

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060519\
 Data File : VN055996.D
 Acq On : 5 Jun 2019 9:30
 Operator : JC/SP
 Sample : VN0605WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 06 01:18:40 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

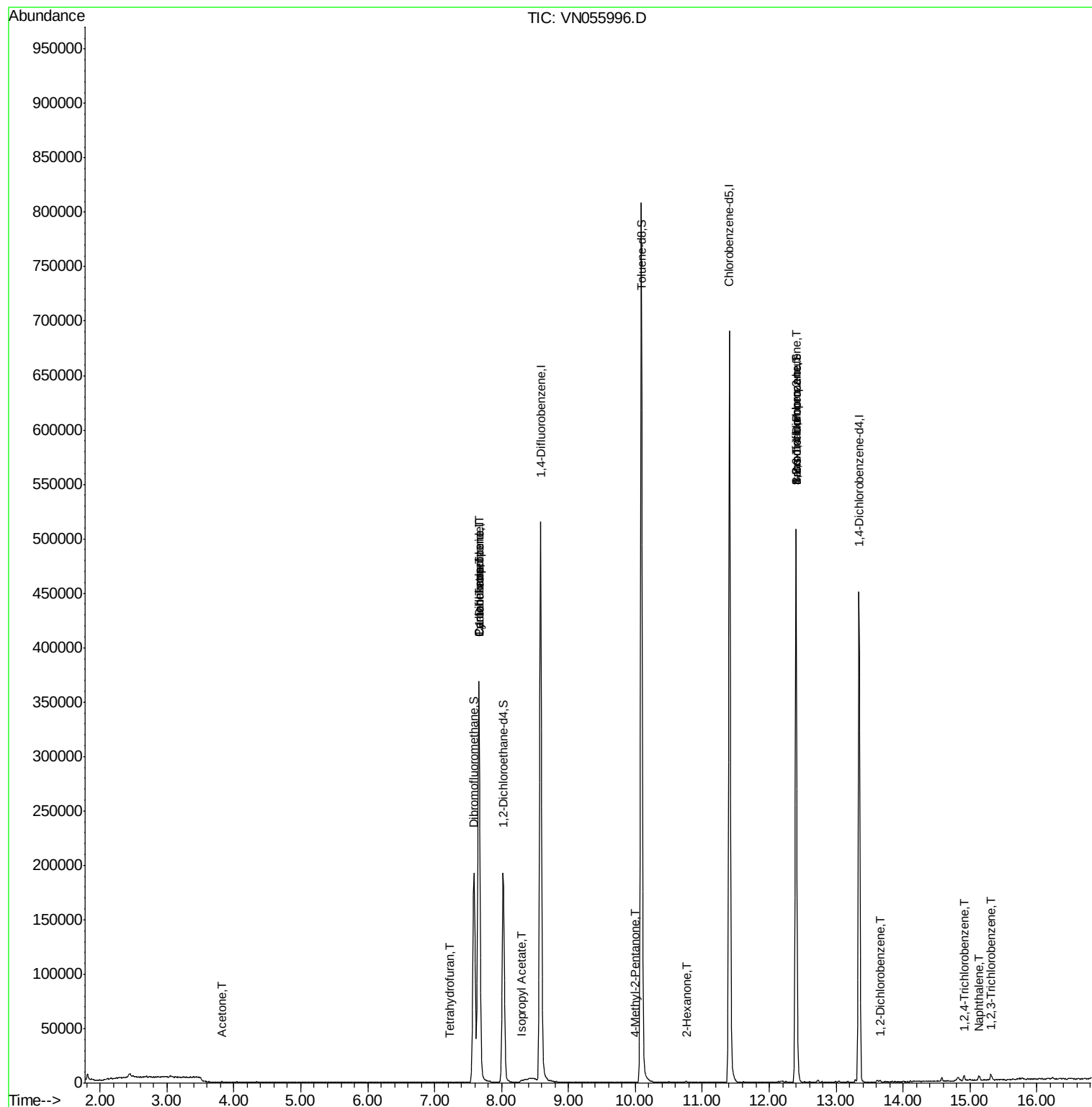
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	350049	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	519753	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	458430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141074	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	162791	46.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.68%	
35) Dibromofluoromethane	7.59	113	150694	47.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.52%	
50) Toluene-d8	10.09	98	613074	49.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.92%	
62) 4-Bromofluorobenzene	12.40	95	180516	43.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.52%	
Target Compounds				Qvalue		
16) Acetone	3.83	43	935	0.562	ug/l #	41
18) Methyl Acetate	4.32	43	344	Below Cal	#	51
29) Tetrahydrofuran	7.22	42	280	0.216	ug/l #	32
31) Cyclohexane	7.66	56	4958	0.899	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19851	4.442	ug/l #	47
38) Carbon Tetrachloride	7.66	117	28261	6.859	ug/l #	15
43) Isopropyl Acetate	8.30	43	1611	0.250	ug/l #	53
51) 4-Methyl-2-Pentanone	9.98	43	857	0.213	ug/l #	35
59) 2-Hexanone	10.76	43	1318	0.451	ug/l	62
71) Bromoform	12.40	173	1347	3.223	ug/l #	1
73) Isopropylbenzene	12.25	105	493	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	81218	31.288	ug/l #	100
79) 2-Chlorotoluene	12.67	91	501	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	81218	104.195	ug/l #	15
83) tert-Butylbenzene	12.99	119	597	Below Cal	#	78
91) 1,2-Dichlorobenzene	13.65	146	1068	0.226	ug/l	91
93) 1,2,4-Trichlorobenzene	14.91	180	1958	4.958	ug/l	95
94) Hexachlorobutadiene	15.01	225	250	Below Cal	#	35
95) Naphthalene	15.13	128	5202	4.563	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.31	180	2648	3.970	ug/l	97

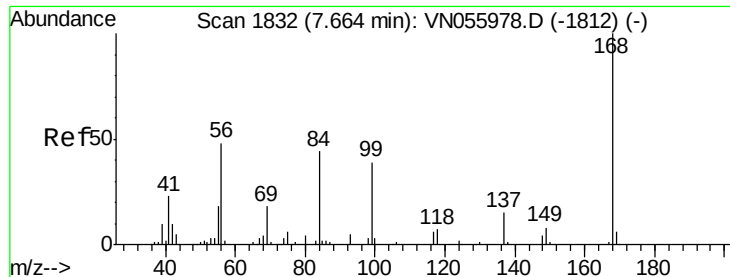
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 04 11:02:09 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

Instrument :

MSVOA_N

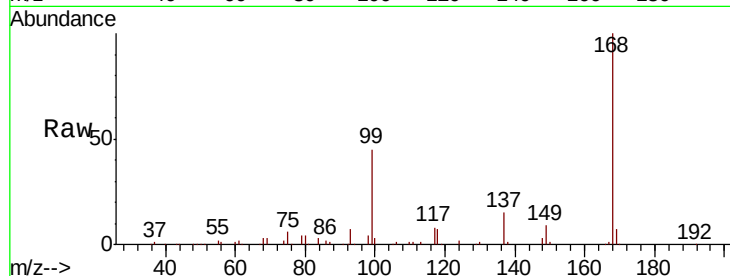
ClientSampleId :

Tot Ion:168 Resp: 350049

Ion Ratio Lower Upper

168 100

99 45.3 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

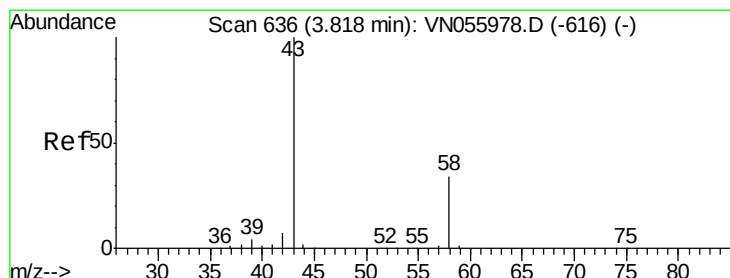
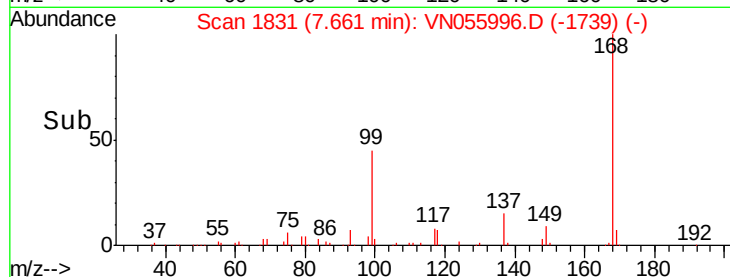
100000

50000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 0.562 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN055996.D

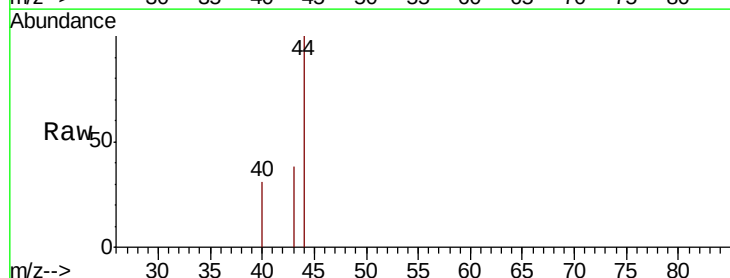
Acq: 5 Jun 2019 9:30

Tgt Ion: 43 Resp: 935

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

300

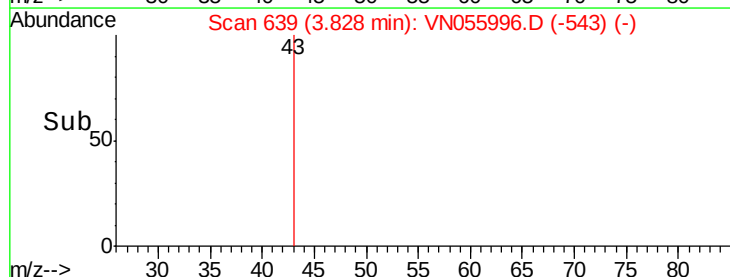
200

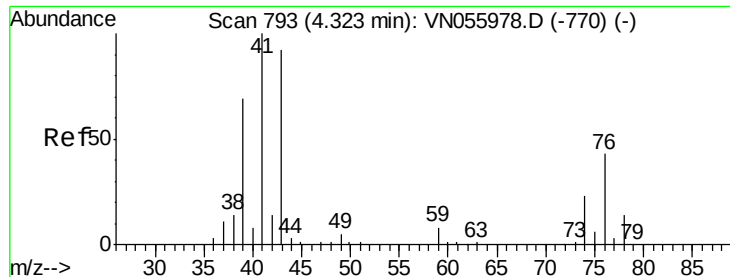
100

0

3.75 3.80 3.85

Time-->

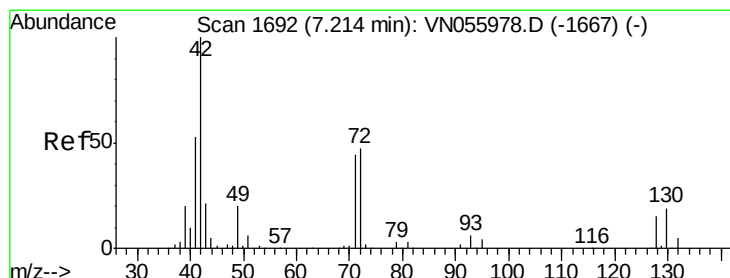
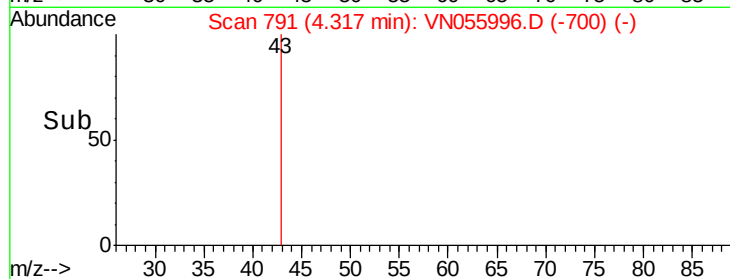
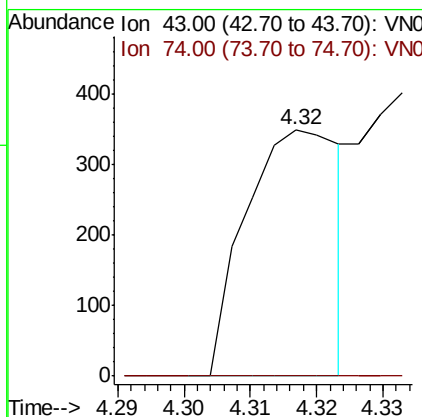
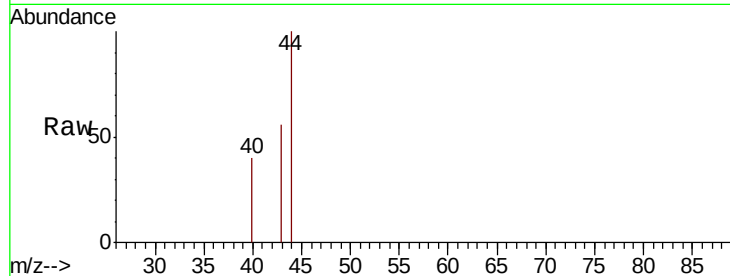




#18
Methyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 791
Delta R.T. -0.01 min
Lab File: VN055996.D
Acq: 5 Jun 2019 9:30

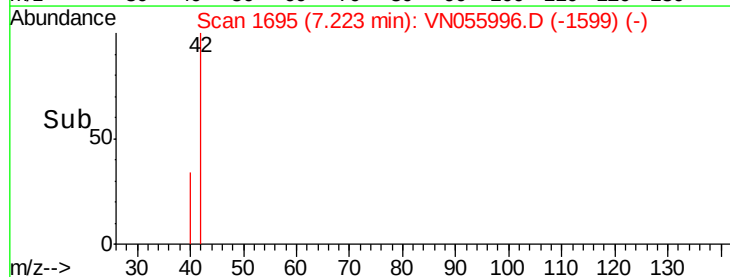
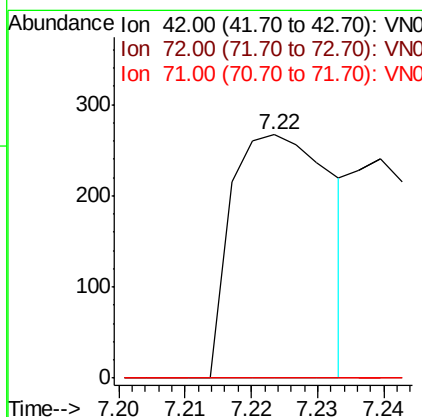
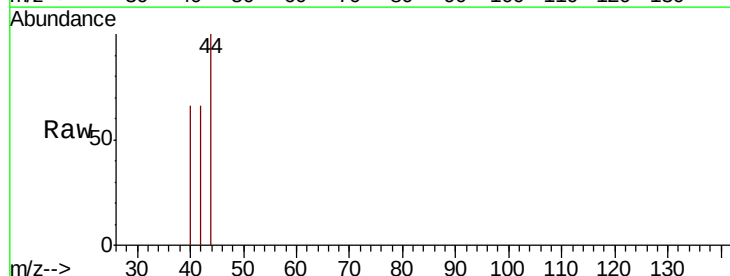
Instrument :
MSVOA_N
ClientSampled :

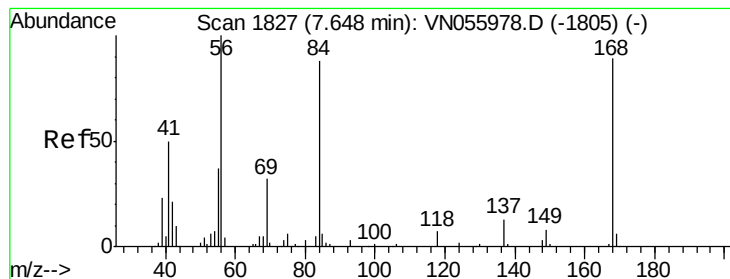
Tot Ion: 43 Resp: 344
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.216 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN055996.D
Acq: 5 Jun 2019 9:30

Tgt Ion: 42 Resp: 280
Ion Ratio Lower Upper
42 100
72 0.0 35.9 53.9#
71 0.0 34.0 51.0#





#31

Cyclohexane

Concen: 0.899 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

Instrument :

MSVOA_N

ClientSampled :

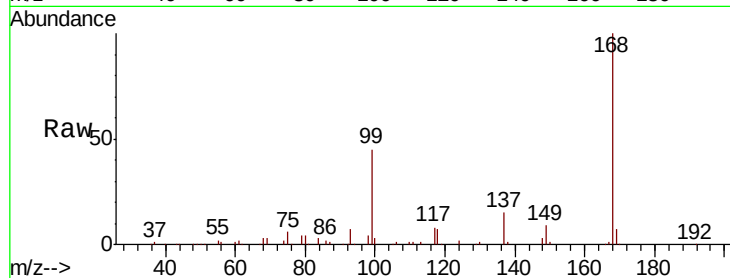
Tot Ion: 56 Resp: 4958

Ion Ratio Lower Upper

56 100

69 181.3 25.6 38.4#

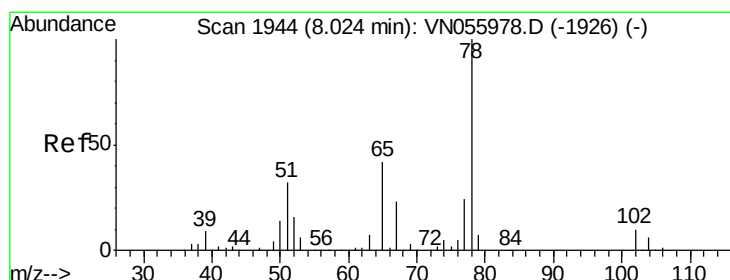
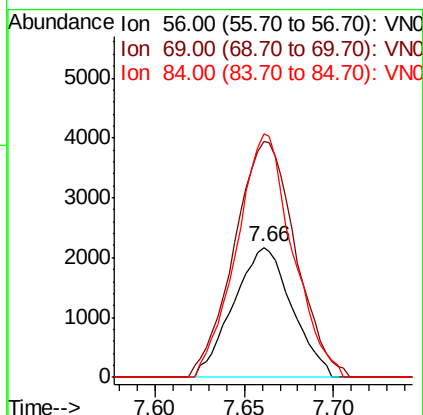
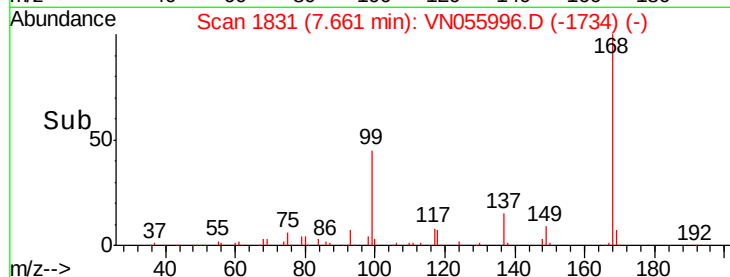
84 187.4 67.4 101.0#



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: 46.837 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN055996.D

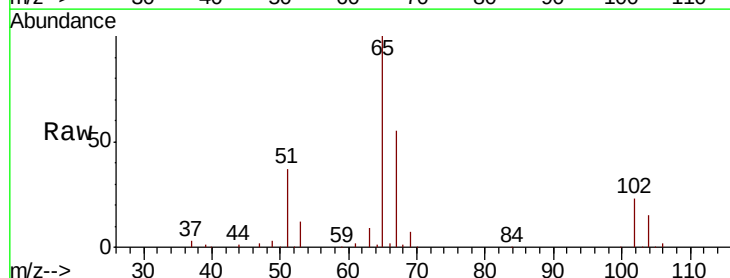
Acq: 5 Jun 2019 9:30

Tgt Ion: 65 Resp: 162791

Ion Ratio Lower Upper

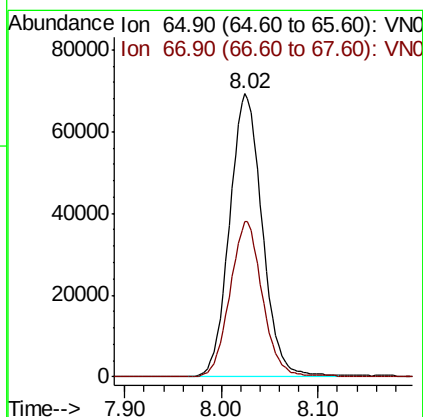
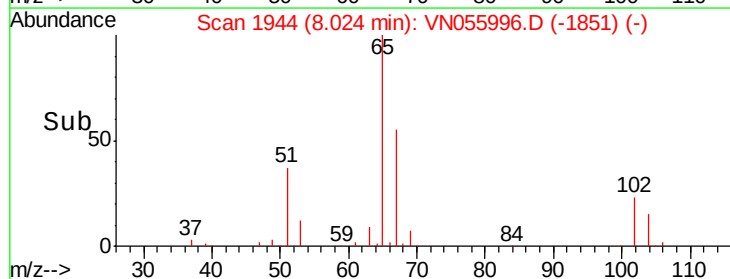
65 100

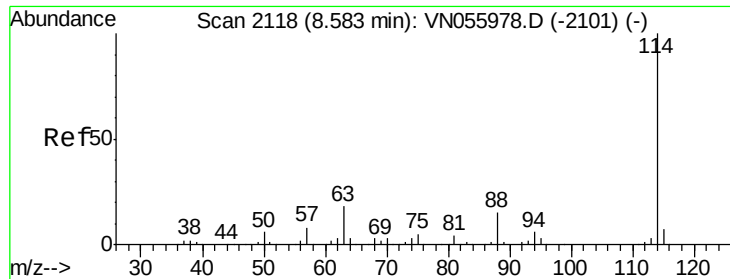
67 54.1 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

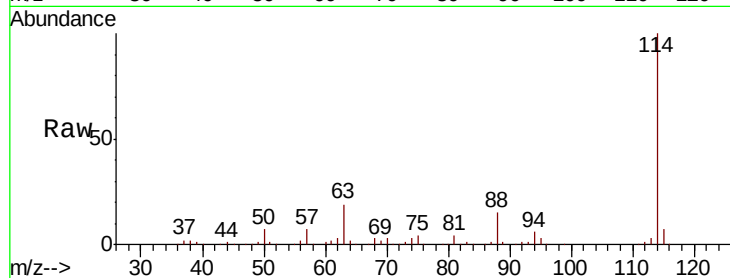




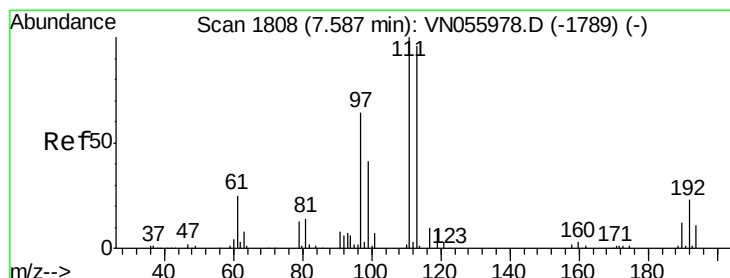
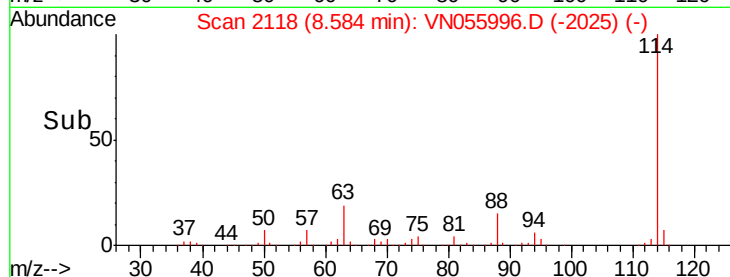
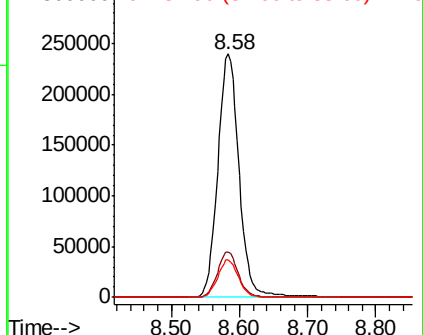
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN055996.D
Acq: 5 Jun 2019 9:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 519753
Ion Ratio Lower Upper
114 100
63 18.7 0.0 39.2
88 15.3 0.0 31.0

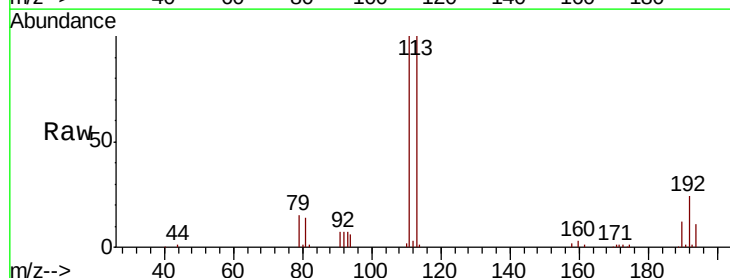


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

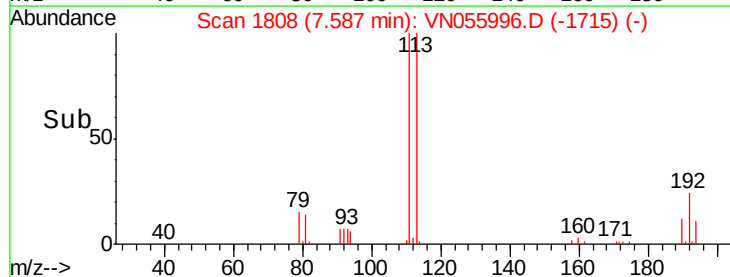
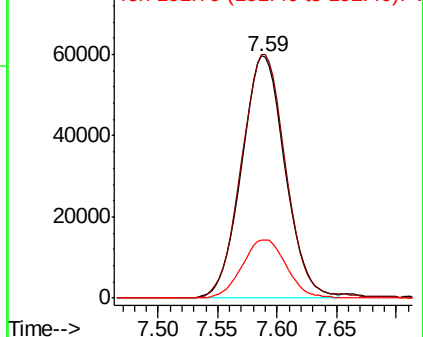


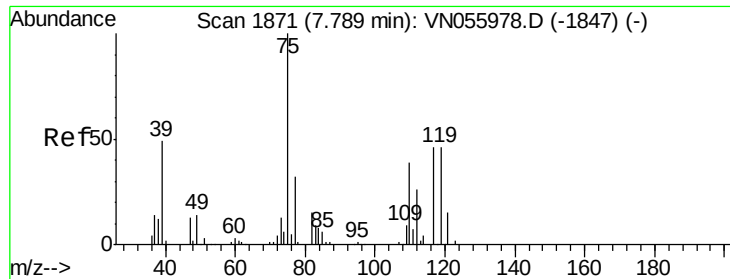
#35
Dibromofluoromethane
Concen: 47.256 ug/l
RT: 7.59 min Scan# 1808
Delta R.T. 0.00 min
Lab File: VN055996.D
Acq: 5 Jun 2019 9:30

Tgt Ion:113 Resp: 150694
Ion Ratio Lower Upper
113 100
111 102.5 81.9 122.9
192 24.7 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: 4.442 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

Instrument :

MSVOA_N

ClientSampled :

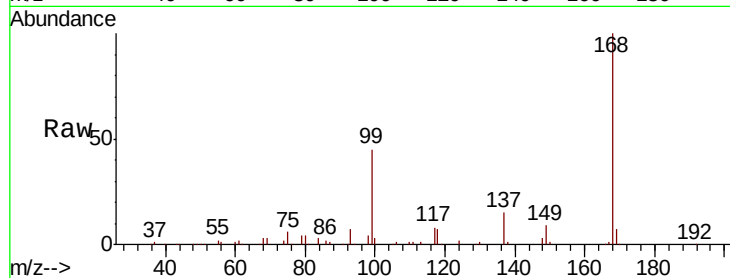
Tot Ion: 75 Resp: 19851

Ion Ratio Lower Upper

75 100

110 8.3 19.0 57.0#

77 0.0 25.1 37.7#



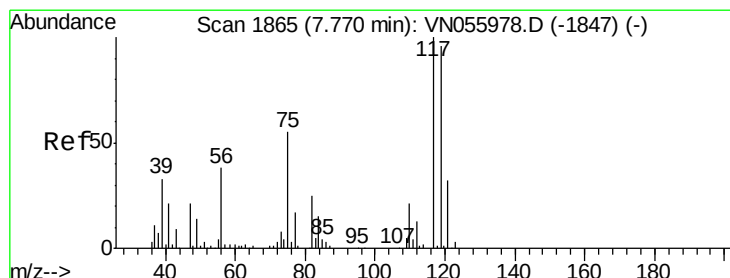
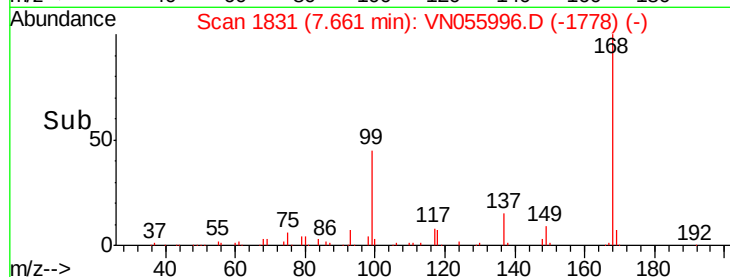
Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-1847) (-)

Ion 109.90 (109.60 to 110.60): VN055978.D (-1847) (-)

Ion 76.90 (76.60 to 77.60): VN055978.D (-1847) (-)

7.66

Time-->



#38

Carbon Tetrachloride

Concen: 6.859 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

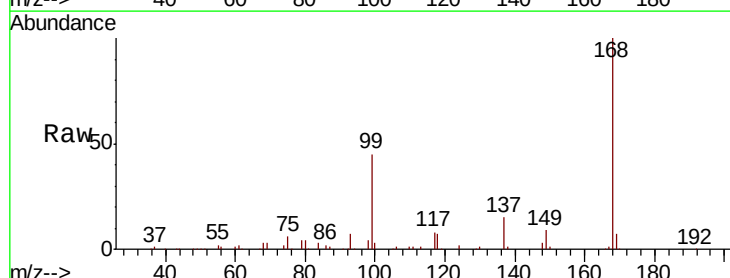
Tgt Ion: 117 Resp: 28261

Ion Ratio Lower Upper

117 100

119 6.0 79.0 118.6#

121 0.0 24.7 37.1#



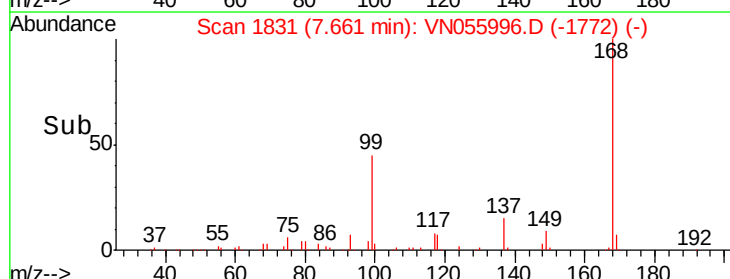
Abundance Ion 116.80 (116.50 to 117.50): VN055978.D (-1847) (-)

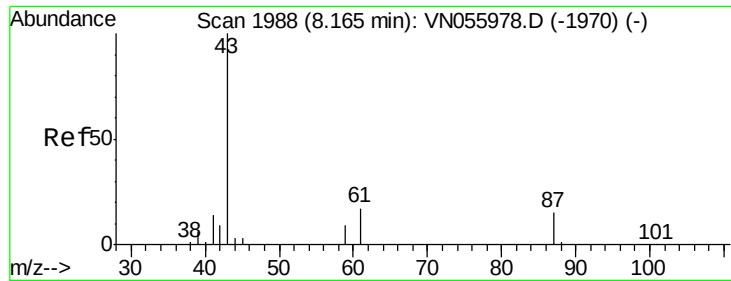
Ion 118.80 (118.50 to 119.50): VN055978.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN055978.D (-1847) (-)

7.66

Time-->





#43

Isopropyl Acetate

Concen: 0.250 ug/l

RT: 8.30 min Scan# 2030

Delta R.T. 0.14 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

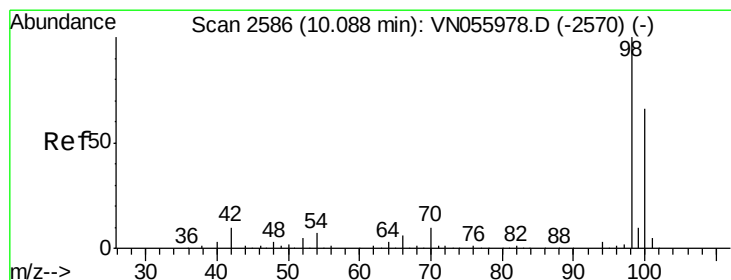
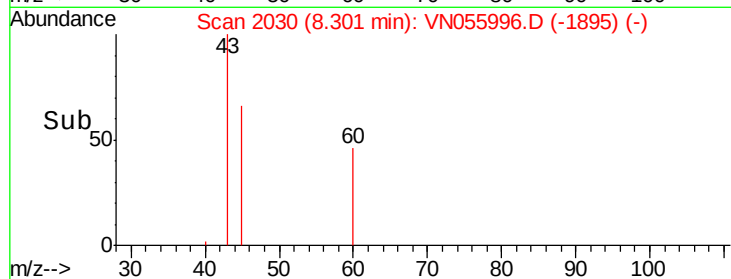
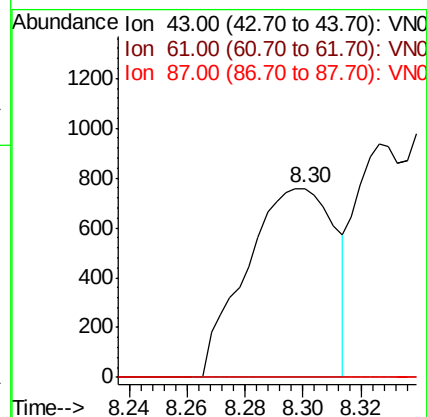
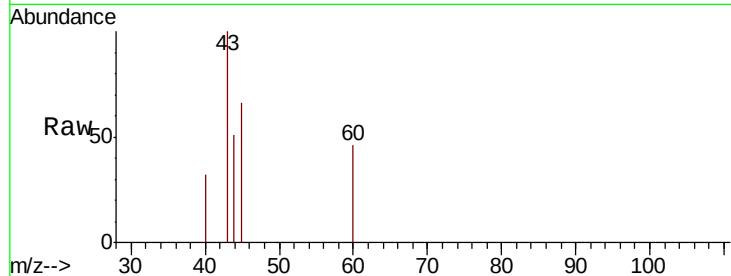
Tot Ion: 43 Resp: 1611

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#50

Toluene-d8

Concen: 49.962 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN055996.D

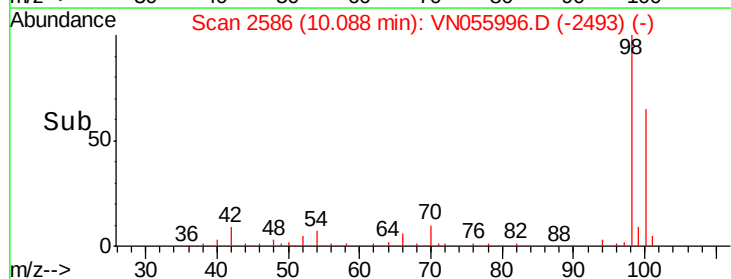
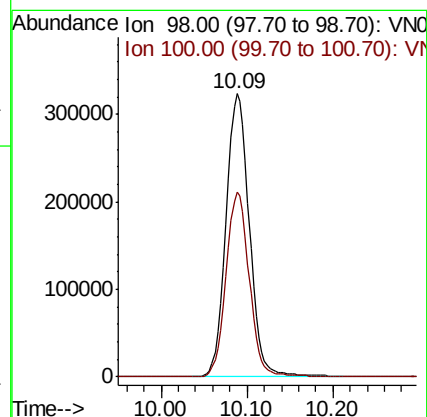
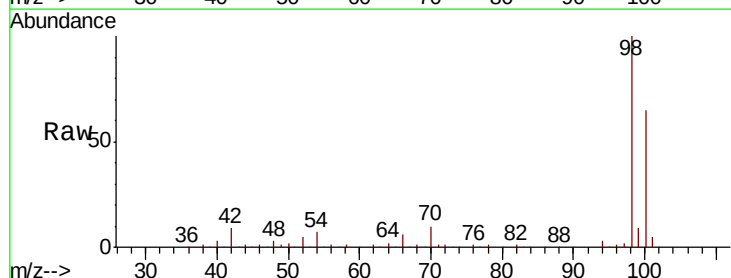
Acq: 5 Jun 2019 9:30

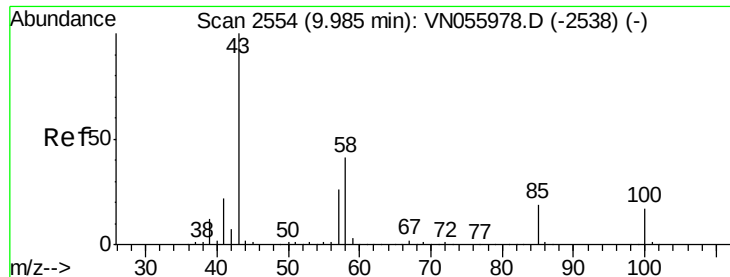
Tgt Ion: 98 Resp: 613074

Ion Ratio Lower Upper

98 100

100 64.7 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 0.213 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

Instrument :

MSVOA_N

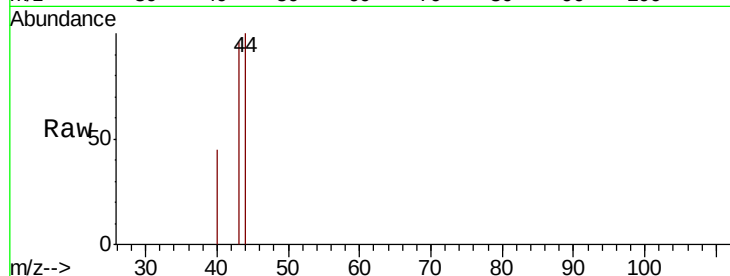
ClientSampled :

Tot Ion: 43 Resp: 857

Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

400

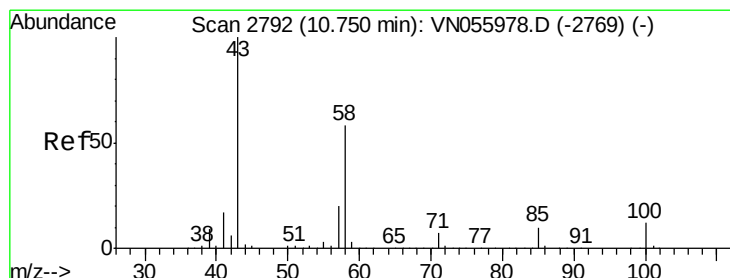
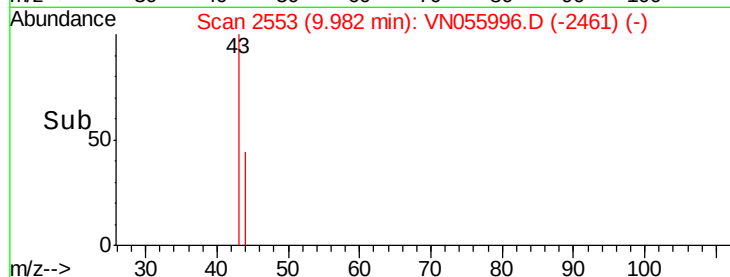
300

200

100

0

Time-->



#59

2-Hexanone

Concen: 0.451 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN055996.D

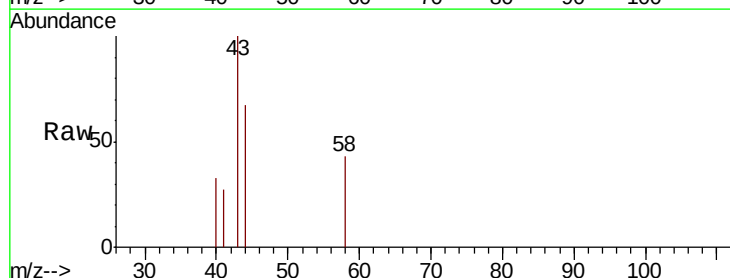
Acq: 5 Jun 2019 9:30

Tgt Ion: 43 Resp: 1318

Ion Ratio Lower Upper

43 100

58 28.8 28.2 84.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

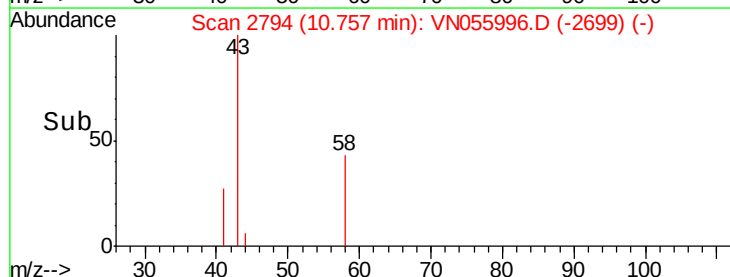
600

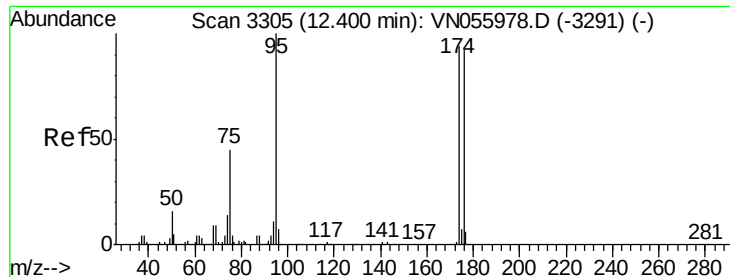
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 43.258 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

Instrument :

MSVOA_N

ClientSampled :

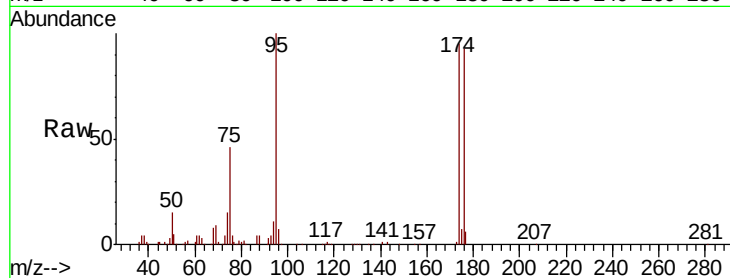
Tot Ion: 95 Resp: 180516

Ion Ratio Lower Upper

95 100

174 95.8 0.0 191.0

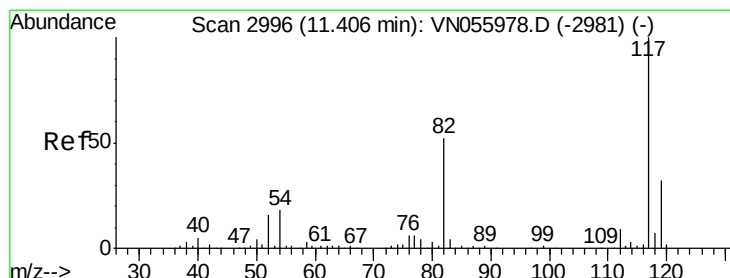
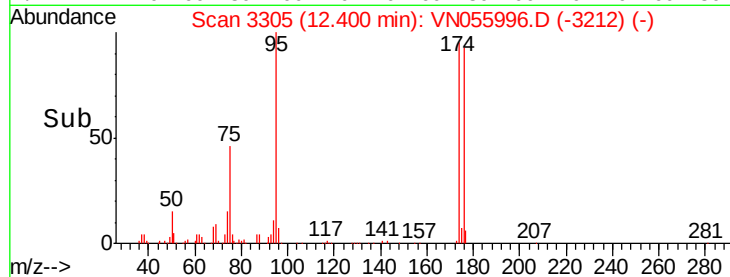
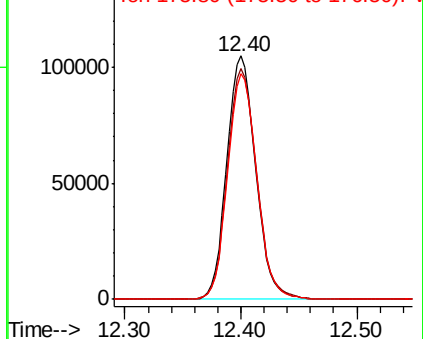
176 93.4 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055996.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN055996.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN055996.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

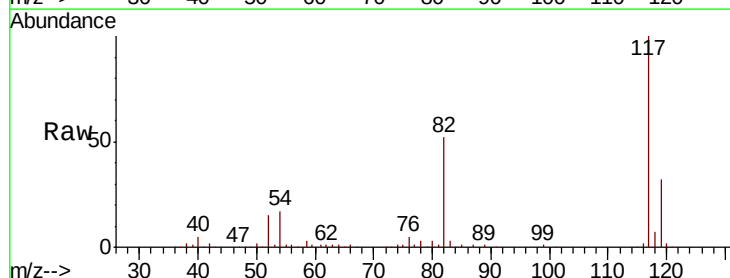
Tgt Ion: 117 Resp: 458430

Ion Ratio Lower Upper

117 100

82 51.8 41.8 62.8

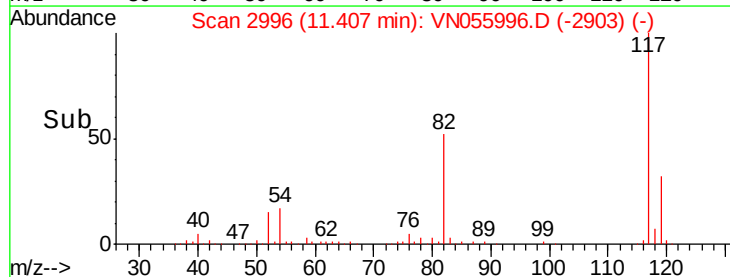
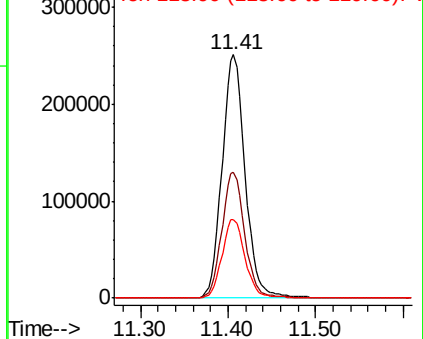
119 32.4 25.4 38.0

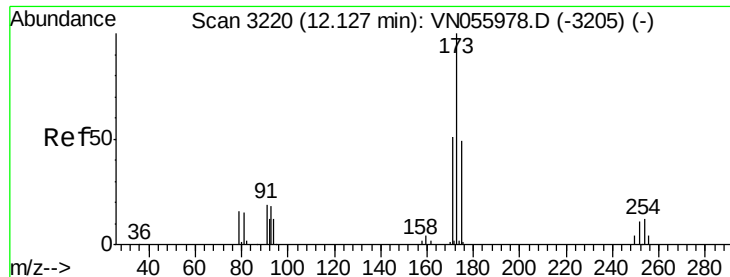


Abundance Ion 116.90 (116.60 to 117.60): VN055996.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN055996.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN055996.D (-2903) (-)

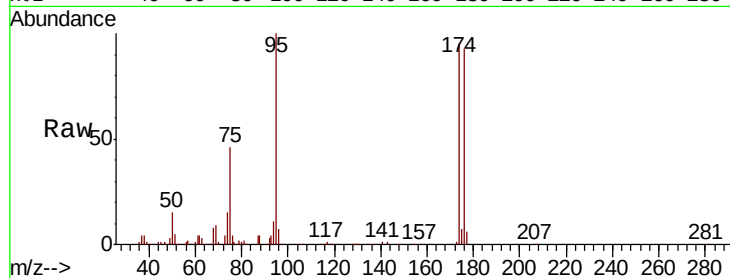




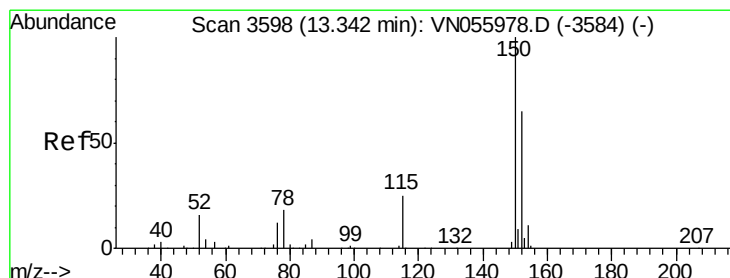
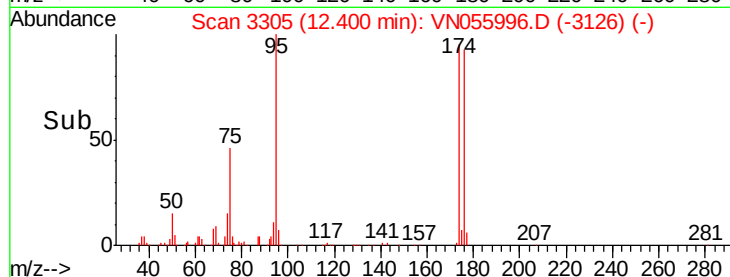
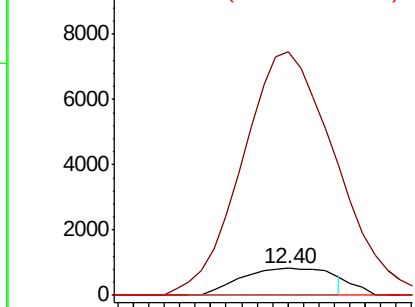
#71
Bromoform
Concen: 3.223 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055996.D
Acq: 5 Jun 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 1347
Ion Ratio Lower Upper
173 100
175 822.6 24.3 72.8#
254 0.0 0.0 0.0

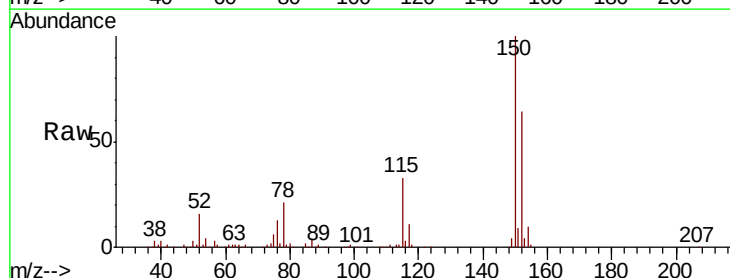


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

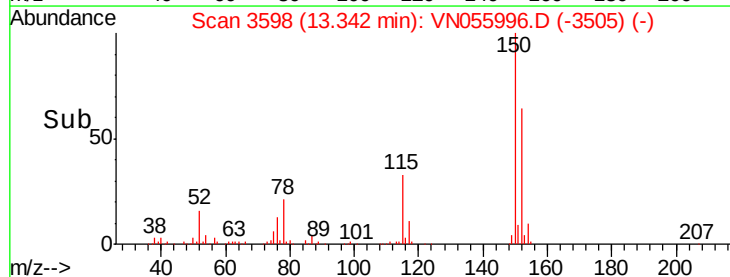
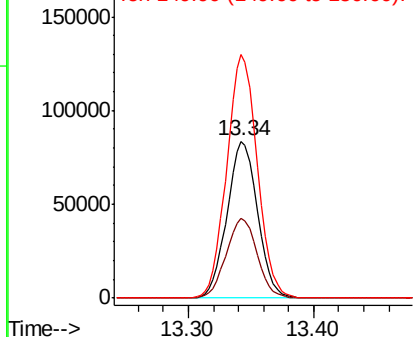


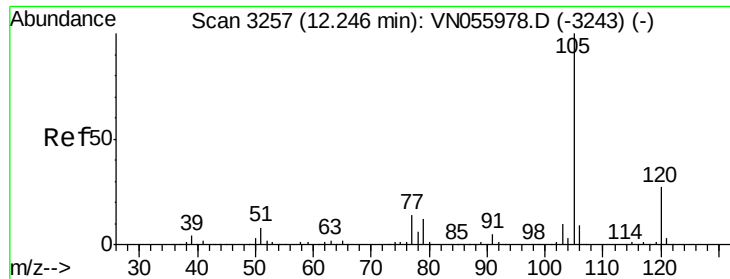
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055996.D
Acq: 5 Jun 2019 9:30

Tgt Ion:152 Resp: 141074
Ion Ratio Lower Upper
152 100
115 51.7 27.0 81.0
150 155.4 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: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

Instrument :

MSVOA_N

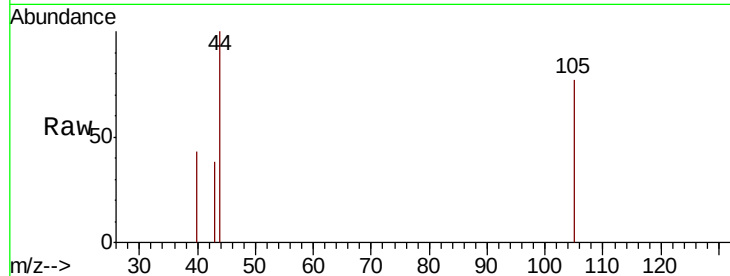
ClientSampleId :

Tot Ion:105 Resp: 493

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

12.25

400

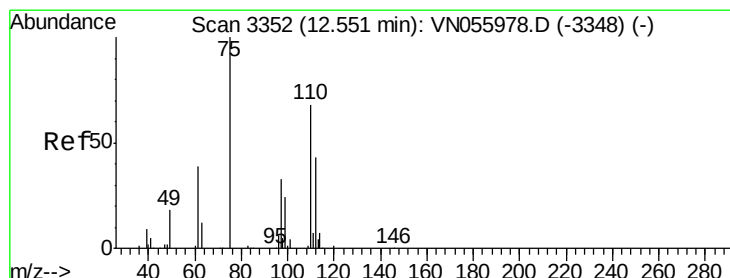
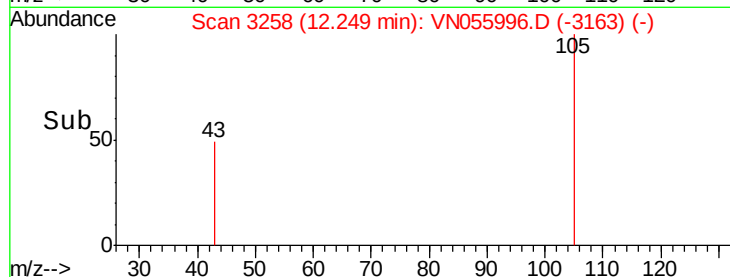
300

200

100

0

Time--> 12.22 12.24 12.26



#76

1,2,3-Trichloropropane

Concen: 31.288 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055996.D

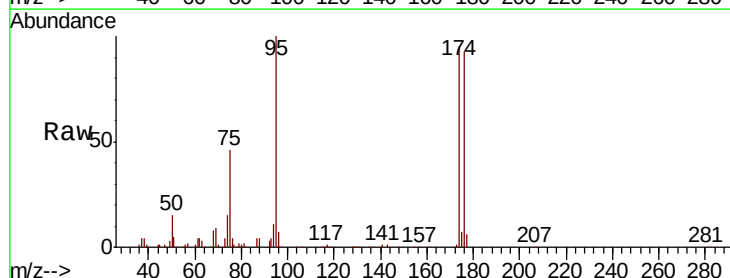
Acq: 5 Jun 2019 9:30

Tgt Ion: 75 Resp: 81218

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

12.40

50000

40000

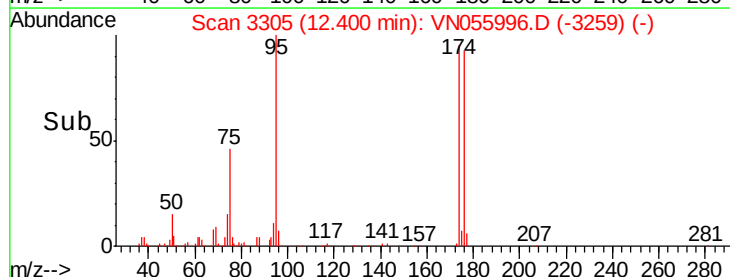
30000

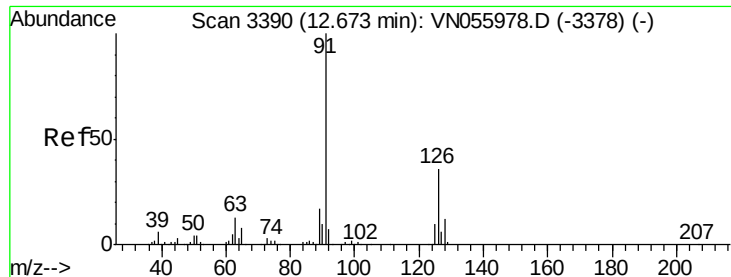
20000

10000

0

Time--> 12.35 12.40 12.45 12.50





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

Instrument :

MSVOA_N

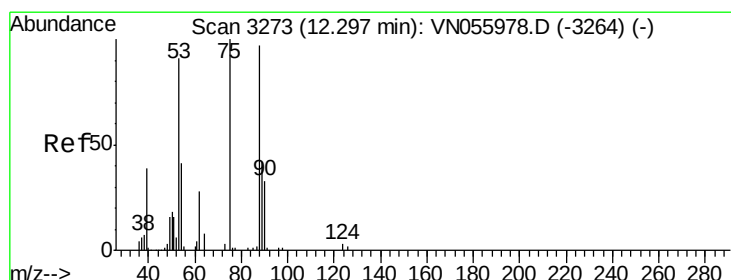
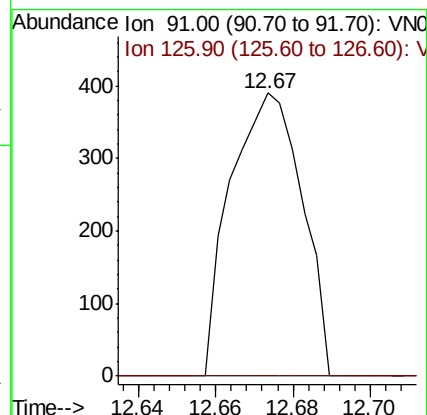
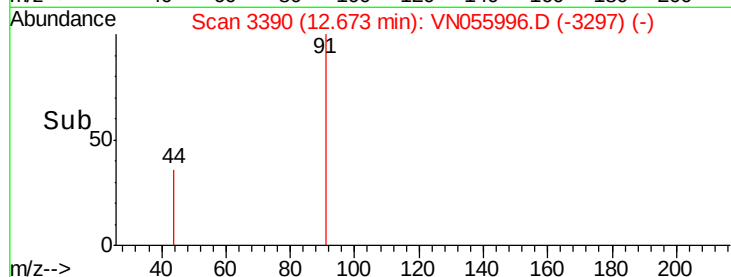
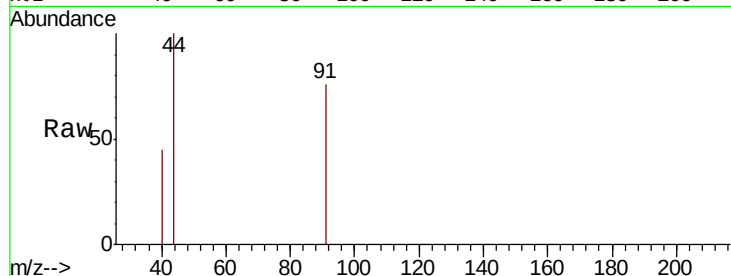
ClientSampled :

Tot Ion: 91 Resp: 501

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 104.195 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

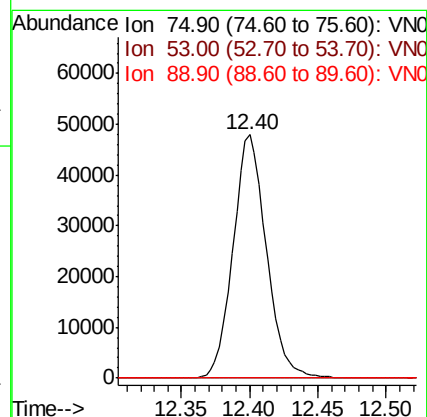
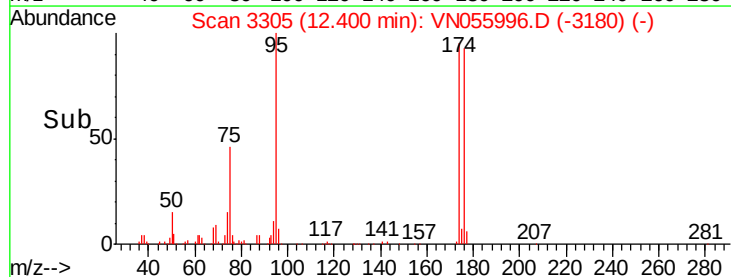
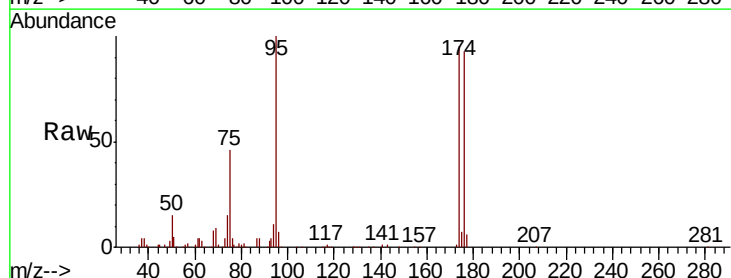
Tgt Ion: 75 Resp: 81218

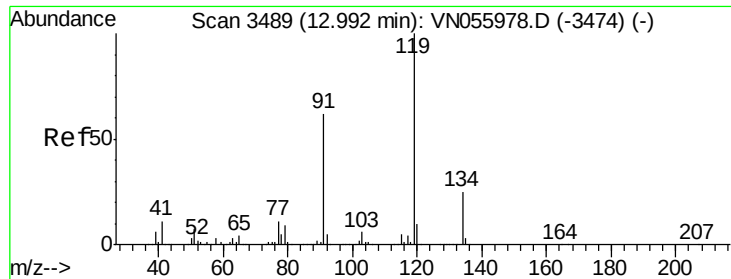
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

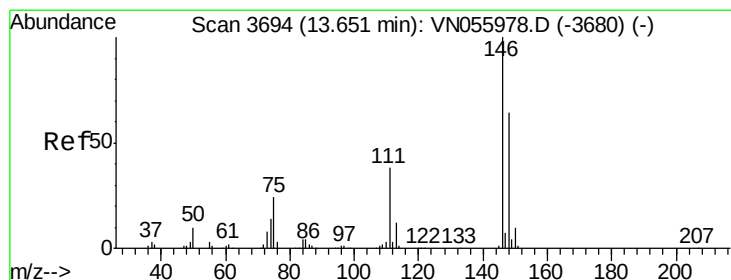
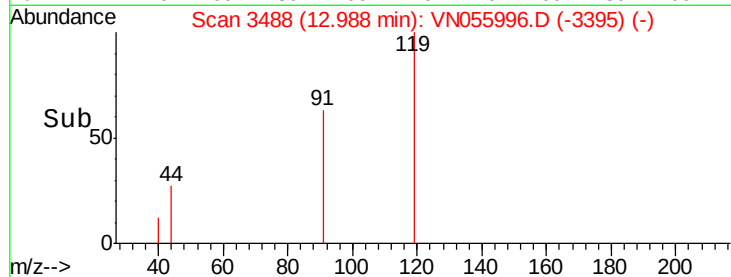
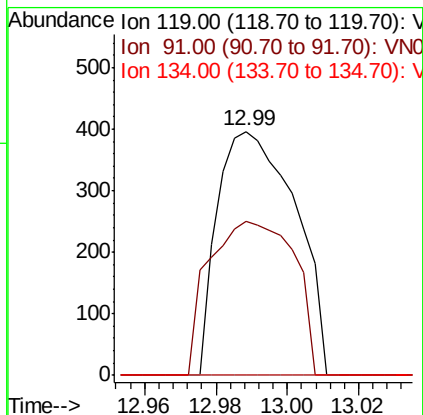
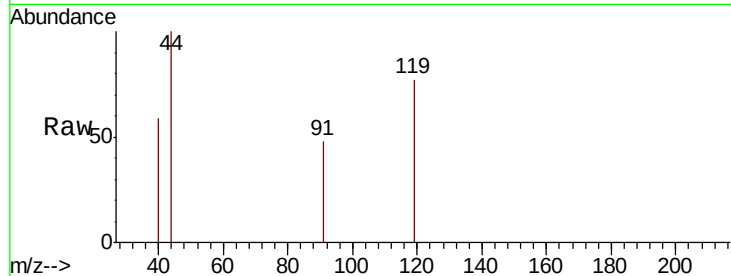




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN055996.D
 Acq: 5 Jun 2019 9:30

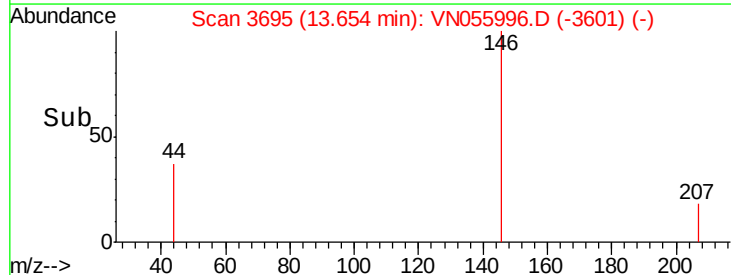
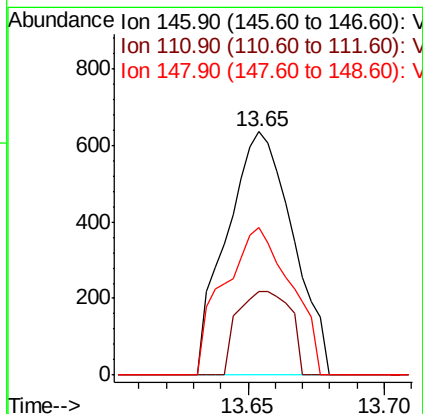
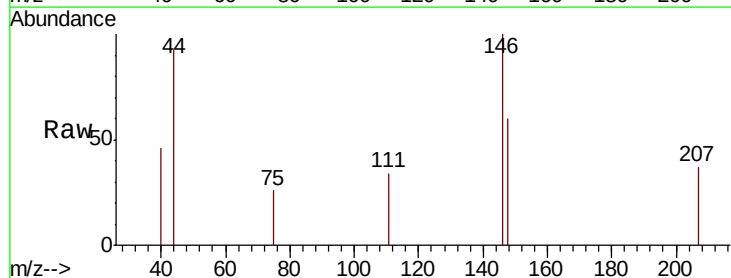
Instrument :
 MSVOA_N
 ClientSampled :

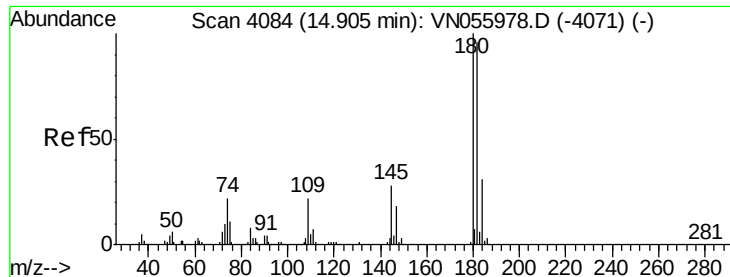
Tot Ion:119 Resp: 597
 Ion Ratio Lower Upper
 119 100
 91 69.2 30.9 92.8
 134 0.0 13.3 39.8#



#91
 1,2-Dichlorobenzene
 Concen: 0.226 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055996.D
 Acq: 5 Jun 2019 9:30

Tgt Ion:146 Resp: 1068
 Ion Ratio Lower Upper
 146 100
 111 27.4 19.1 57.5
 148 61.6 31.9 95.9

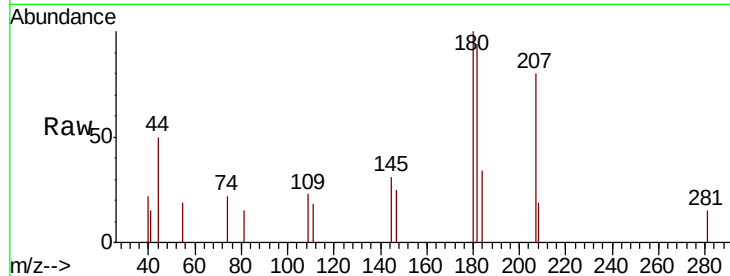




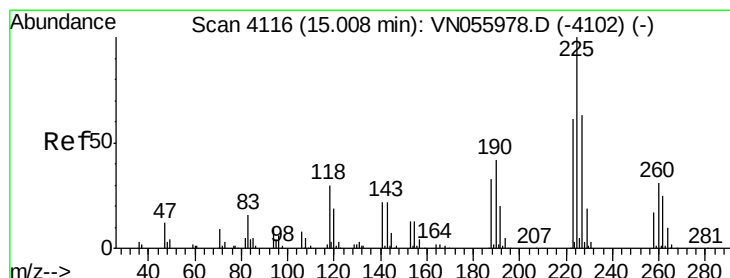
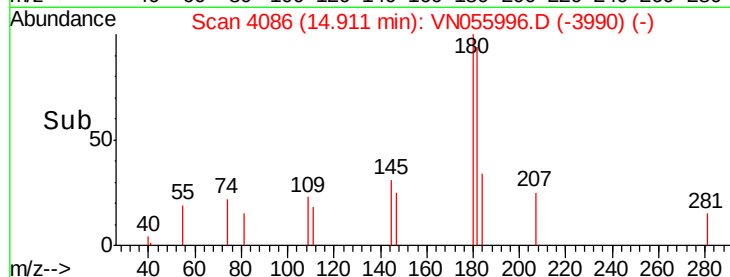
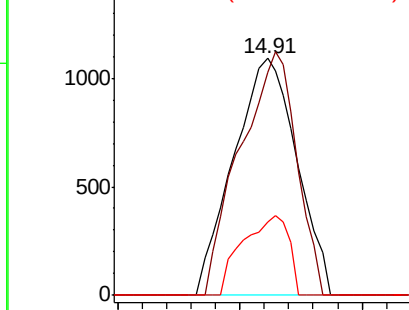
#93
 1,2,4-Trichlorobenzene
 Concen: 4.958 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN055996.D
 Acq: 5 Jun 2019 9:30

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1958
 Ion Ratio Lower Upper
 180 100
 182 92.1 48.3 144.9
 145 24.5 14.0 41.9

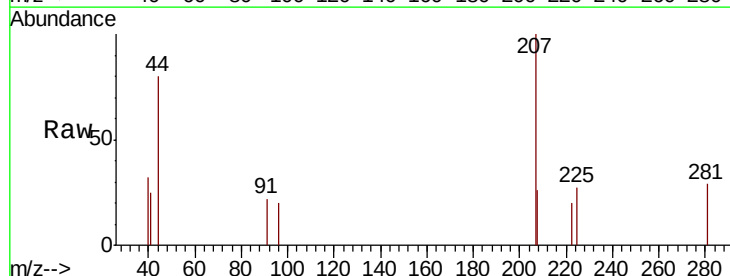


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

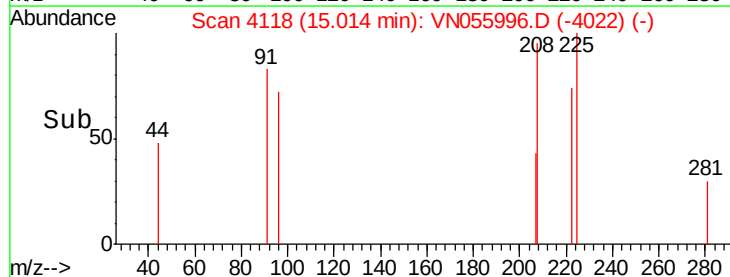
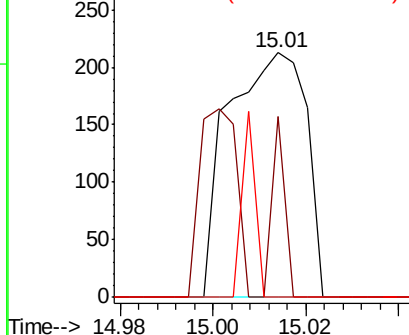


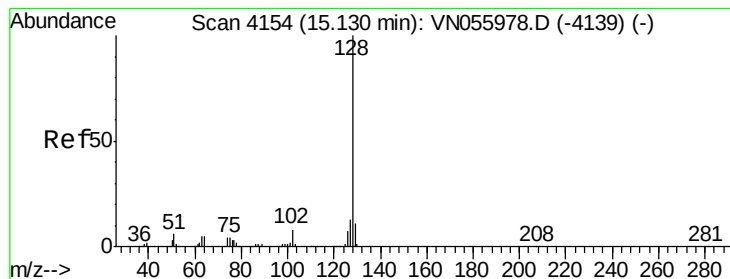
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.01 min
 Lab File: VN055996.D
 Acq: 5 Jun 2019 9:30

Tgt Ion:225 Resp: 250
 Ion Ratio Lower Upper
 225 100
 223 12.0 30.9 92.7#
 227 12.4 31.6 94.7#



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: 4.563 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

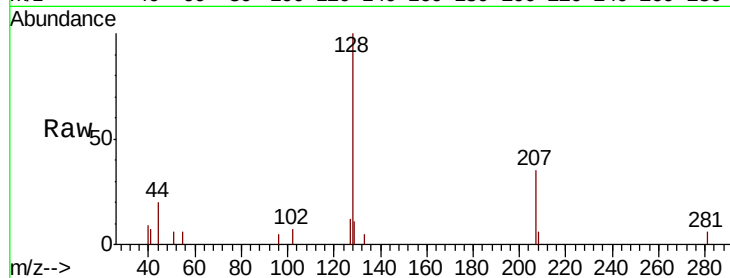
Tot Ion:128 Resp: 5202

Ion Ratio Lower Upper

128 100

127 9.2 10.3 15.5#

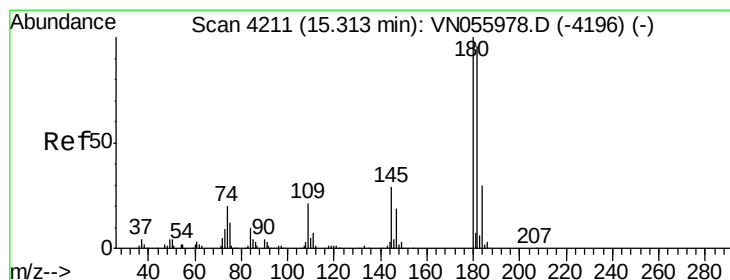
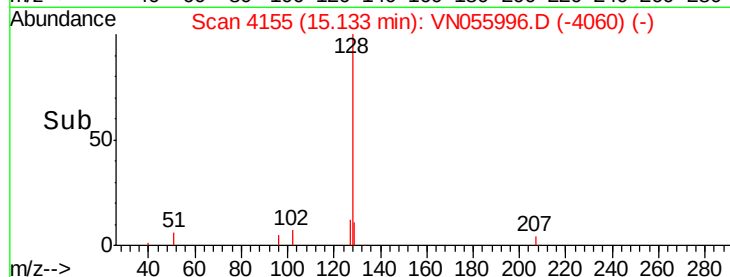
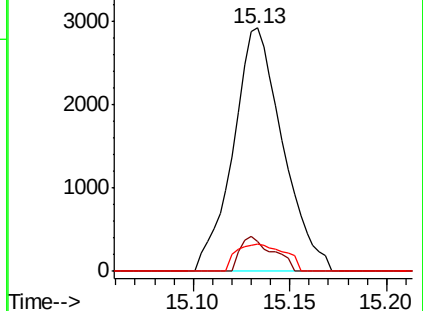
129 10.8 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 3.970 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055996.D

Acq: 5 Jun 2019 9:30

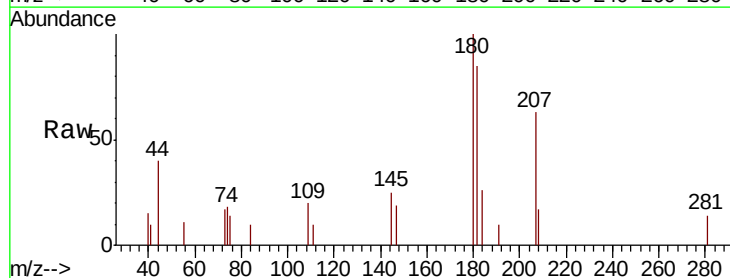
Tgt Ion:180 Resp: 2648

Ion Ratio Lower Upper

180 100

182 92.4 47.9 143.7

145 28.7 14.9 44.7



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

