

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058308.D
 Acq On : 23 Sep 2019 21:48
 Operator : JC/SP
 Sample : VN0920WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:37:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	482691	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	790746	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	676515	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	272908	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	358045	53.26	ug/l	0.00
Spiked Amount			Recovery	=	106.52%	
35) Dibromofluoromethane	7.58	113	245282	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
50) Toluene-d8	10.09	98	998517	53.31	ug/l	0.00
Spiked Amount			Recovery	=	106.62%	
62) 4-Bromofluorobenzene	12.41	95	315885	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	

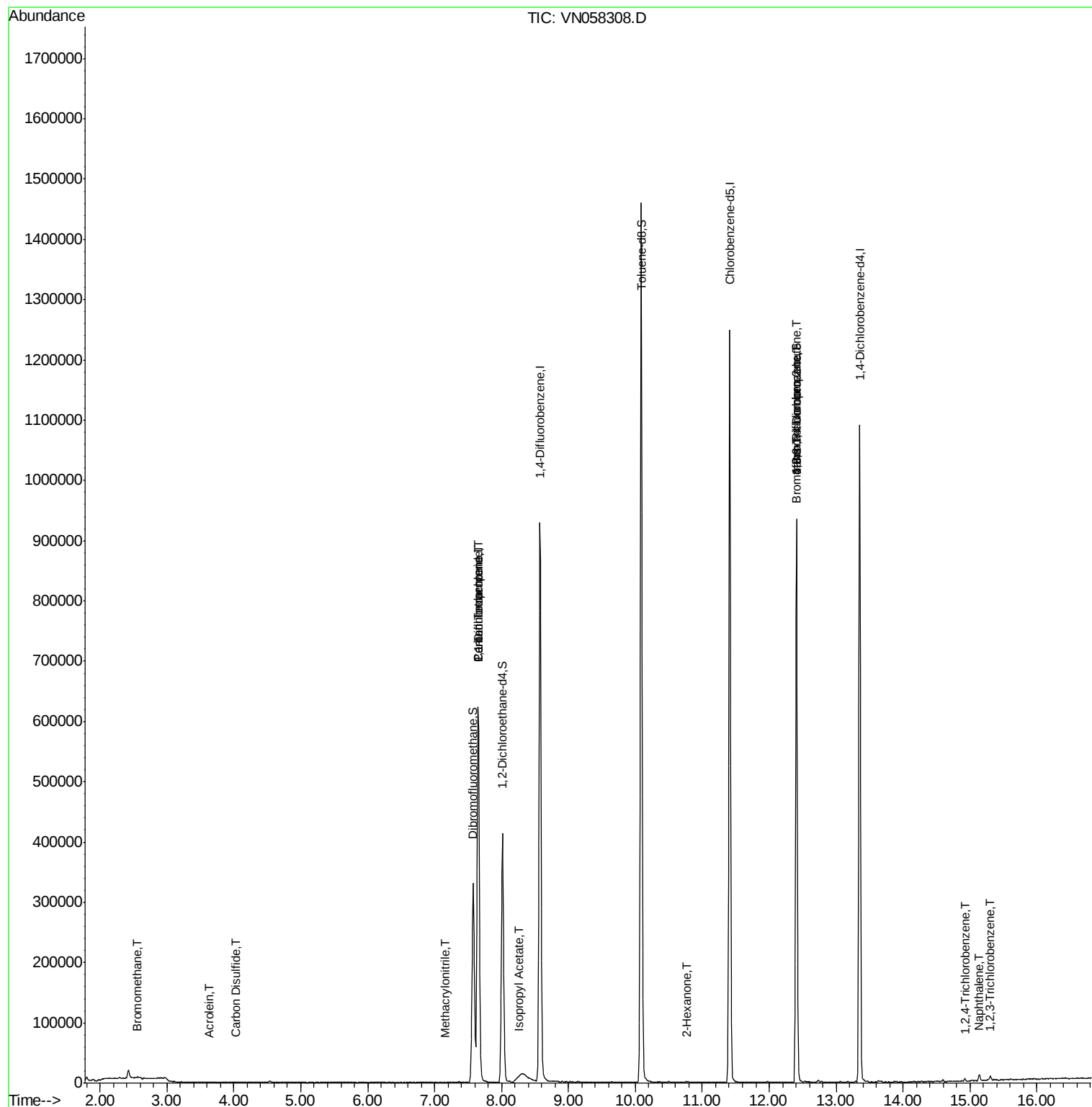
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	403	Below Cal	#	42
5) Bromomethane	2.55	94	307	0.893	ug/l #	44
6) Chloroethane	2.71	64	72	Below Cal	#	44
13) Acrolein	3.62	56	32	0.270	ug/l #	15
17) Carbon Disulfide	4.03	76	596	0.413	ug/l #	74
20) Methylene Chloride	4.52	84	756	Below Cal	#	80
31) Cyclohexane	7.65	56	11916	Below Cal	#	6
36) 1,1-Dichloropropene	7.65	75	41522	7.281	ug/l #	51
38) Carbon Tetrachloride	7.65	117	50929	8.885	ug/l #	15
41) Methacrylonitrile	7.15	41	30	0.921	ug/l #	100
43) Isopropyl Acetate	8.25	43	11128	1.007	ug/l #	57
59) 2-Hexanone	10.76	43	2125	0.487	ug/l #	38
71) Bromoform	12.39	173	370	3.702	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	172598	35.338	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	172598	98.797	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.92	180	1865	0.371	ug/l	82
95) Naphthalene	15.14	128	8767	0.673	ug/l	96
96) 1,2,3-Trichlorobenzene	15.30	180	1042	0.219	ug/l #	11

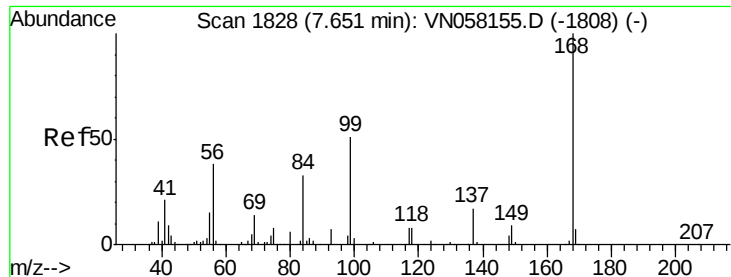
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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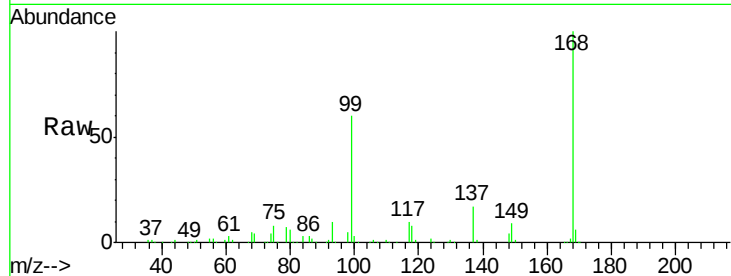




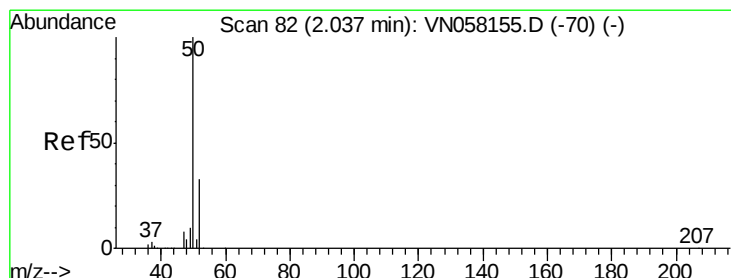
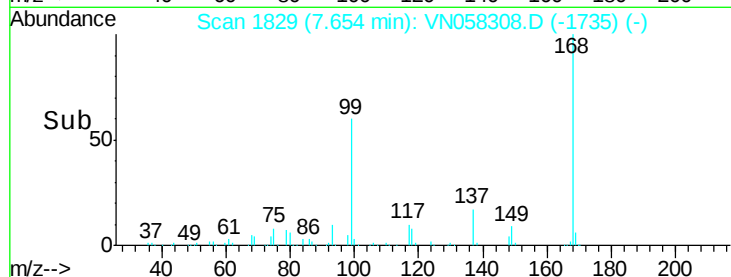
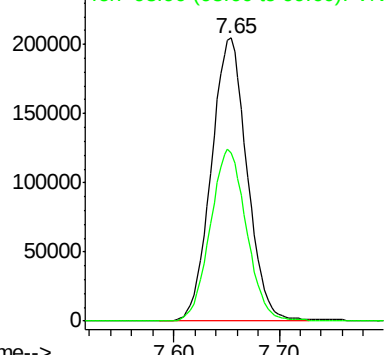
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN058308.D
Acq: 23 Sep 2019 21:48

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 482691
Ion Ratio Lower Upper
168 100
99 59.6 47.4 71.2

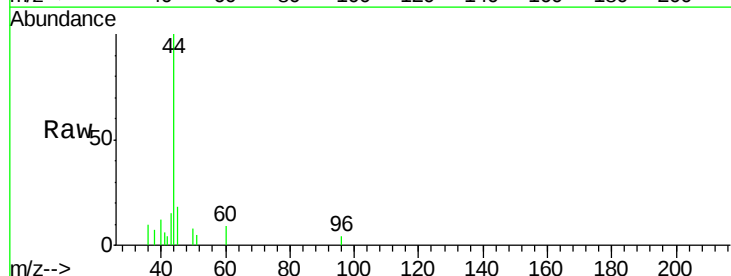


Abundance Ion 167.90 (167.60 to 168.60): V

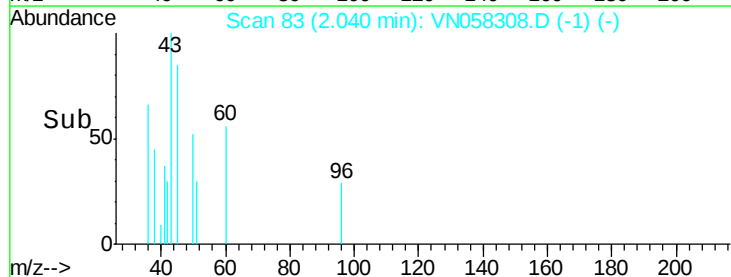
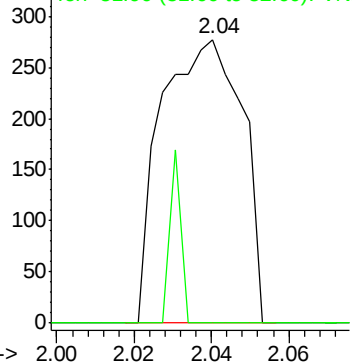


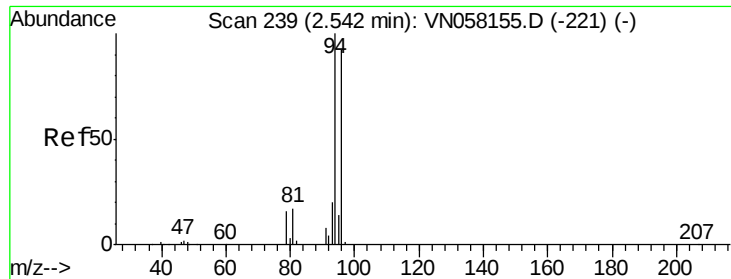
#3
Chloromethane
Concen: Below Cal
RT: 2.04 min Scan# 83
Delta R.T. 0.00 min
Lab File: VN058308.D
Acq: 23 Sep 2019 21:48

Tgt Ion: 50 Resp: 403
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO





#5

Bromomethane

Concen: 0.893 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

Instrument :

MSVOA_N

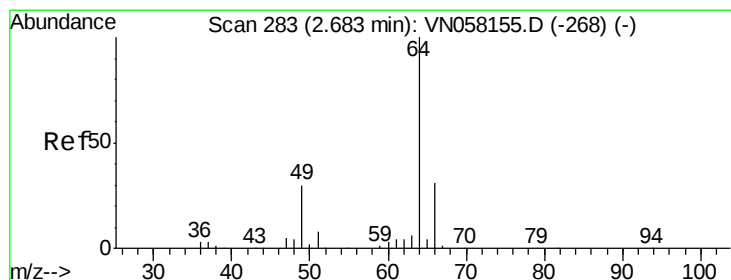
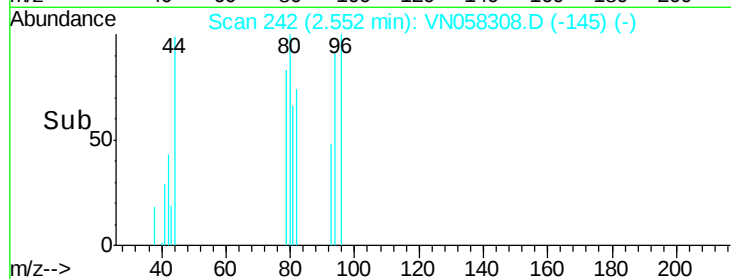
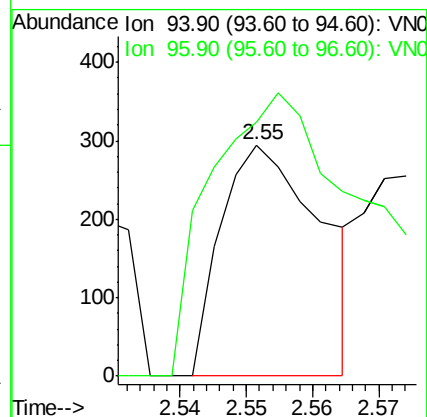
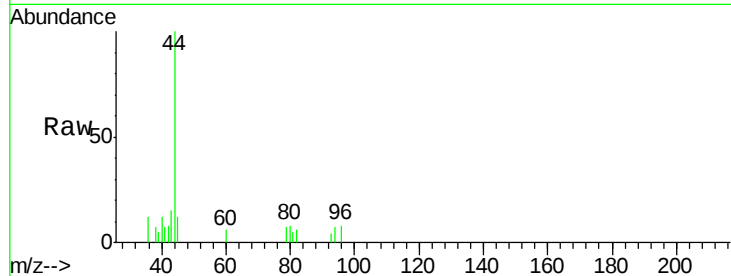
ClientSampled :

Tot Ion: 94 Resp: 307

Ion Ratio Lower Upper

94 100

96 38.3 73.3 109.9#



#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 291

Delta R.T. 0.03 min

Lab File: VN058308.D

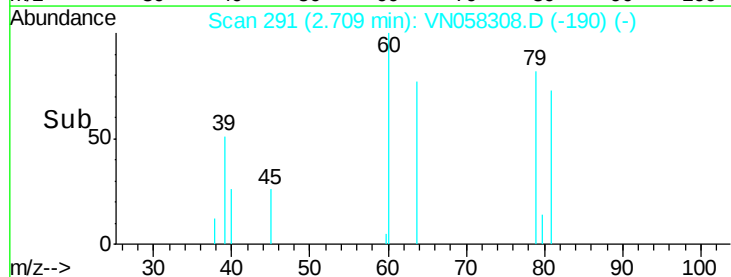
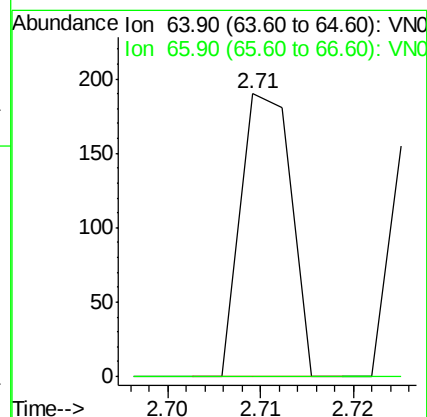
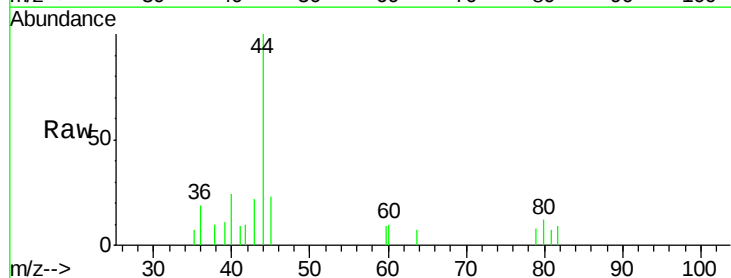
Acq: 23 Sep 2019 21:48

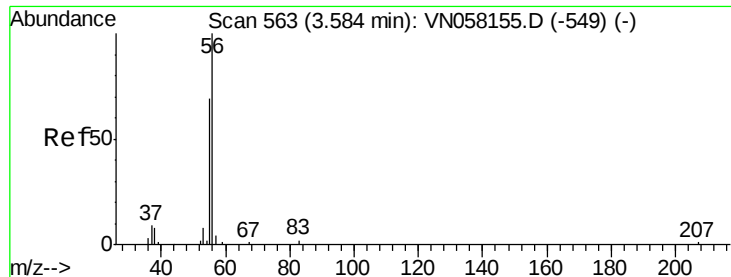
Tgt Ion: 64 Resp: 72

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#





#13

Acrolein

Concen: 0.270 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.04 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

Instrument :

MSVOA_N

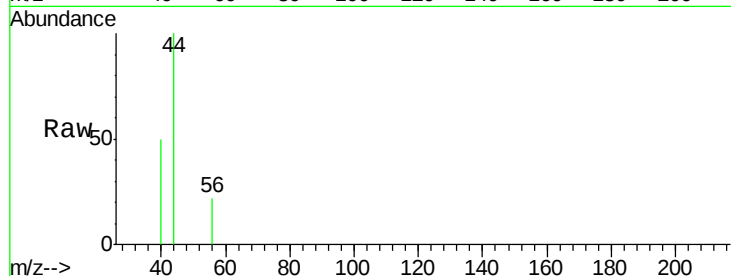
ClientSampleId :

Tot Ion: 56 Resp: 32

Ion Ratio Lower Upper

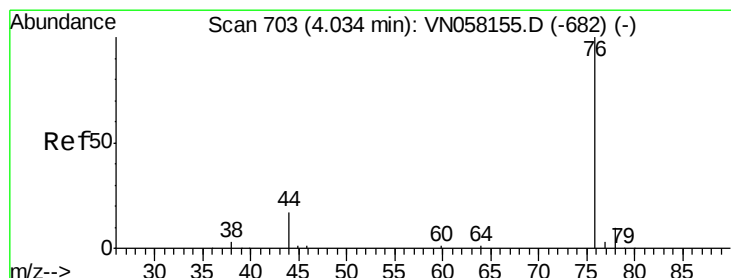
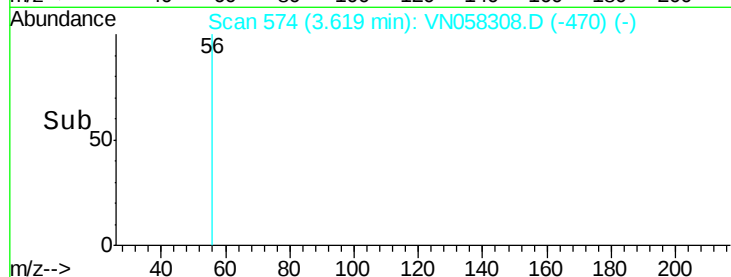
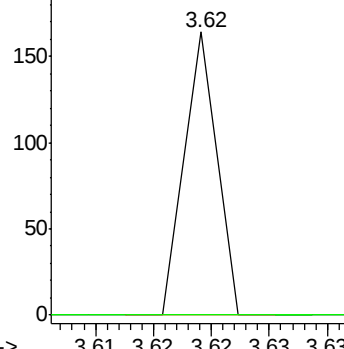
56 100

55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#17

Carbon Disulfide

Concen: 0.413 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058308.D

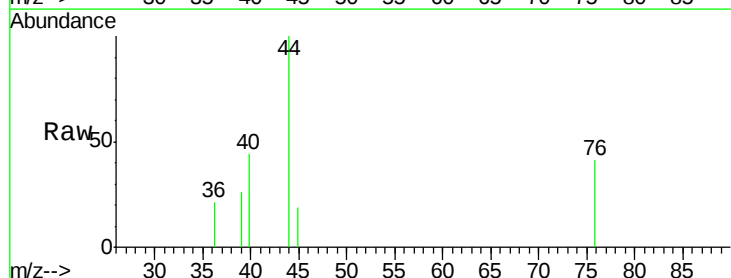
Acq: 23 Sep 2019 21:48

Tgt Ion: 76 Resp: 596

Ion Ratio Lower Upper

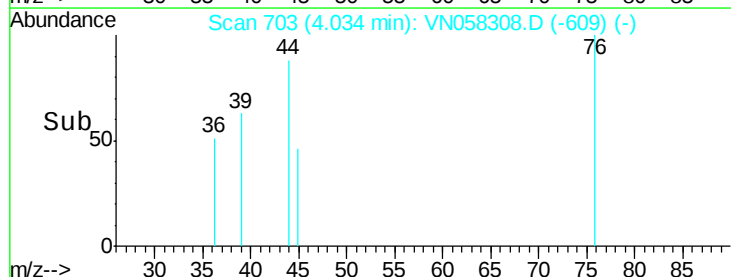
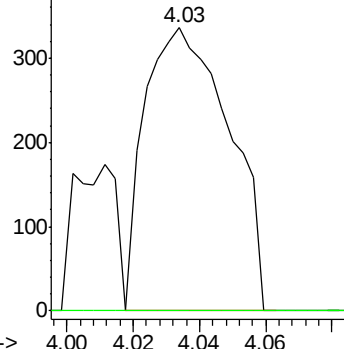
76 100

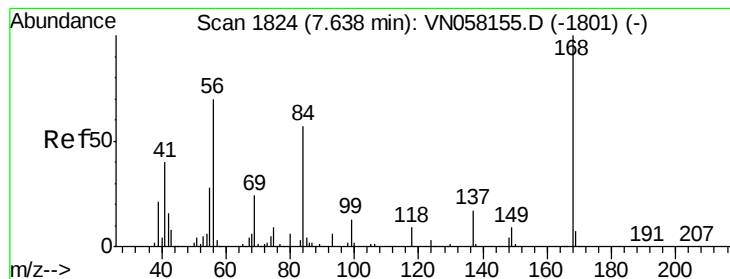
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

Instrument :
MSVOA_N
ClientSampled :

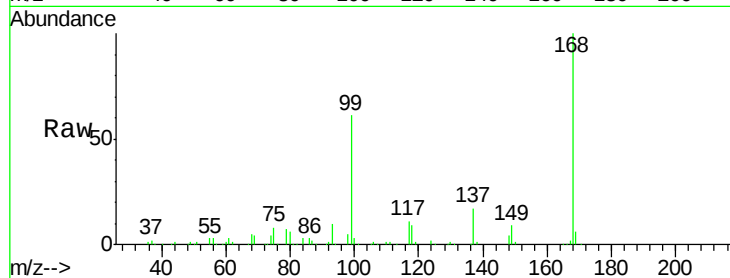
Tot Ion: 56 Resp: 11916

Ion Ratio Lower Upper

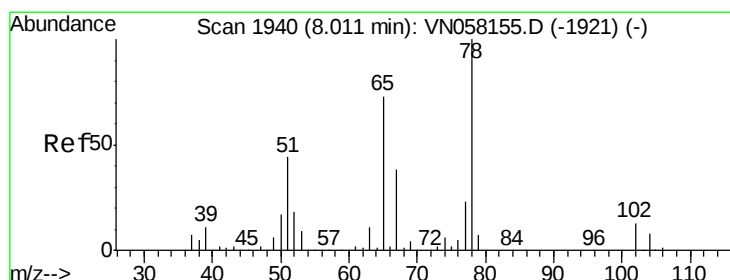
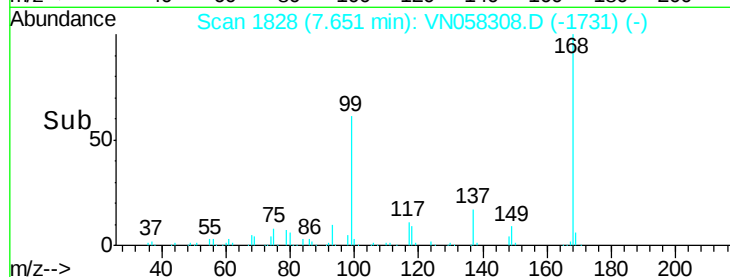
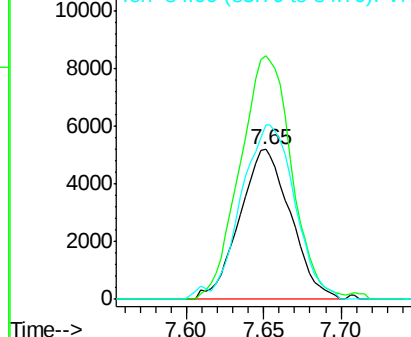
56 100

69 162.5 27.3 40.9#

84 116.8 65.0 97.4#



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: 53.257 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058308.D

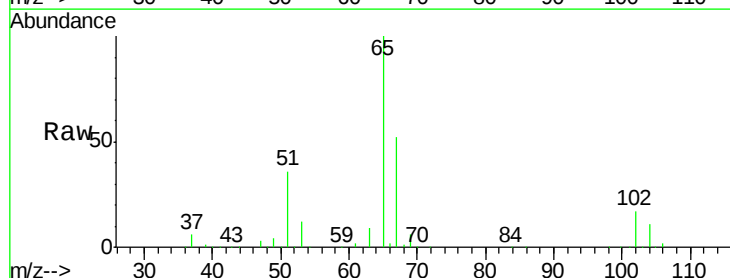
Acq: 23 Sep 2019 21:48

Tgt Ion: 65 Resp: 358045

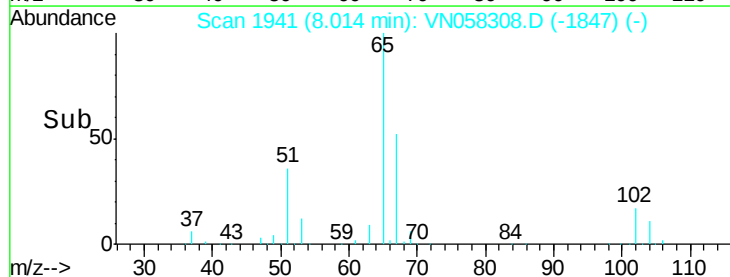
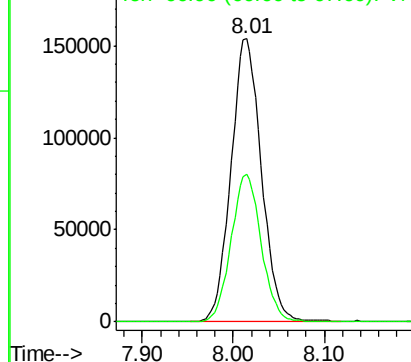
Ion Ratio Lower Upper

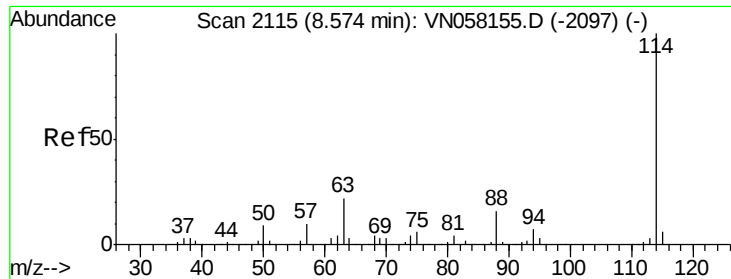
65 100

67 51.4 0.0 103.4



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

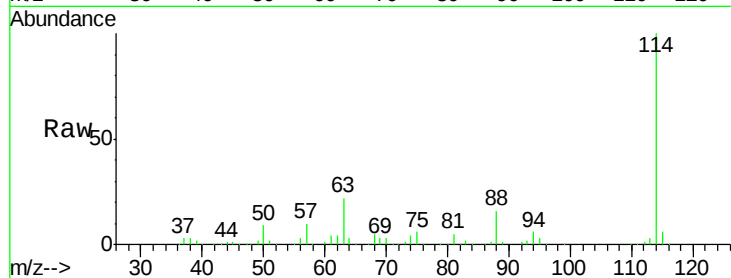




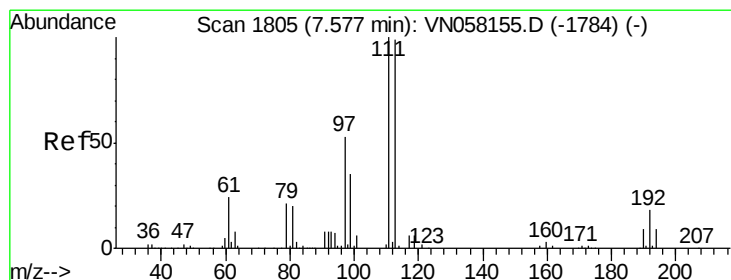
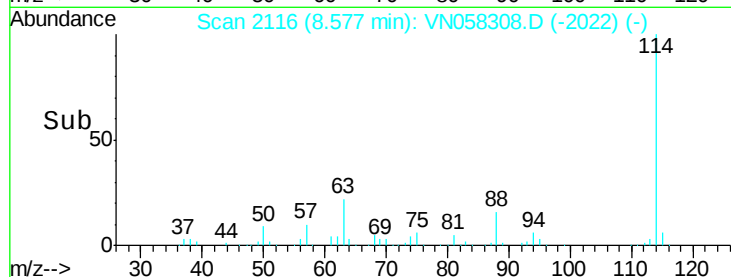
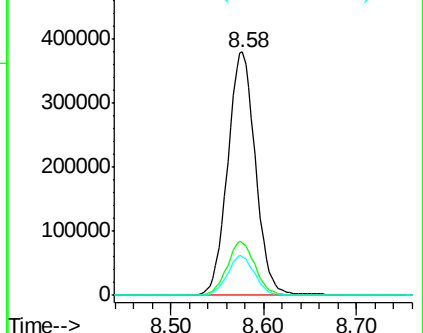
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058308.D
 Acq: 23 Sep 2019 21:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.2
88	15.9	0.0	31.6

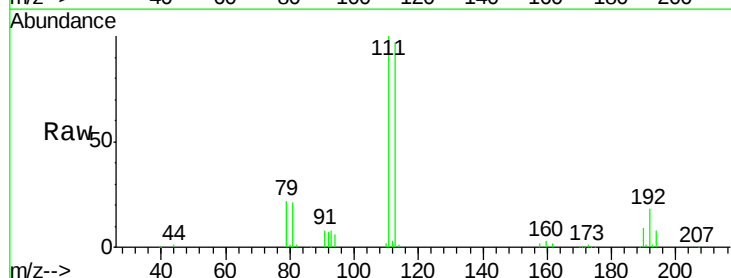


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

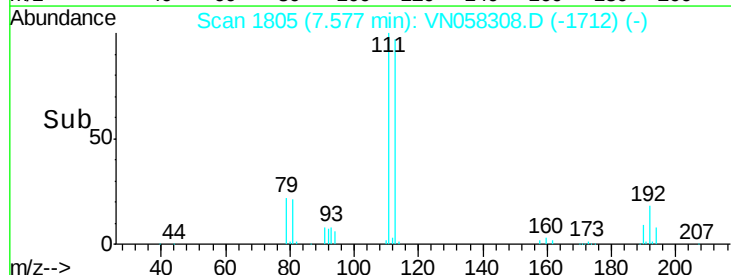
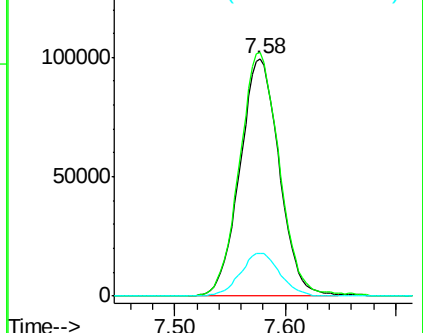


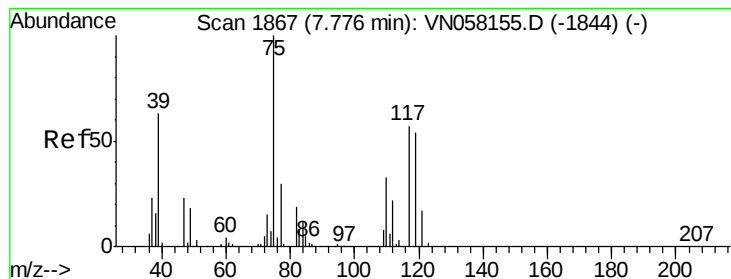
#35
 Dibromofluoromethane
 Concen: 51.025 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058308.D
 Acq: 23 Sep 2019 21:48

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.8	122.6
192	18.2	14.5	21.7



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: 7.281 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

Instrument :
MSVOA_N
ClientSampled :

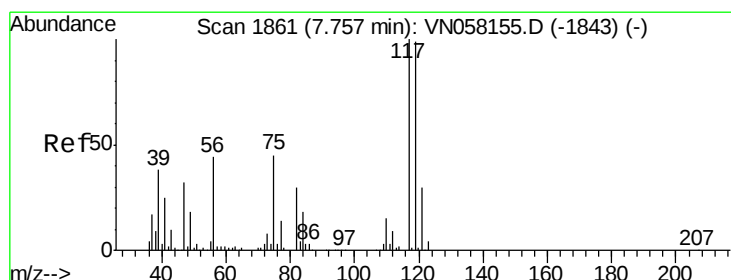
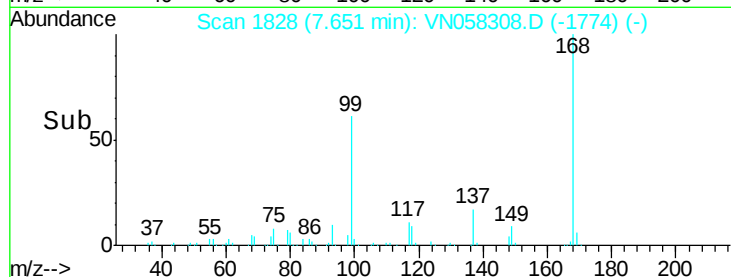
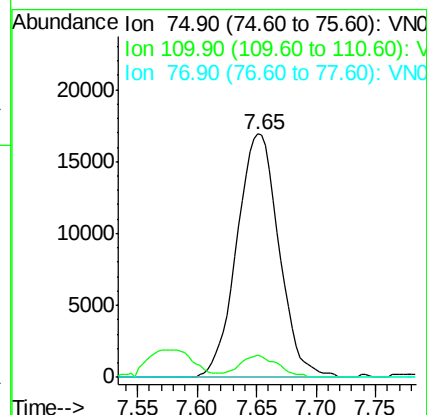
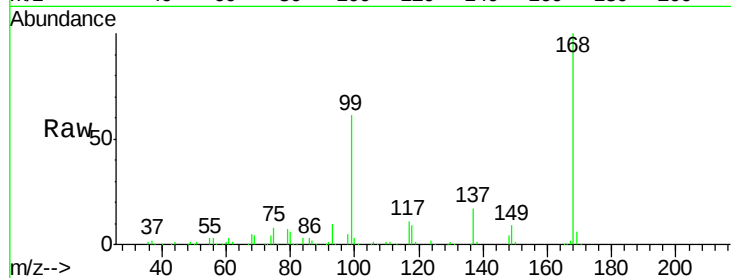
Tot Ion: 75 Resp: 41522

Ion Ratio Lower Upper

75 100

110 8.4 16.6 49.7#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 8.885 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

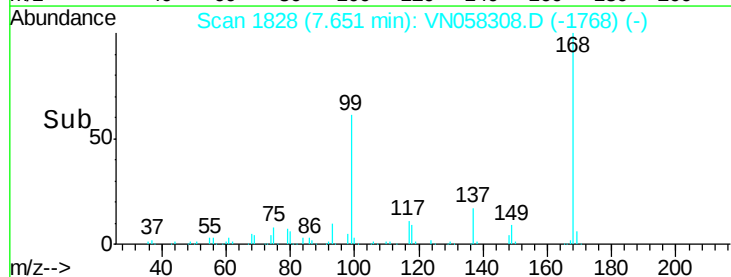
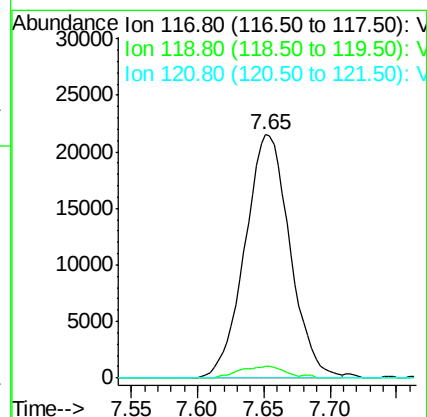
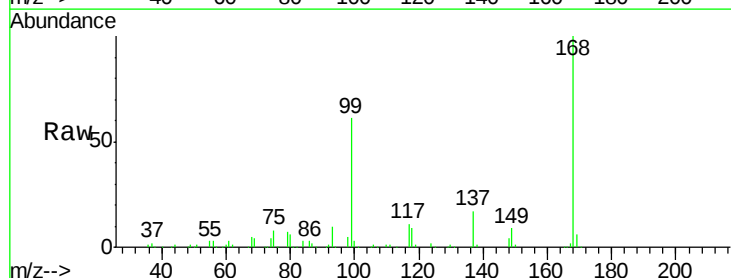
Tgt Ion: 117 Resp: 50929

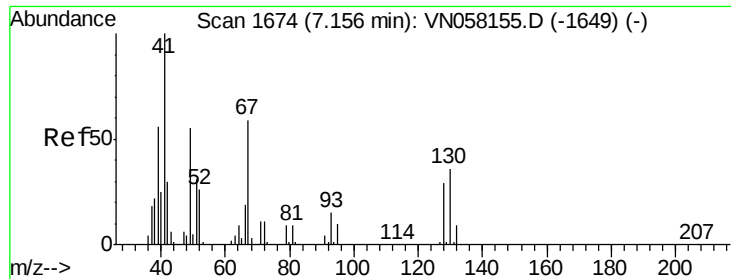
Ion Ratio Lower Upper

117 100

119 5.0 78.6 117.8#

121 0.0 24.1 36.1#

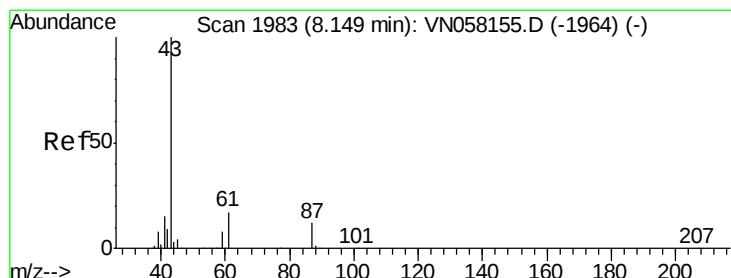
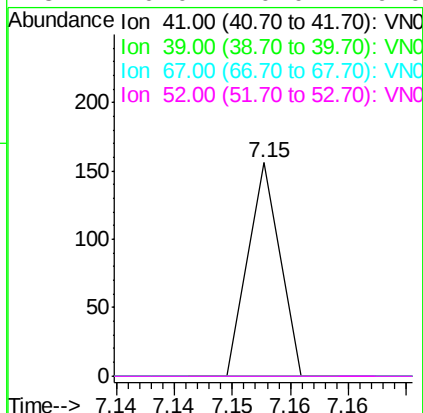
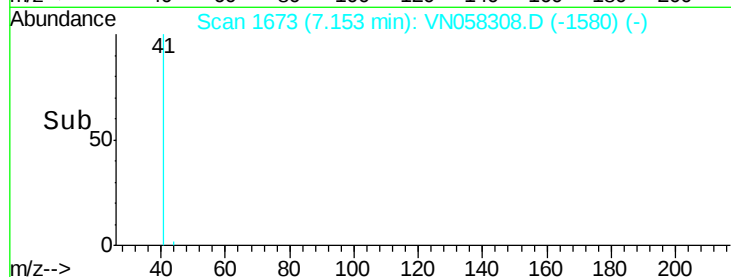
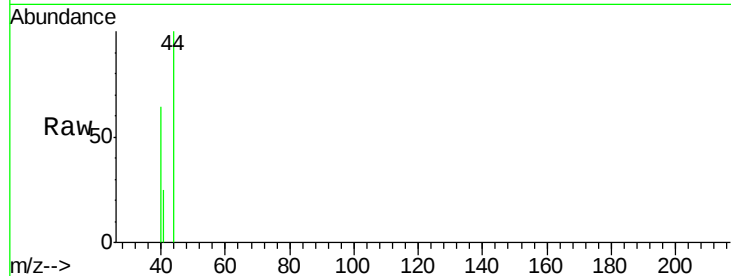




#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VN058308.D
Acq: 23 Sep 2019 21:48

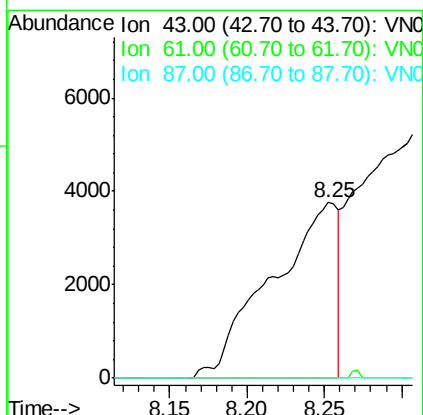
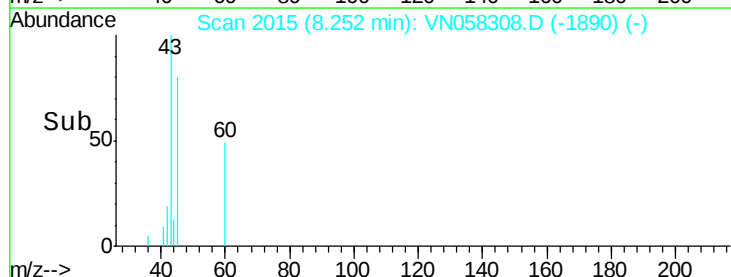
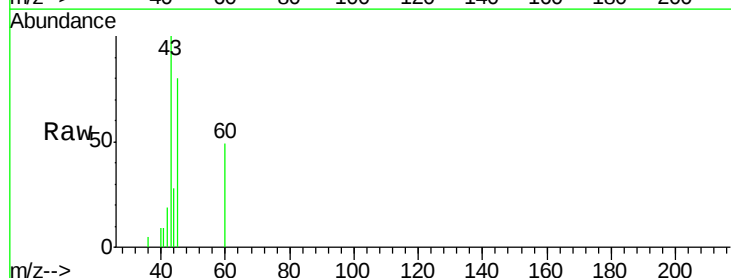
Instrument :
MSVOA_N
ClientSampleId :

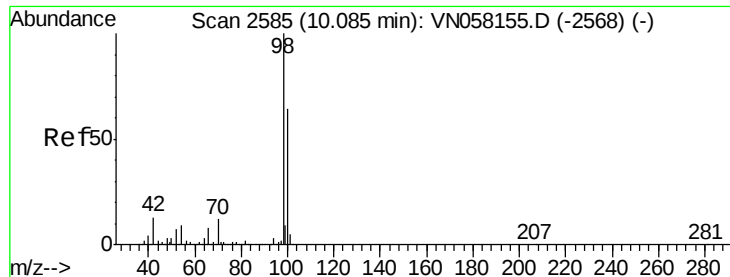
Tot Ion:	41	Resp:	30
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 1.007 ug/l
RT: 8.25 min Scan# 2015
Delta R.T. 0.10 min
Lab File: VN058308.D
Acq: 23 Sep 2019 21:48

Tgt Ion:	43	Resp:	11128
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#50

Toluene-d8

Concen: 53.313 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

Instrument :

MSVOA_N

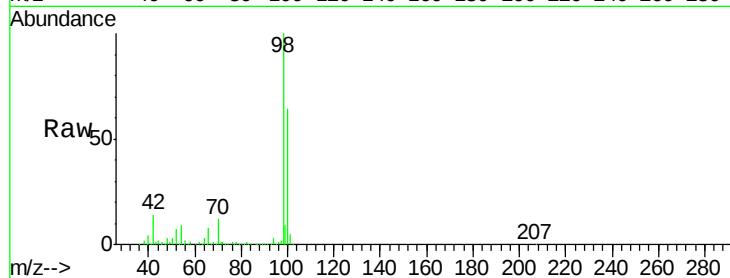
ClientSampled :

Tot Ion: 98 Resp: 998517

Ion Ratio Lower Upper

98 100

100 63.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

600000

500000

400000

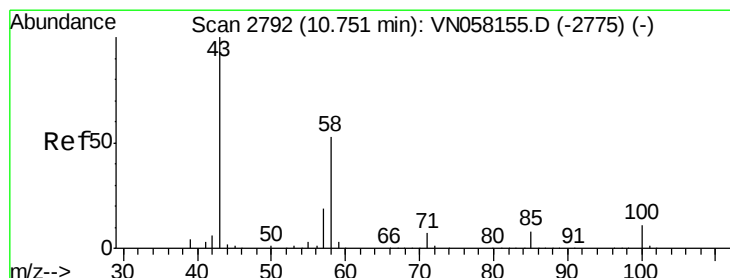
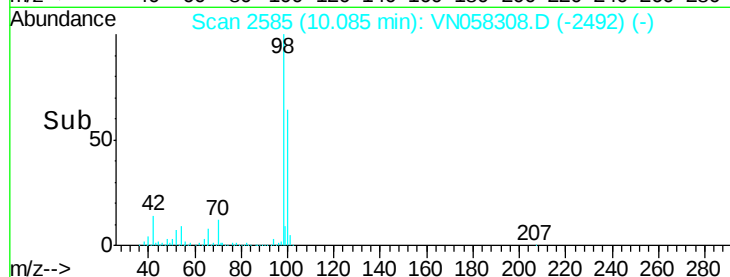
300000

200000

100000

0

Time--> 10.00 10.10 10.20



#59

2-Hexanone

Concen: 0.487 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058308.D

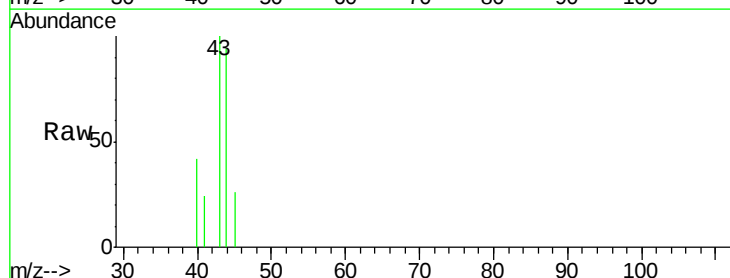
Acq: 23 Sep 2019 21:48

Tgt Ion: 43 Resp: 2125

Ion Ratio Lower Upper

43 100

58 8.1 26.0 78.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

1000

800

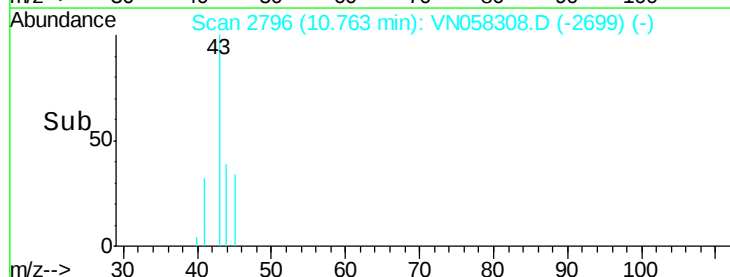
600

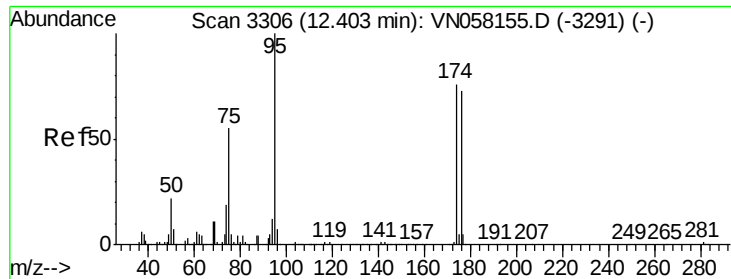
400

200

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 45.404 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

Instrument :

MSVOA_N

ClientSampleId :

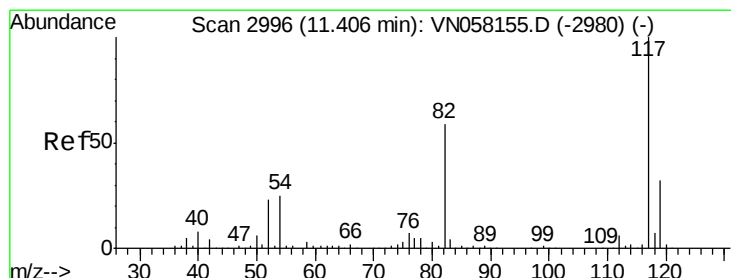
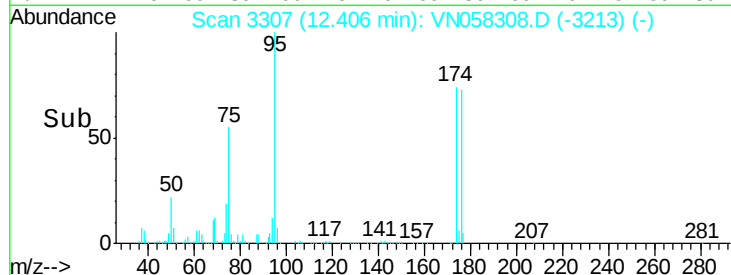
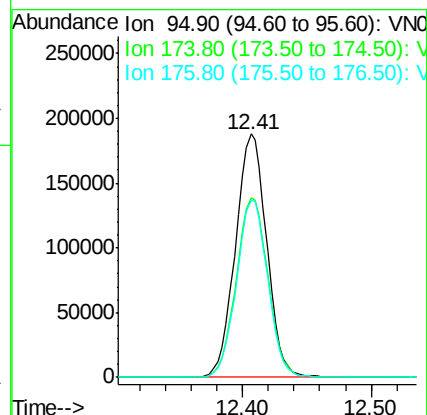
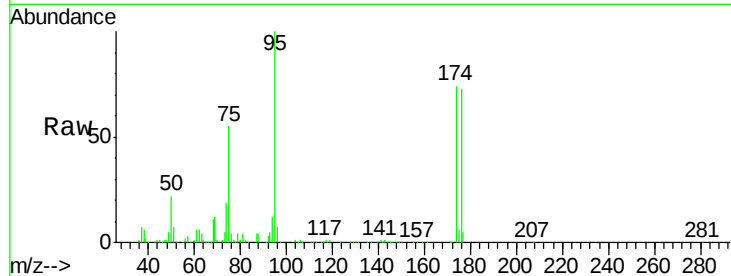
Tot Ion: 95 Resp: 315885

Ion Ratio Lower Upper

95 100

174 75.4 0.0 152.2

176 72.7 0.0 148.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

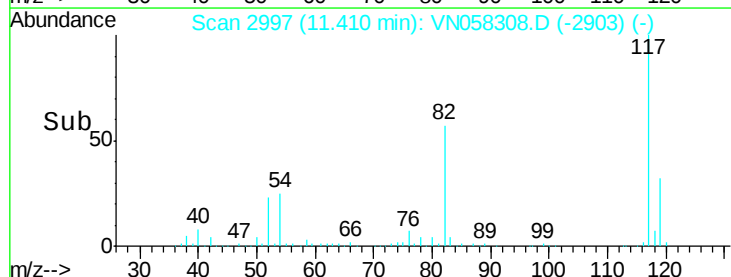
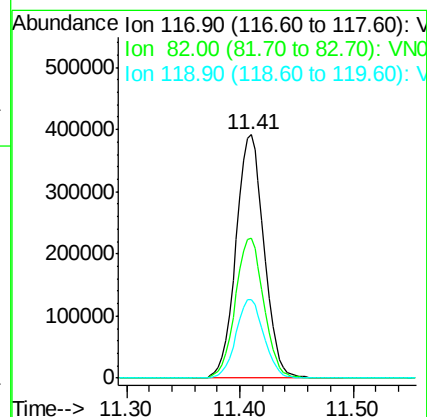
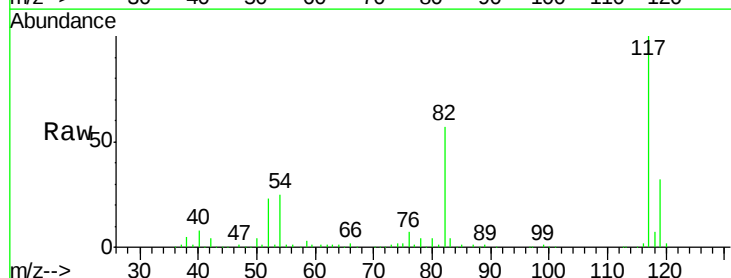
Tgt Ion: 117 Resp: 676515

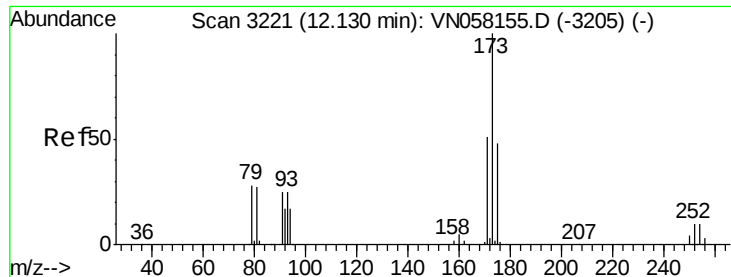
Ion Ratio Lower Upper

117 100

82 57.4 46.9 70.3

119 32.2 25.3 37.9





#71

Bromoform

Concen: 3.702 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

Instrument :

MSVOA_N

ClientSampled :

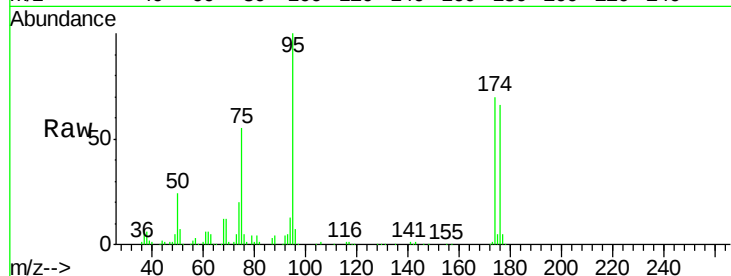
Tot Ion:173 Resp: 370

Ion Ratio Lower Upper

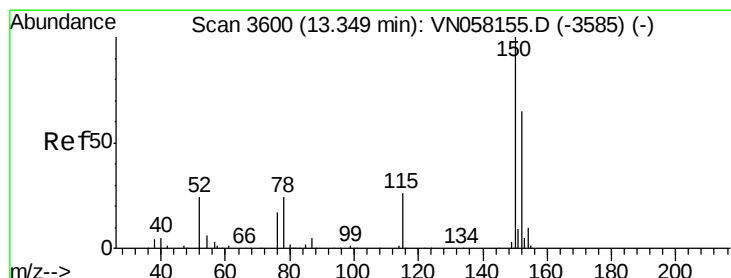
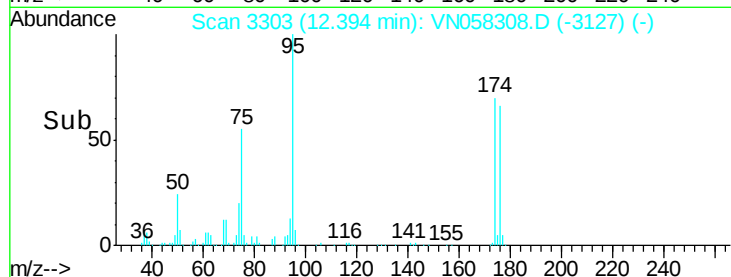
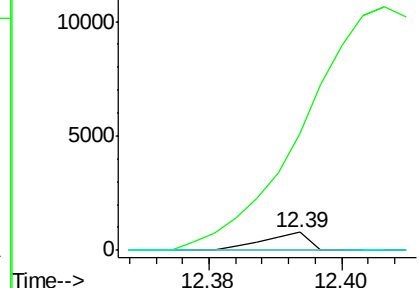
173 100

175 4017.8 24.2 72.6#

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: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

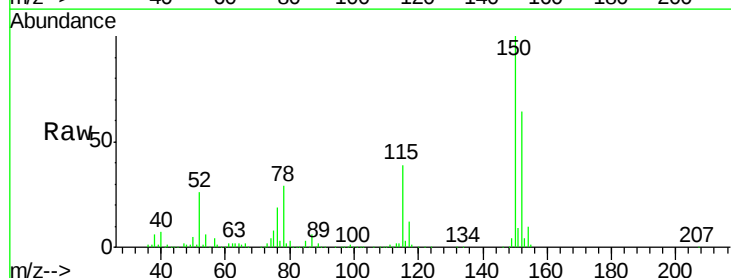
Tgt Ion:152 Resp: 272908

Ion Ratio Lower Upper

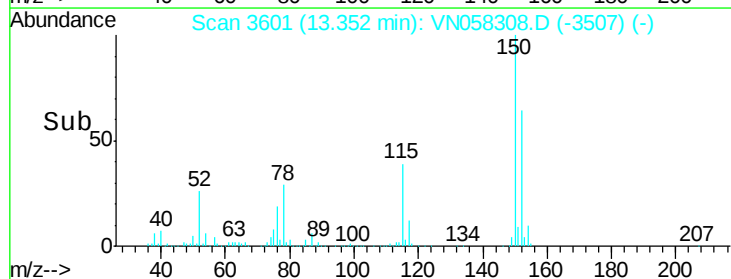
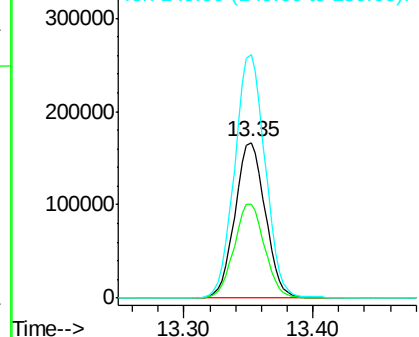
152 100

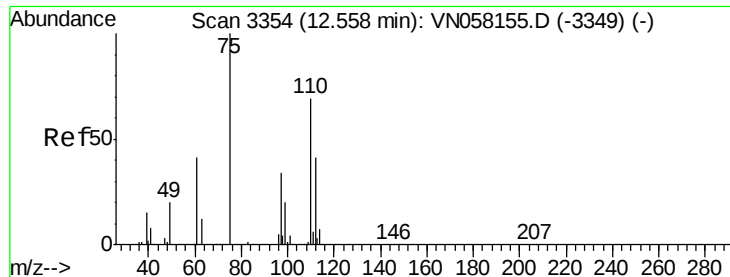
115 61.0 30.1 90.3

150 157.9 0.0 346.4



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





#76

1,2,3-Trichloropropane

Concen: 35.338 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

Instrument :

MSVOA_N

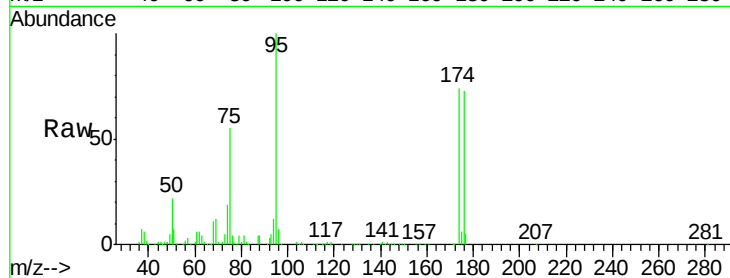
ClientSampleId :

Tot Ion: 75 Resp: 172598

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

120000

100000

80000

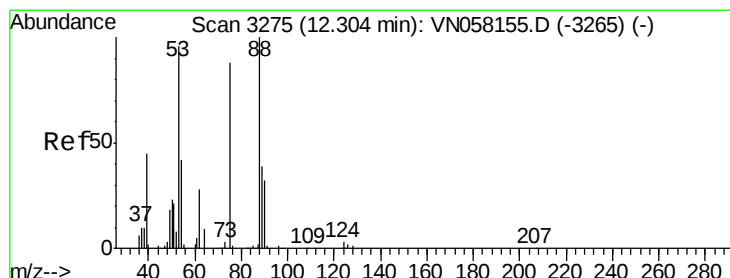
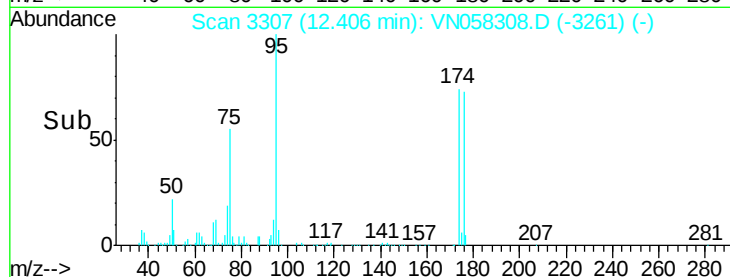
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 98.797 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058308.D

Acq: 23 Sep 2019 21:48

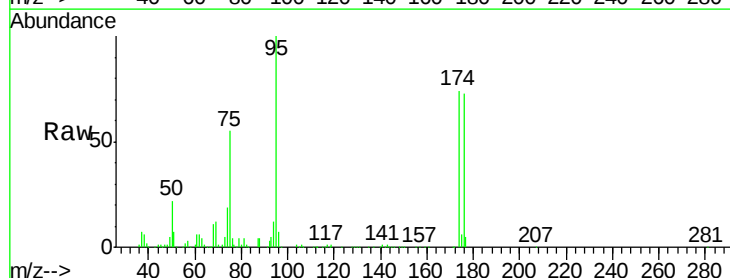
Tgt Ion: 75 Resp: 172598

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

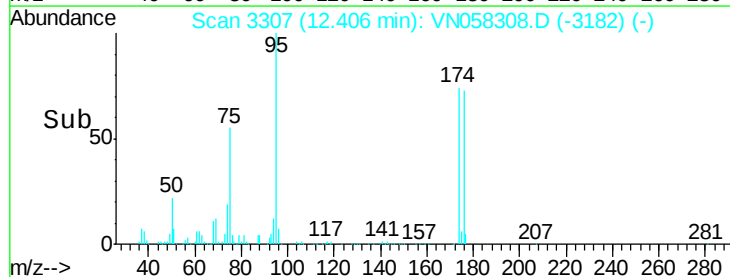
Ion 88.90 (88.60 to 89.60): VN0

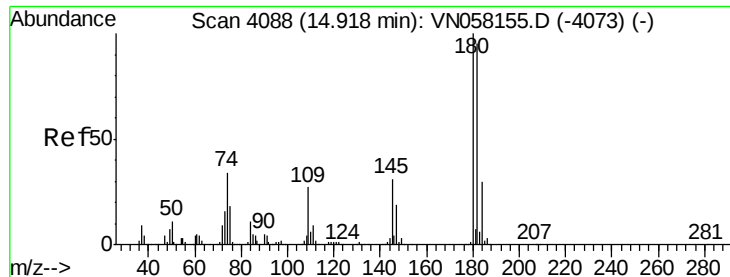
100000

50000

0

Time--> 12.30 12.40 12.50

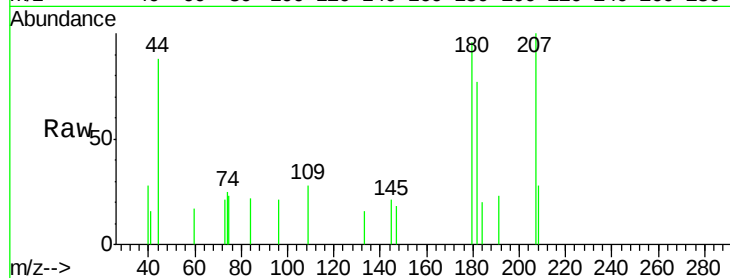




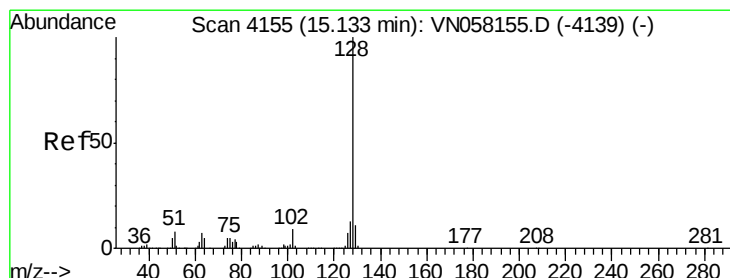
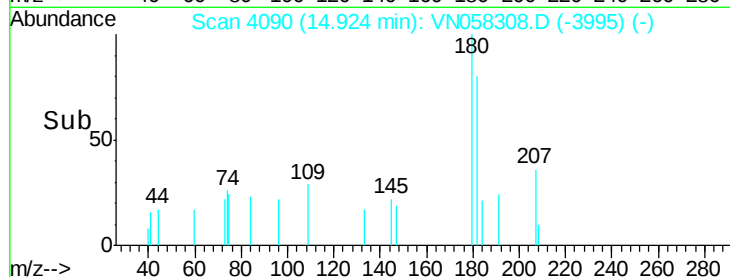
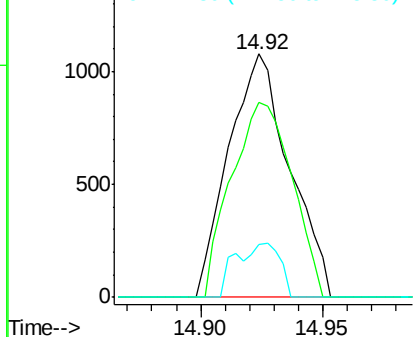
#93
 1,2,4-Trichlorobenzene
 Concen: 0.371 ug/l
 RT: 14.92 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN058308.D
 Acq: 23 Sep 2019 21:48

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1865
 Ion Ratio Lower Upper
 180 100
 182 80.2 47.8 143.3
 145 16.1 15.4 46.4

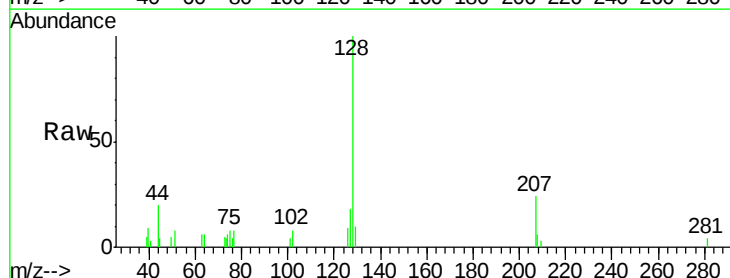


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

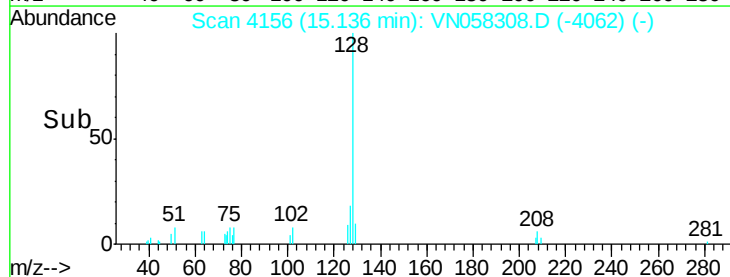
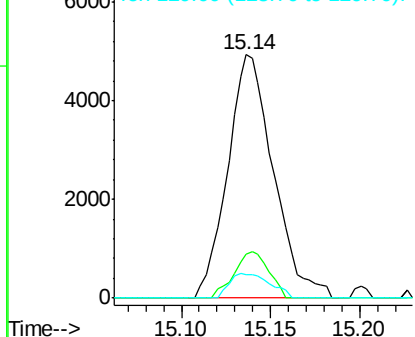


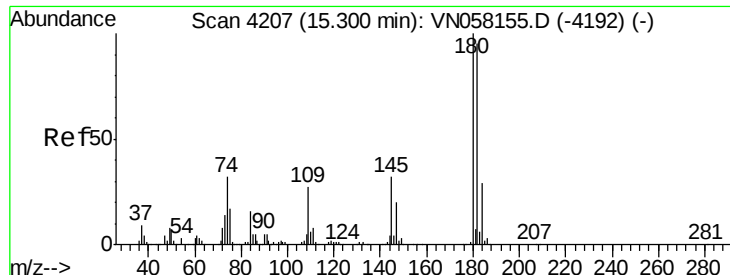
#95
 Naphthalene
 Concen: 0.673 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN058308.D
 Acq: 23 Sep 2019 21:48

Tgt Ion:128 Resp: 8767
 Ion Ratio Lower Upper
 128 100
 127 14.3 10.2 15.2
 129 9.0 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

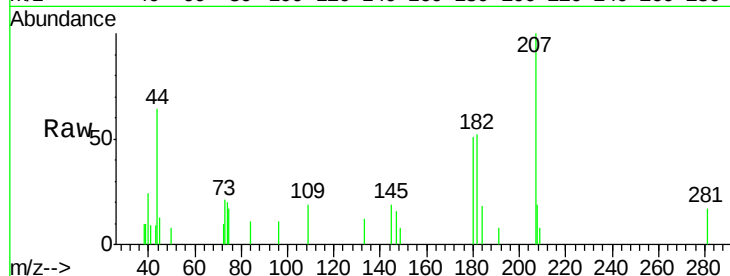




#96
 1,2,3-Trichlorobenzene
 Concen: 0.219 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN058308.D
 Acq: 23 Sep 2019 21:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	194.6	47.4	142.2#
145	58.2	16.1	48.2#



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

