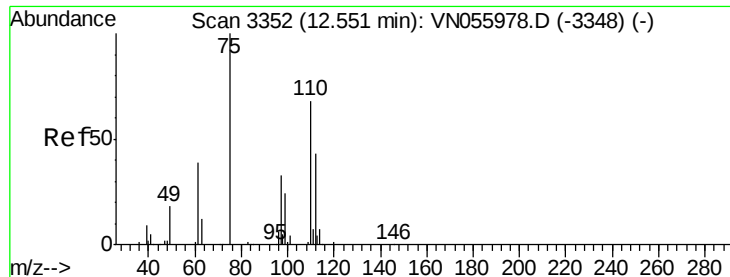
Isopropylbenzene
Concen: Below Cal
RT: 12.40 min Scan# 3306
Delta R.T. 0.16 min
Lab File: VN056192.D
Acq: 11 Jun 2019 1:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.6	40.7#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 32.445 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

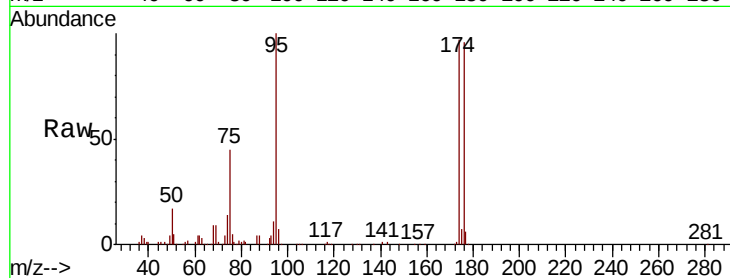
ClientSampleId :

Tot Ion: 75 Resp: 88967

Ion Ratio Lower Upper

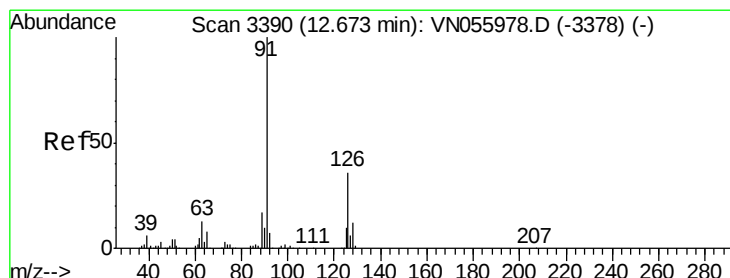
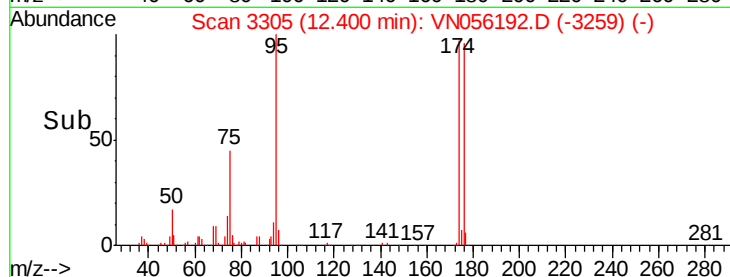
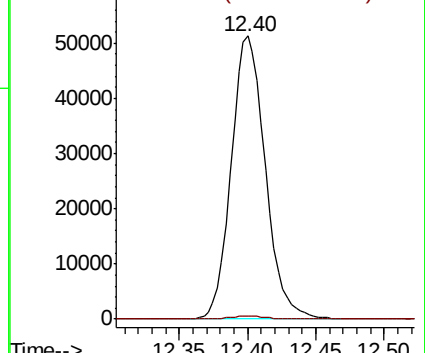
75 100

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: 12.40 min Scan# 3306

Delta R.T. -0.27 min

Lab File: VN056192.D

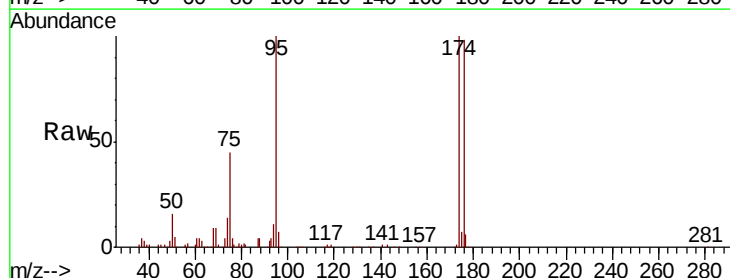
Acq: 11 Jun 2019 1:49

Tgt Ion: 91 Resp: 519

Ion Ratio Lower Upper

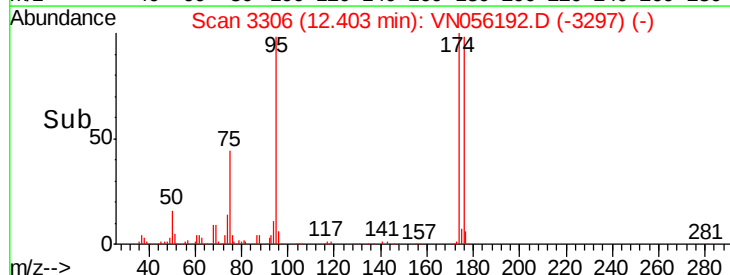
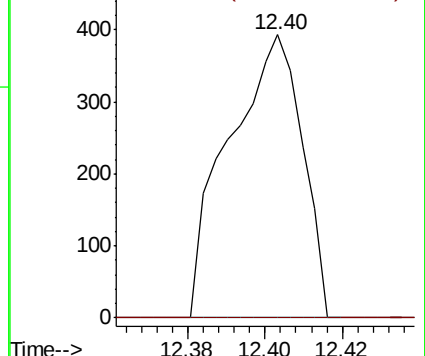
91 100

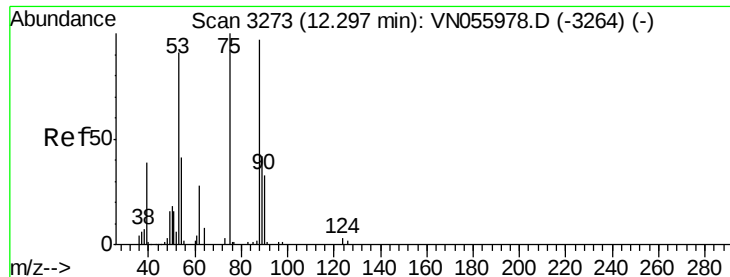
126 0.0 18.1 54.4#



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: 108.049 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

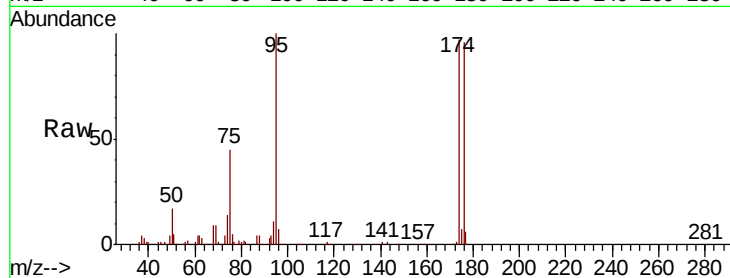
Tot Ion: 75 Resp: 88967

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

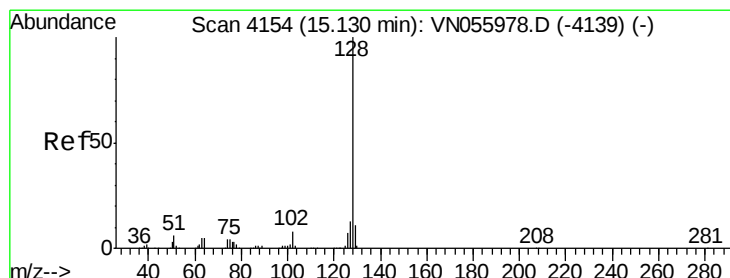
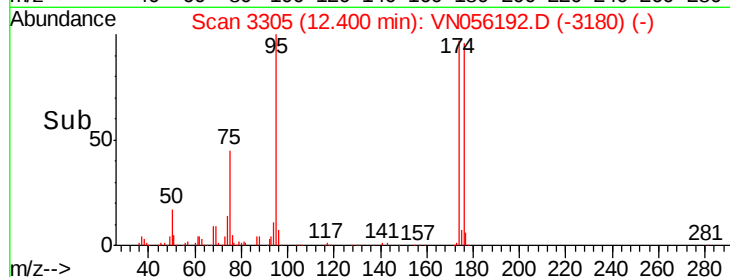
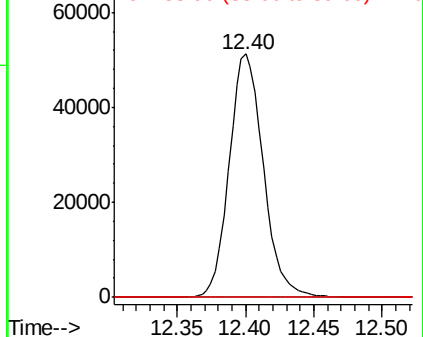
89 0.0 36.9 55.3#



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: 4.539 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

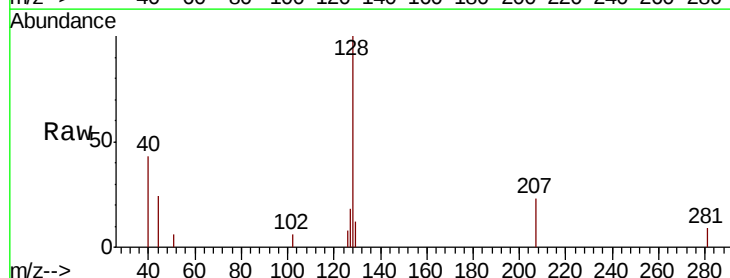
Tgt Ion:128 Resp: 5314

Ion Ratio Lower Upper

128 100

127 13.8 10.3 15.5

129 8.3 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

