

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092519\
 Data File : VN058351.D
 Acq On : 25 Sep 2019 9:17
 Operator : JC/SP
 Sample : VN0925WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 26 01:06:09 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	471128	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	759405	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	649042	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	266089	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	344260	52.46	ug/l	0.00
Spiked Amount			Recovery	=	104.92%	
35) Dibromofluoromethane	7.57	113	241842	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
50) Toluene-d8	10.08	98	967657	53.80	ug/l	0.00
Spiked Amount			Recovery	=	107.60%	
62) 4-Bromofluorobenzene	12.41	95	308774	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	

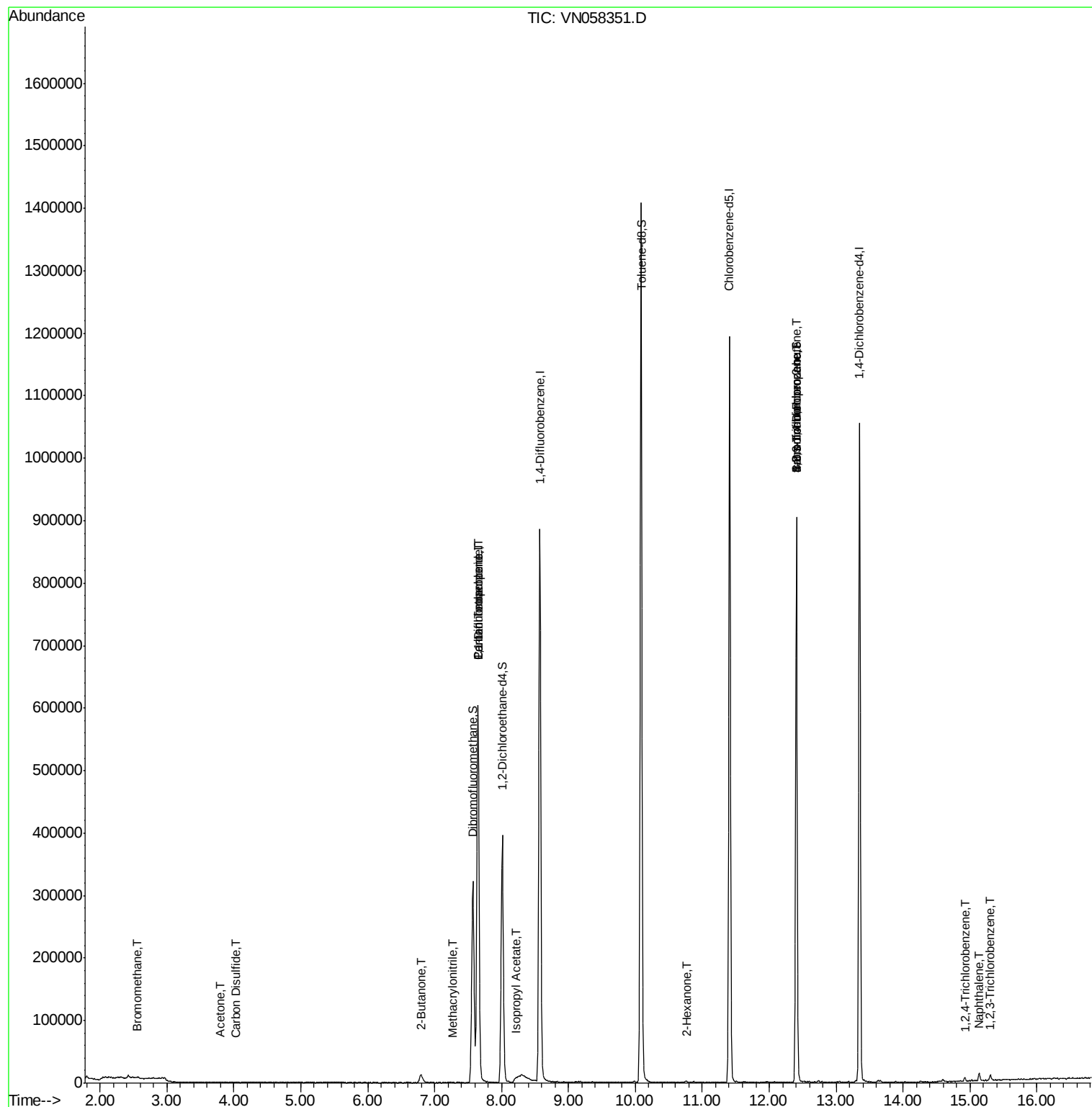
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	205	Below Cal	#	42
4) Vinyl Chloride	2.35	62	32	Below Cal	#	43
5) Bromomethane	2.56	94	568	1.047	ug/l #	66
6) Chloroethane	2.64	64	61	Below Cal	#	44
16) Acetone	3.81	43	783	0.352	ug/l #	45
17) Carbon Disulfide	4.03	76	1052	0.528	ug/l #	74
20) Methylene Chloride	4.52	84	379	Below Cal	#	38
25) 2-Butanone	6.80	43	918	0.303	ug/l #	51
31) Cyclohexane	7.64	56	12285	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	40166	7.334	ug/l #	51
38) Carbon Tetrachloride	7.65	117	47234	8.580	ug/l #	14
41) Methacrylonitrile	7.27	41	102	0.946	ug/l #	100
43) Isopropyl Acetate	8.20	43	4708	0.444	ug/l #	57
59) 2-Hexanone	10.75	43	1239	0.296	ug/l	64
71) Bromoform	12.40	173	769	3.828	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	168448	35.372	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	168448	98.887	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.92	180	2095	0.427	ug/l	96
95) Naphthalene	15.14	128	10308	0.811	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	3165	0.683	ug/l	96

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

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QLast Update : Thu Sep 19 09:27:53 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058351.D

Acq: 25 Sep 2019 9:17

Instrument :

MSVOA_N

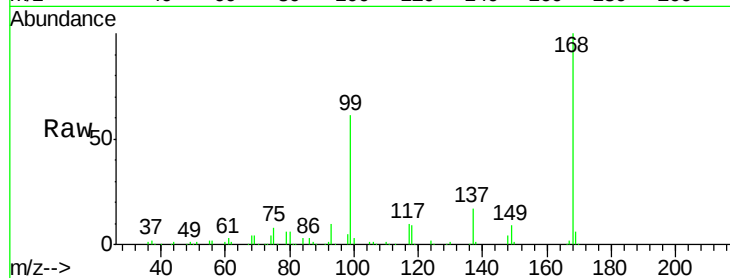
ClientSampled :

Tot Ion:168 Resp: 471128

Ion Ratio Lower Upper

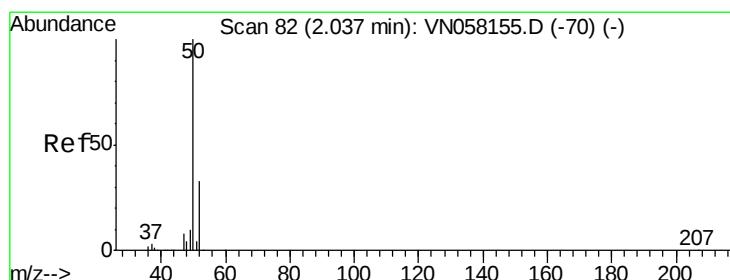
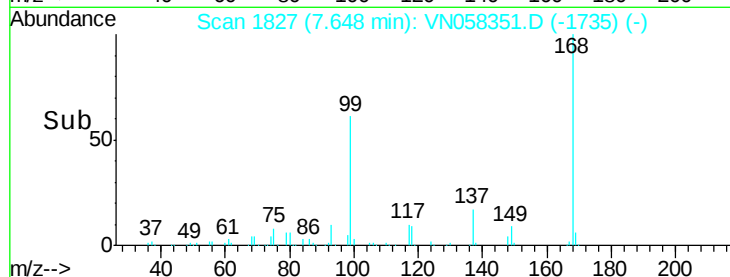
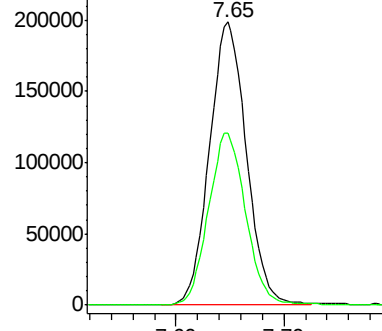
168 100

99 60.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 79

Delta R.T. -0.01 min

Lab File: VN058351.D

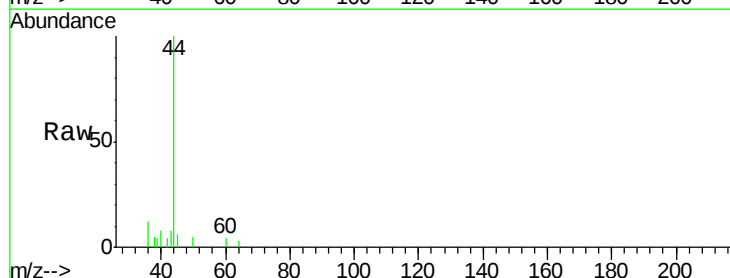
Acq: 25 Sep 2019 9:17

Tgt Ion: 50 Resp: 205

Ion Ratio Lower Upper

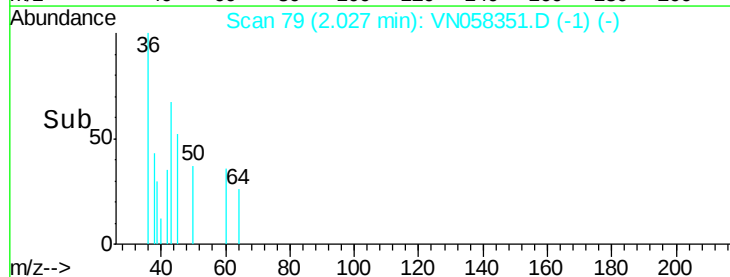
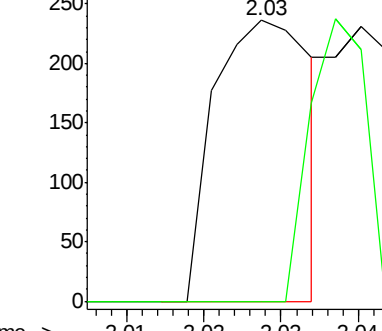
50 100

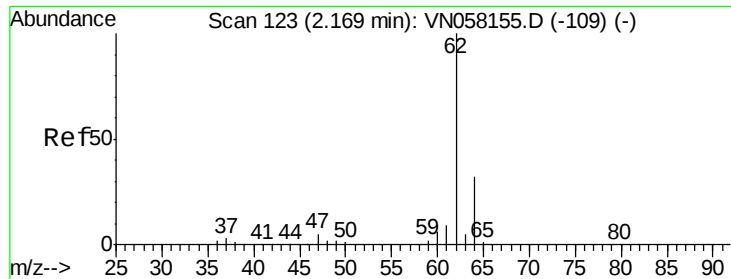
52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.35 min Scan# 179

Delta R.T. 0.18 min

Lab File: VN058351.D

Acq: 25 Sep 2019 9:17

Instrument :

MSVOA_N

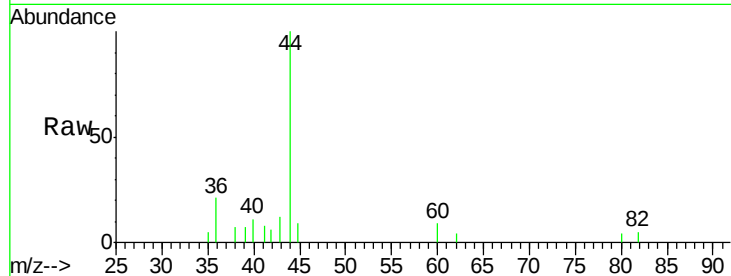
ClientSampled :

Tot Ion: 62 Resp: 32

Ion Ratio Lower Upper

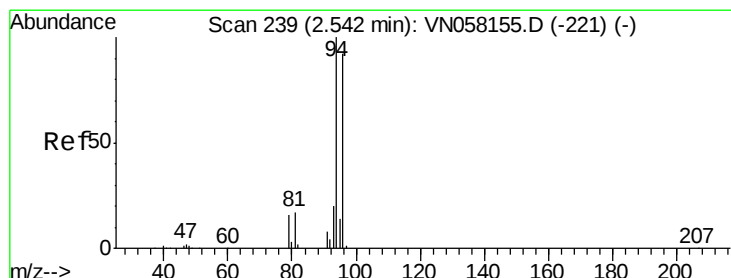
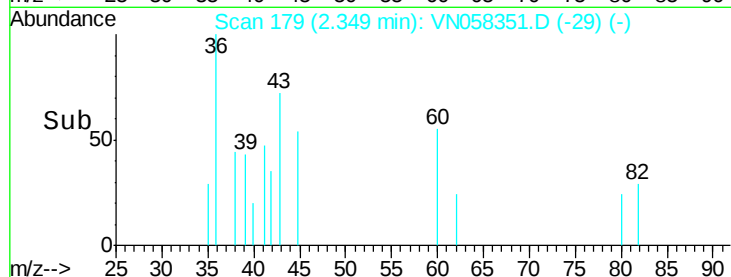
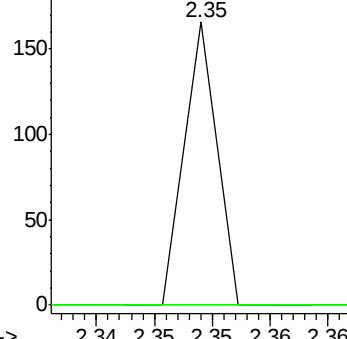
62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#5

Bromomethane

Concen: 1.047 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.02 min

Lab File: VN058351.D

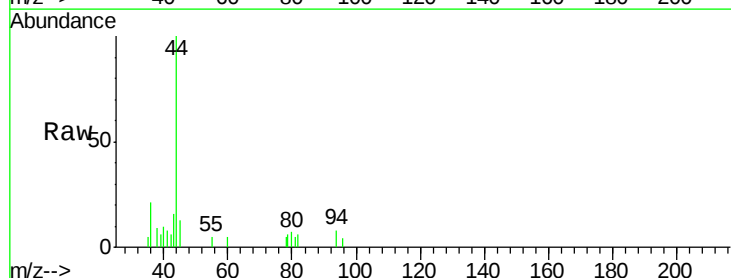
Acq: 25 Sep 2019 9:17

Tgt Ion: 94 Resp: 568

Ion Ratio Lower Upper

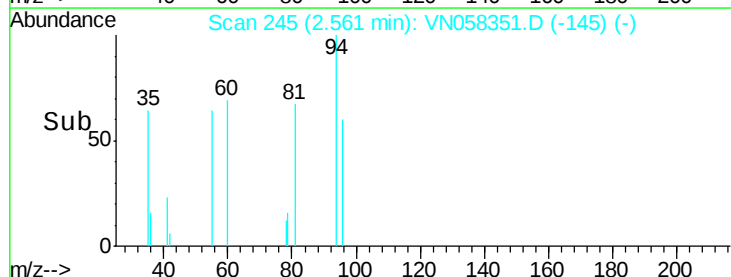
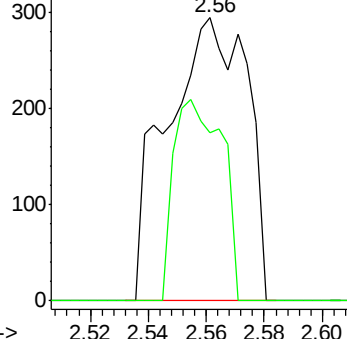
94 100

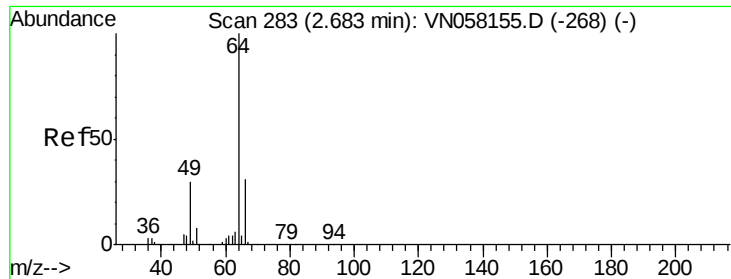
96 59.5 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#6

Chloroethane

Concen: Below Cal

RT: 2.64 min Scan# 271

Delta R.T. -0.04 min

Lab File: VN058351.D

Acq: 25 Sep 2019 9:17

Instrument :

MSVOA_N

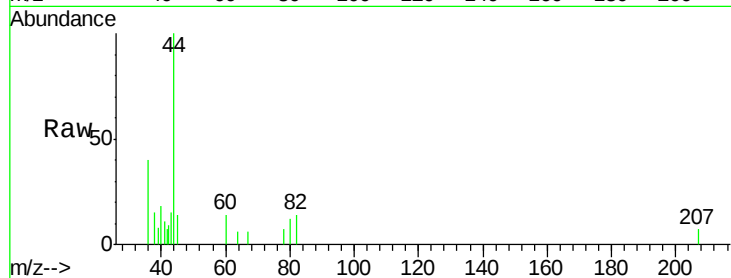
ClientSampled :

Tot Ion: 64 Resp: 61

Ion Ratio Lower Upper

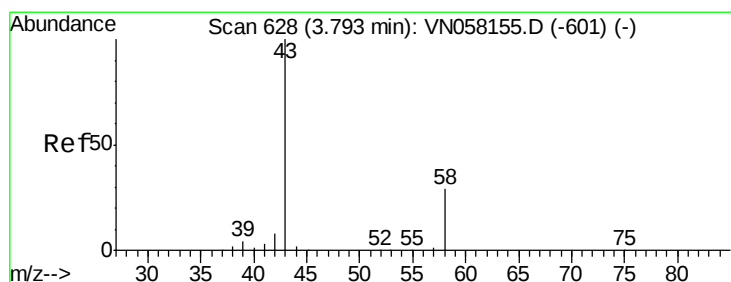
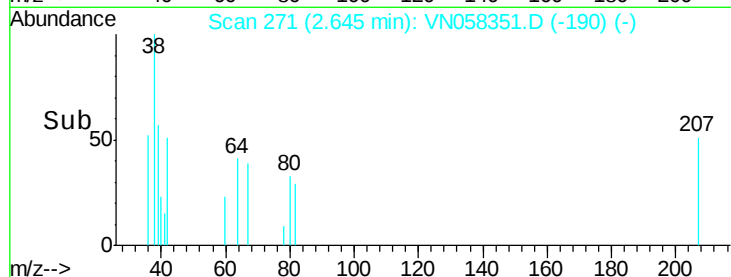
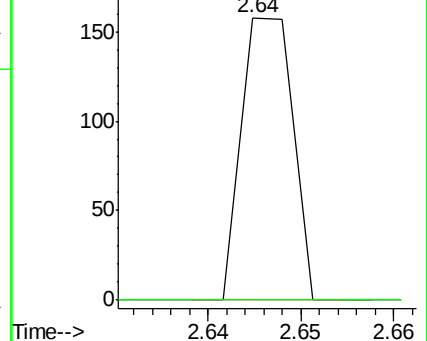
64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO



#16

Acetone

Concen: 0.352 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN058351.D

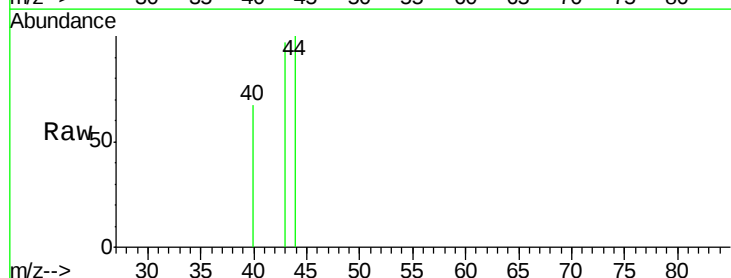
Acq: 25 Sep 2019 9:17

Tgt Ion: 43 Resp: 783

Ion Ratio Lower Upper

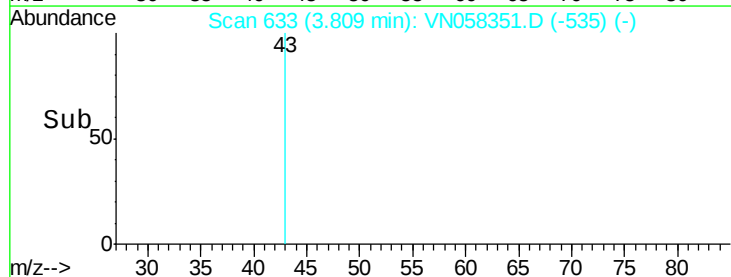
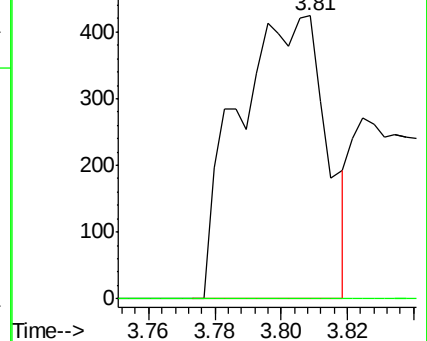
43 100

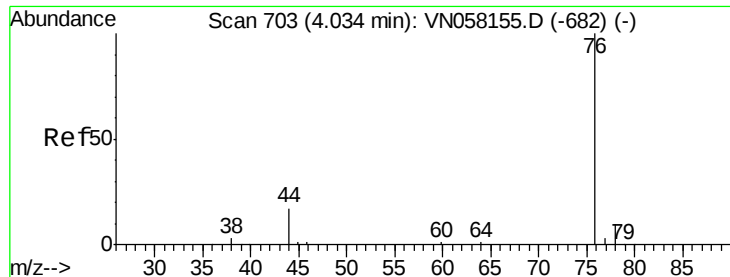
58 0.0 23.4 35.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#17

Carbon Disulfide

Concen: 0.528 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.01 min

Lab File: VN058351.D

Acq: 25 Sep 2019 9:17

Instrument :

MSVOA_N

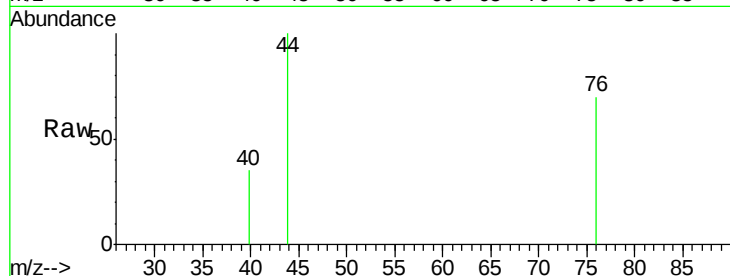
ClientSampled :

Tot Ion: 76 Resp: 1052

Ion Ratio Lower Upper

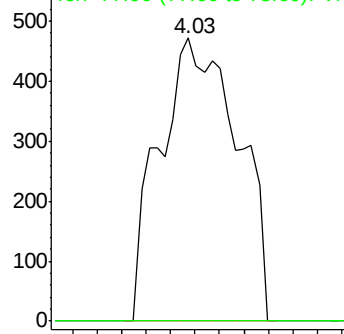
76 100

78 0.0 7.7 11.5#

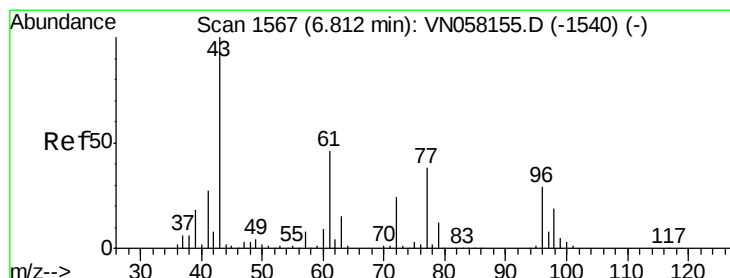
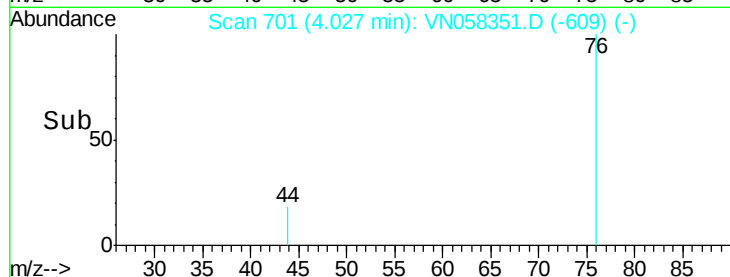


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->



#25

2-Butanone

Concen: 0.303 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VN058351.D

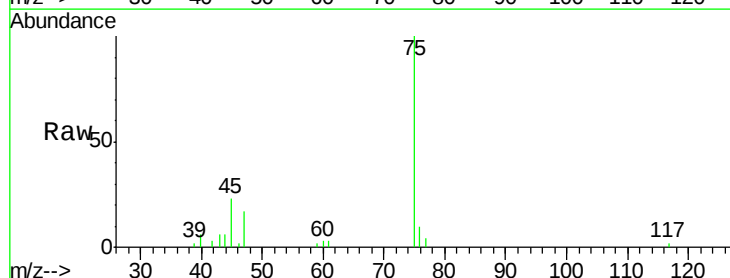
Acq: 25 Sep 2019 9:17

Tgt Ion: 43 Resp: 918

Ion Ratio Lower Upper

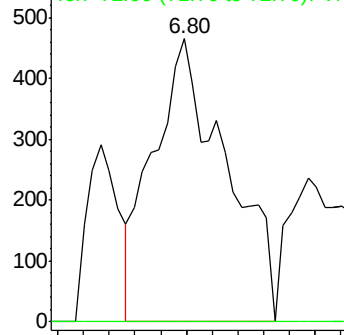
43 100

72 0.0 19.5 29.3#

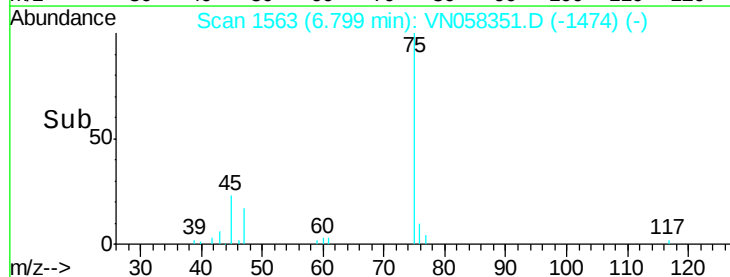


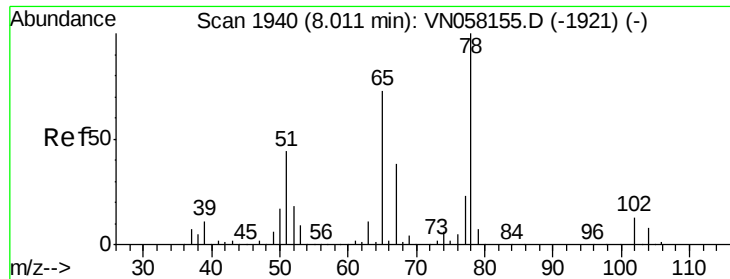
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->

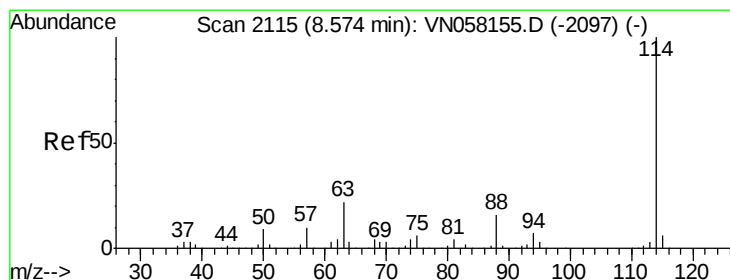
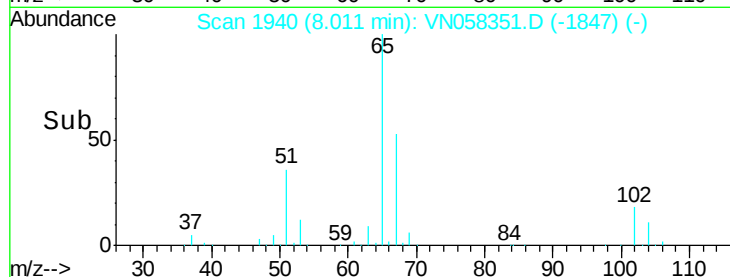
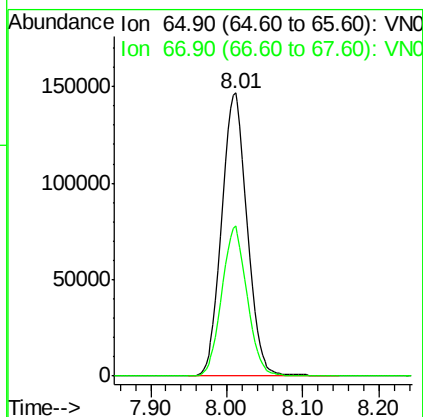
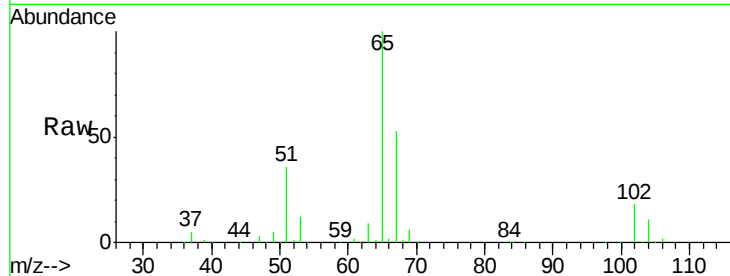




#33
 1,2-Dichloroethane-d4
 Concen: 52.464 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058351.D
 Acq: 25 Sep 2019 9:17

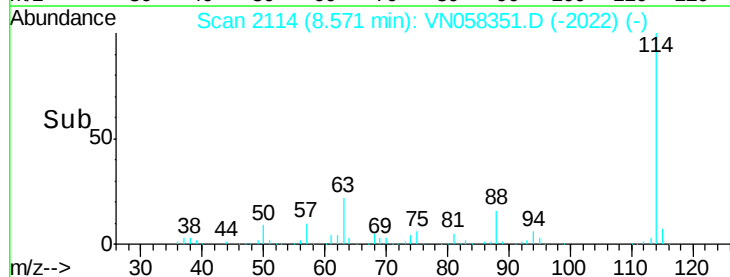
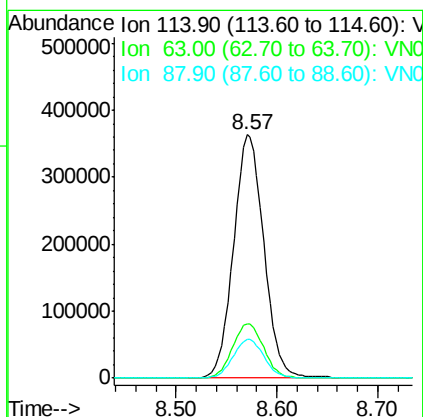
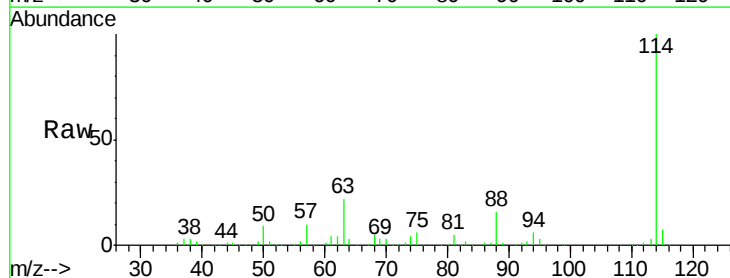
Instrument :
 MSVOA_N
 ClientSampleId :

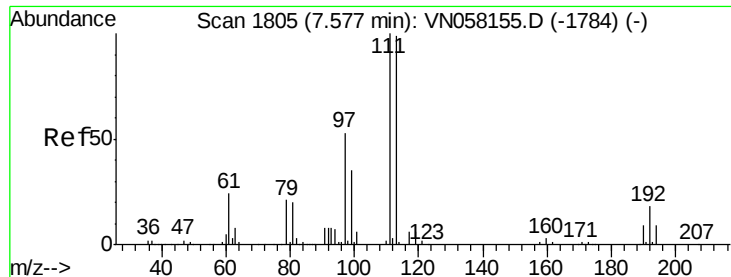
Tot Ion: 65 Resp: 344260
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058351.D
 Acq: 25 Sep 2019 9:17

Tgt Ion: 114 Resp: 759405
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 44.2
 88 15.8 0.0 31.6

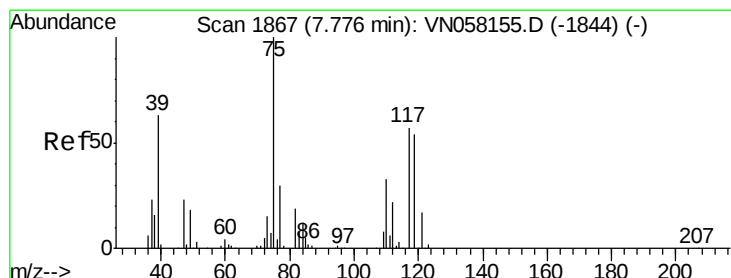
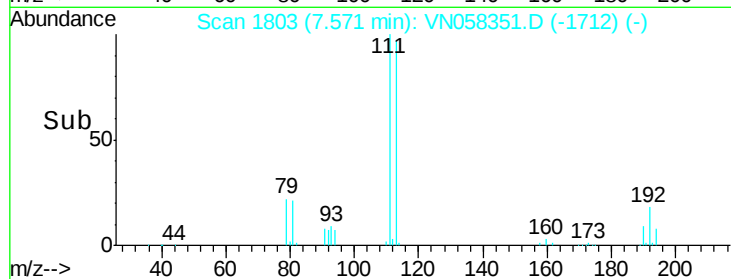
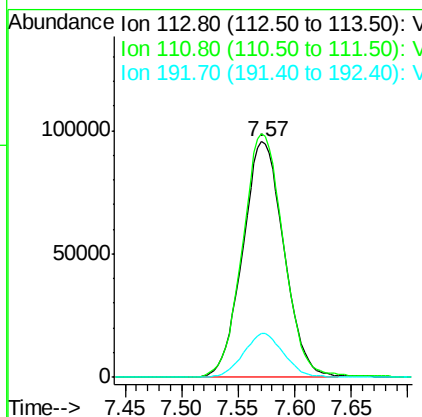
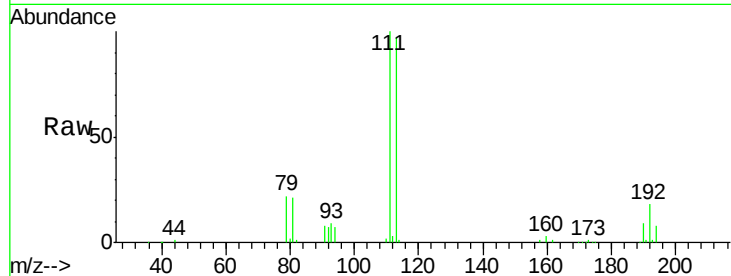




#35
 Dibromofluoromethane
 Concen: 52.386 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.01 min
 Lab File: VN058351.D
 Acq: 25 Sep 2019 9:17

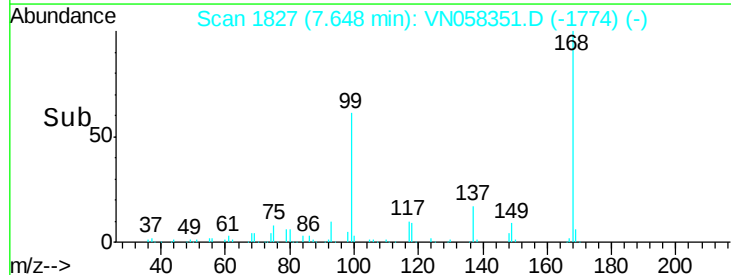
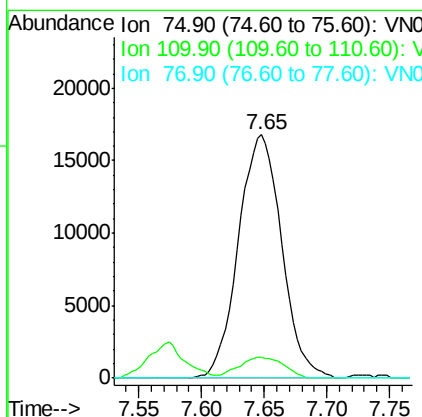
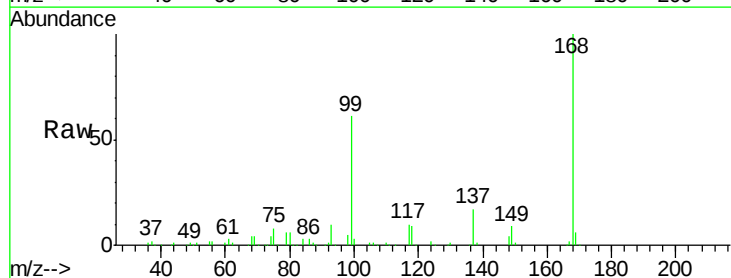
Instrument :
 MSVOA_N
 ClientSampled :

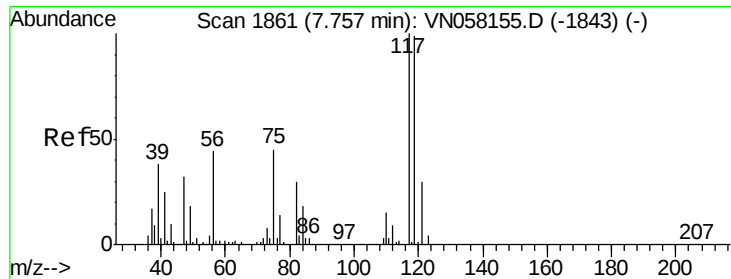
Tot Ion:113 Resp: 241842
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.8 122.6
 192 18.2 14.5 21.7



#36
 1,1-Dichloropropene
 Concen: 7.334 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058351.D
 Acq: 25 Sep 2019 9:17

Tgt Ion: 75 Resp: 40166
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.6 49.7#
 77 0.0 24.3 36.5#

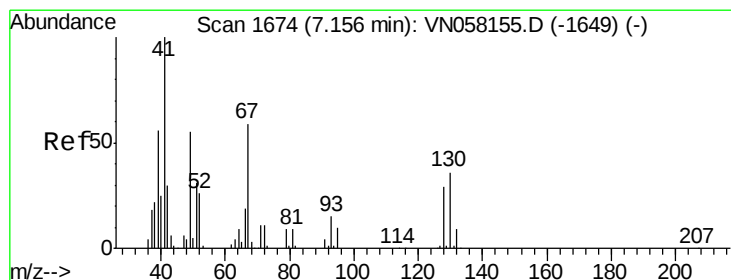
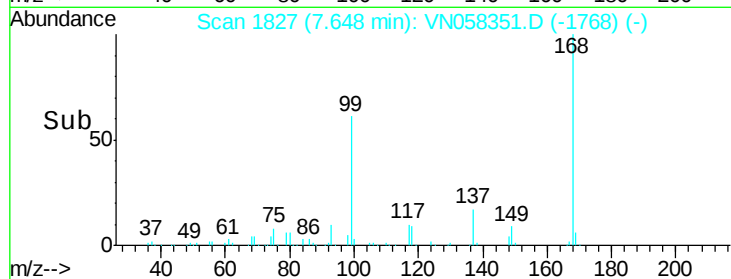
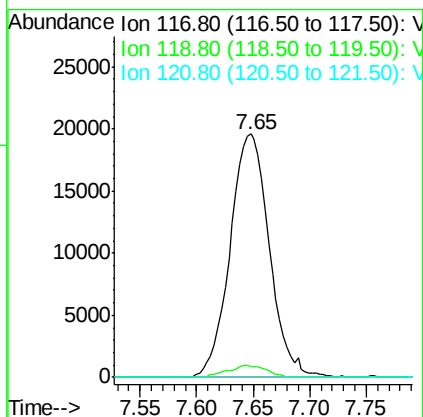
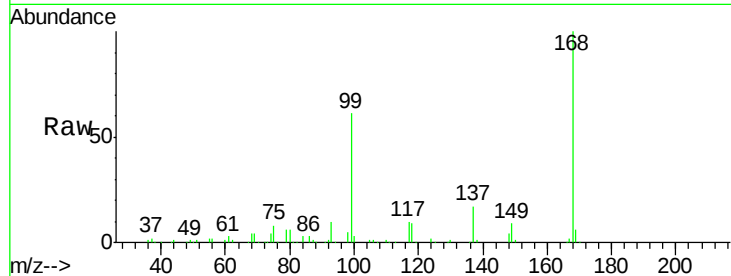




#38
Carbon Tetrachloride
Concen: 8.580 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058351.D
Acq: 25 Sep 2019 9:17

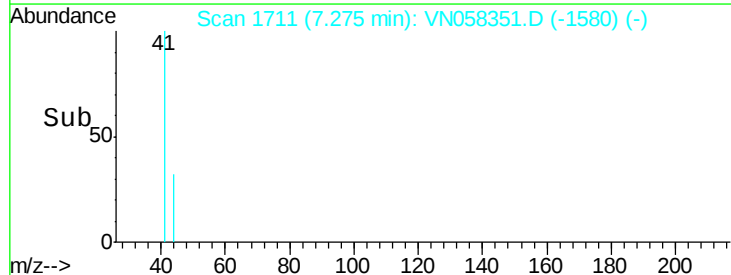
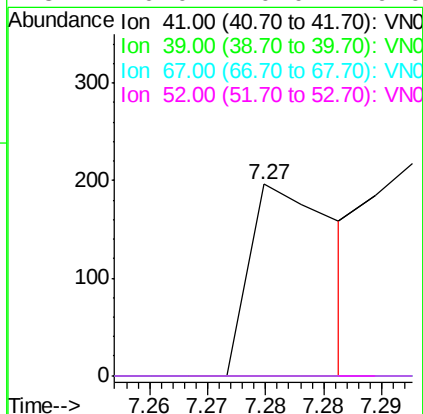
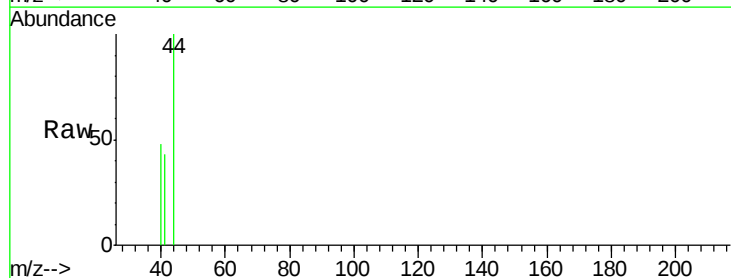
Instrument :
MSVOA_N
ClientSampled :

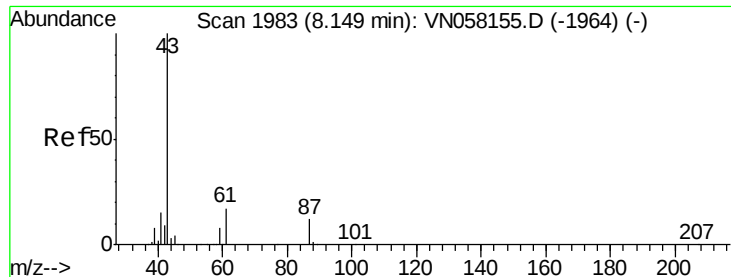
Tot Ion:117 Resp: 47234
Ion Ratio Lower Upper
117 100
119 4.3 78.6 117.8#
121 0.0 24.1 36.1#



#41
Methacrylonitrile
Concen: 0.946 ug/l
RT: 7.27 min Scan# 1711
Delta R.T. 0.12 min
Lab File: VN058351.D
Acq: 25 Sep 2019 9:17

Tgt Ion: 41 Resp: 102
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: 0.444 ug/l

RT: 8.20 min Scan# 2000

Delta R.T. 0.05 min

Lab File: VN058351.D

Acq: 25 Sep 2019 9:17

Instrument :

MSVOA_N

ClientSampleId :

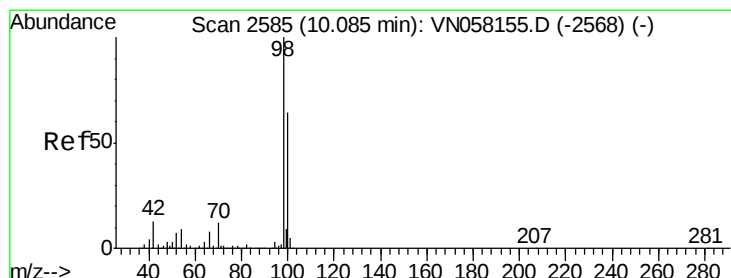
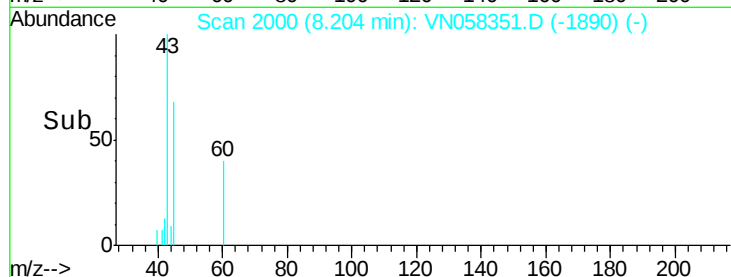
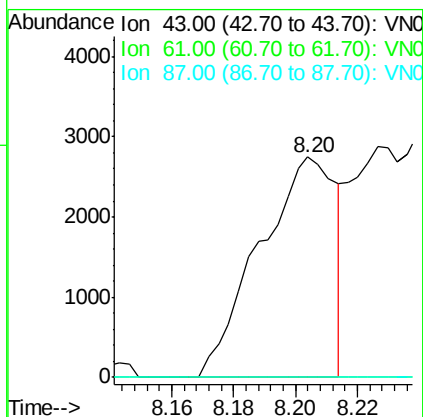
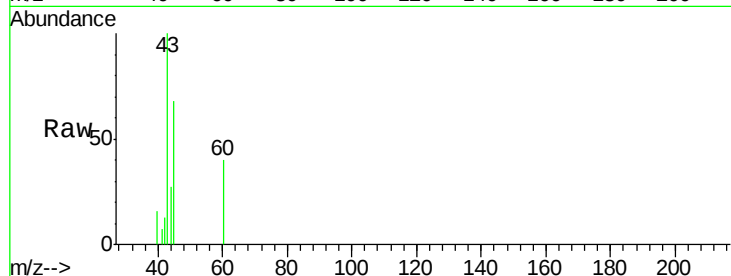
Tot Ion: 43 Resp: 4708

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#50

Toluene-d8

Concen: 53.797 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058351.D

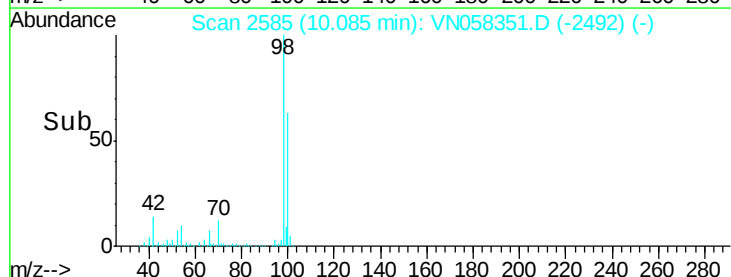
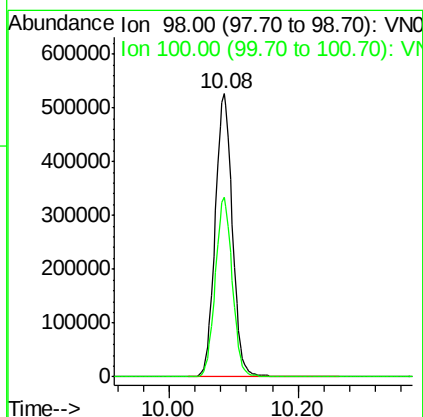
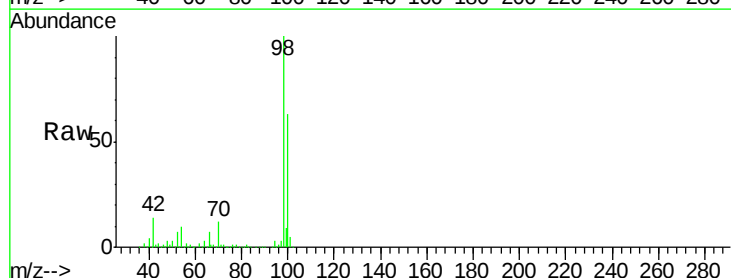
Acq: 25 Sep 2019 9:17

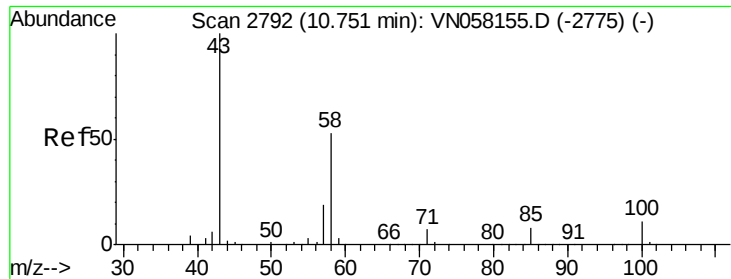
Tgt Ion: 98 Resp: 967657

Ion Ratio Lower Upper

98 100

100 62.5 51.1 76.7

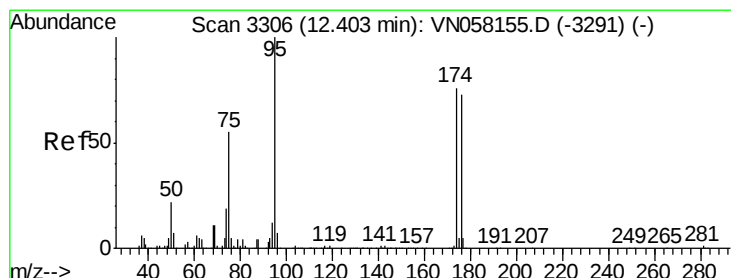
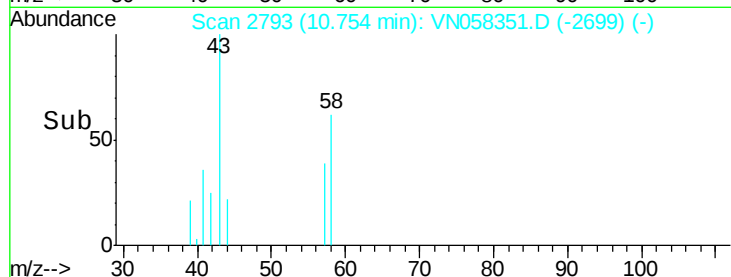
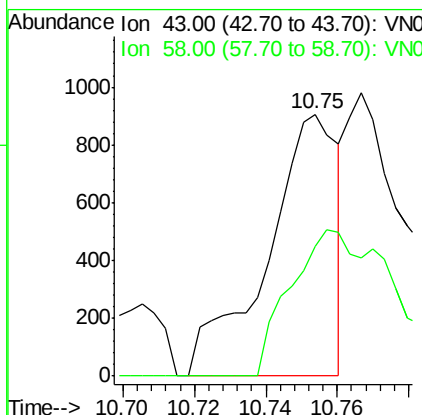
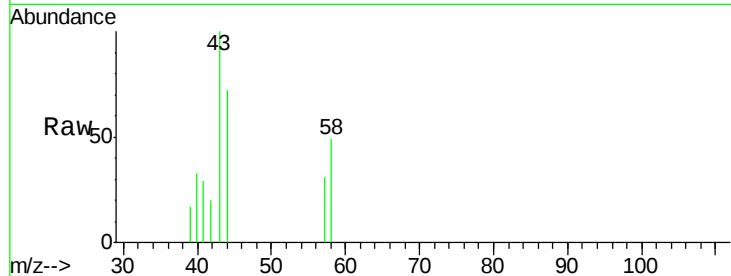




#59
2-Hexanone
Concen: 0.296 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN058351.D
Acq: 25 Sep 2019 9:17

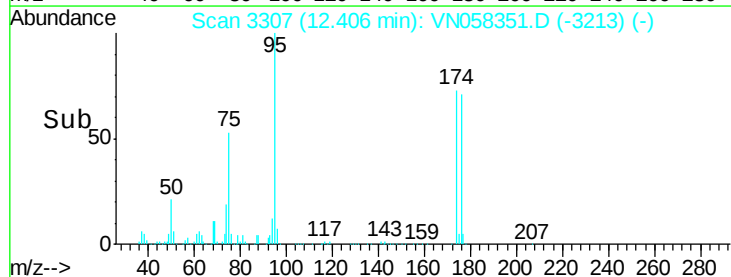
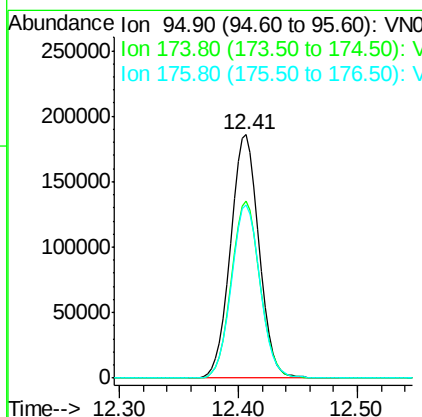
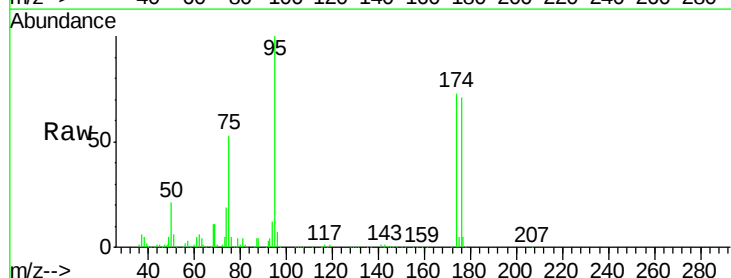
Instrument :
MSVOA_N
ClientSampled :

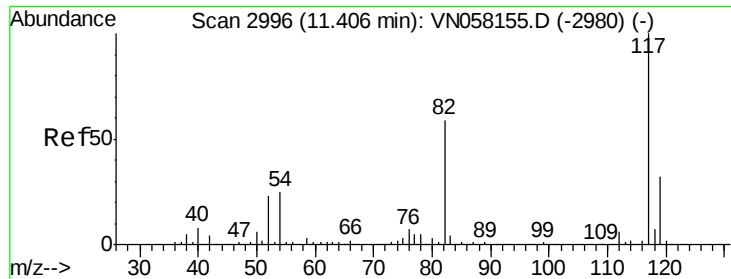
Tot Ion: 43 Resp: 1239
Ion Ratio Lower Upper
43 100
58 77.2 26.0 78.0



#62
4-Bromofluorobenzene
Concen: 46.213 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058351.D
Acq: 25 Sep 2019 9:17

Tgt Ion: 95 Resp: 308774
Ion Ratio Lower Upper
95 100
174 73.2 0.0 152.2
176 71.8 0.0 148.0

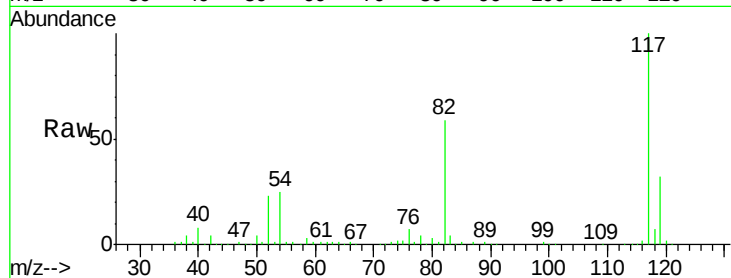




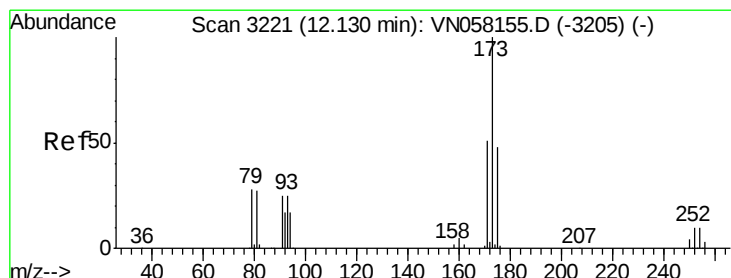
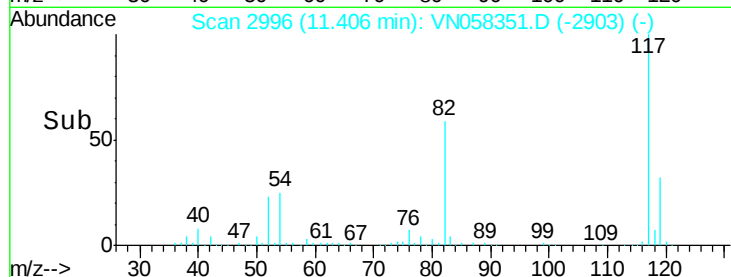
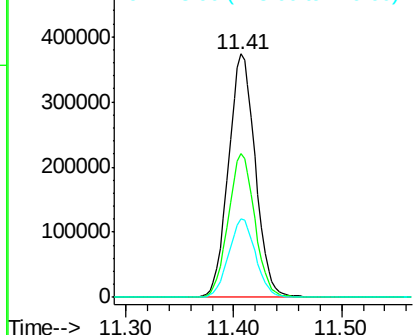
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058351.D
Acq: 25 Sep 2019 9:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 649042
Ion Ratio Lower Upper
117 100
82 58.9 46.9 70.3
119 32.1 25.3 37.9

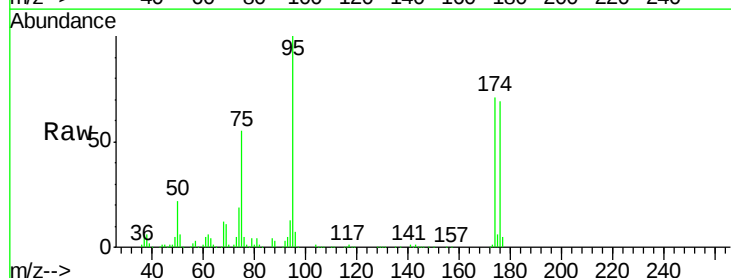


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

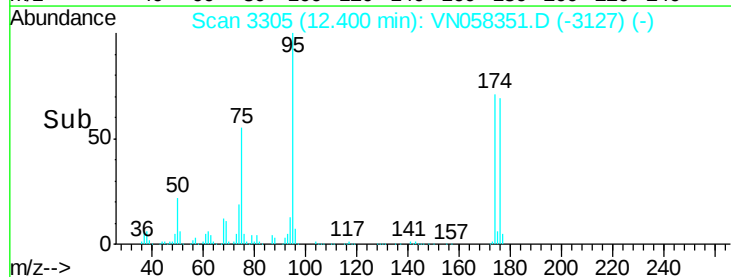
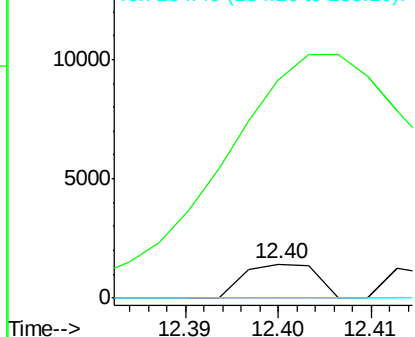


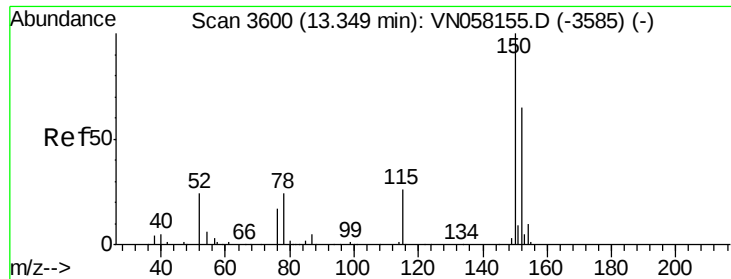
#71
Bromoform
Concen: 3.828 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN058351.D
Acq: 25 Sep 2019 9:17

Tgt Ion:173 Resp: 769
Ion Ratio Lower Upper
173 100
175 1887.8 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: VN058351.D

Acq: 25 Sep 2019 9:17

Instrument :

MSVOA_N

ClientSampleId :

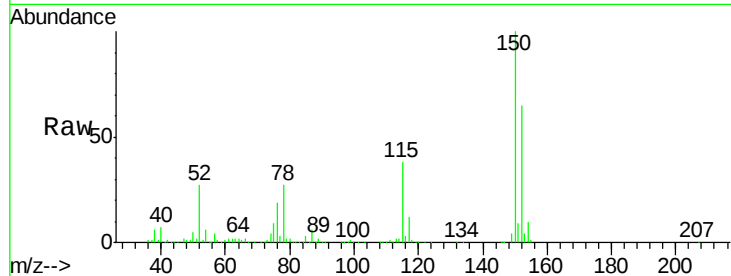
Tot Ion:152 Resp: 266089

Ion Ratio Lower Upper

152 100

115 59.8 30.1 90.3

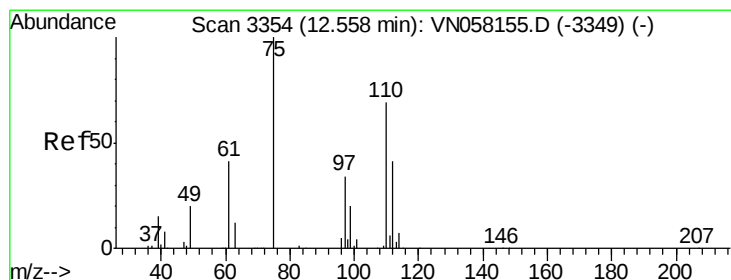
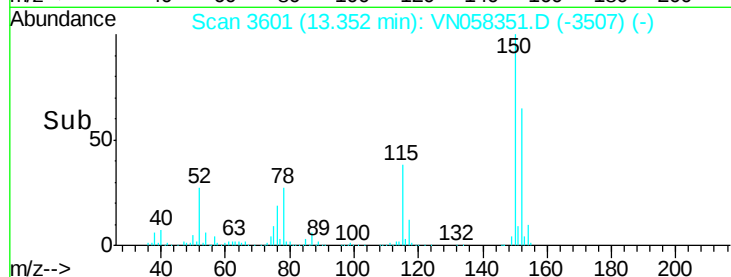
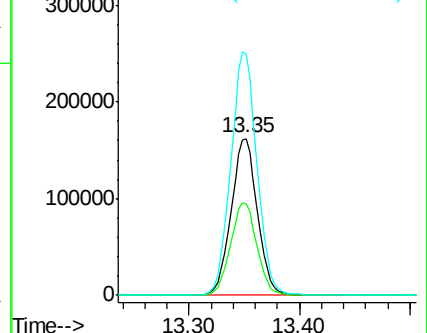
150 155.6 0.0 346.4



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: 35.372 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058351.D

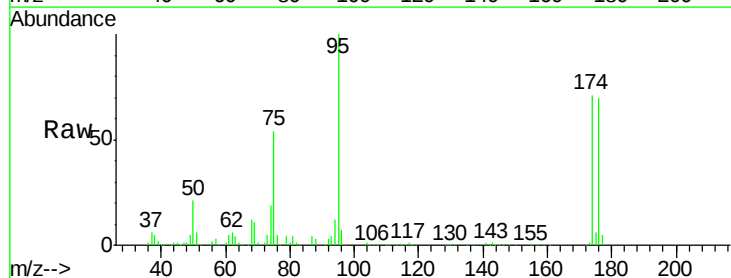
Acq: 25 Sep 2019 9:17

Tgt Ion: 75 Resp: 168448

Ion Ratio Lower Upper

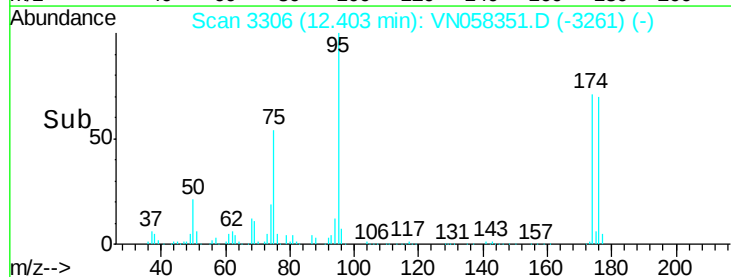
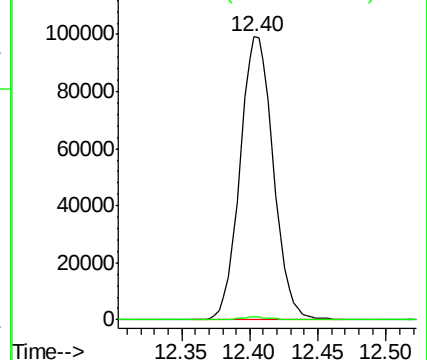
75 100

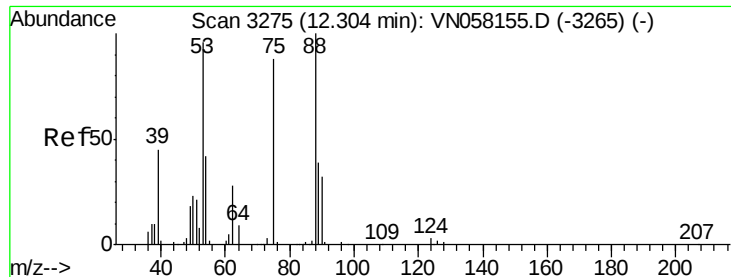
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 98.887 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058351.D

Acq: 25 Sep 2019 9:17

Instrument :

MSVOA_N

ClientSampled :

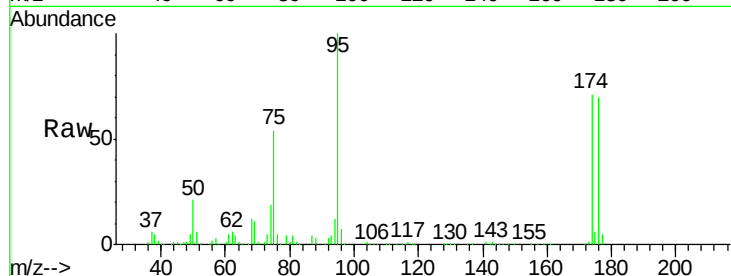
Tot Ion: 75 Resp: 168448

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

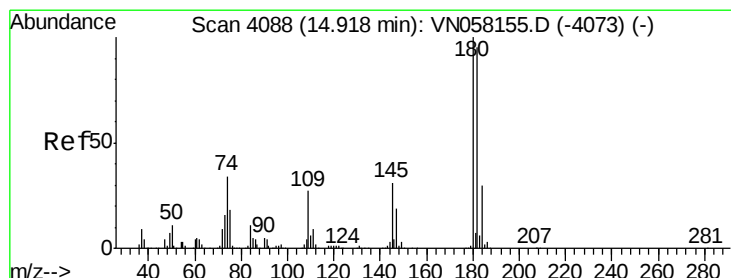
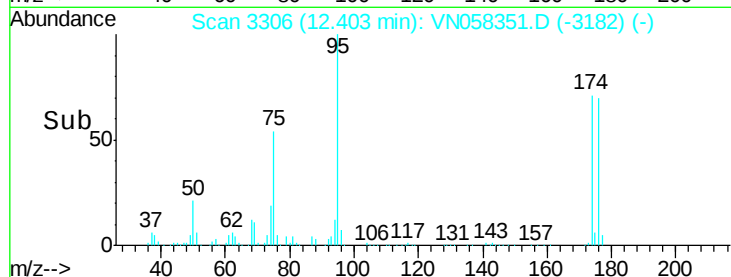
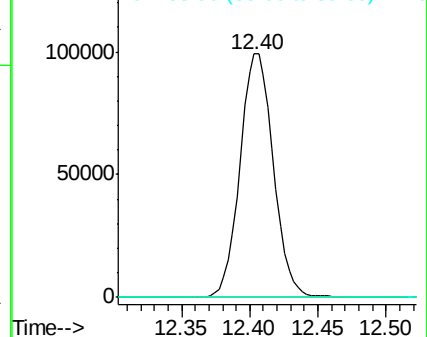
89 0.0 36.2 54.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.427 ug/l

RT: 14.92 min Scan# 4090

Delta R.T. 0.01 min

Lab File: VN058351.D

Acq: 25 Sep 2019 9:17

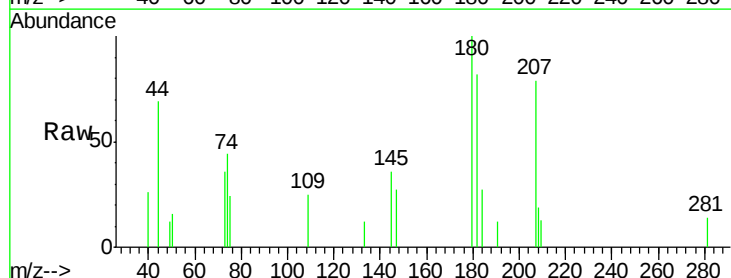
Tgt Ion:180 Resp: 2095

Ion Ratio Lower Upper

180 100

182 92.3 47.8 143.3

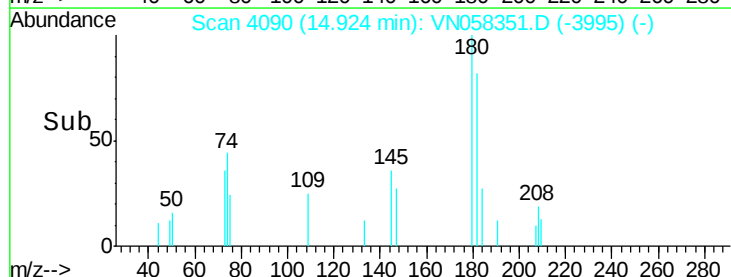
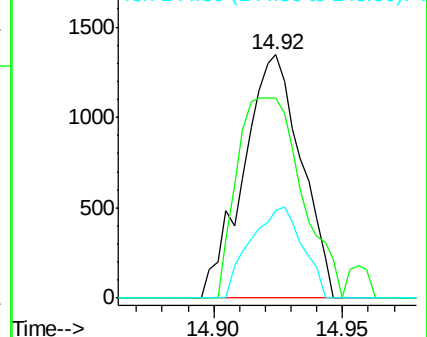
145 34.0 15.4 46.4

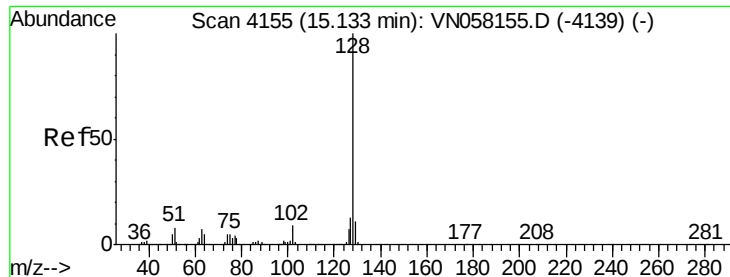


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.811 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058351.D

Acq: 25 Sep 2019 9:17

Instrument :

MSVOA_N

ClientSampleId :

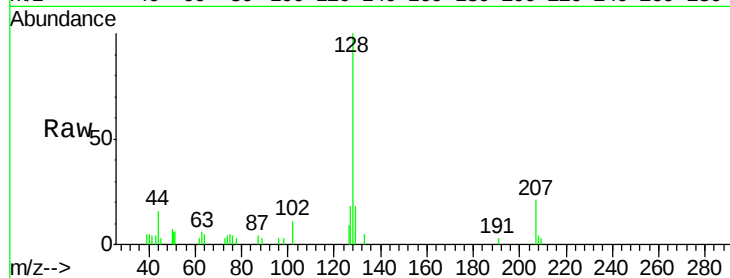
Tot Ion:128 Resp: 10308

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

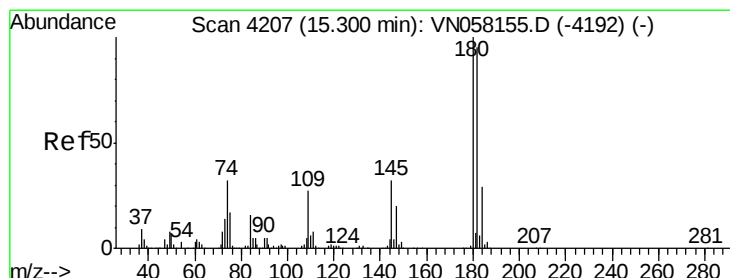
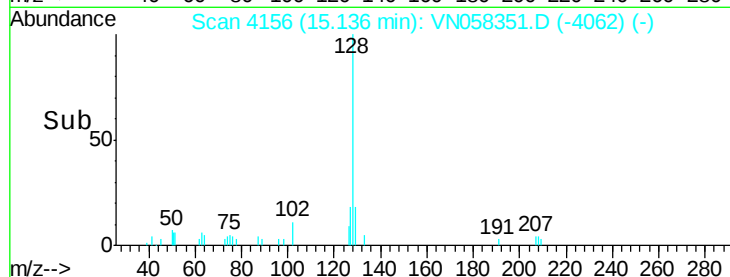
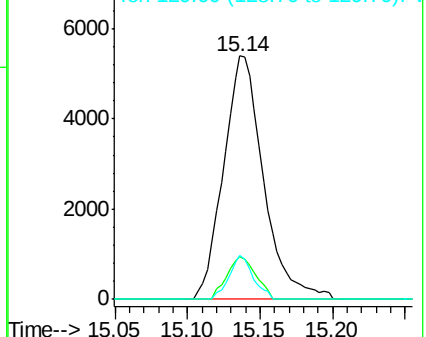
129 10.8 8.6 12.8



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: 0.683 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN058351.D

Acq: 25 Sep 2019 9:17

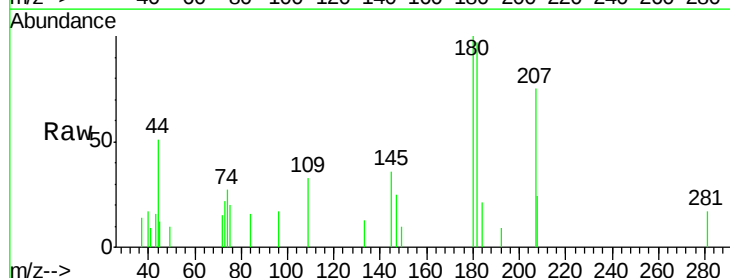
Tgt Ion:180 Resp: 3165

Ion Ratio Lower Upper

180 100

182 93.1 47.4 142.2

145 26.4 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

