

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060319\
 Data File : VN055966.D
 Acq On : 3 Jun 2019 17:10
 Operator : JC/SP
 Sample : K3104-10
 Misc : 5.36g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 04 01:51:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

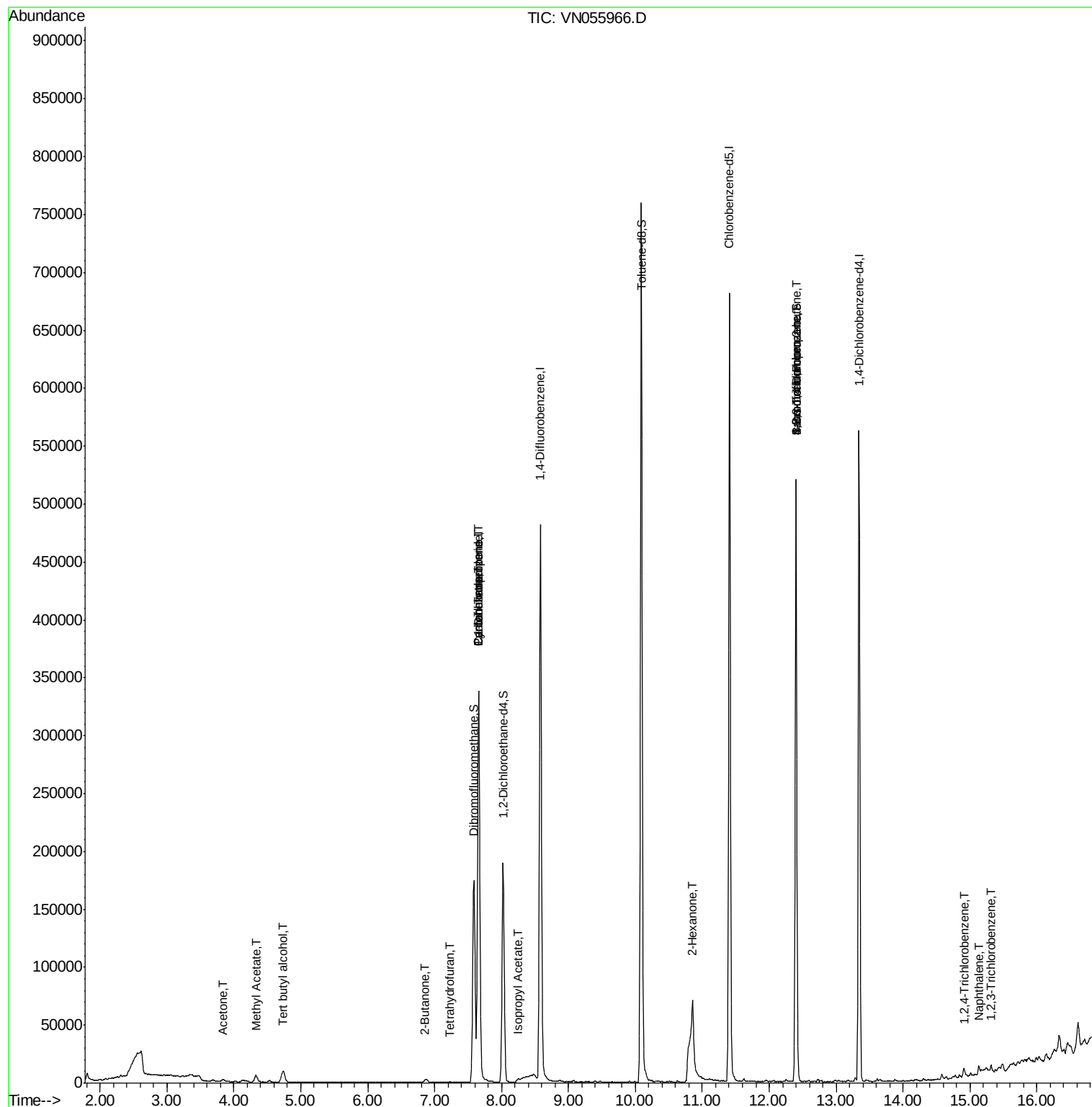
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	317733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	479452	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	430239	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	167678	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	156919	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
35) Dibromofluoromethane	7.59	113	136723	45.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.20%	
50) Toluene-d8	10.09	98	561666	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
62) 4-Bromofluorobenzene	12.40	95	183108	45.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.86%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	9456	15.083	ug/l #	74
16) Acetone	3.84	43	3438	2.384	ug/l	92
18) Methyl Acetate	4.33	43	12403	3.043	ug/l	93
25) 2-Butanone	6.85	43	489	0.243	ug/l #	47
29) Tetrahydrofuran	7.23	42	350	0.274	ug/l #	32
31) Cyclohexane	7.66	56	4758	0.966	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19049	4.559	ug/l #	48
38) Carbon Tetrachloride	7.66	117	26098	5.997	ug/l #	14
43) Isopropyl Acetate	8.24	43	2780	0.410	ug/l #	53
59) 2-Hexanone	10.85	43	49281	17.336	ug/l #	23
71) Bromoform	12.40	173	1212	0.414	ug/l #	1
73) Isopropylbenzene	12.25	105	998	Below Cal	#	59
74) N-amyl acetate	12.07	43	342	Below Cal	#	47
76) 1,2,3-Trichloropropane	12.40	75	83271	27.419	ug/l #	100
79) 2-Chlorotoluene	12.68	91	834	Below Cal	#	45
80) 1,3,5-Trimethylbenzene	12.73	105	1123	Below Cal		86
81) trans-1,4-Dichloro-2-buten	12.40	75	83271	66.818	ug/l #	15
83) tert-Butylbenzene	12.99	119	804	Below Cal	#	87
84) 1,2,4-Trimethylbenzene	13.04	105	1525	Below Cal		82
85) sec-Butylbenzene	13.17	105	1431	Below Cal	#	75
93) 1,2,4-Trichlorobenzene	14.91	180	2360	4.310	ug/l	94
94) Hexachlorobutadiene	15.01	225	628	Below Cal	#	59
95) Naphthalene	15.13	128	7607	0.981	ug/l	95
96) 1,2,3-Trichlorobenzene	15.31	180	3149	1.054	ug/l	88

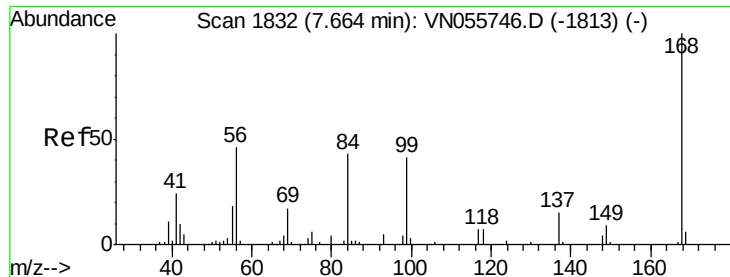
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN055966.D

Acq: 3 Jun 2019 17:10

Instrument :

MSVOA_N

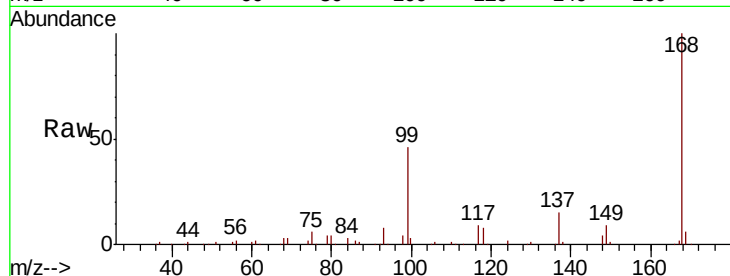
ClientSampleId :

Tot Ion:168 Resp: 317733

Ion Ratio Lower Upper

168 100

99 46.3 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055746.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055746.D (-1813) (-)

7.66

150000

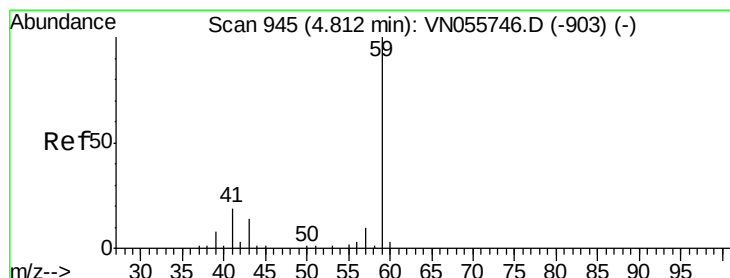
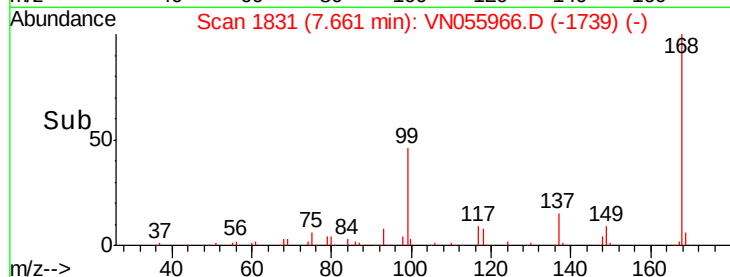
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 15.083 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN055966.D

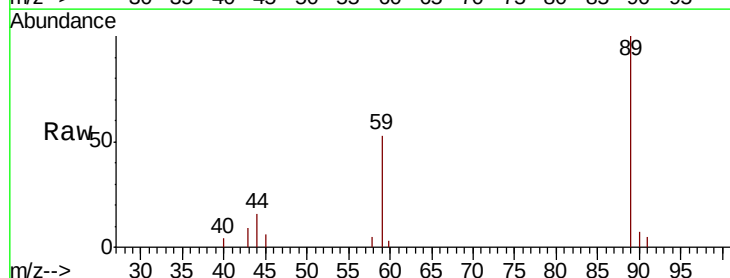
Acq: 3 Jun 2019 17:10

Tgt Ion: 59 Resp: 9456

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055746.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN055746.D (-903) (-)

4.74

3000

2500

2000

1500

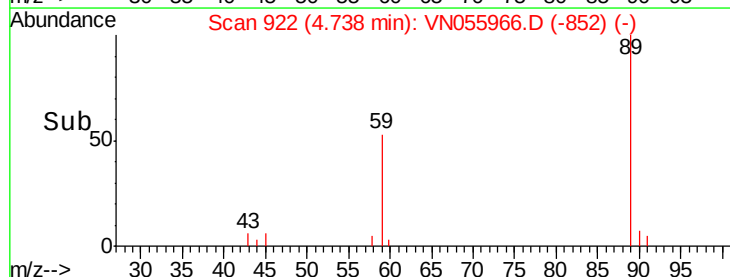
1000

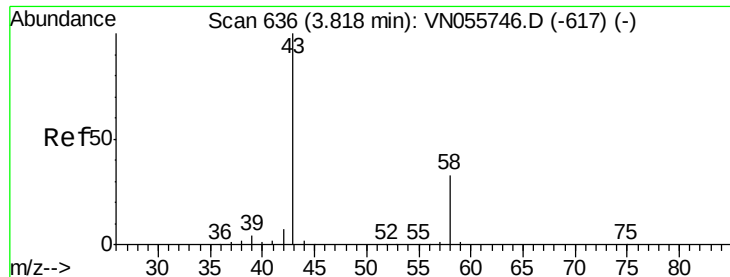
500

0

4.70 4.80

Time-->





#16

Acetone

Concen: 2.384 ug/l

RT: 3.84 min Scan# 642

Delta R.T. 0.02 min

Lab File: VN055966.D

Acq: 3 Jun 2019 17:10

Instrument :

MSVOA_N

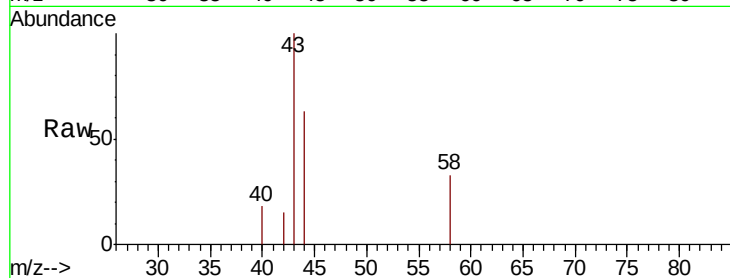
ClientSampled :

Tot Ion: 43 Resp: 3438

Ion Ratio Lower Upper

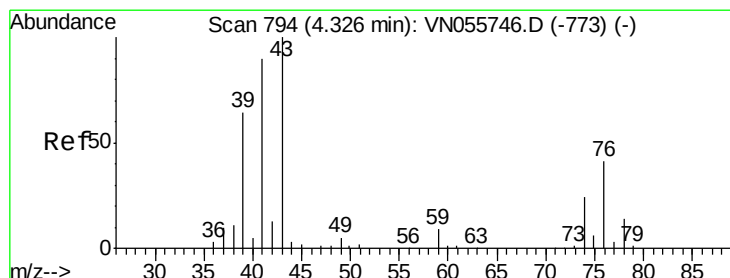
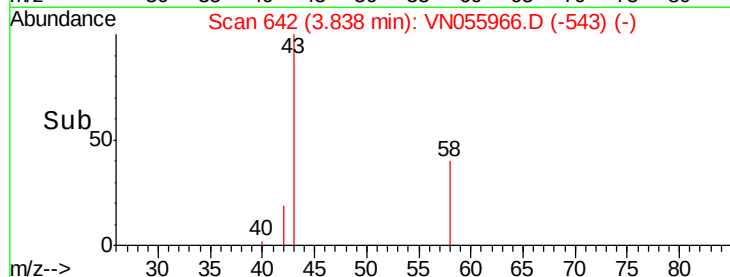
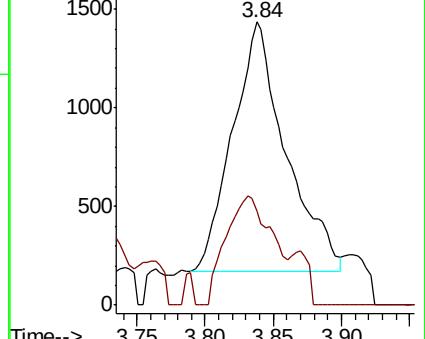
43 100

58 37.5 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 3.043 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055966.D

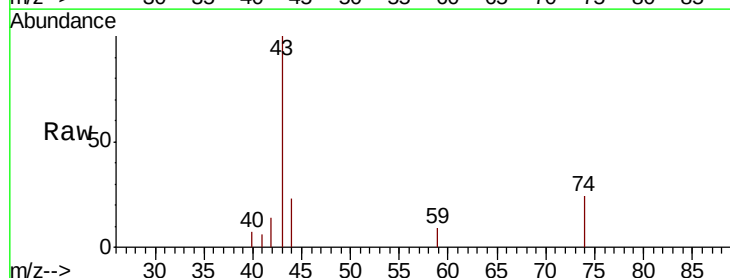
Acq: 3 Jun 2019 17:10

Tgt Ion: 43 Resp: 12403

Ion Ratio Lower Upper

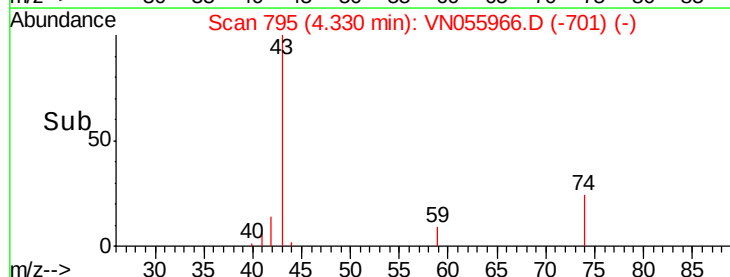
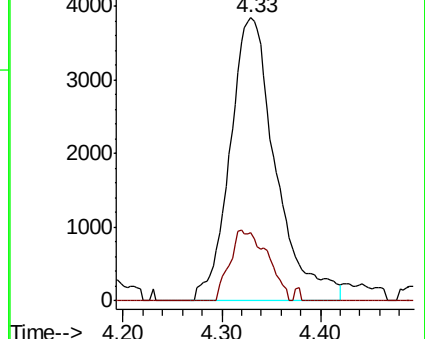
43 100

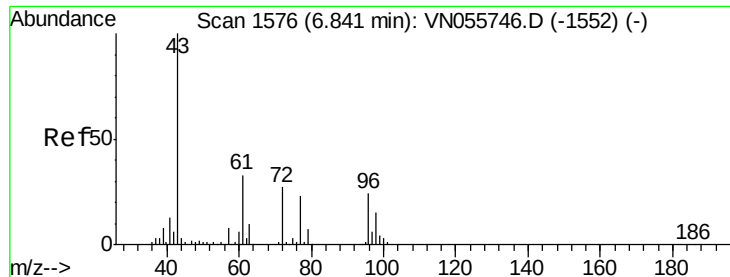
74 20.6 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#25

2-Butanone

Concen: 0.243 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN055966.D

Acq: 3 Jun 2019 17:10

Instrument :

MSVOA_N

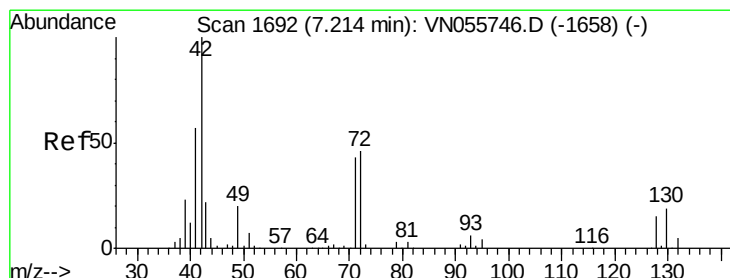
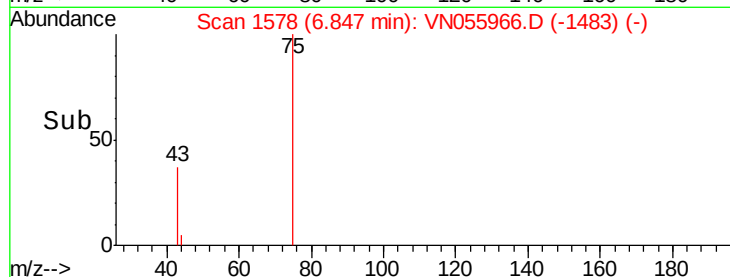
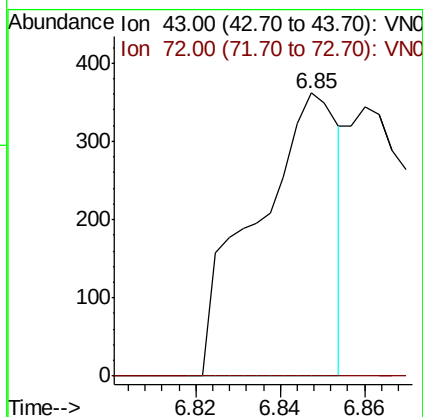
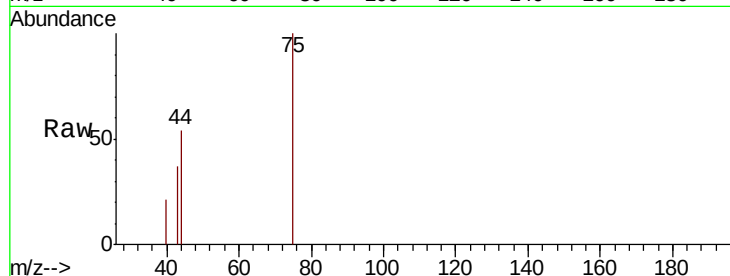
ClientSampled :

Tot Ion: 43 Resp: 489

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#



#29

Tetrahydrofuran

Concen: 0.274 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VN055966.D

Acq: 3 Jun 2019 17:10

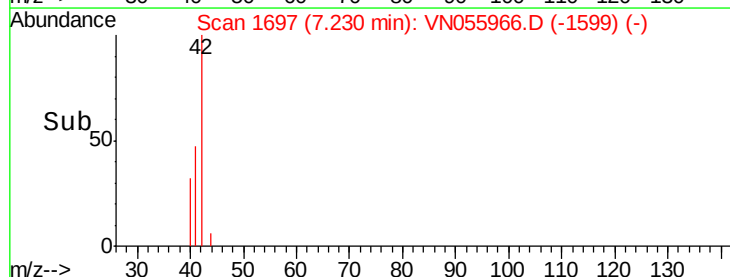
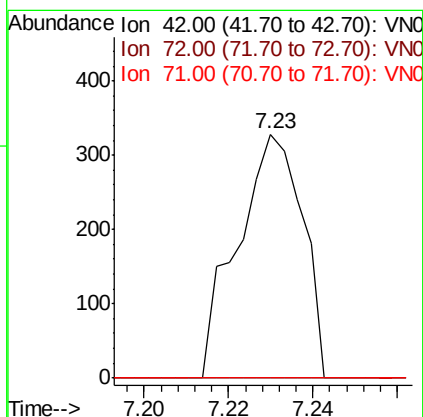
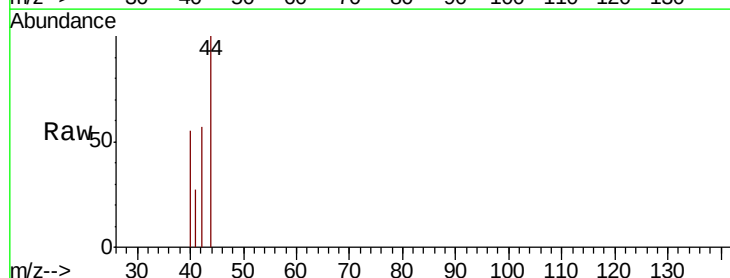
Tgt Ion: 42 Resp: 350

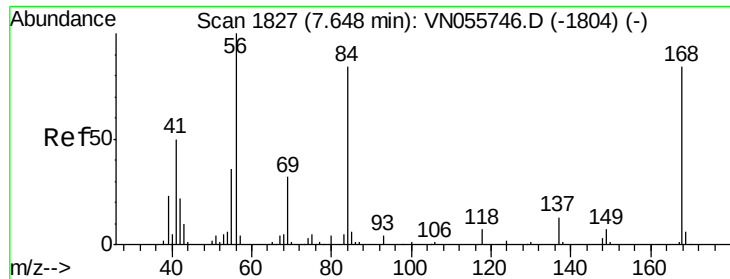
Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

71 0.0 34.0 51.0#

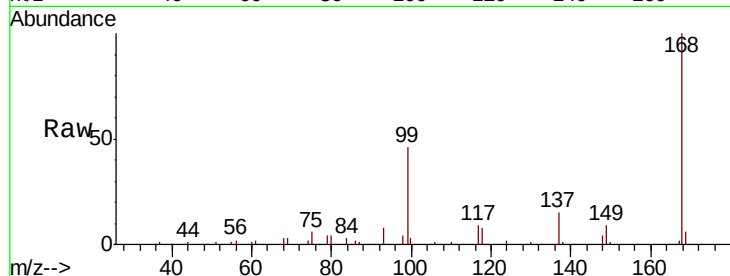




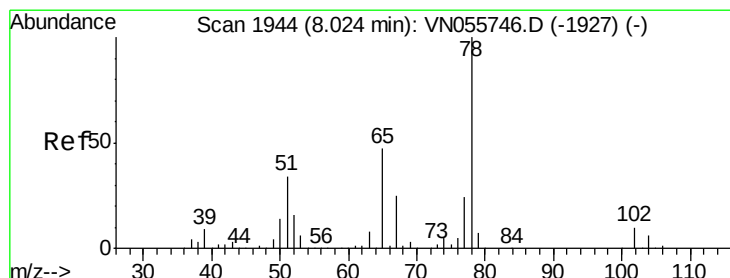
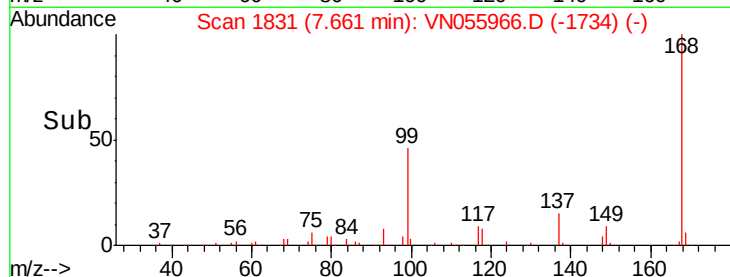
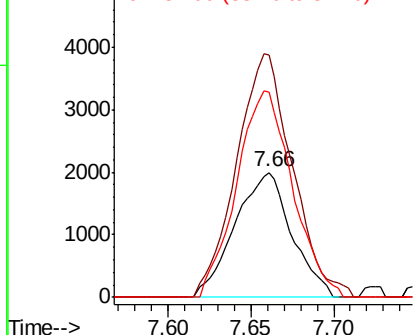
#31
Cyclohexane
Concen: 0.966 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4758
Ion Ratio Lower Upper
56 100
69 194.0 25.6 38.4#
84 164.4 67.4 101.0#

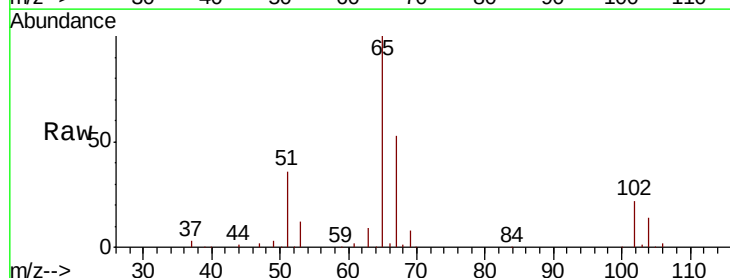


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

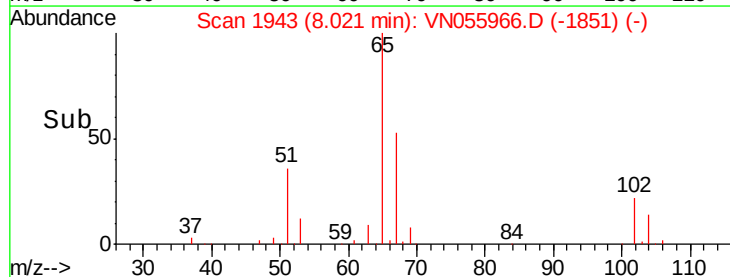
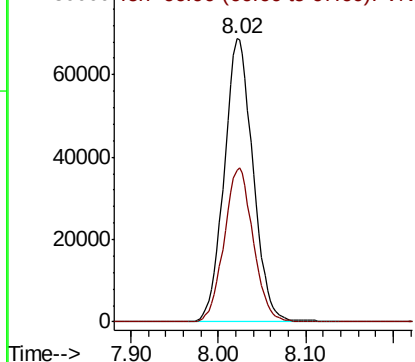


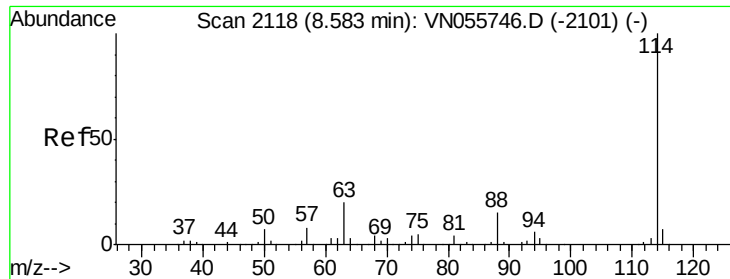
#33
1,2-Dichloroethane-d4
Concen: 47.822 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Tgt Ion: 65 Resp: 156919
Ion Ratio Lower Upper
65 100
67 54.5 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

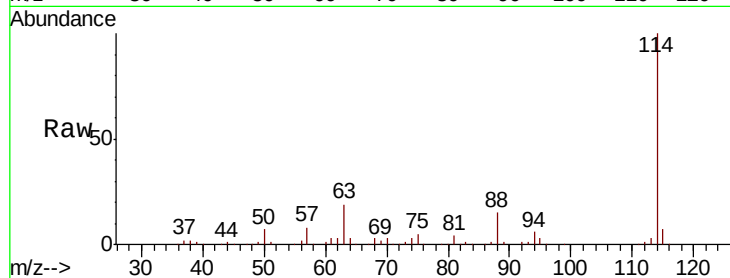




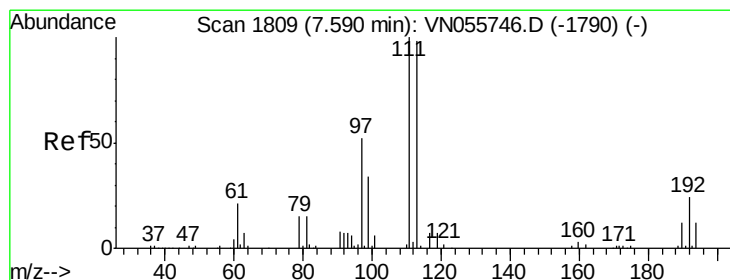
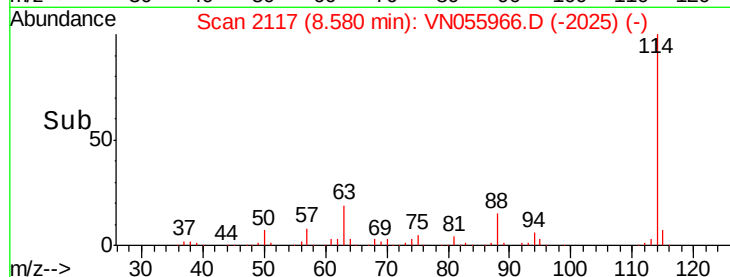
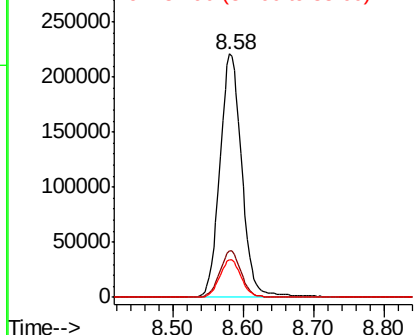
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2117
Delta R.T. -0.00 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 479452
Ion Ratio Lower Upper
114 100
63 19.0 0.0 39.2
88 15.3 0.0 31.0

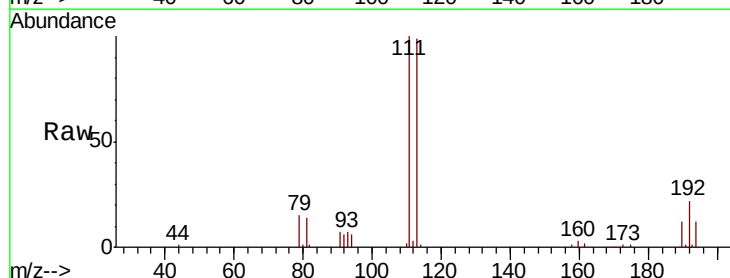


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

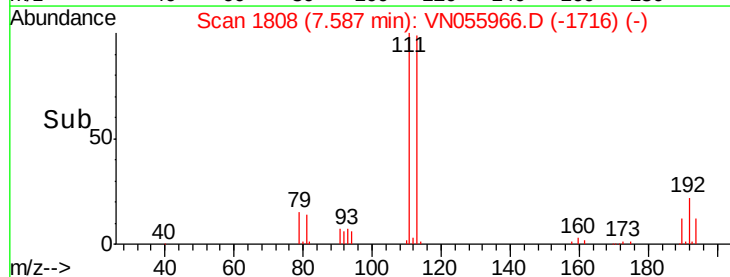
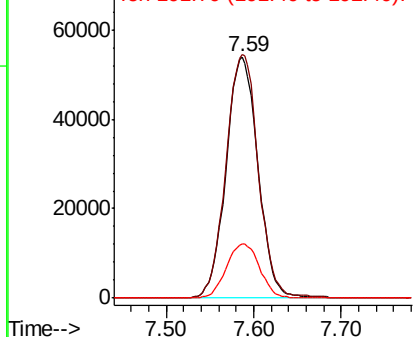


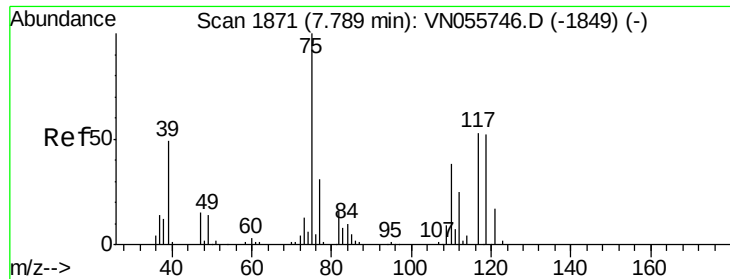
#35
Dibromofluoromethane
Concen: 45.104 ug/l
RT: 7.59 min Scan# 1808
Delta R.T. -0.00 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Tgt Ion:113 Resp: 136723
Ion Ratio Lower Upper
113 100
111 102.4 81.9 122.9
192 23.3 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

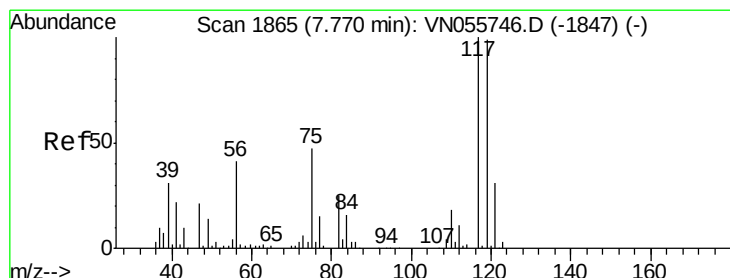
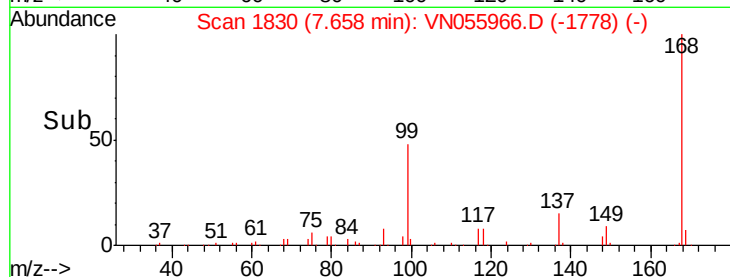
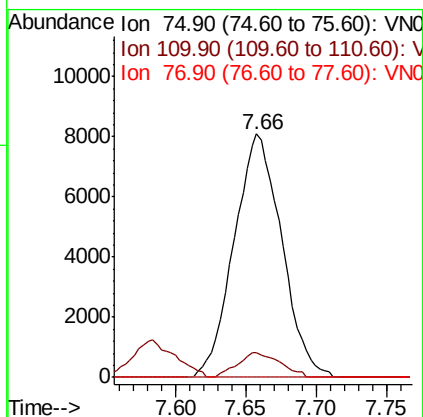
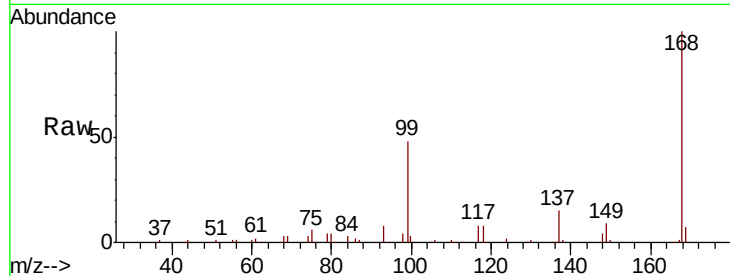




#36
 1,1-Dichloropropene
 Concen: 4.559 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN055966.D
 Acq: 3 Jun 2019 17:10

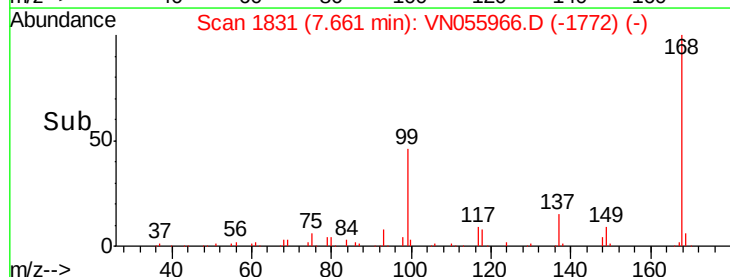
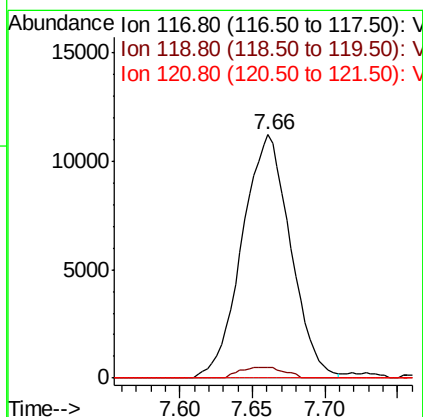
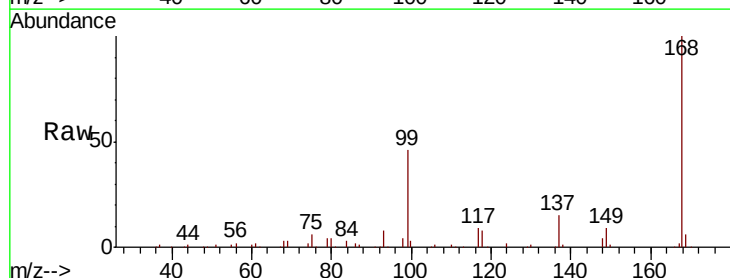
Instrument :
 MSVOA_N
 ClientSampled :

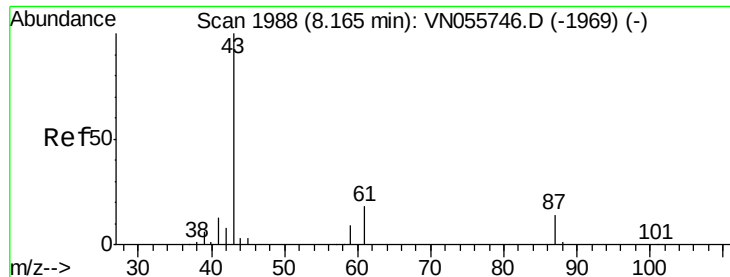
Tot Ion: 75 Resp: 19049
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.0 57.0#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.997 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN055966.D
 Acq: 3 Jun 2019 17:10

Tgt Ion: 117 Resp: 26098
 Ion Ratio Lower Upper
 117 100
 119 4.4 79.0 118.6#
 121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 0.410 ug/l

RT: 8.24 min Scan# 2012

Delta R.T. 0.08 min

Lab File: VN055966.D

Acq: 3 Jun 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

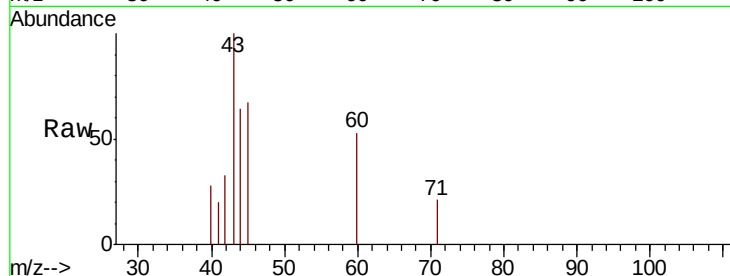
Tot Ion: 43 Resp: 2780

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

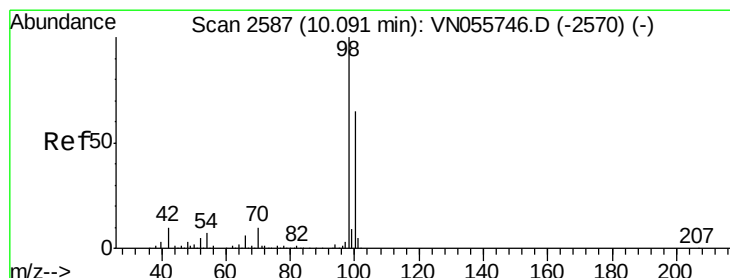
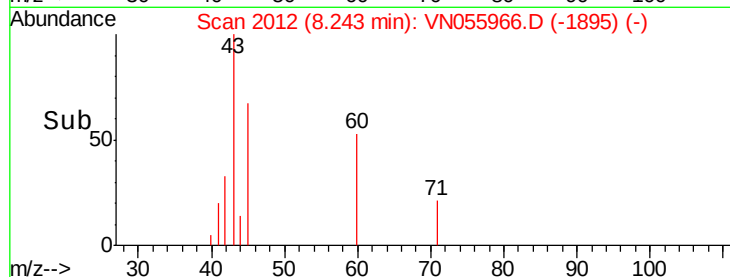
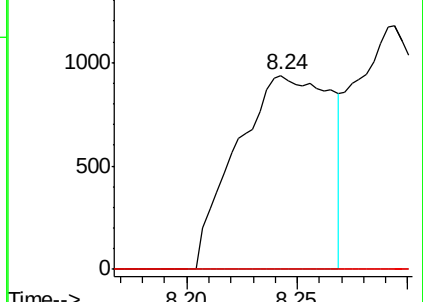
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 48.305 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055966.D

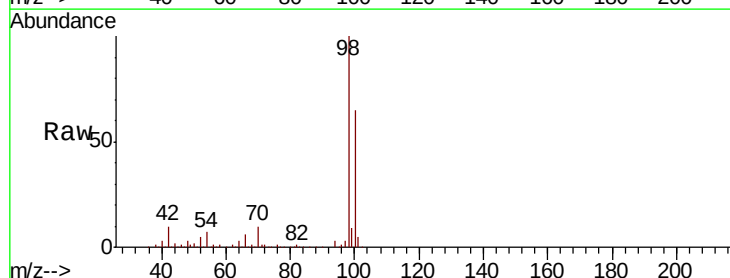
Acq: 3 Jun 2019 17:10

Tgt Ion: 98 Resp: 561666

Ion Ratio Lower Upper

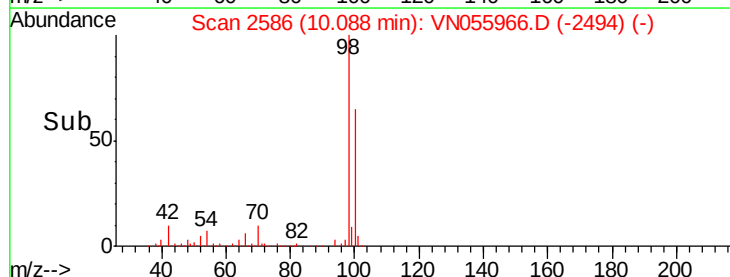
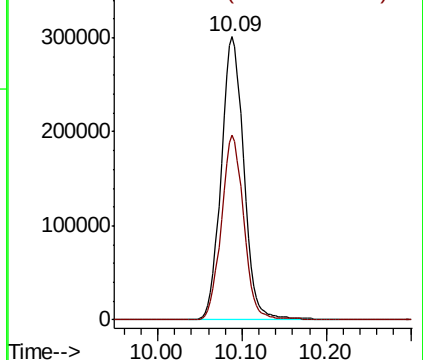
98 100

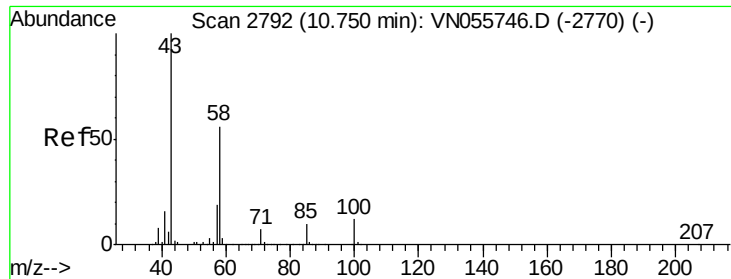
100 64.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

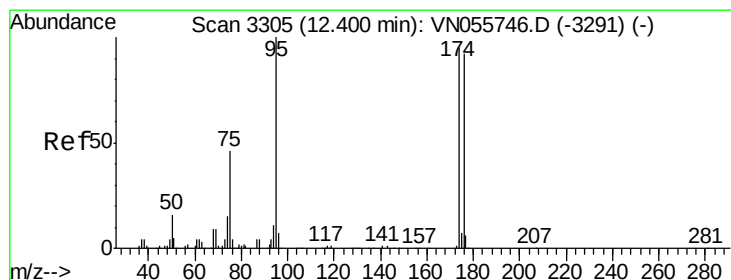
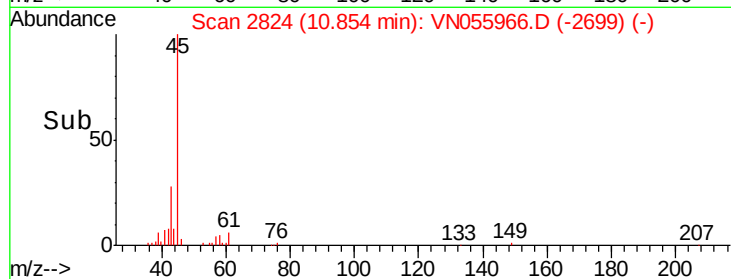
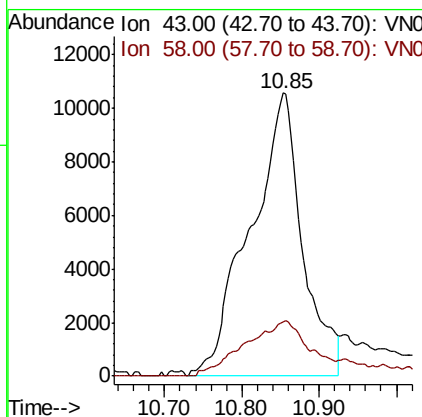
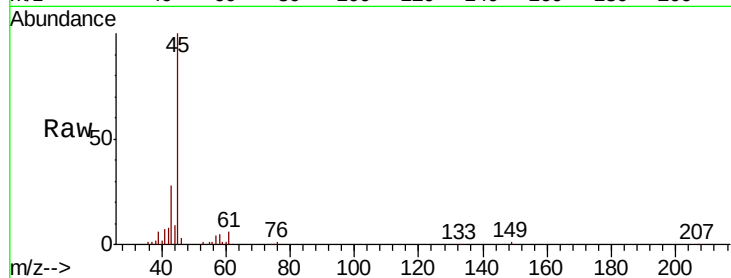




#59
2-Hexanone
Concen: 17.336 ug/l
RT: 10.85 min Scan# 2824
Delta R.T. 0.10 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

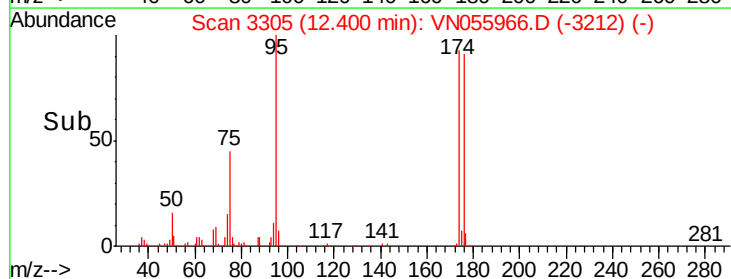
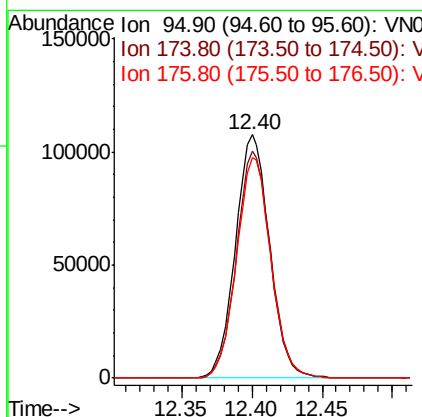
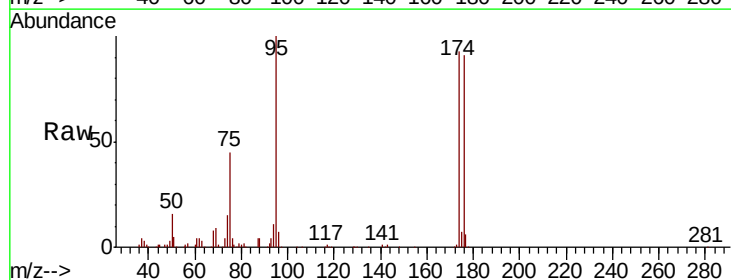
Instrument :
MSVOA_N
ClientSampleId :

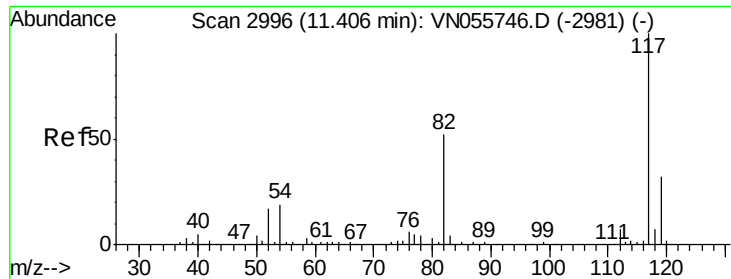
Tot Ion: 43 Resp: 49281
Ion Ratio Lower Upper
43 100
58 0.0 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 45.926 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Tgt Ion: 95 Resp: 183108
Ion Ratio Lower Upper
95 100
174 93.3 0.0 191.0
176 90.8 0.0 185.2

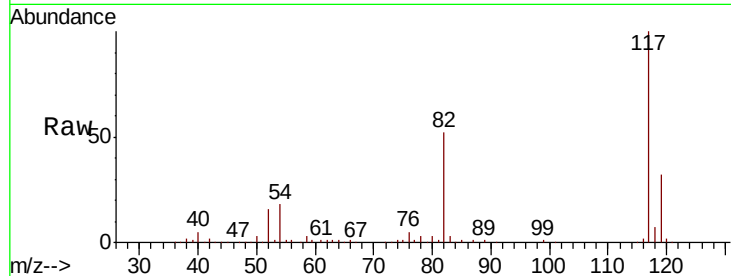




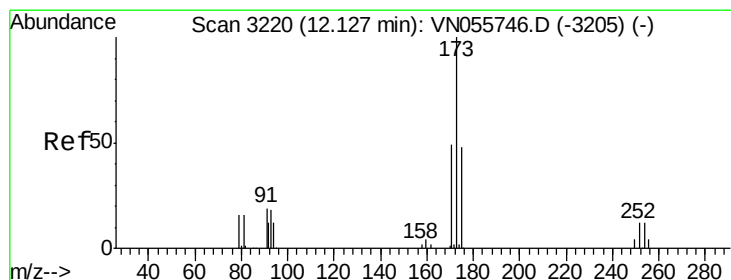
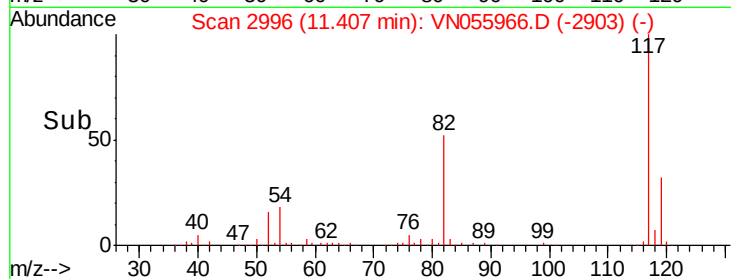
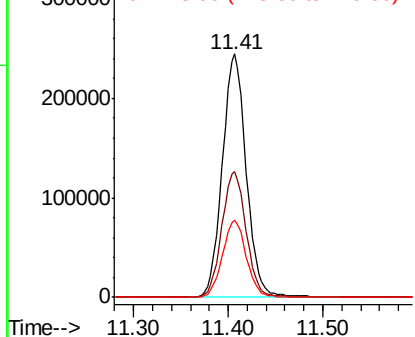
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 430239
Ion Ratio Lower Upper
117 100
82 51.8 41.8 62.8
119 31.9 25.4 38.0

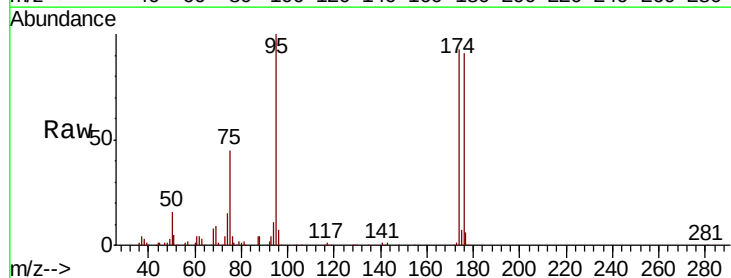


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

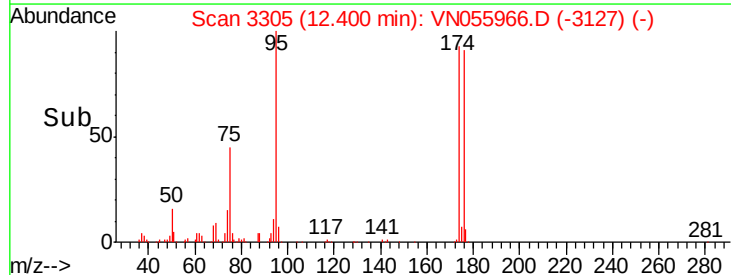
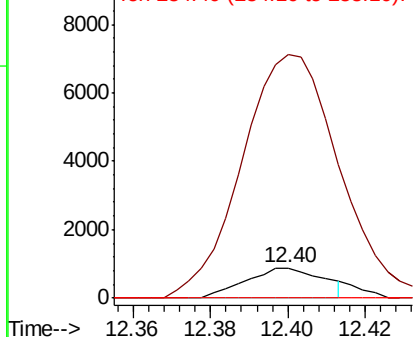


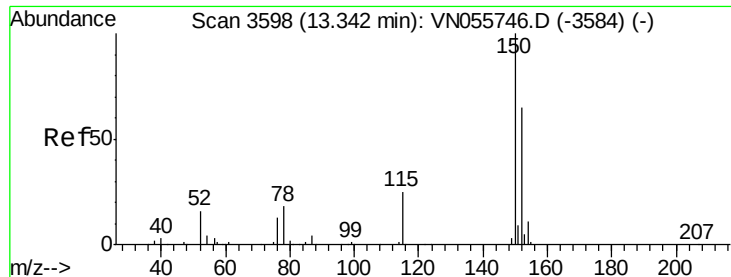
#71
Bromoform
Concen: 0.414 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Tgt Ion:173 Resp: 1212
Ion Ratio Lower Upper
173 100
175 904.4 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



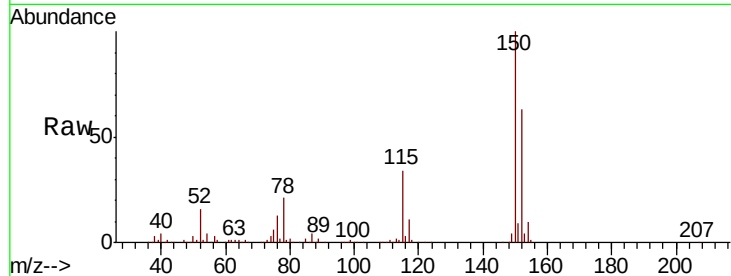


#72

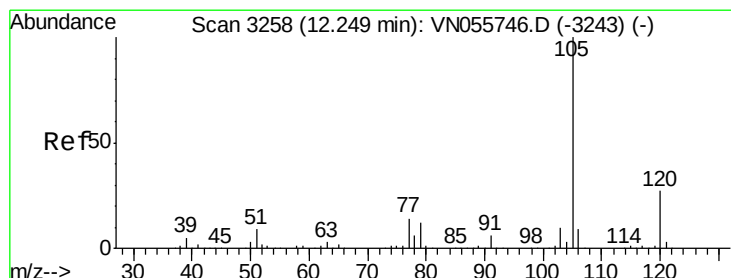
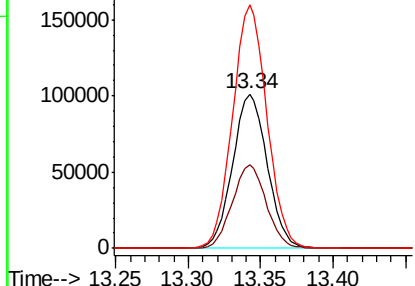
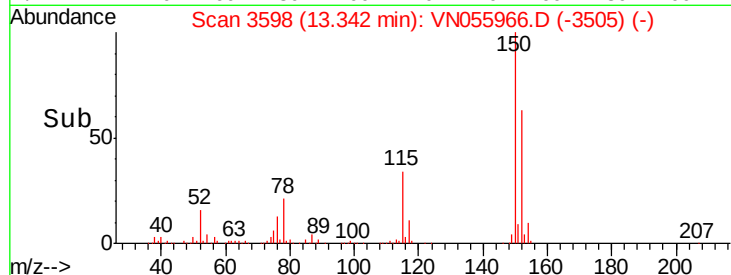
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 167678
Ion Ratio Lower Upper
152 100
115 53.0 27.0 81.0
150 156.7 0.0 343.2



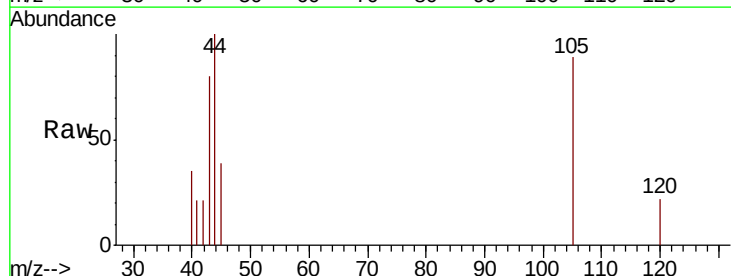
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



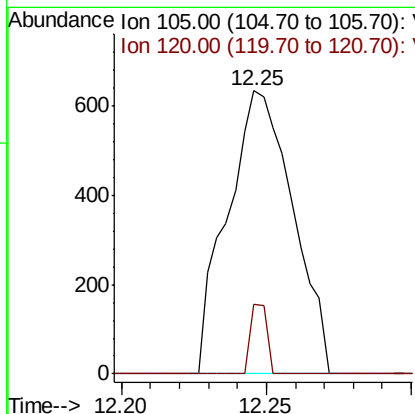
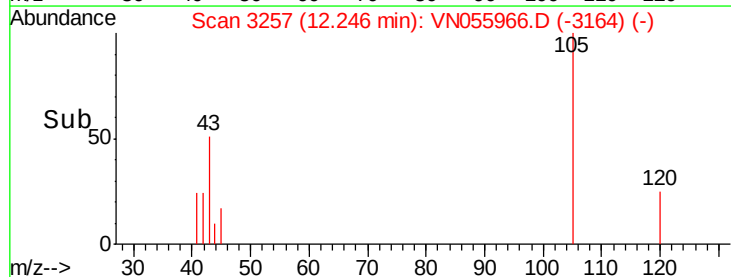
#73

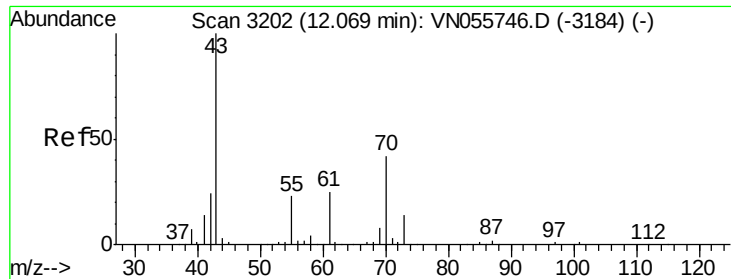
Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3257
Delta R.T. -0.00 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Tgt Ion:105 Resp: 998
Ion Ratio Lower Upper
105 100
120 6.0 13.6 40.7#



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





#74

N-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN055966.D

Acq: 3 Jun 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 342

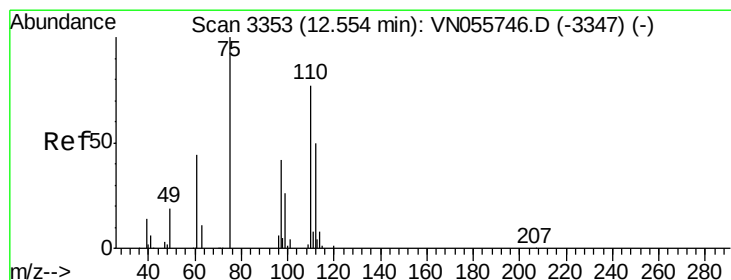
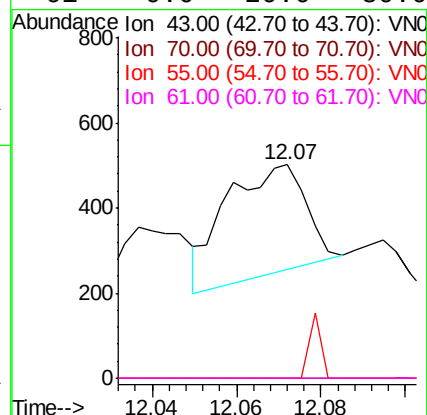
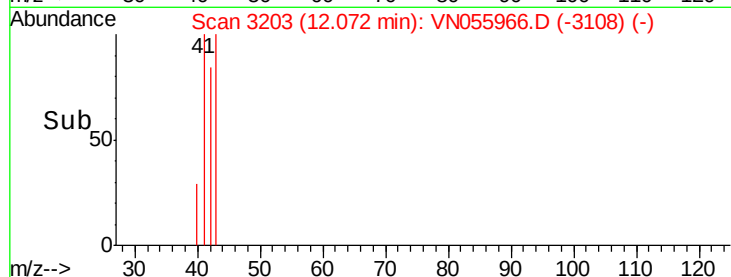
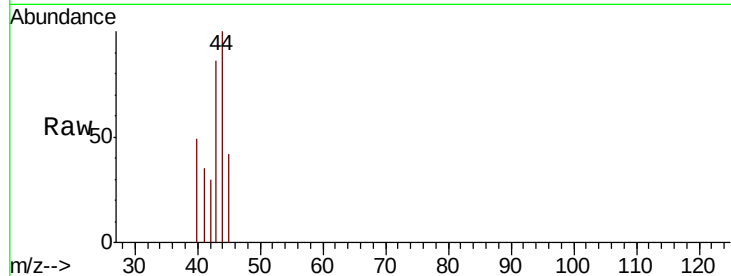
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 8.5 18.6 28.0#

61 0.0 20.0 30.0#



#76

1,2,3-Trichloropropane

Concen: 27.419 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055966.D

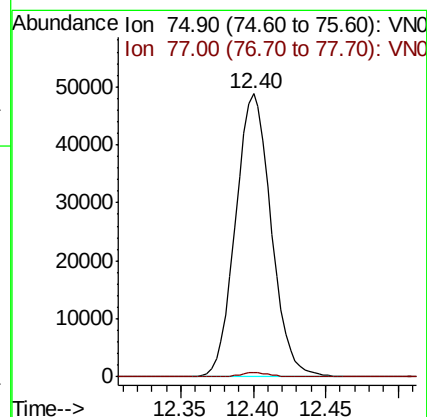
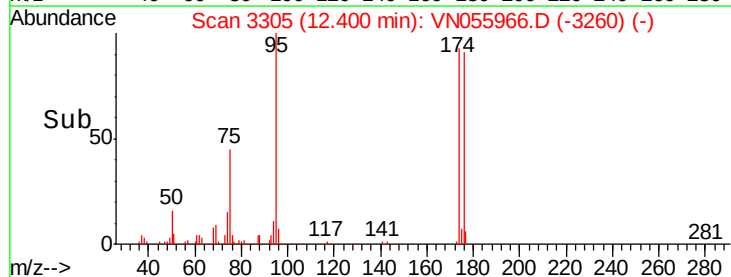
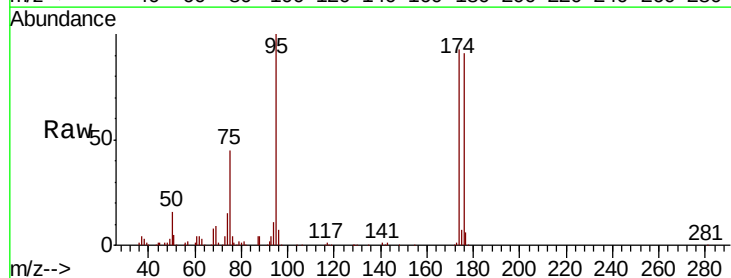
Acq: 3 Jun 2019 17:10

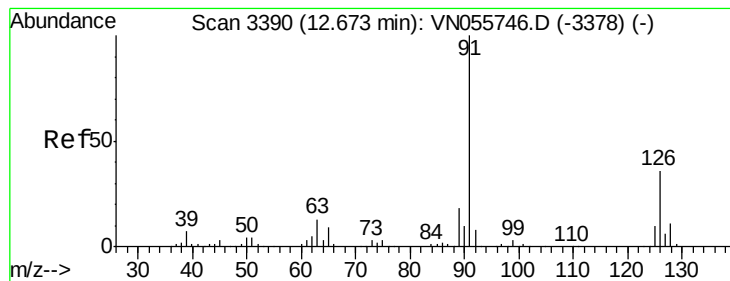
Tgt Ion: 75 Resp: 83271

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055966.D

Acq: 3 Jun 2019 17:10

Instrument :

MSVOA_N

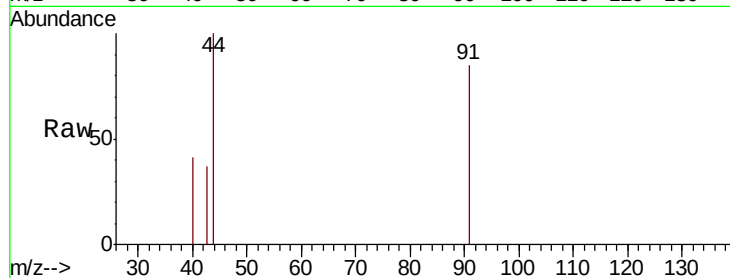
ClientSampled :

Tot Ion: 91 Resp: 834

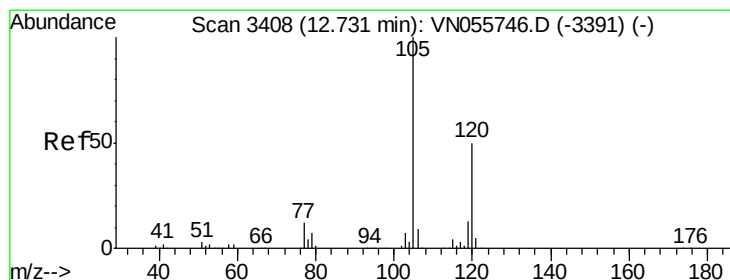
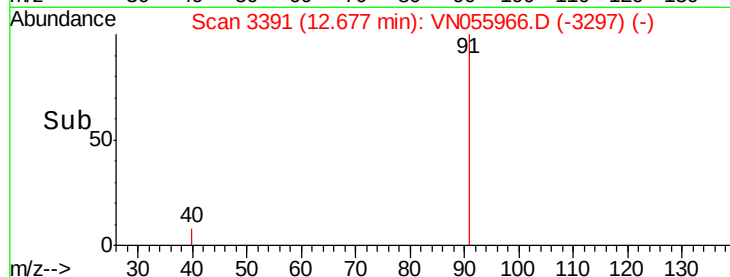
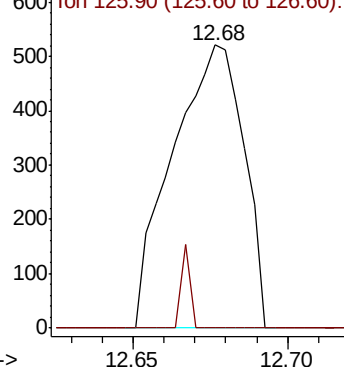
Ion Ratio Lower Upper

91 100

126 3.6 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055746.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055966.D

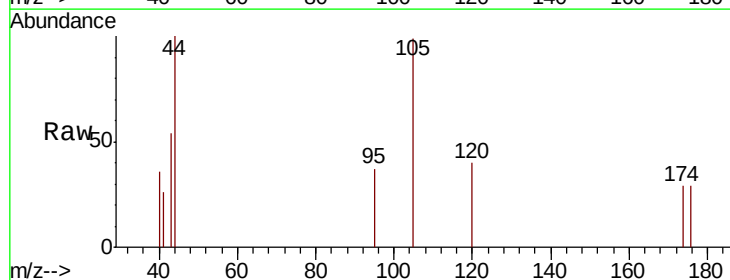
Acq: 3 Jun 2019 17:10

Tgt Ion: 105 Resp: 1123

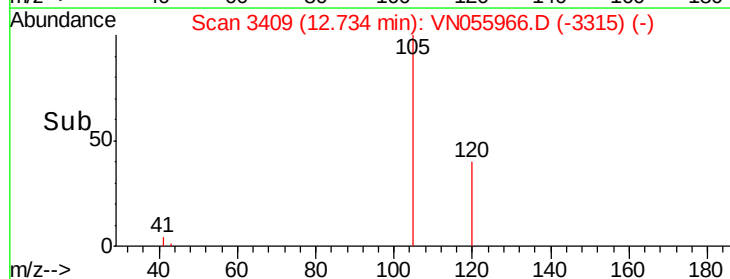
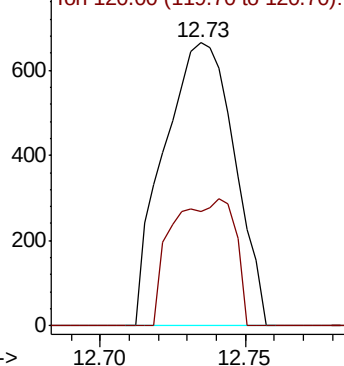
Ion Ratio Lower Upper

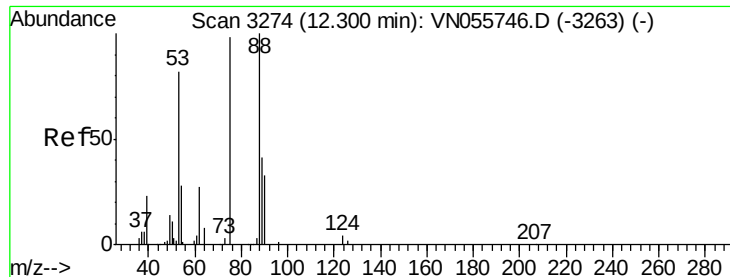
105 100

120 39.6 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN055746.D (-3391) (-)

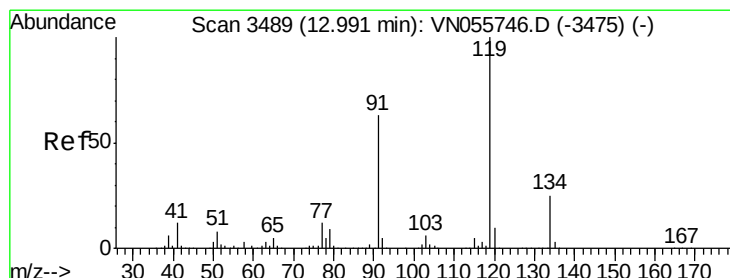
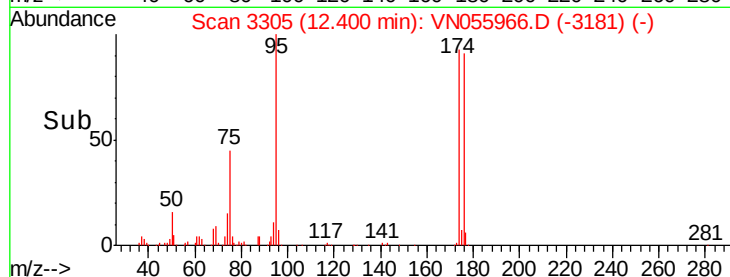
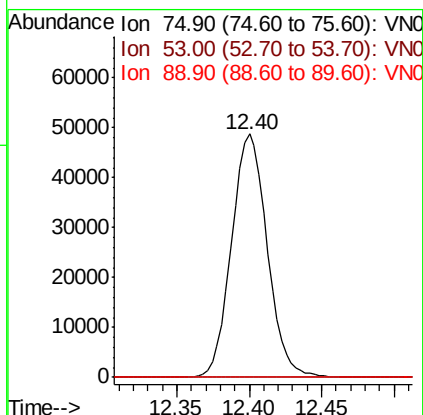
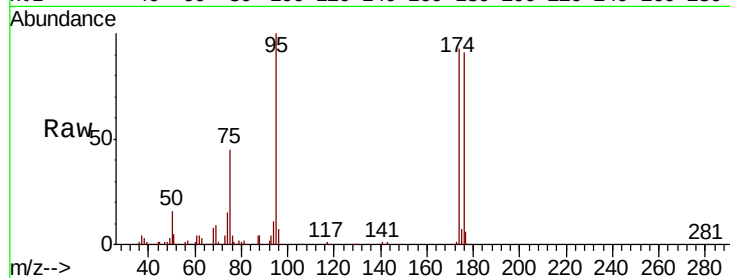




#81
trans-1,4-Dichloro-2-butene
Concen: 66.818 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

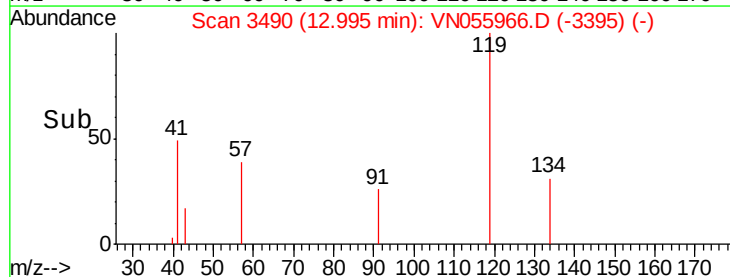
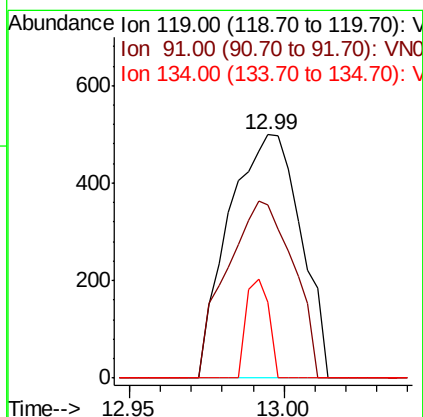
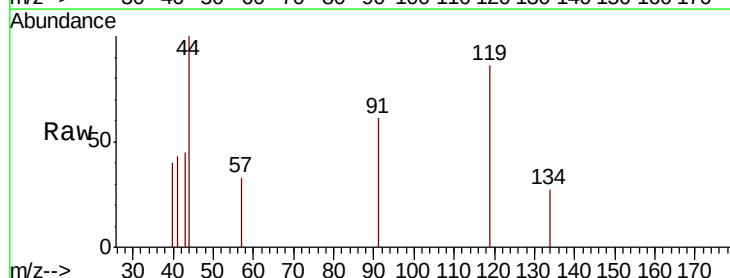
Instrument :
MSVOA_N
ClientSampled :

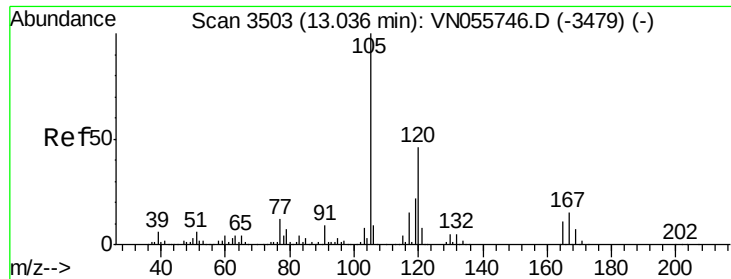
Tot Ion: 75 Resp: 83271
Ion Ratio Lower Upper
75 100
53 0.0 68.1 102.1#
89 0.0 36.9 55.3#



#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Tgt Ion: 119 Resp: 804
Ion Ratio Lower Upper
119 100
91 67.5 30.9 92.8
134 12.9 13.3 39.8#

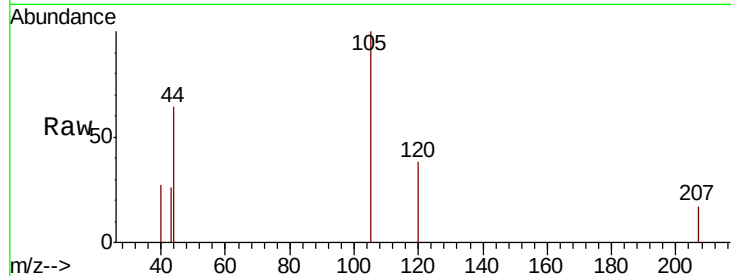




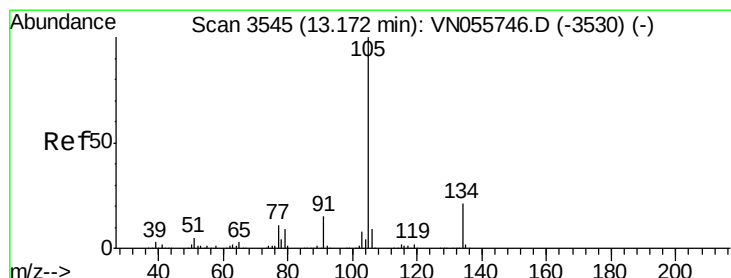
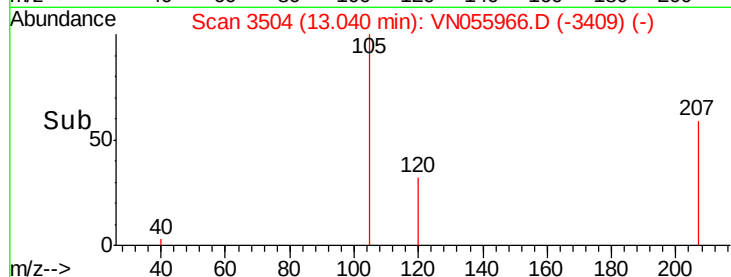
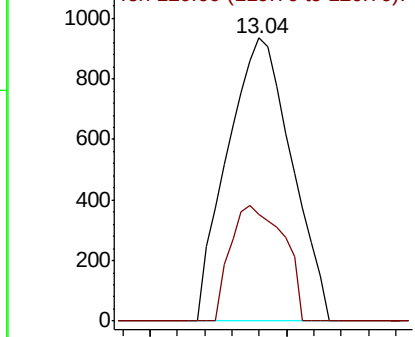
#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:105 Resp: 1525
Ion Ratio Lower Upper
105 100
120 34.1 23.0 69.0

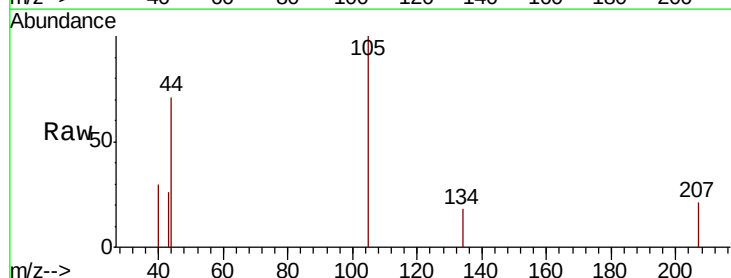


Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

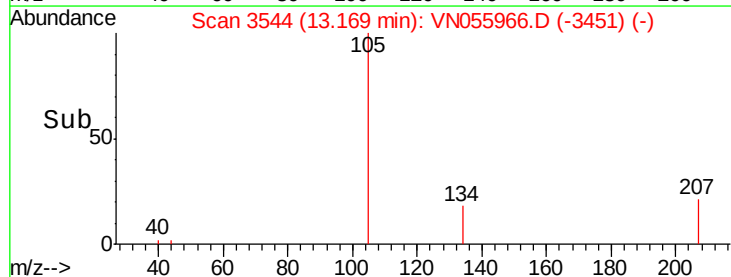
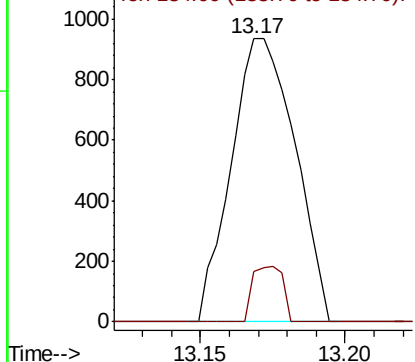


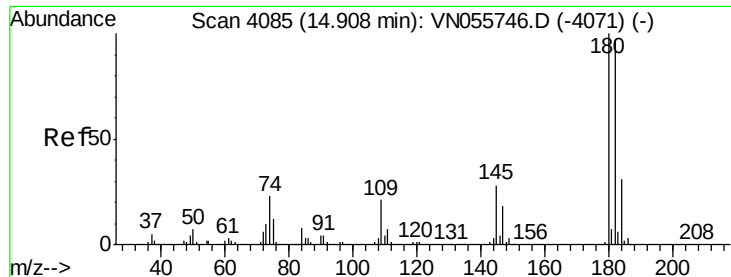
#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.17 min Scan# 3544
Delta R.T. -0.00 min
Lab File: VN055966.D
Acq: 3 Jun 2019 17:10

Tgt Ion:105 Resp: 1431
Ion Ratio Lower Upper
105 100
134 9.3 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V

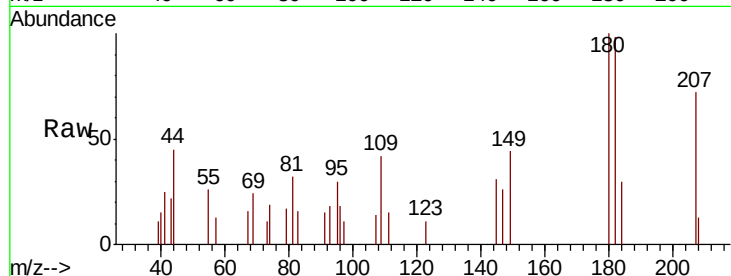




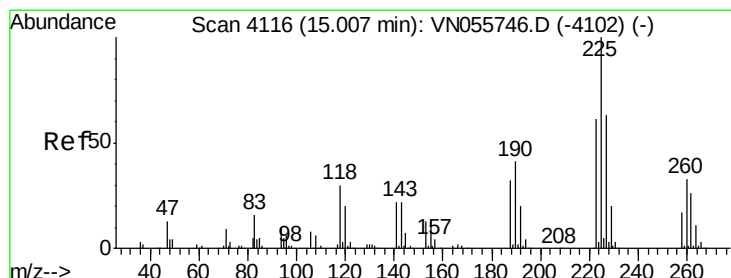
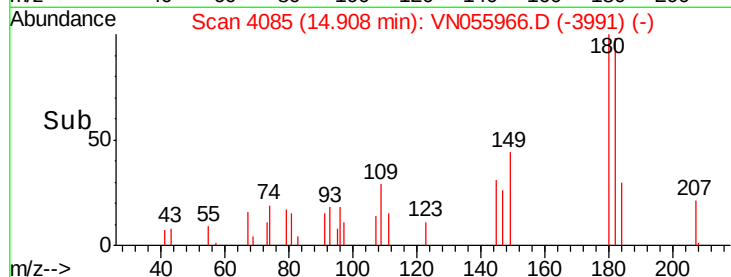
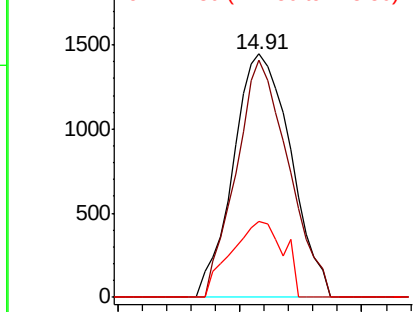
#93
 1,2,4-Trichlorobenzene
 Concen: 4.310 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055966.D
 Acq: 3 Jun 2019 17:10

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 2360
 Ion Ratio Lower Upper
 180 100
 182 88.9 48.3 144.9
 145 28.6 14.0 41.9

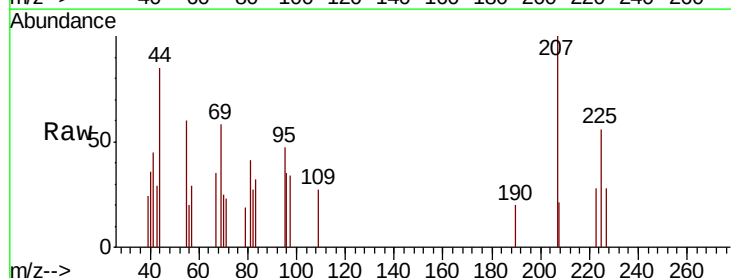


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

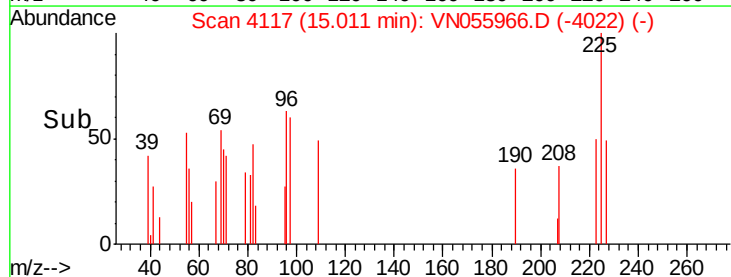
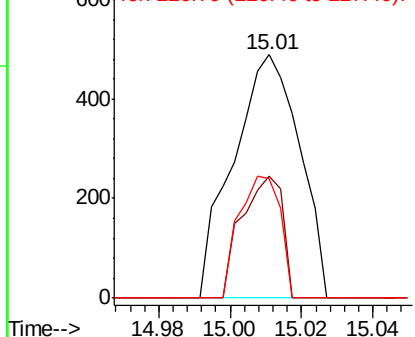


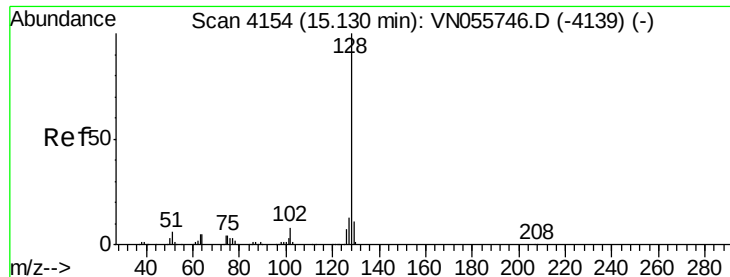
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN055966.D
 Acq: 3 Jun 2019 17:10

Tgt Ion:225 Resp: 628
 Ion Ratio Lower Upper
 225 100
 223 30.9 30.9 92.7#
 227 31.1 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: 0.981 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055966.D

Acq: 3 Jun 2019 17:10

Instrument :

MSVOA_N

ClientSampleId :

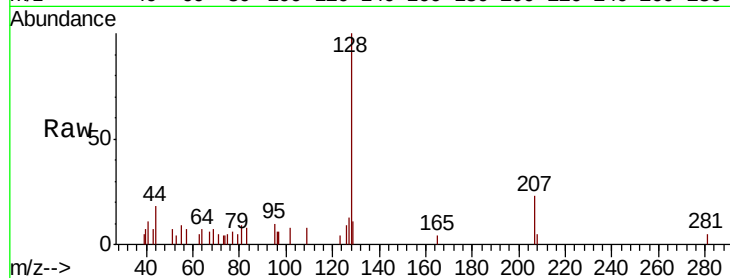
Tot Ion:128 Resp: 7607

Ion Ratio Lower Upper

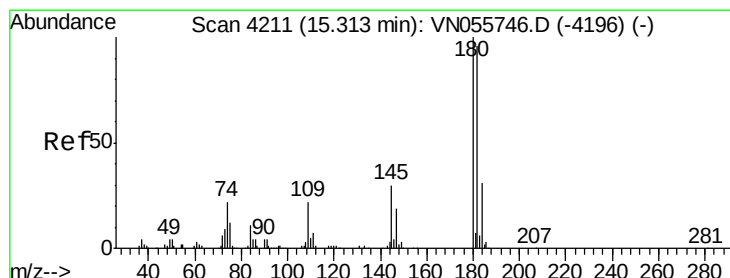
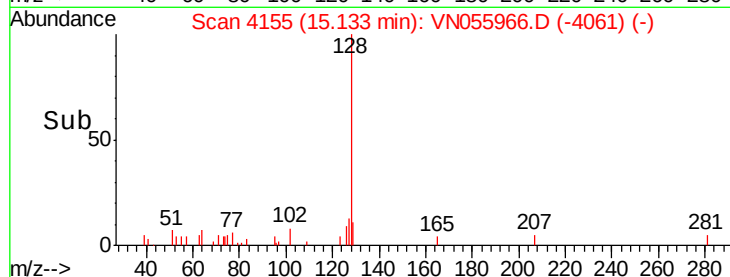
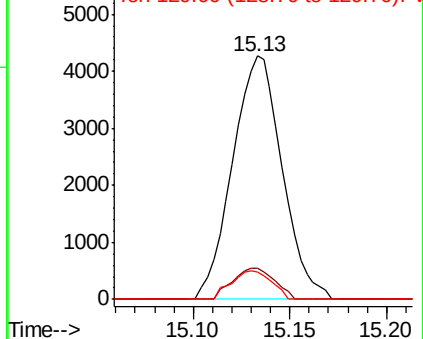
128 100

127 10.9 10.3 15.5

129 9.5 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: 1.054 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055966.D

Acq: 3 Jun 2019 17:10

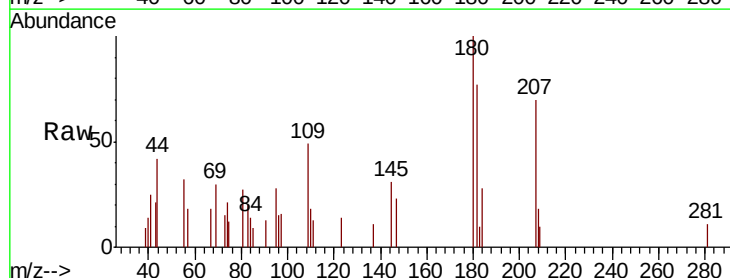
Tgt Ion:180 Resp: 3149

Ion Ratio Lower Upper

180 100

182 81.5 47.9 143.7

145 27.8 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

