

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055608.D
 Acq On : 17 May 2019 14:26
 Operator : JC/SP
 Sample : VN0517WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:08:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

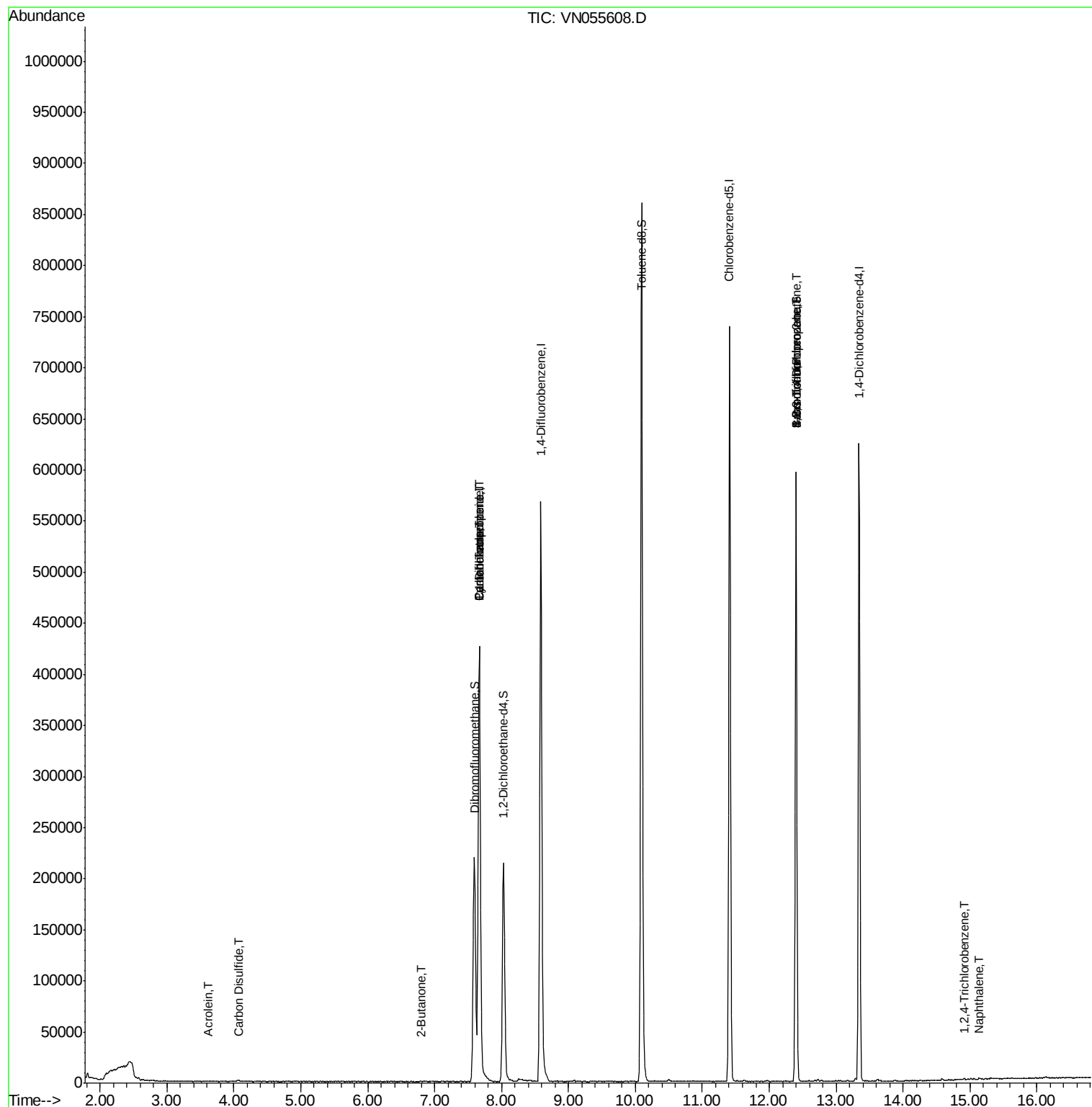
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	399651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	569555	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	479654	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	183878	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	192394	43.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.84%	
35) Dibromofluoromethane	7.59	113	174877	48.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.66%	
50) Toluene-d8	10.09	98	660584	48.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	12.40	95	210597	44.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.16%	
Target Compounds						
					Qvalue	
13) Acrolein	3.62	56	389	2.290	ug/l #	34
17) Carbon Disulfide	4.07	76	2971	0.293	ug/l #	75
25) 2-Butanone	6.81	43	1052	0.421	ug/l #	47
31) Cyclohexane	7.66	56	3481	0.536	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24232	4.772	ug/l #	49
38) Carbon Tetrachloride	7.67	117	33586	6.190	ug/l #	15
71) Bromoform	12.40	173	1244	0.376	ug/l #	1
73) Isopropylbenzene	12.25	105	744	Below Cal	#	56
76) 1,2,3-Trichloropropane	12.40	75	97199	25.905	ug/l #	100
79) 2-Chlorotoluene	12.78	91	1043	Below Cal		74
80) 1,3,5-Trimethylbenzene	12.73	105	677	Below Cal		96
81) trans-1,4-Dichloro-2-buten	12.40	75	97199	66.592	ug/l #	17
83) tert-Butylbenzene	12.99	119	455	Below Cal	#	76
84) 1,2,4-Trimethylbenzene	13.04	105	897	Below Cal		71
85) sec-Butylbenzene	13.17	105	1141	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	1220	Below Cal	#	84
93) 1,2,4-Trichlorobenzene	14.91	180	669	0.211	ug/l #	83
94) Hexachlorobutadiene	15.01	225	293	Below Cal	#	53
95) Naphthalene	15.13	128	2215	1.988	ug/l #	78

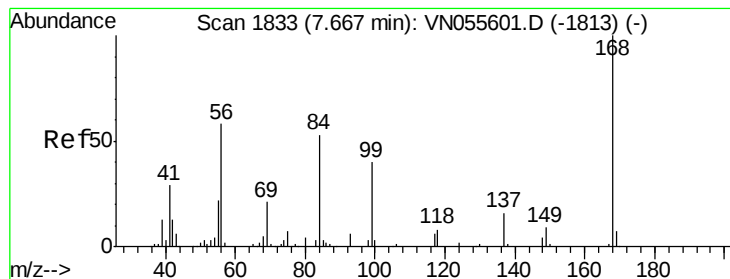
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

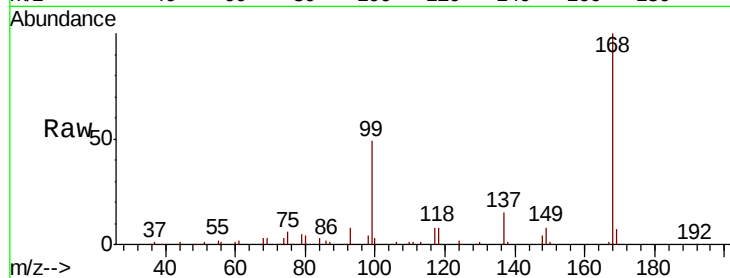
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 399651

Ion Ratio Lower Upper

168 100

99 49.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055608.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055608.D (-1740) (-)

7.67

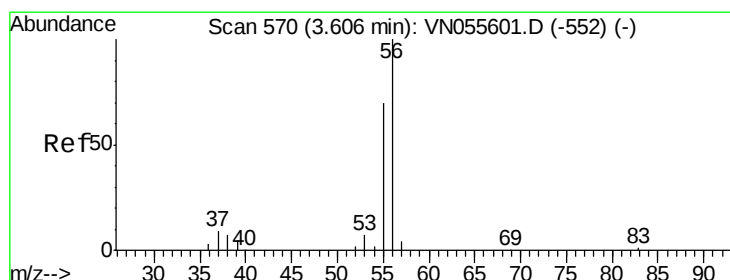
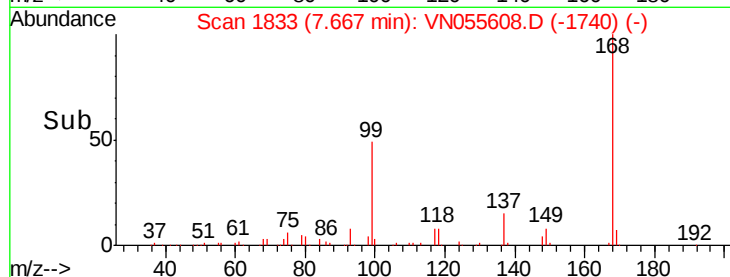
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 2.290 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN055608.D

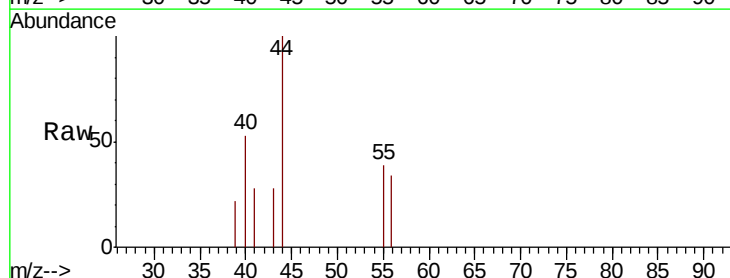
Acq: 17 May 2019 14:26

Tgt Ion: 56 Resp: 389

Ion Ratio Lower Upper

56 100

55 16.2 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN055608.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN055608.D (-477) (-)

3.62

300

250

200

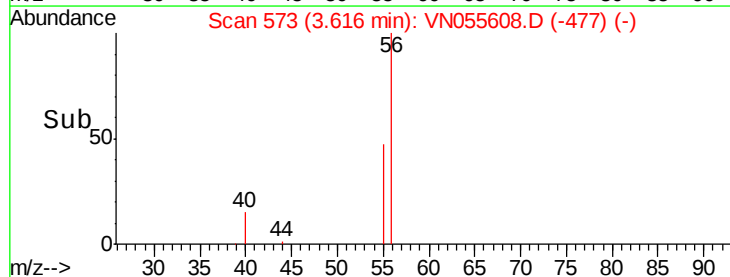
150

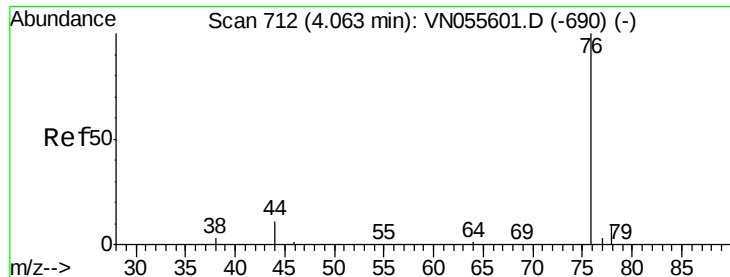
100

50

0

Time-->





#17

Carbon Disulfide

Concen: 0.293 ug/l

RT: 4.07 min Scan# 713

Delta R.T. 0.00 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

Instrument :

MSVOA_N

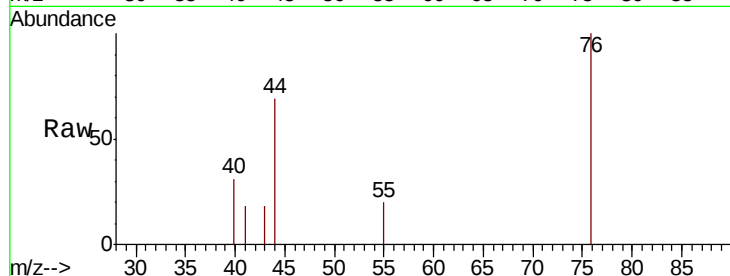
ClientSampled :

Tot Ion: 76 Resp: 2971

Ion Ratio Lower Upper

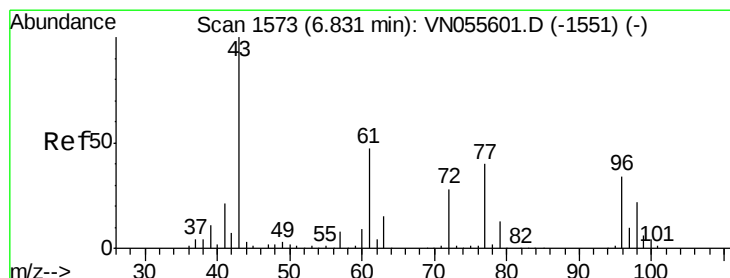
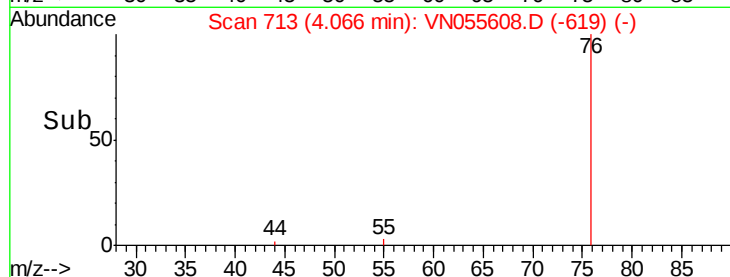
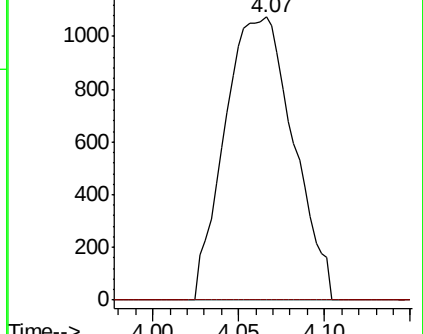
76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#25

2-Butanone

Concen: 0.421 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.02 min

Lab File: VN055608.D

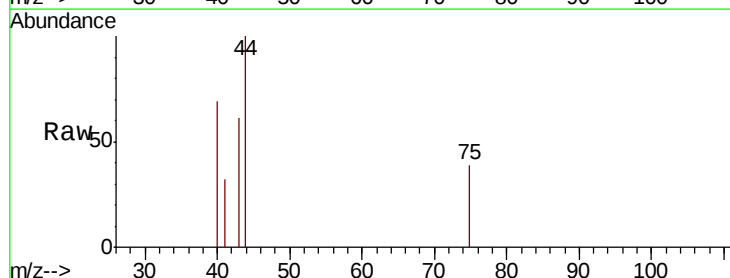
Acq: 17 May 2019 14:26

Tgt Ion: 43 Resp: 1052

Ion Ratio Lower Upper

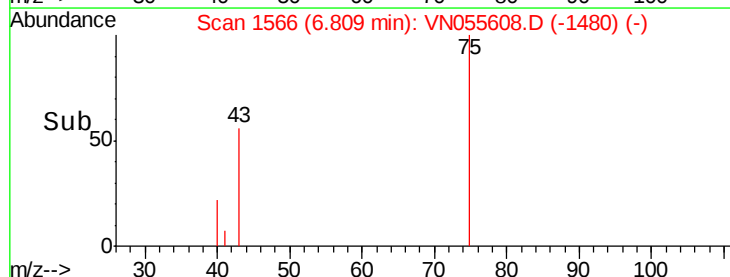
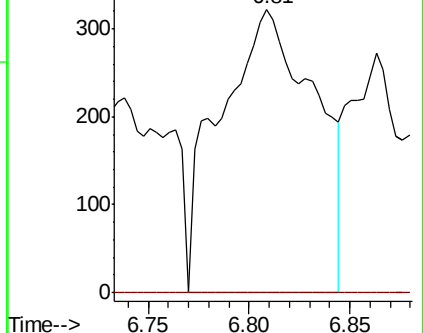
43 100

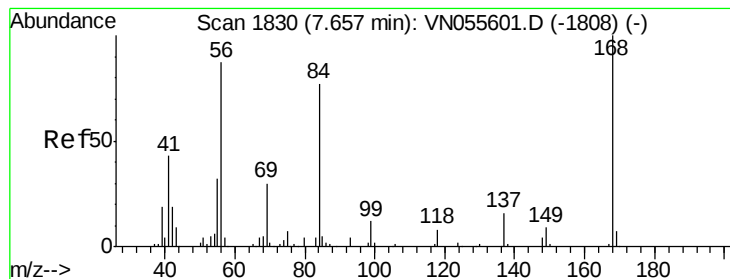
72 0.0 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 0.536 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

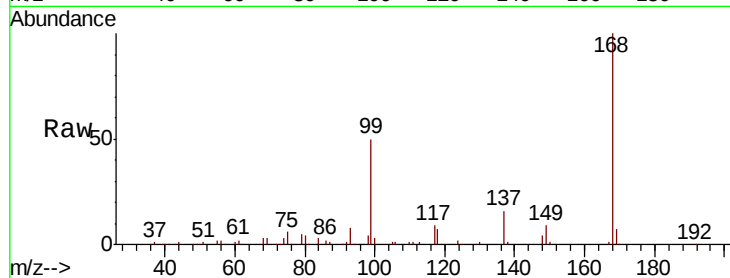
Tot Ion: 56 Resp: 3481

Ion Ratio Lower Upper

56 100

69 190.3 27.2 40.8#

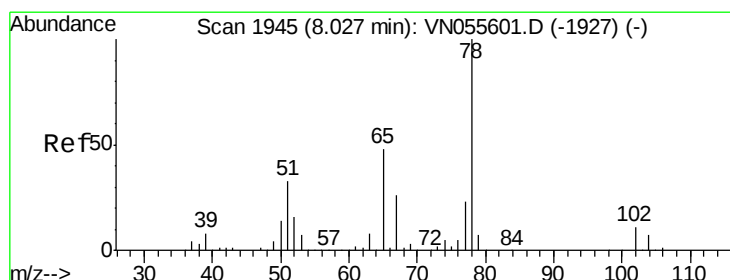
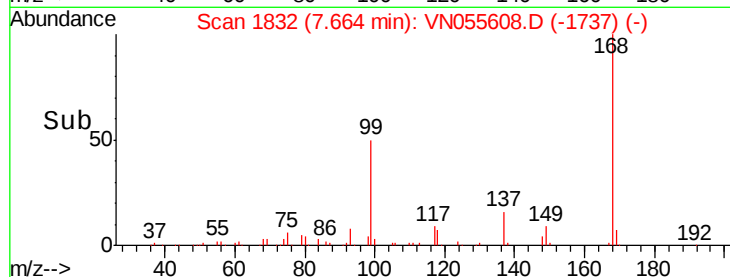
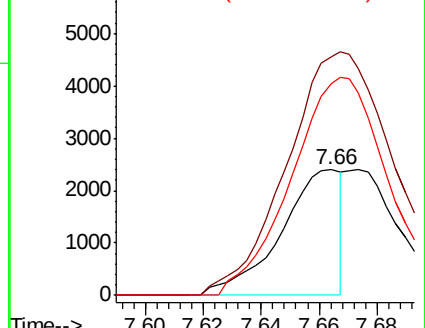
84 169.2 71.3 106.9#



Abundance Ion 56.00 (55.70 to 56.70): VN055608.D (-1808) (-)

Ion 69.00 (68.70 to 69.70): VN055608.D (-1808) (-)

Ion 84.00 (83.70 to 84.70): VN055608.D (-1808) (-)



#33

1,2-Dichloroethane-d4

Concen: 43.916 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055608.D

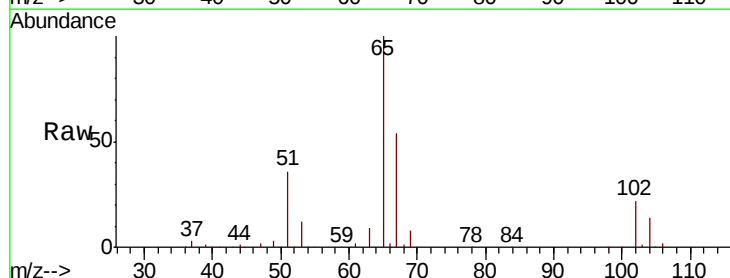
Acq: 17 May 2019 14:26

Tgt Ion: 65 Resp: 192394

Ion Ratio Lower Upper

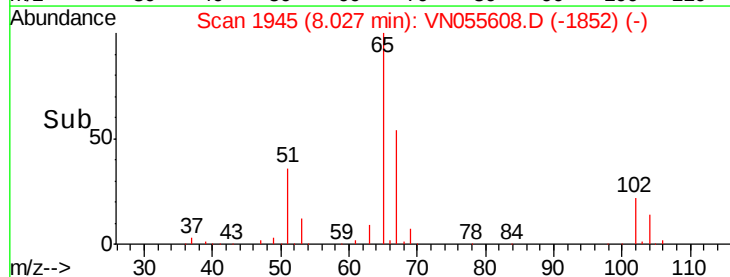
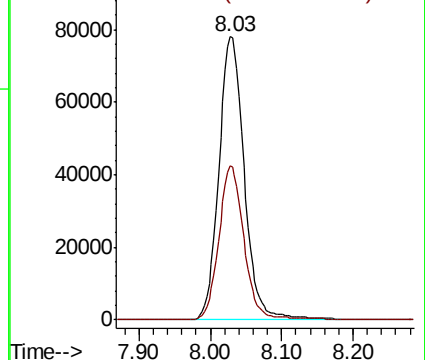
65 100

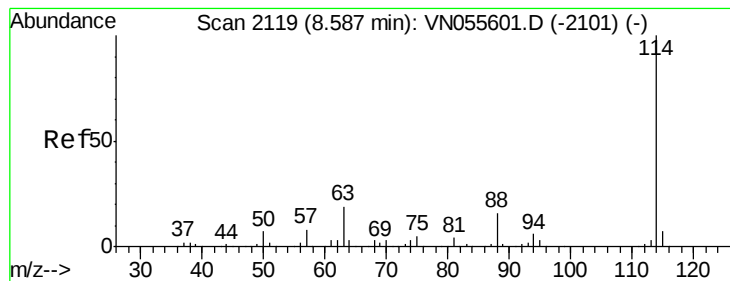
67 53.9 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN055608.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN055608.D (-1852) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :

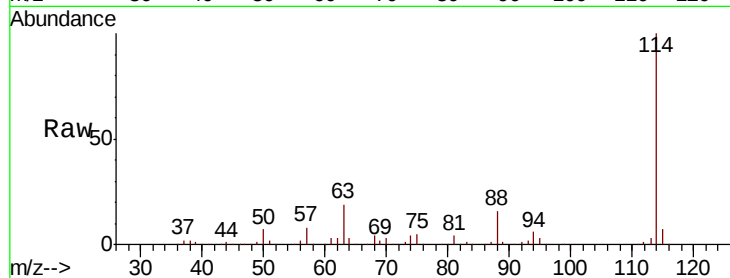
Tot Ion:114 Resp: 569555

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.2

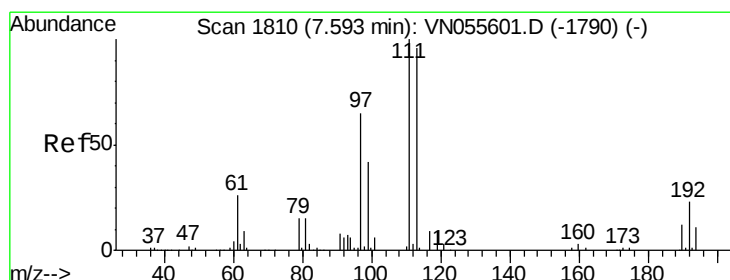
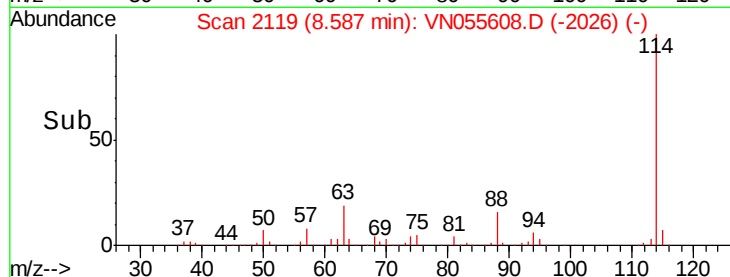
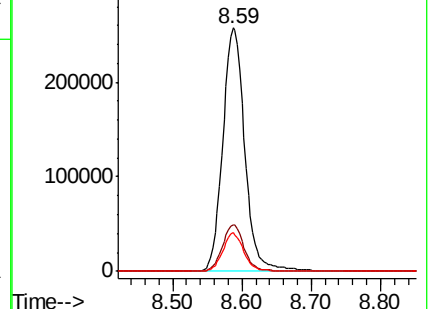
88 15.7 0.0 31.0



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: 48.334 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

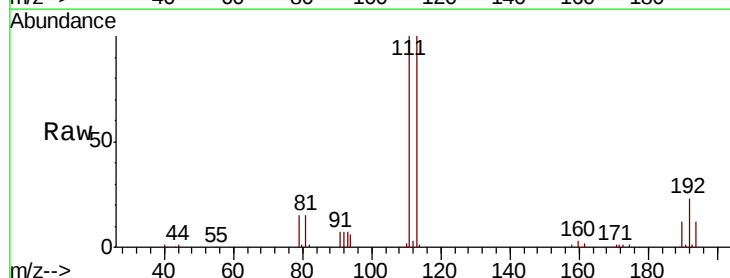
Tgt Ion:113 Resp: 174877

Ion Ratio Lower Upper

113 100

111 101.8 82.5 123.7

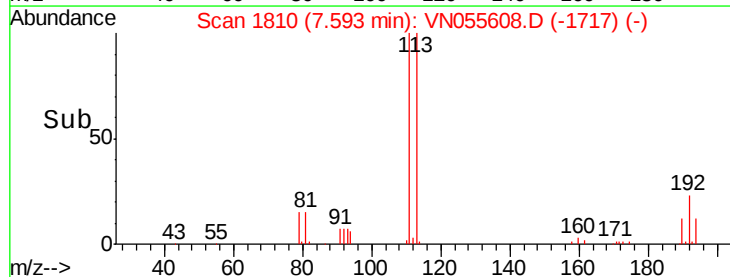
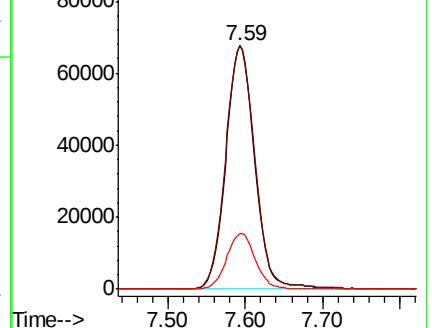
192 22.7 18.7 28.1

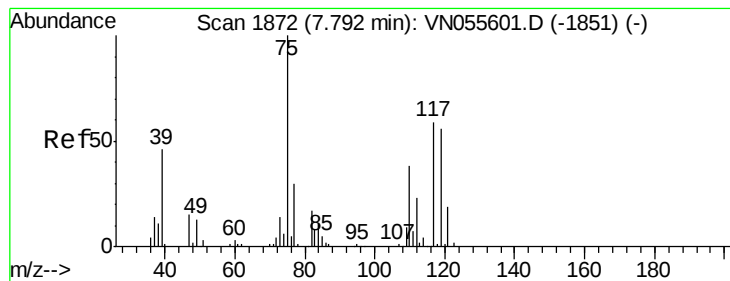


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.772 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

Instrument :

MSVOA_N

ClientSampled :

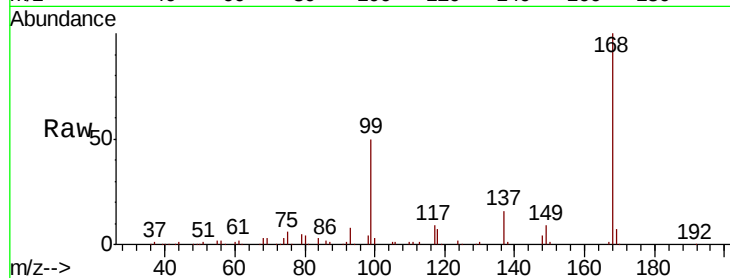
Tot Ion: 75 Resp: 24232

Ion Ratio Lower Upper

75 100

110 9.0 18.6 55.6#

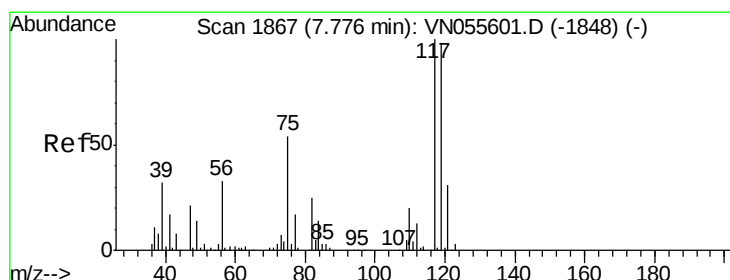
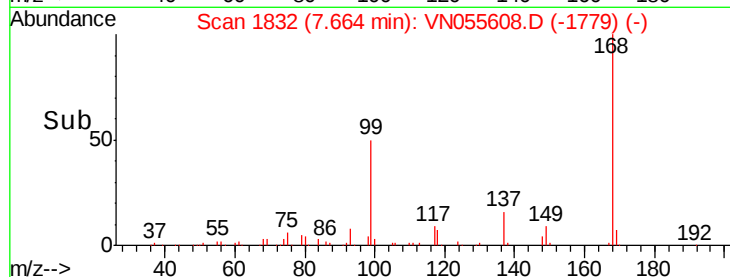
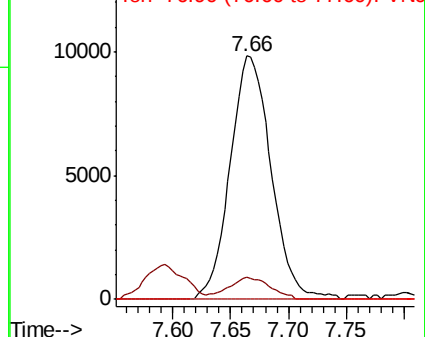
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055608.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN055608.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN055608.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 6.190 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

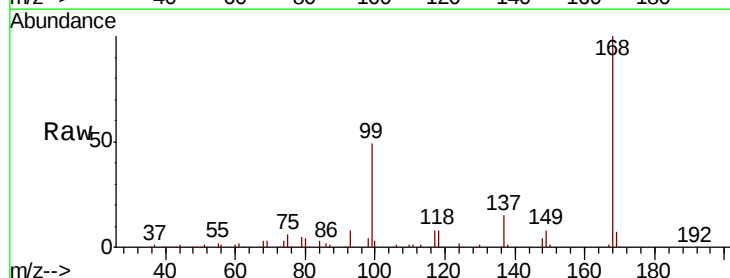
Tgt Ion: 117 Resp: 33586

Ion Ratio Lower Upper

117 100

119 4.7 77.8 116.8#

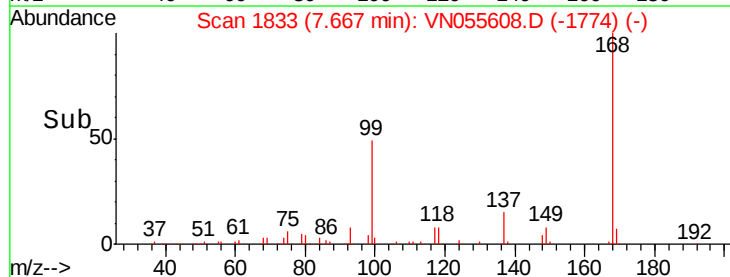
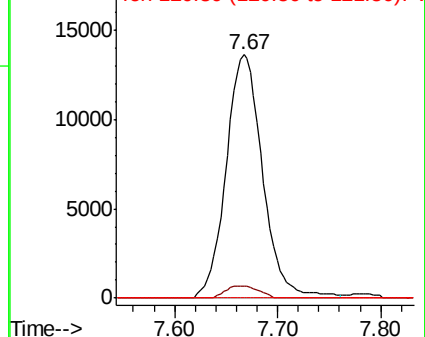
121 0.0 24.6 37.0#

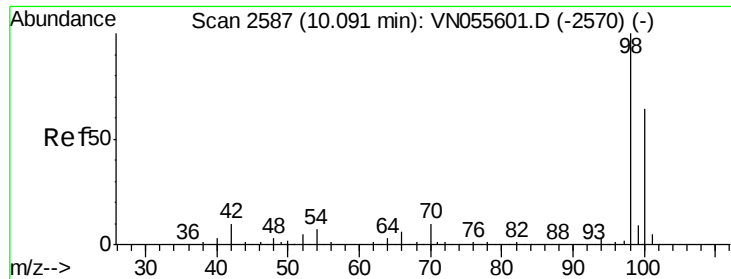


Abundance Ion 116.80 (116.50 to 117.50): VN055608.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN055608.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN055608.D (-1774) (-)





#50

Toluene-d8

Concen: 48.287 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

Instrument :

MSVOA_N

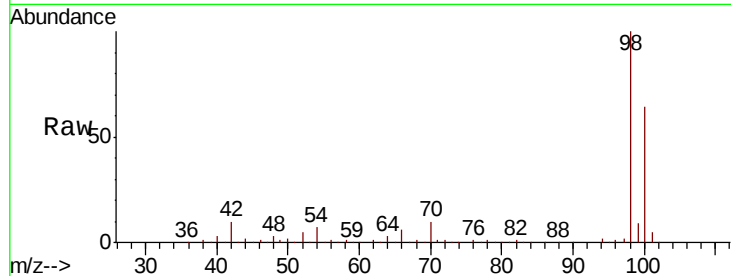
ClientSampled :

Tot Ion: 98 Resp: 660584

Ion Ratio Lower Upper

98 100

100 64.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055608.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055608.D (-2570) (-)

10.09

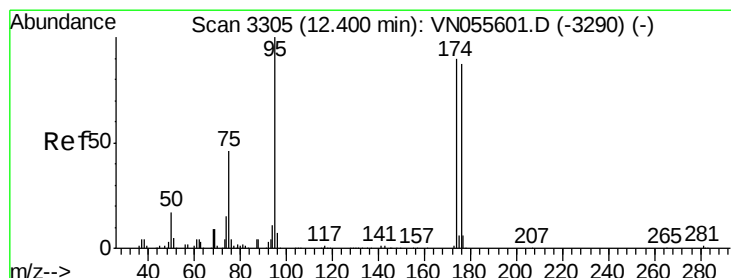
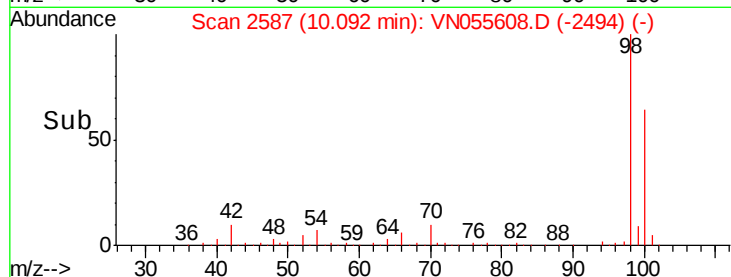
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.580 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

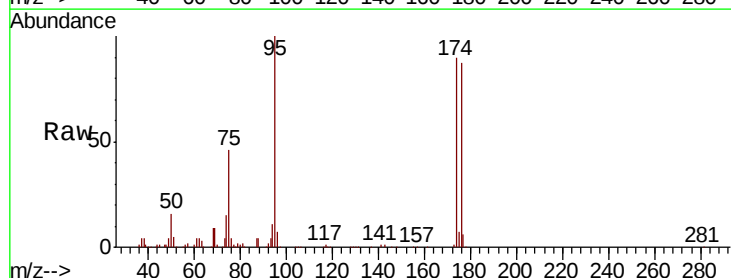
Tgt Ion: 95 Resp: 210597

Ion Ratio Lower Upper

95 100

174 90.6 0.0 180.6

176 88.8 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN055608.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN055608.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN055608.D (-3212) (-)

12.40

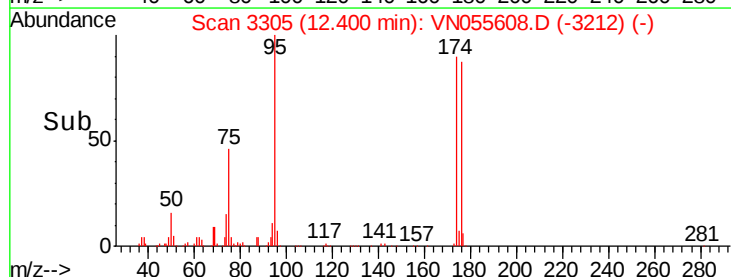
150000

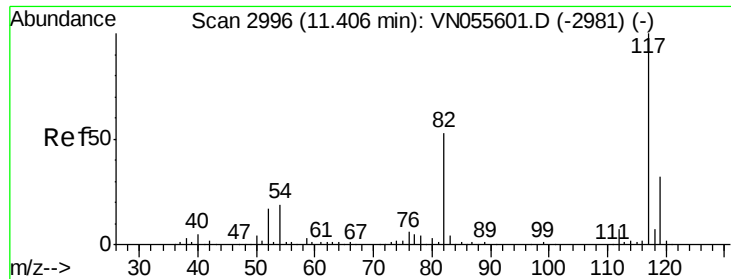
100000

50000

0

Time-->

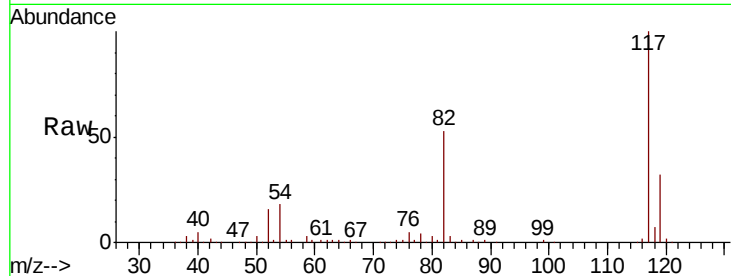




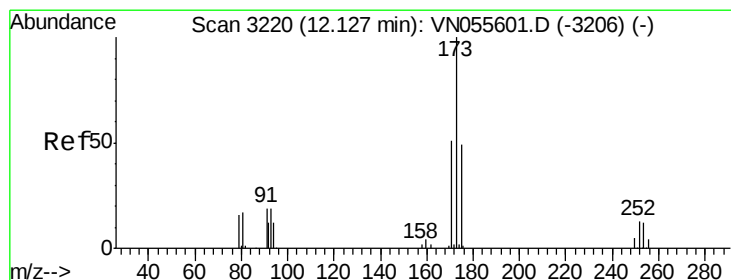
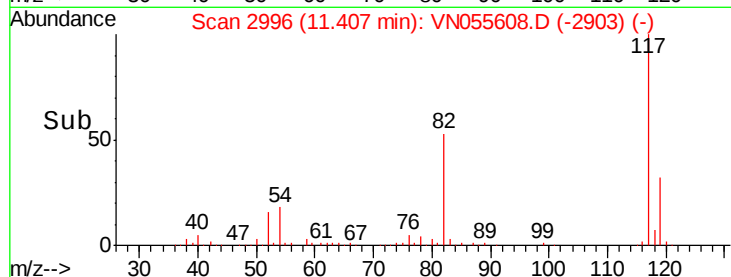
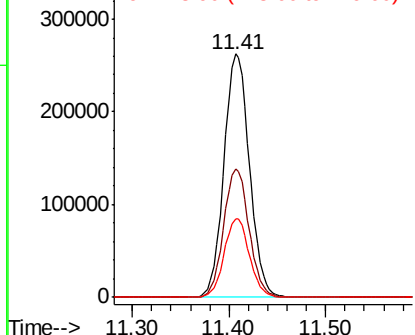
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055608.D
Acq: 17 May 2019 14:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 479654
Ion Ratio Lower Upper
117 100
82 52.7 42.3 63.5
119 32.4 25.4 38.2

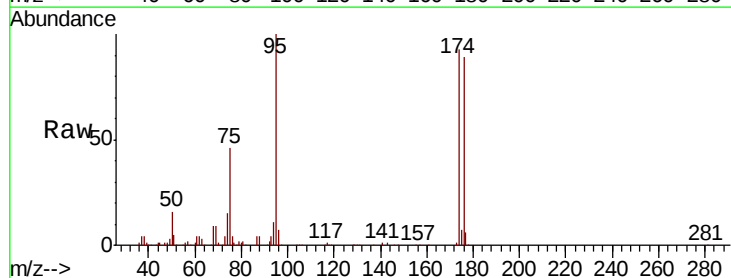


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

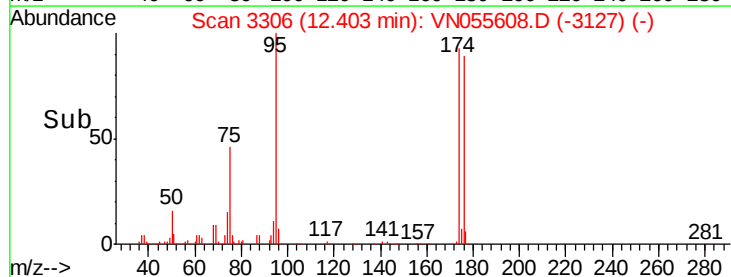
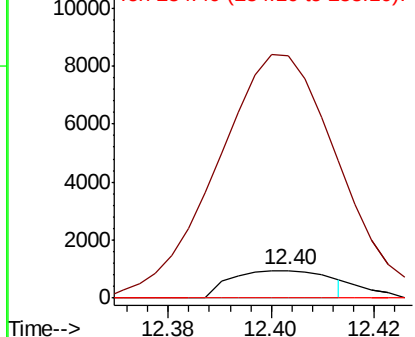


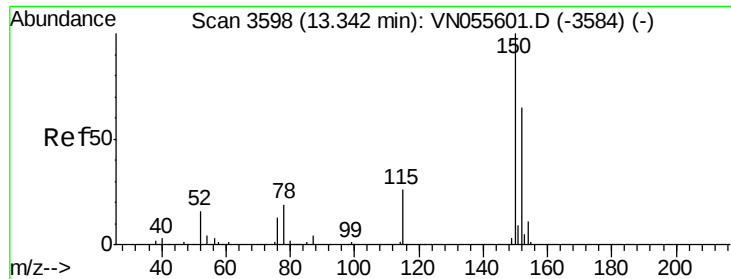
#71
Bromoform
Concen: 0.376 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055608.D
Acq: 17 May 2019 14:26

Tgt Ion:173 Resp: 1244
Ion Ratio Lower Upper
173 100
175 984.6 24.3 72.9#
254 0.0 0.1 0.1#



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



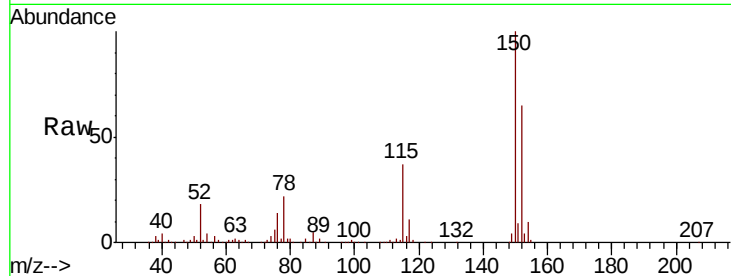


#72

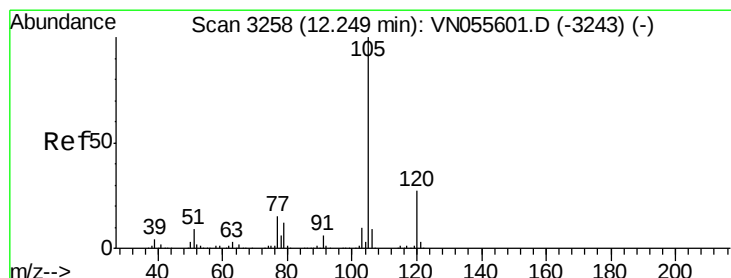
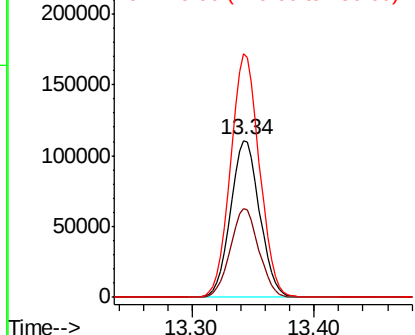
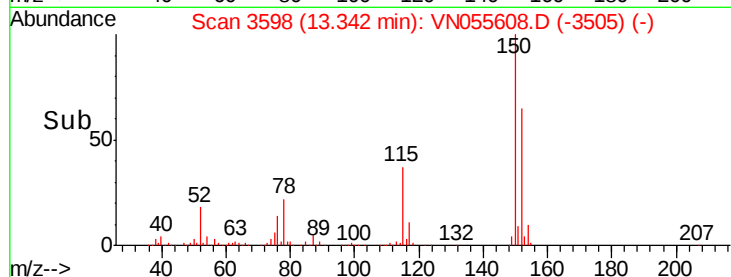
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055608.D
Acq: 17 May 2019 14:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.3	28.1	84.2
150	153.8	0.0	348.0



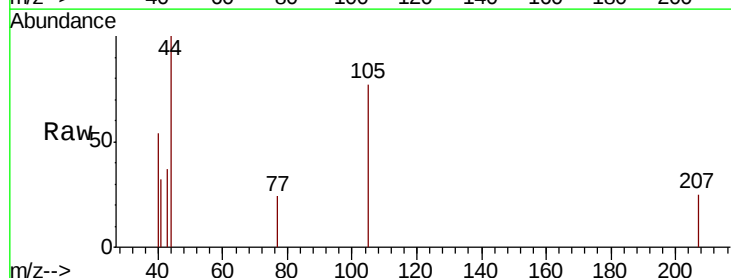
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



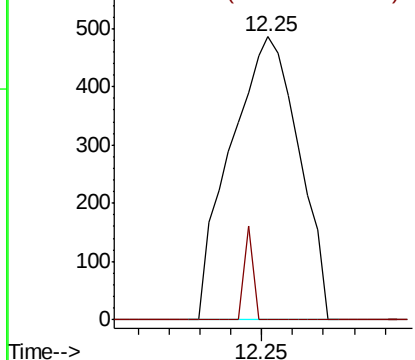
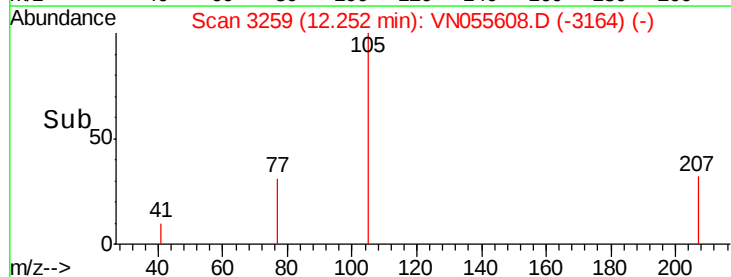
#73

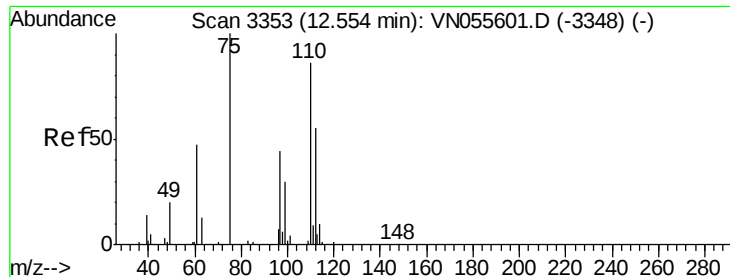
Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN055608.D
Acq: 17 May 2019 14:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	4.2	13.4	40.2



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: 25.905 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

Instrument :

MSVOA_N

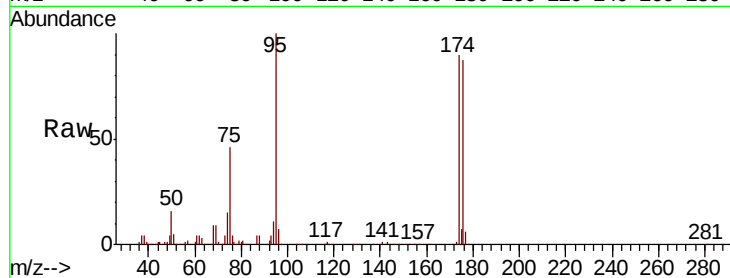
ClientSampleId :

Tot Ion: 75 Resp: 97199

Ion Ratio Lower Upper

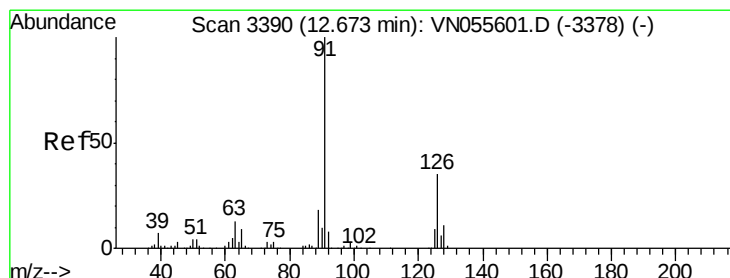
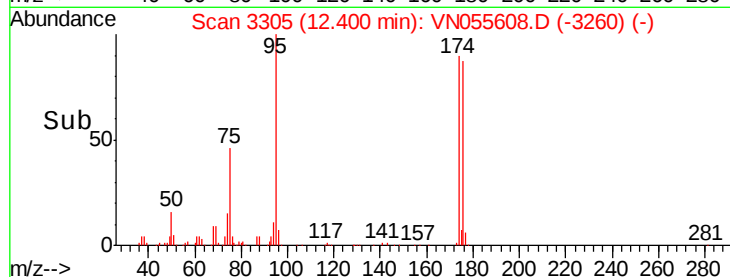
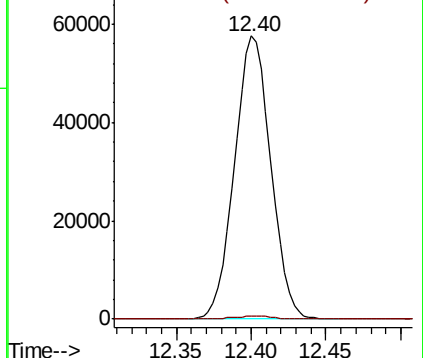
75 100

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: 12.78 min Scan# 3422

Delta R.T. 0.10 min

Lab File: VN055608.D

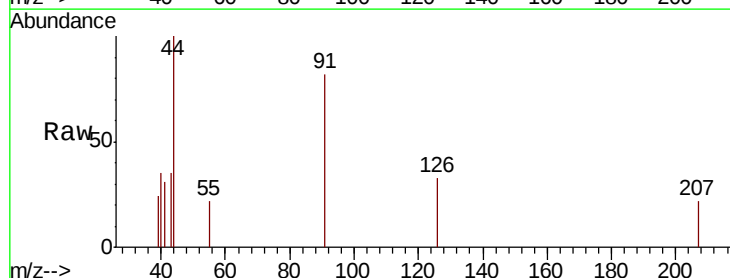
Acq: 17 May 2019 14:26

Tgt Ion: 91 Resp: 1043

Ion Ratio Lower Upper

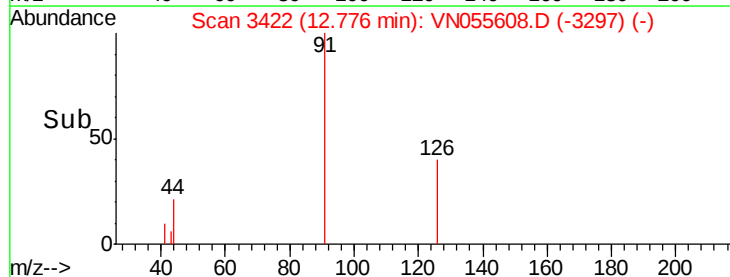
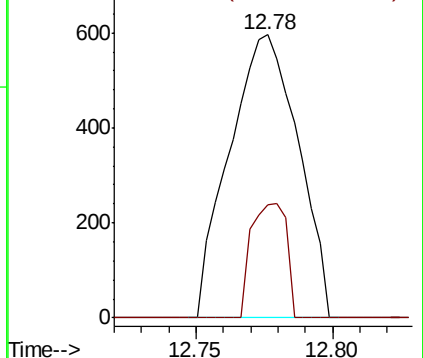
91 100

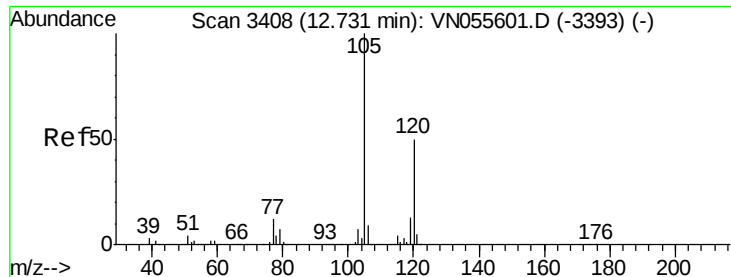
126 20.2 17.8 53.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

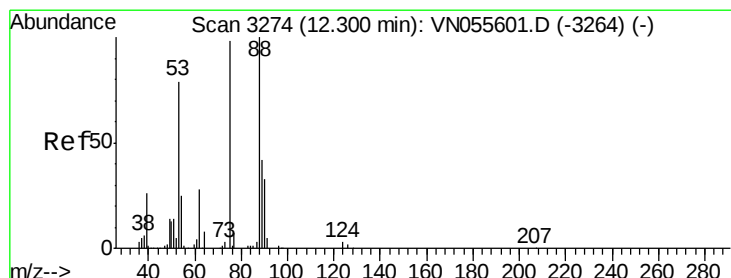
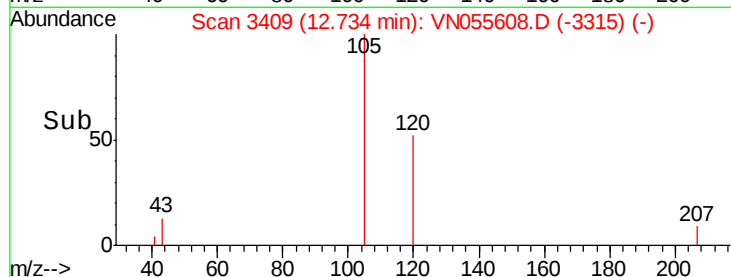
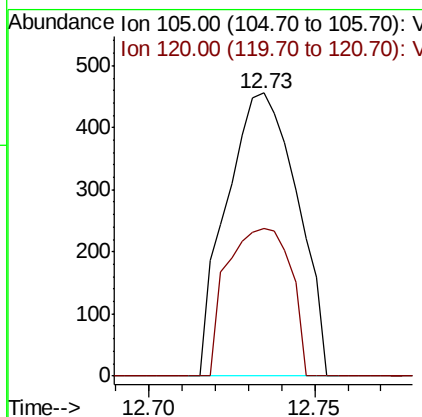
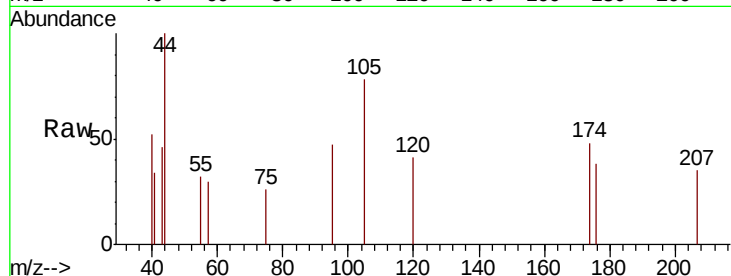




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055608.D
 Acq: 17 May 2019 14:26

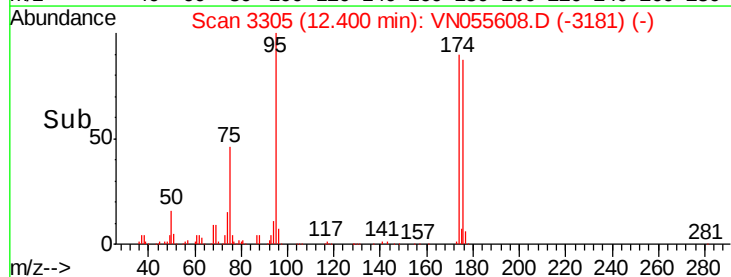
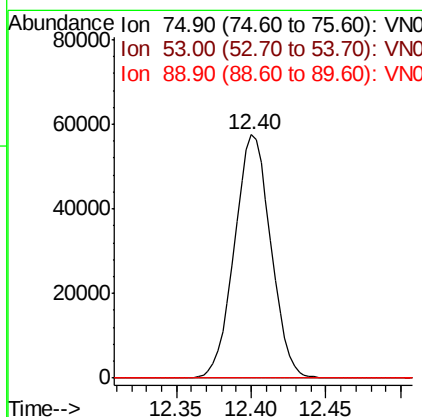
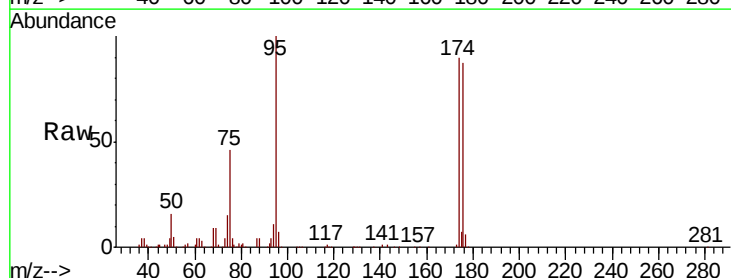
Instrument :
 MSVOA_N
 ClientSampled :

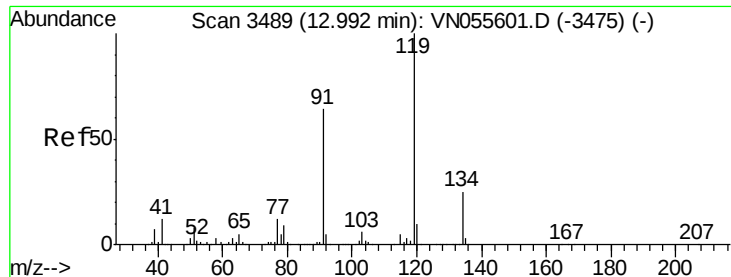
Tot Ion: 105 Resp: 677
 Ion Ratio Lower Upper
 105 100
 120 46.5 24.6 74.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.592 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055608.D
 Acq: 17 May 2019 14:26

Tgt Ion: 75 Resp: 97199
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.1 97.7#
 89 0.0 36.4 54.6#

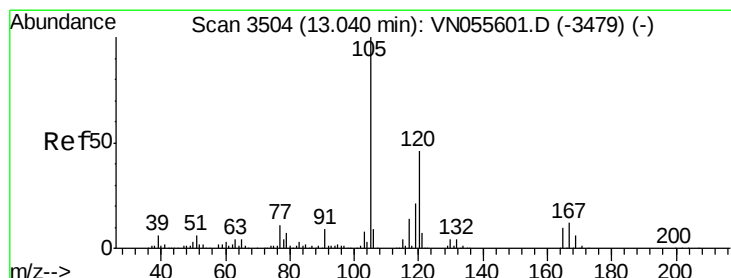
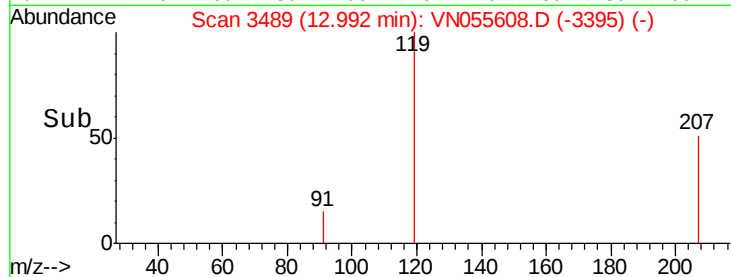
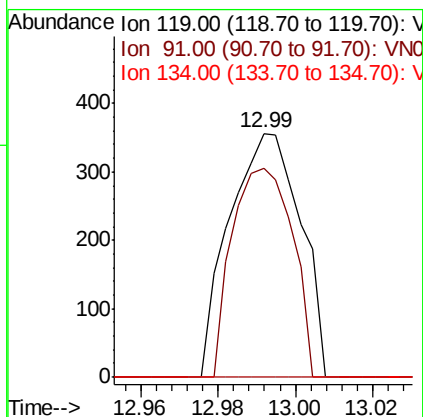
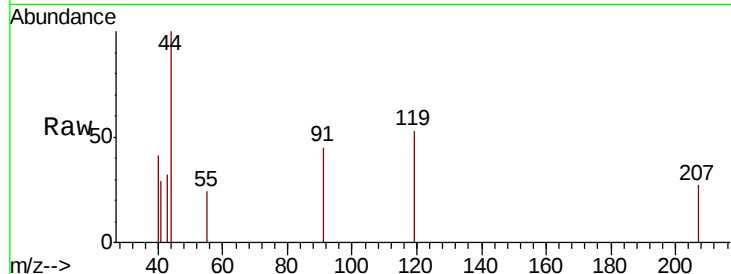




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN055608.D
 Acq: 17 May 2019 14:26

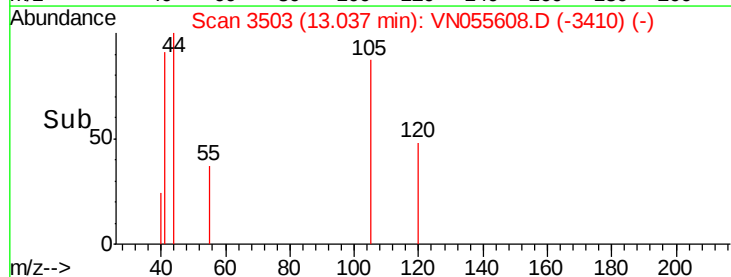
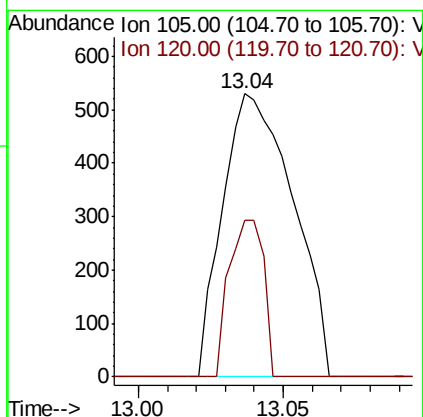
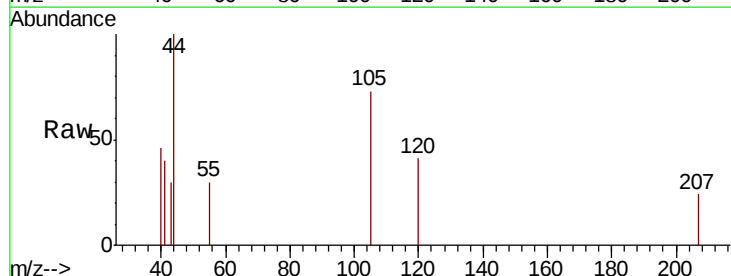
Instrument :
 MSVOA_N
 ClientSampled :

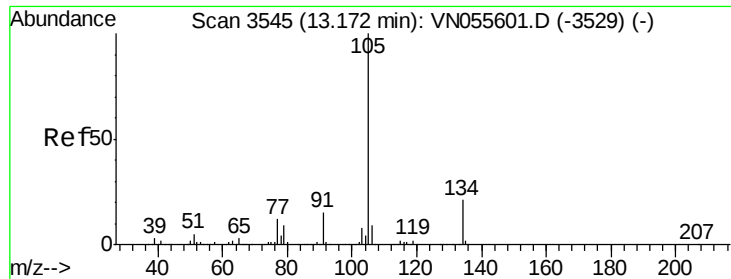
Tot Ion:119 Resp: 455
 Ion Ratio Lower Upper
 119 100
 91 72.5 31.3 93.8
 134 0.0 13.2 39.6#



#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN055608.D
 Acq: 17 May 2019 14:26

Tgt Ion:105 Resp: 897
 Ion Ratio Lower Upper
 105 100
 120 26.8 23.1 69.2





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

Instrument :

MSVOA_N

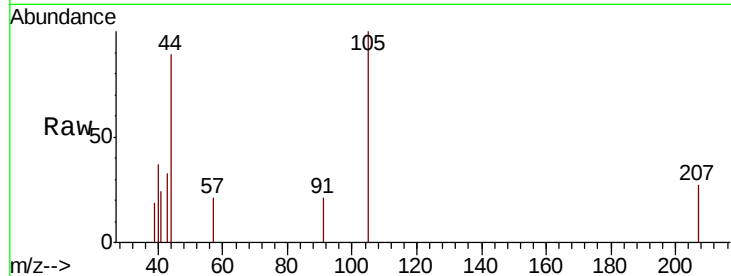
ClientSampled :

Tot Ion:105 Resp: 1141

Ion Ratio Lower Upper

105 100

134 0.0 10.3 30.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

800

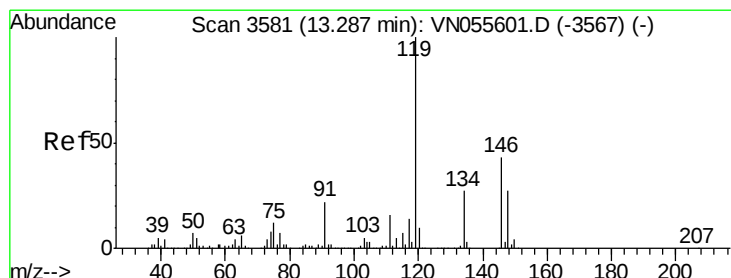
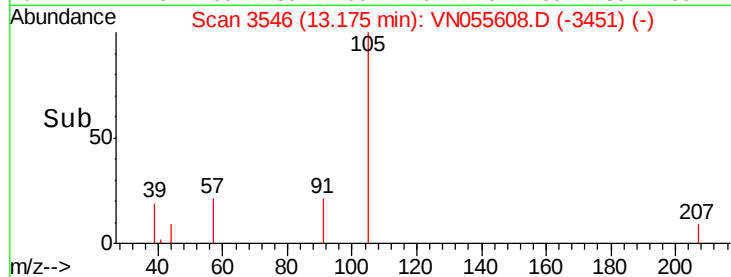
600

400

200

0

Time-->



#86

p-Isopropyltoluene

Concen: Below Cal

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN055608.D

Acq: 17 May 2019 14:26

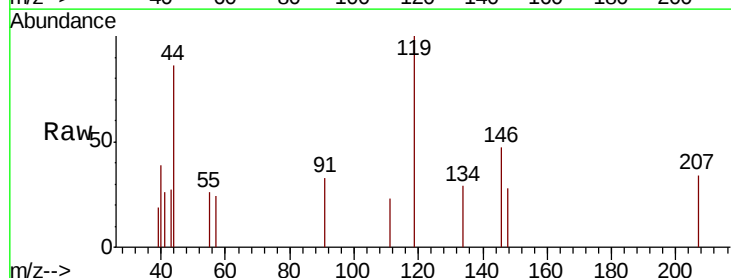
Tgt Ion:119 Resp: 1220

Ion Ratio Lower Upper

119 100

134 24.9 13.4 40.2

91 37.0 11.0 33.0#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

1000

800

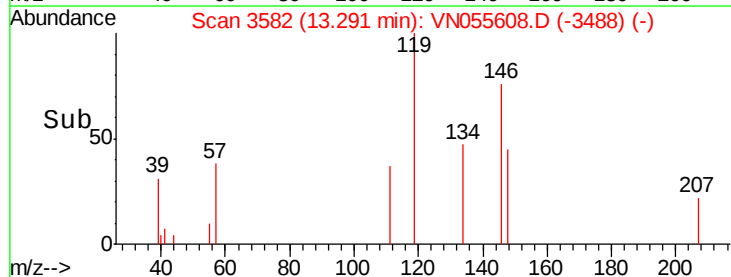
600

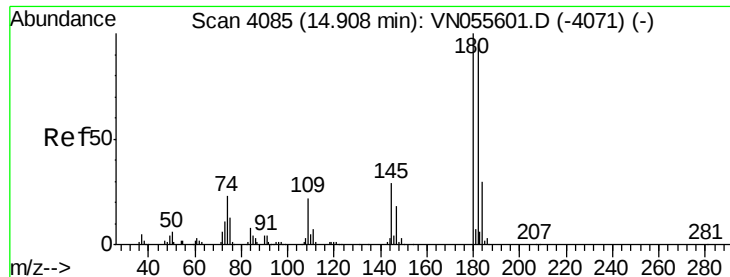
400

200

0

Time-->

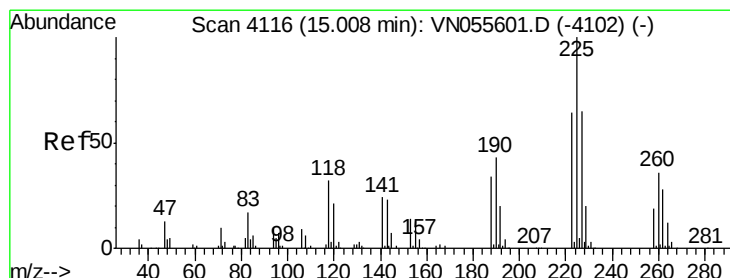
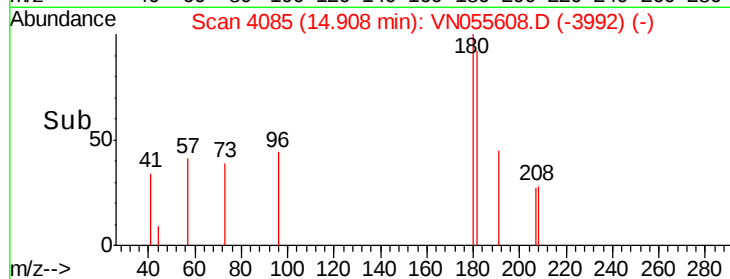
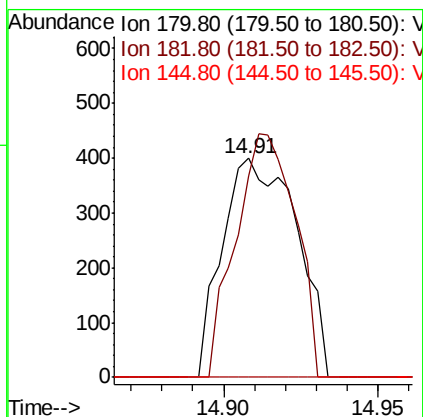
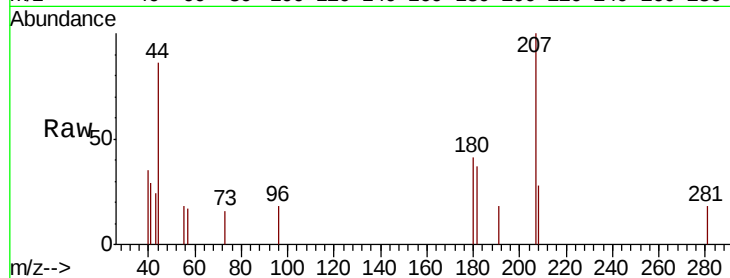




#93
 1,2,4-Trichlorobenzene
 Concen: 0.211 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055608.D
 Acq: 17 May 2019 14:26

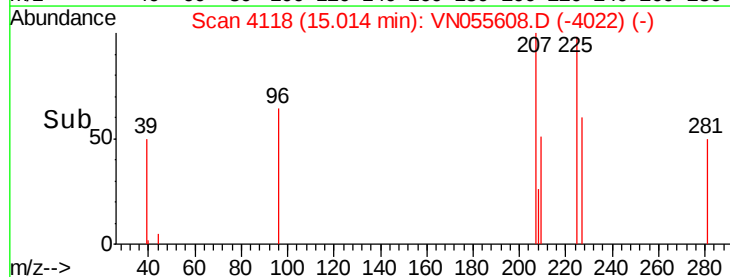
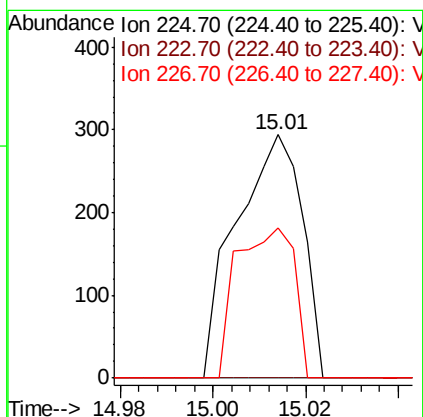
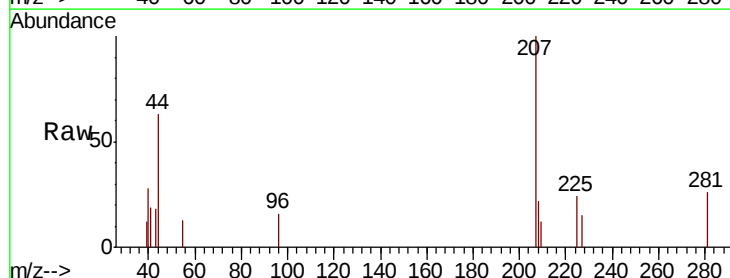
Instrument :
 MSVOA_N
 ClientSampleId :

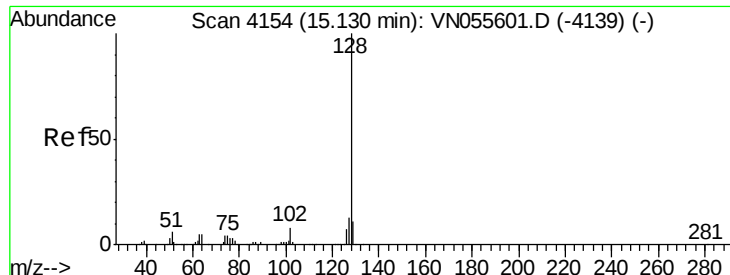
Tot Ion:180 Resp: 669
 Ion Ratio Lower Upper
 180 100
 182 89.5 47.9 143.6
 145 0.0 14.3 42.9#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.01 min
 Lab File: VN055608.D
 Acq: 17 May 2019 14:26

Tgt Ion:225 Resp: 293
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.6 94.7#
 227 53.2 32.4 97.0





#95

Naphthalene

Concen: 1.988 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

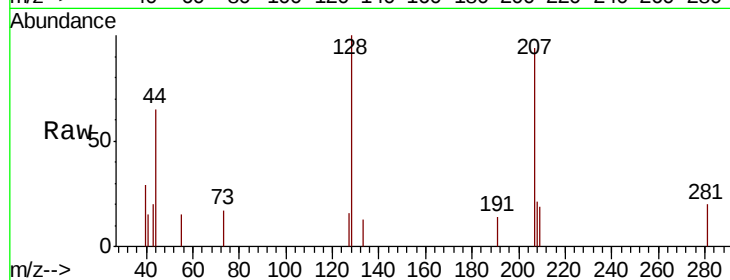
Lab File: VN055608.D

Acq: 17 May 2019 14:26

Instrument :

MSVOA_N

ClientSampleId :



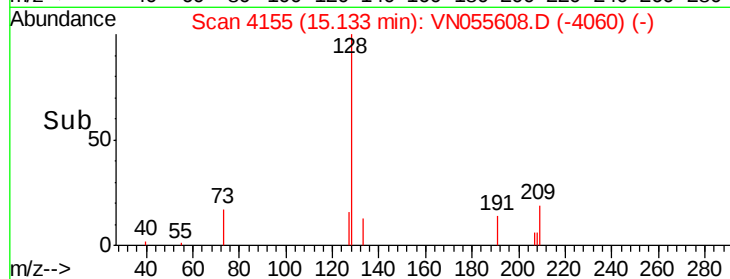
Tot Ion:128 Resp: 2215

Ion Ratio Lower Upper

128 100

127 5.0 10.2 15.4#

129 1.3 8.6 12.8#



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

