

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058715.D
 Acq On : 11 Oct 2019 20:24
 Operator : JC/SP
 Sample : K5336-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-USMW025

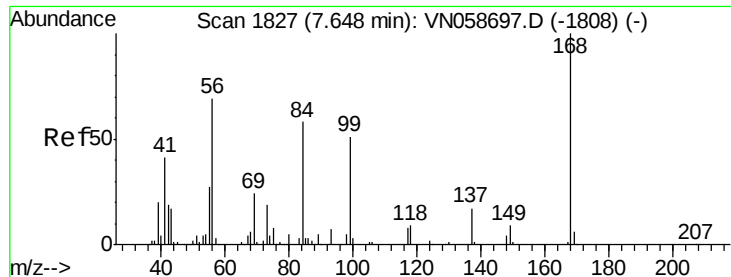
Quant Time: Oct 12 00:14:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	386690	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	610667	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	508226	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	189597	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	260509	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
35) Dibromofluoromethane	7.57	113	188955	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
50) Toluene-d8	10.08	98	716932	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
62) 4-Bromofluorobenzene	12.40	95	226367	39.65	ug/l	0.00
Spiked Amount			Recovery	=	79.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2928	0.511	ug/l	97
4) Vinyl Chloride	2.17	62	6840	1.199	ug/l	92
12) 1,1-Dichloroethene	3.72	96	902	0.243	ug/l #	60
16) Acetone	3.80	43	15213	6.788	ug/l	89
18) Methyl Acetate	4.04	43	16281	2.864	ug/l #	54
25) 2-Butanone	6.92	43	24103	7.441	ug/l #	50
27) cis-1,2-Dichloroethene	6.81	96	6005	1.240	ug/l	76
31) Cyclohexane	7.65	56	8836	1.113	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	32540	5.270	ug/l #	51
37) Ethyl Acetate	6.92	43	24103	3.860	ug/l #	87
38) Carbon Tetrachloride	7.65	117	38703	6.432	ug/l #	17
44) Trichloroethene	8.83	130	13179	2.993	ug/l	86
59) 2-Hexanone	10.75	43	1153	0.250	ug/l	73
71) Bromoform	12.41	173	1209	0.432	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	119881	28.822	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	119881	77.206	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.28	75	437	0.414	ug/l #	23
93) 1,2,4-Trichlorobenzene	14.92	180	2131	0.582	ug/l	91
95) Naphthalene	15.13	128	7609	0.723	ug/l	95
96) 1,2,3-Trichlorobenzene	15.30	180	2716	0.760	ug/l	79

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

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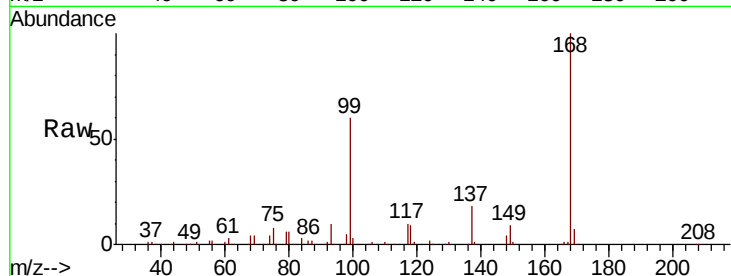
FA19-USMW025

Tot Ion:168 Resp: 386690

Ion Ratio Lower Upper

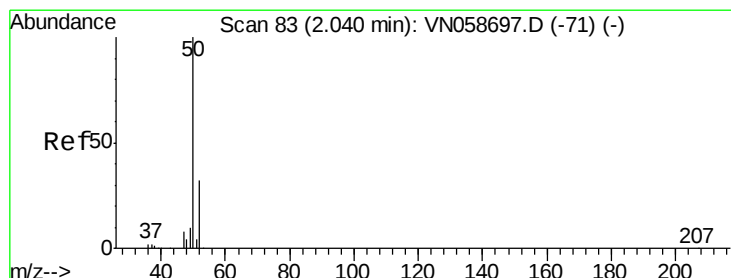
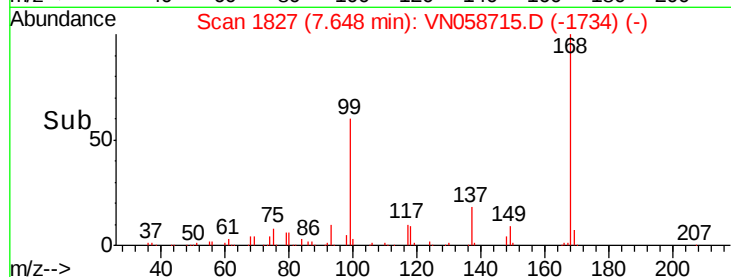
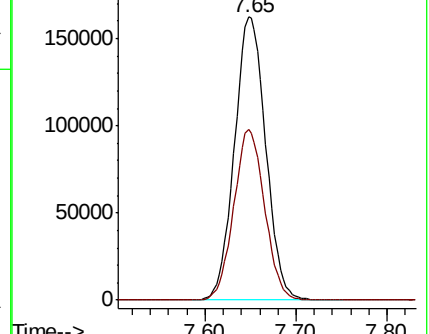
168 100

99 60.4 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.511 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN058715.D

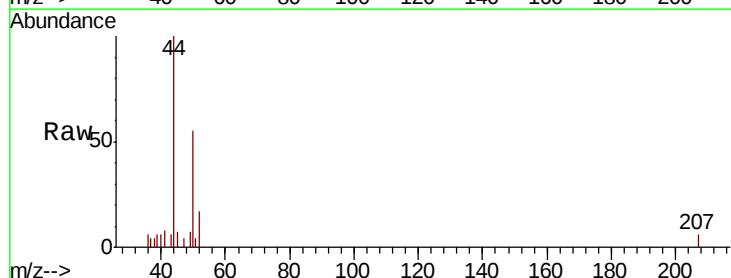
Acq: 11 Oct 2019 20:24

Tgt Ion: 50 Resp: 2928

Ion Ratio Lower Upper

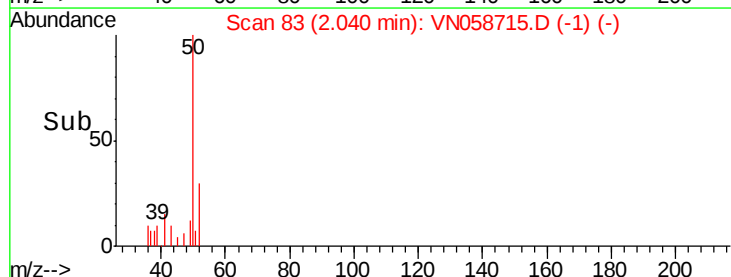
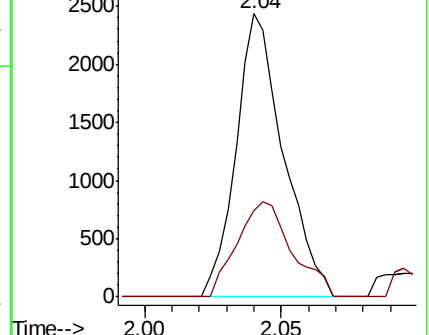
50 100

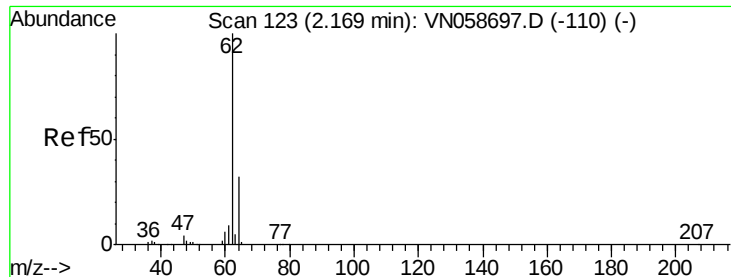
52 30.3 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#4

Vinyl Chloride

Concen: 1.199 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

Instrument :

MSVOA_N

ClientSampleId :

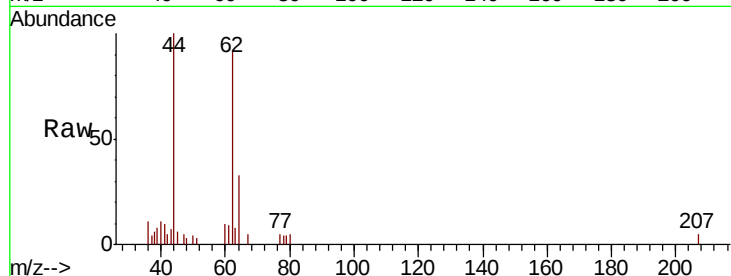
FA19-USMW025

Tot Ion: 62 Resp: 6840

Ion Ratio Lower Upper

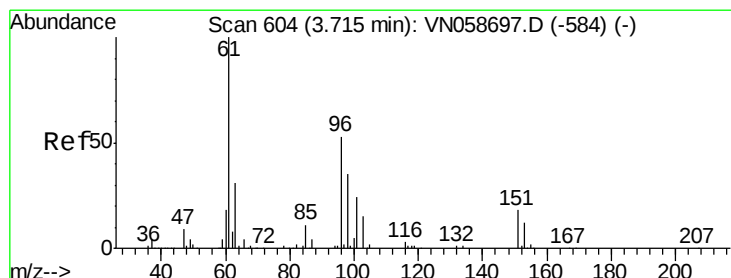
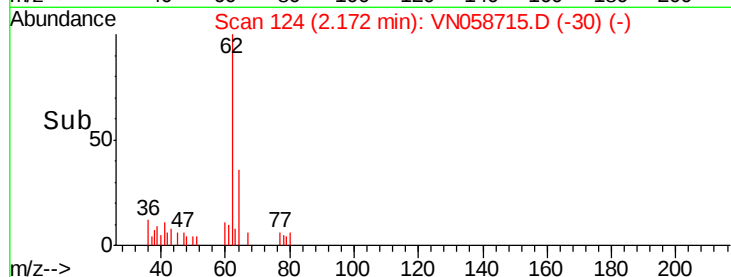
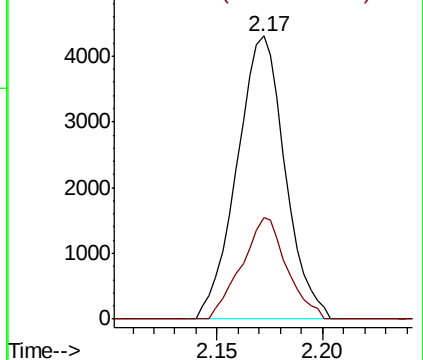
62 100

64 36.0 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#12

1,1-Dichloroethene

Concen: 0.243 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

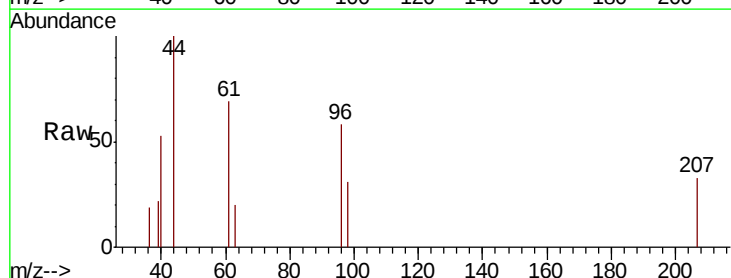
Tgt Ion: 96 Resp: 902

Ion Ratio Lower Upper

96 100

61 117.7 151.3 226.9#

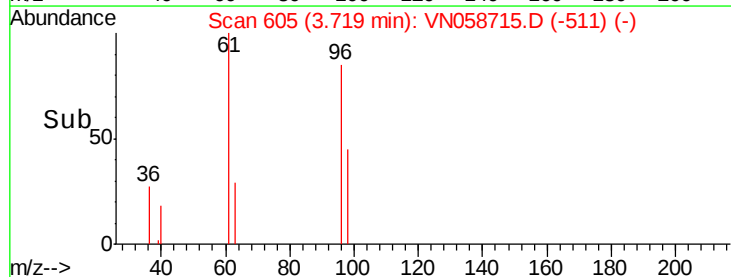
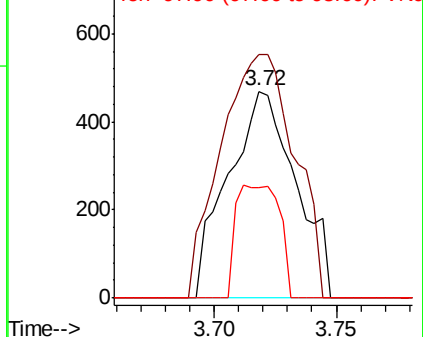
98 53.4 52.6 78.8

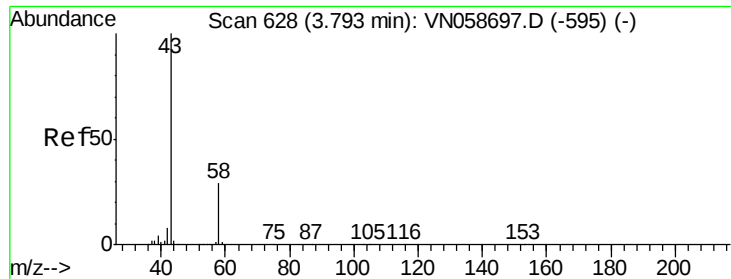


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

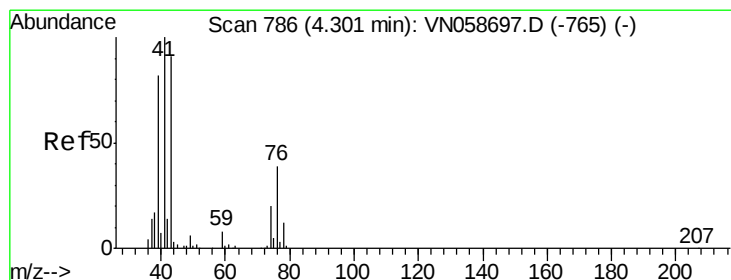
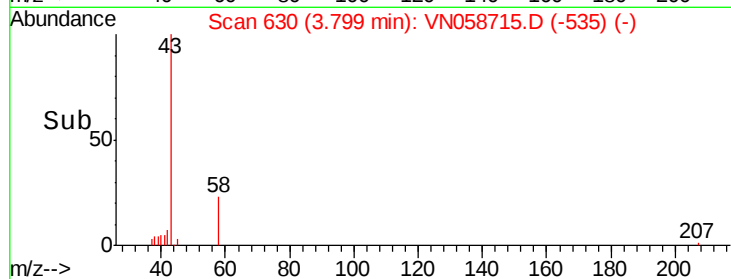
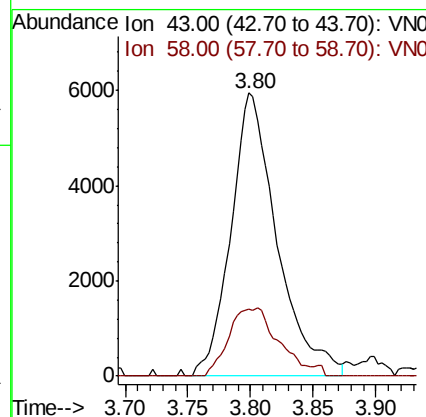
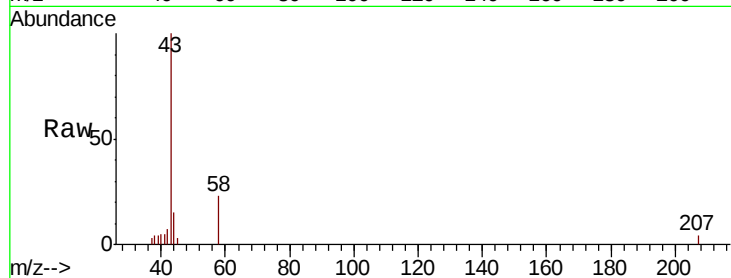




#16
Acetone
Concen: 6.788 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.01 min
Lab File: VN058715.D
Acq: 11 Oct 2019 20:24

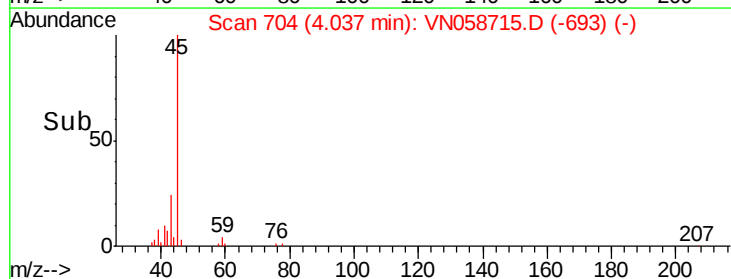
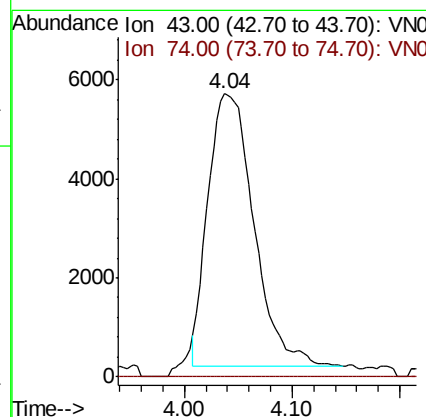
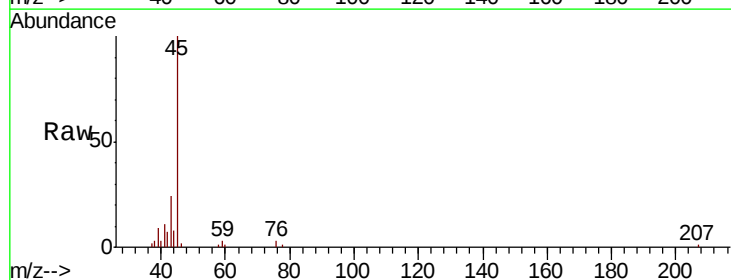
Instrument :
MSVOA_N
ClientSampleId :
FA19-USMW025

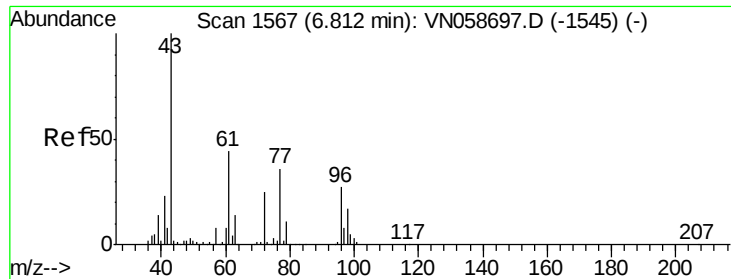
Tot Ion: 43 Resp: 15213
Ion Ratio Lower Upper
43 100
58 23.5 23.3 34.9



#18
Methyl Acetate
Concen: 2.864 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.26 min
Lab File: VN058715.D
Acq: 11 Oct 2019 20:24

Tgt Ion: 43 Resp: 16281
Ion Ratio Lower Upper
43 100
74 0.0 17.2 25.8#

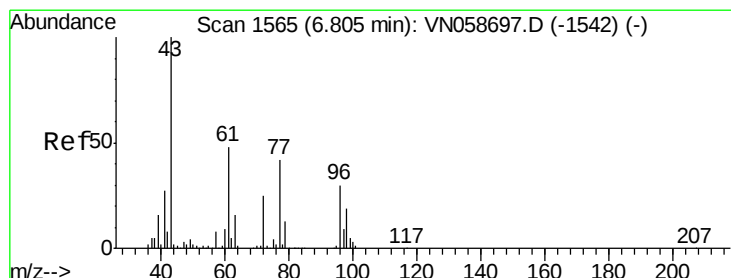
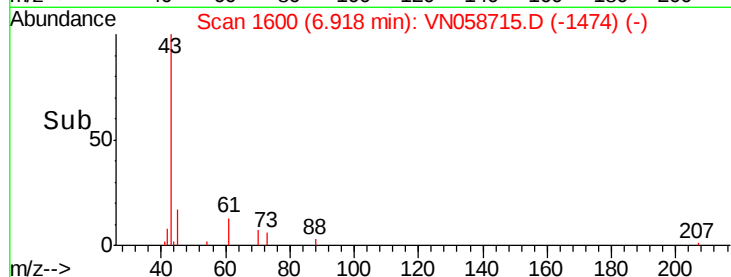
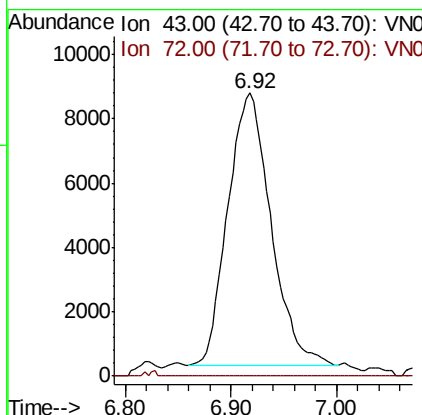
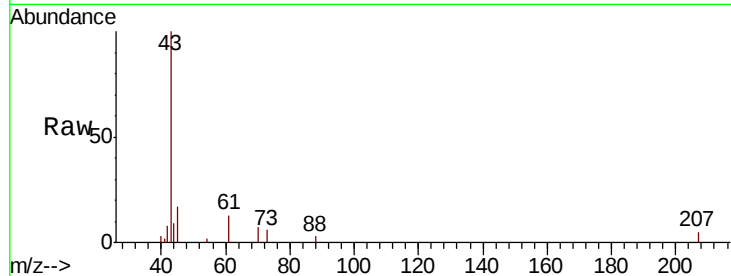




#25
2-Butanone
Concen: 7.441 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.11 min
Lab File: VN058715.D
Acq: 11 Oct 2019 20:24

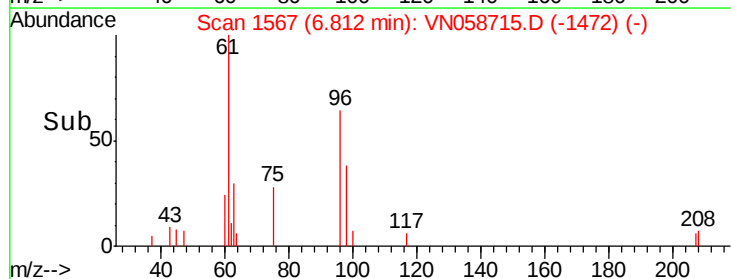
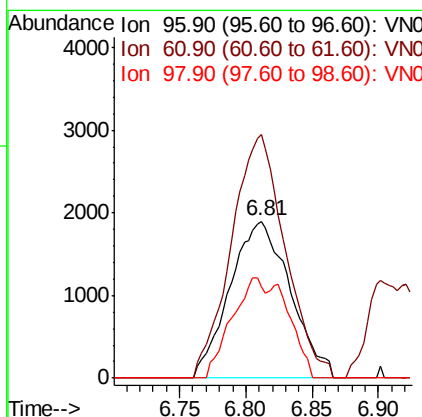
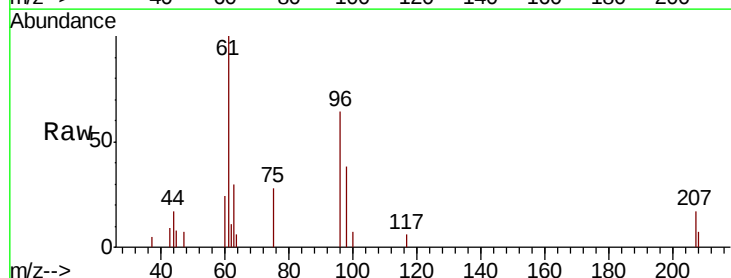
Instrument :
MSVOA_N
ClientSampleId :
FA19-USMW025

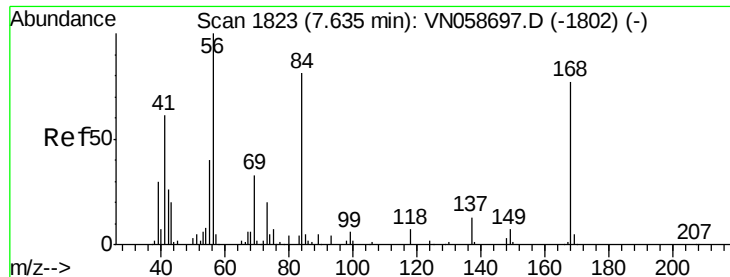
Tot Ion: 43 Resp: 24103
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#



#27
cis-1,2-Dichloroethene
Concen: 1.240 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN058715.D
Acq: 11 Oct 2019 20:24

Tgt Ion: 96 Resp: 6005
Ion Ratio Lower Upper
96 100
61 138.3 0.0 324.8
98 35.2 0.0 129.2

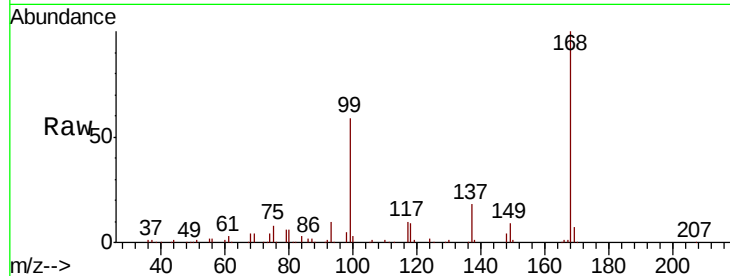




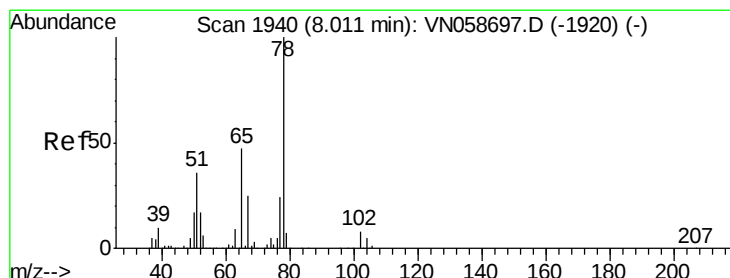
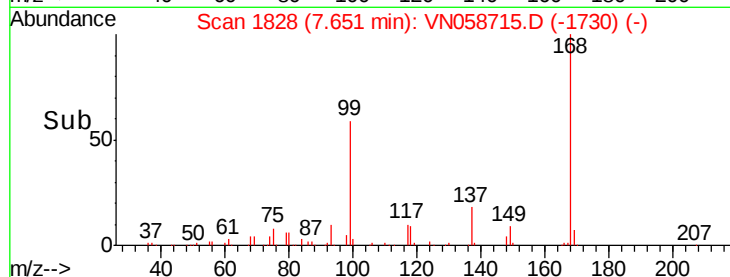
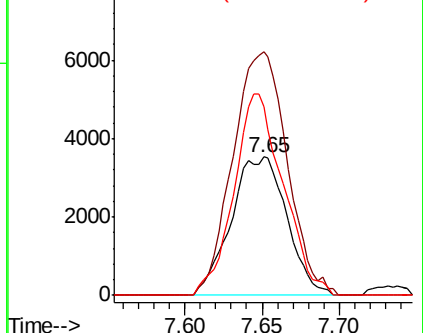
#31
Cyclohexane
Concen: 1.113 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.02 min
Lab File: VN058715.D
Acq: 11 Oct 2019 20:24

Instrument :
MSVOA_N
ClientSampleId :
FA19-USMW025

Tot Ion: 56 Resp: 8836
Ion Ratio Lower Upper
56 100
69 176.2 26.2 39.4#
84 136.7 64.9 97.3#

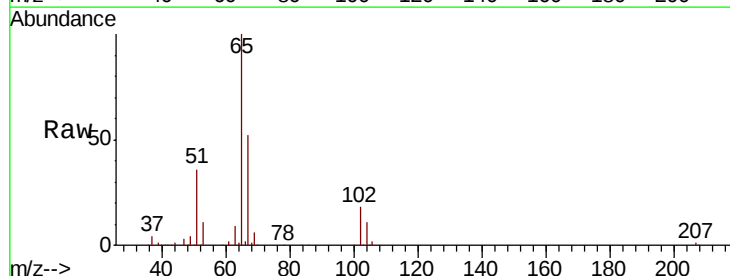


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

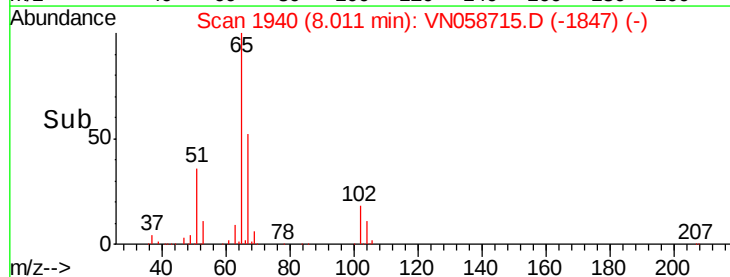
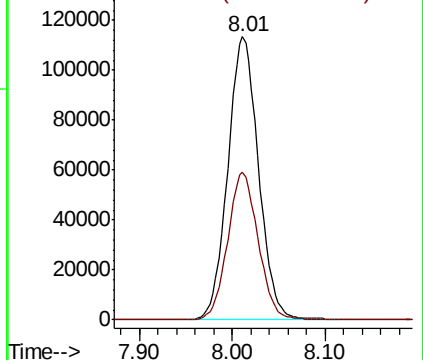


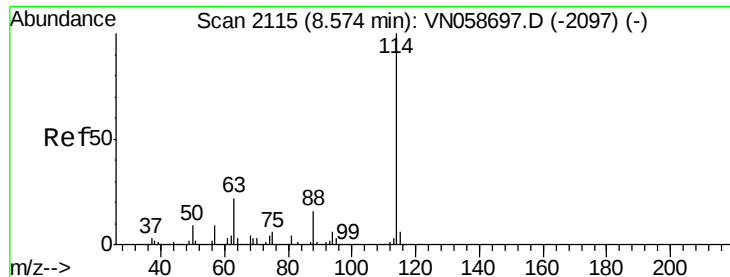
#33
1,2-Dichloroethane-d4
Concen: 48.121 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058715.D
Acq: 11 Oct 2019 20:24

Tgt Ion: 65 Resp: 260509
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.8



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

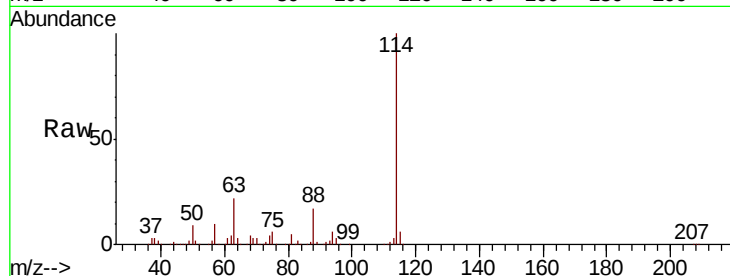




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. -0.00 min
Lab File: VN058715.D
Acq: 11 Oct 2019 20:24

Instrument :
MSVOA_N
ClientSampleId :
FA19-USMW025

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	43.8
88	16.6	0.0	32.0

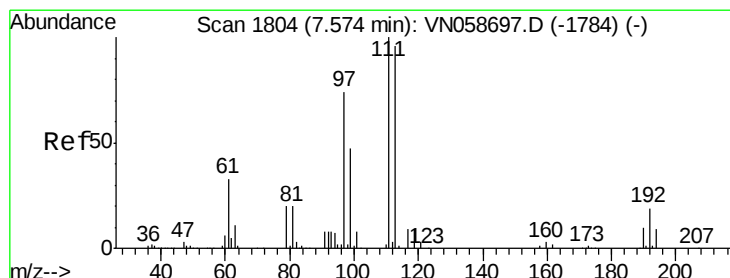
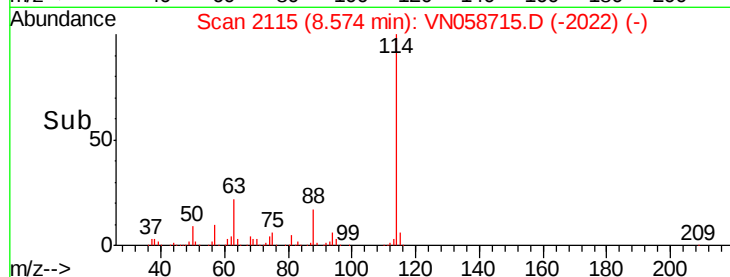
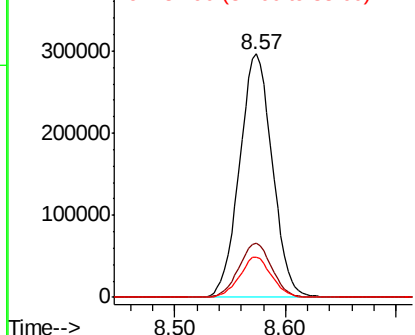


Abundance

Ion 113.90 (113.60 to 114.60): V

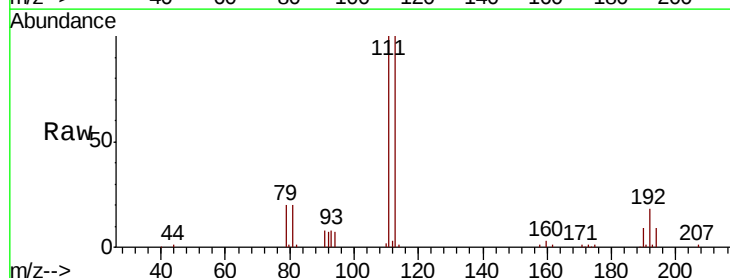
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35
Dibromofluoromethane
Concen: 50.095 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058715.D
Acq: 11 Oct 2019 20:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.0	82.3	123.5
192	18.4	15.0	22.6

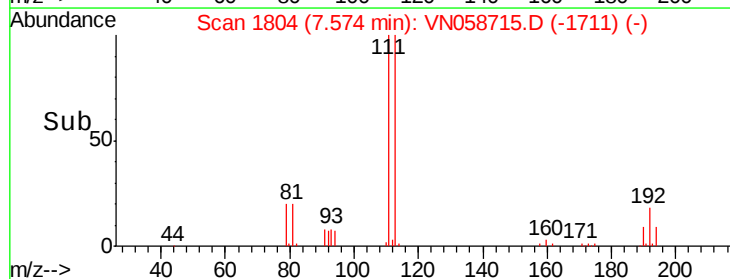
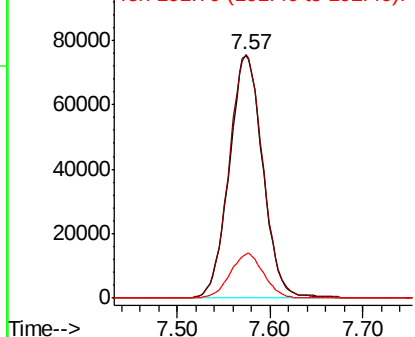


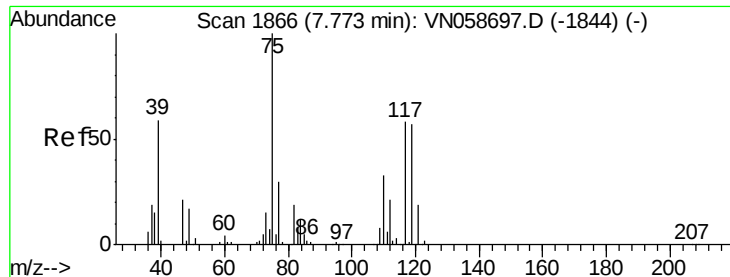
Abundance

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: 5.270 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.12 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

Instrument :

MSVOA_N

ClientSampleId :

FA19-USMW025

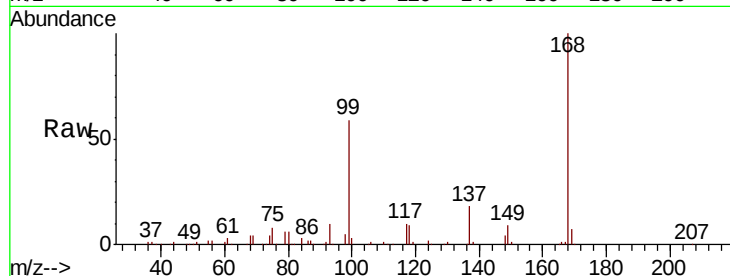
Tot Ion: 75 Resp: 32540

Ion Ratio Lower Upper

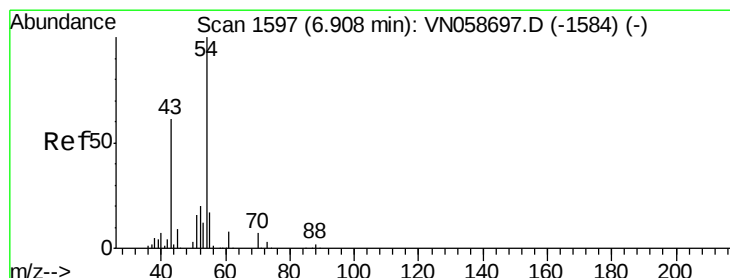
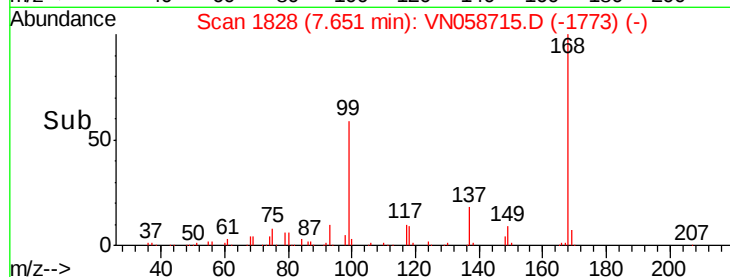
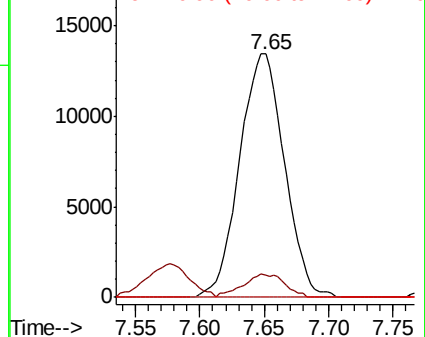
75 100

110 8.8 16.6 49.8#

77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC
Ion 109.90 (109.60 to 110.60): VNC
Ion 76.90 (76.60 to 77.60): VNC



#37

Ethyl Acetate

Concen: 3.860 ug/l

RT: 6.92 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

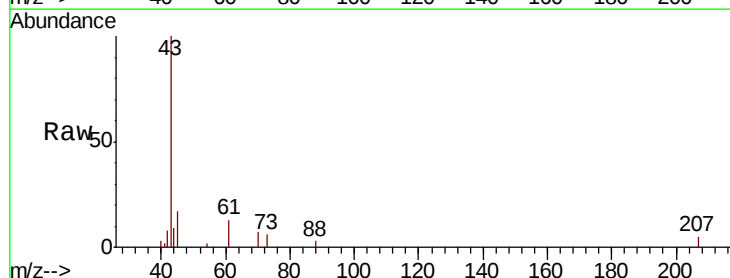
Tgt Ion: 43 Resp: 24103

Ion Ratio Lower Upper

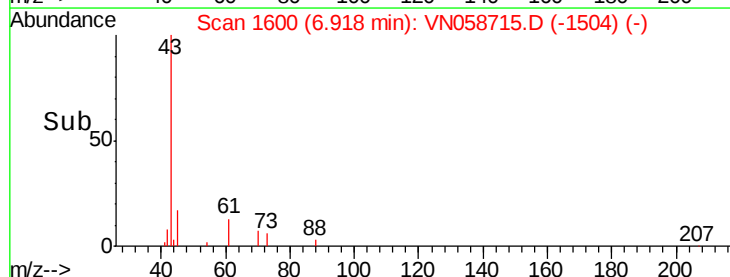
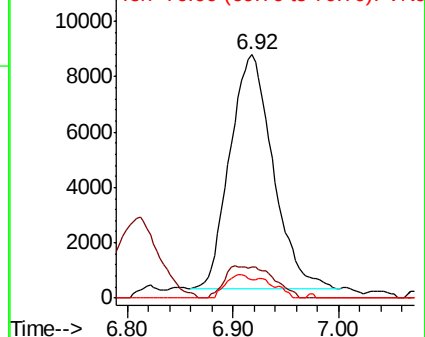
43 100

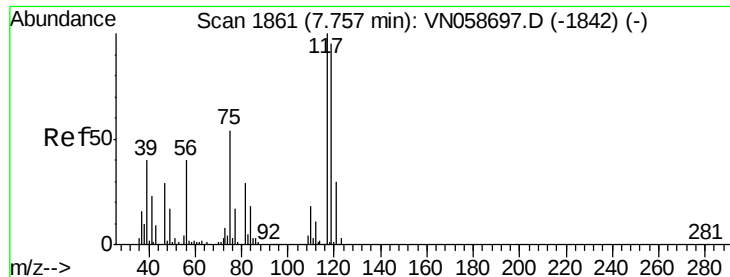
61 7.6 11.3 16.9#

70 5.7 7.2 10.8#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 70.00 (69.70 to 70.70): VNC

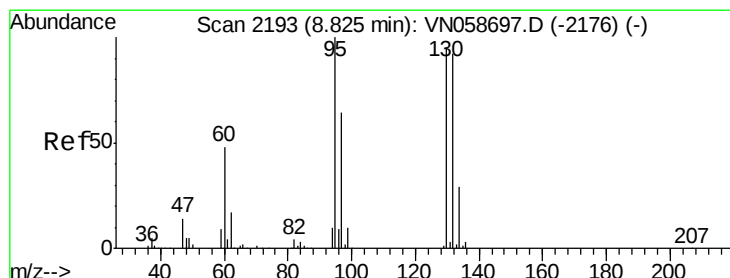
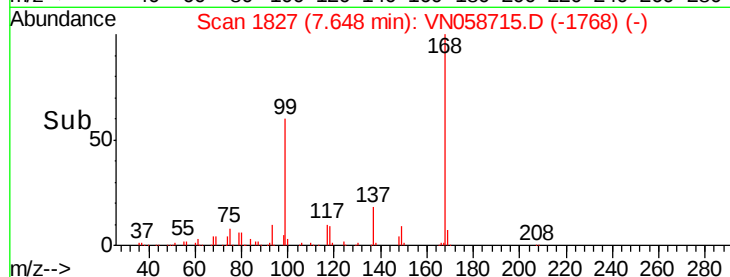
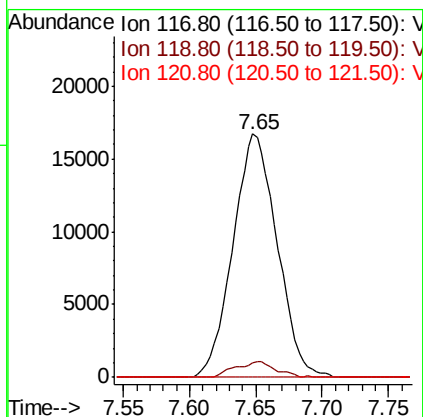
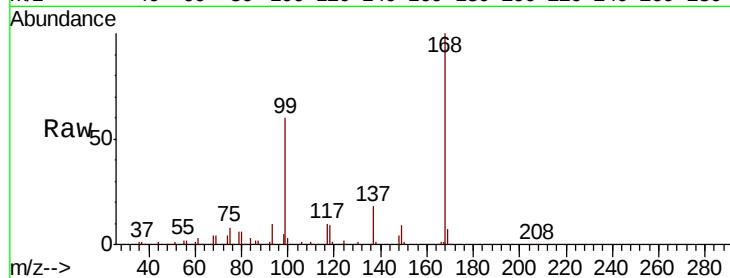




#38
Carbon Tetrachloride
Concen: 6.432 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058715.D
Acq: 11 Oct 2019 20:24

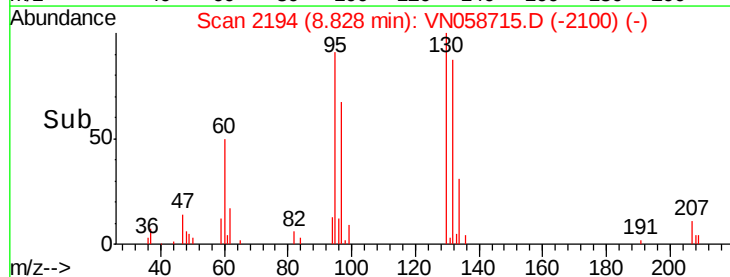
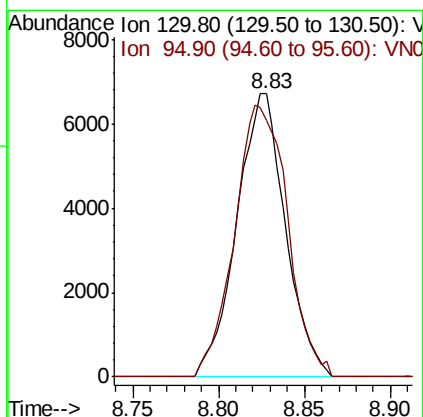
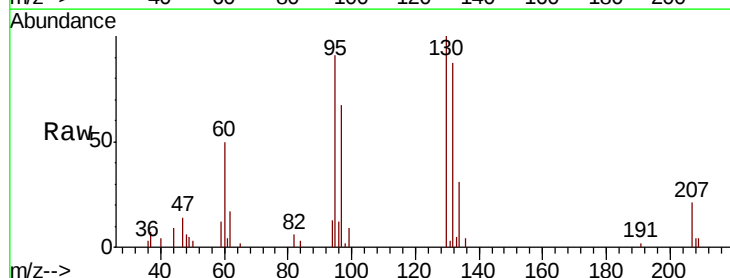
Instrument :
MSVOA_N
ClientSampleId :
FA19-USMW025

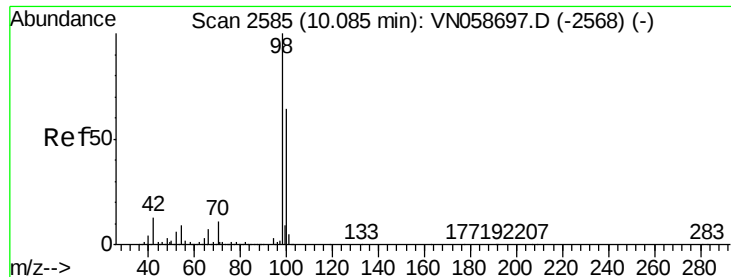
Tot Ion:117 Resp: 38703
Ion Ratio Lower Upper
117 100
119 5.7 75.7 113.5#
121 0.0 23.9 35.9#



#44
Trichloroethene
Concen: 2.993 ug/l
RT: 8.83 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VN058715.D
Acq: 11 Oct 2019 20:24

Tgt Ion:130 Resp: 13179
Ion Ratio Lower Upper
130 100
95 90.7 0.0 211.2





#50

Toluene-d8

Concen: 47.531 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

Instrument :

MSVOA_N

ClientSampleId :

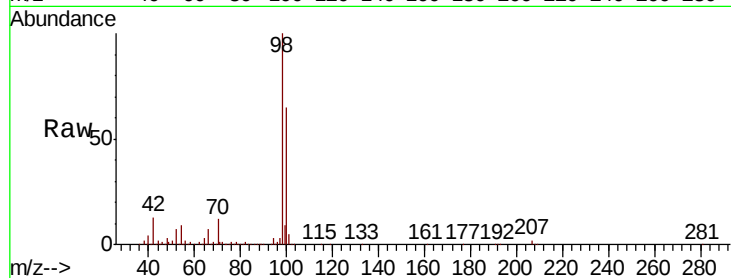
FA19-USMW025

Tot Ion: 98 Resp: 716932

Ion Ratio Lower Upper

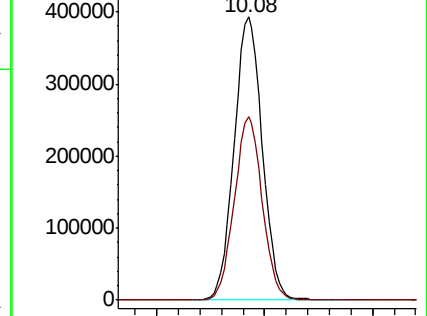
98 100

100 64.0 51.1 76.7

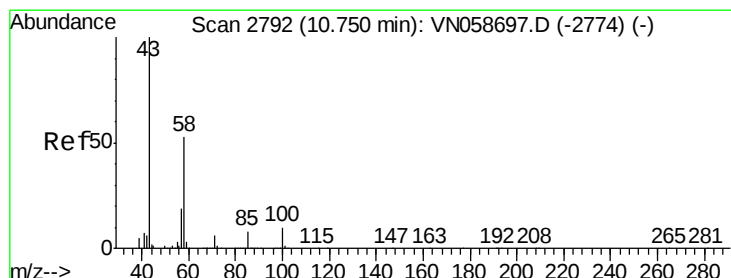
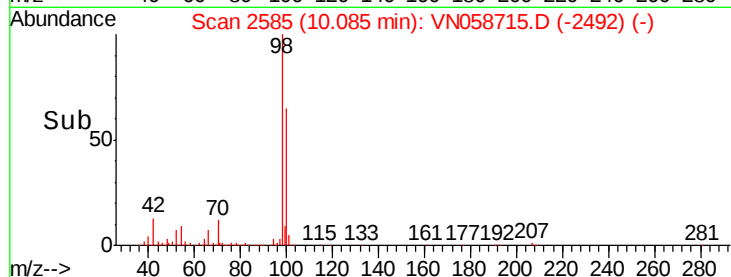


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#59

2-Hexanone

Concen: 0.250 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN058715.D

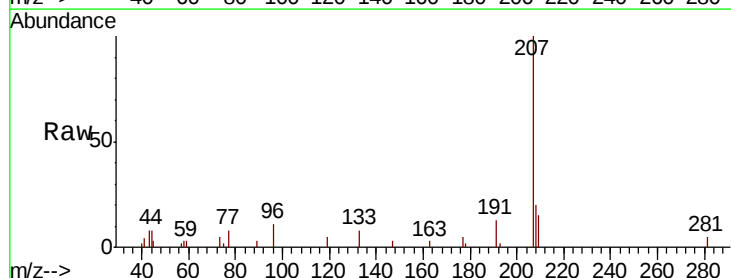
Acq: 11 Oct 2019 20:24

Tgt Ion: 43 Resp: 1153

Ion Ratio Lower Upper

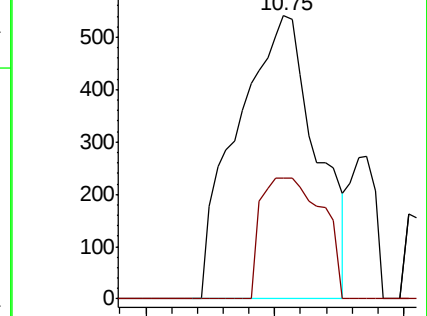
43 100

58 33.4 26.1 78.3

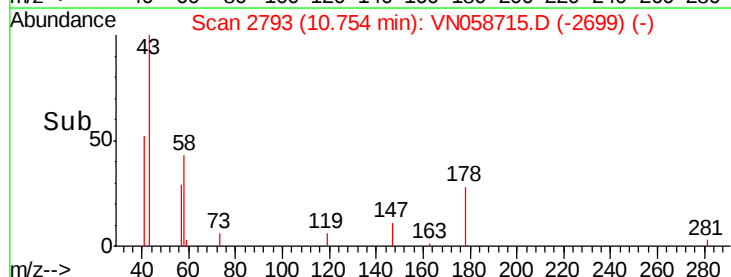


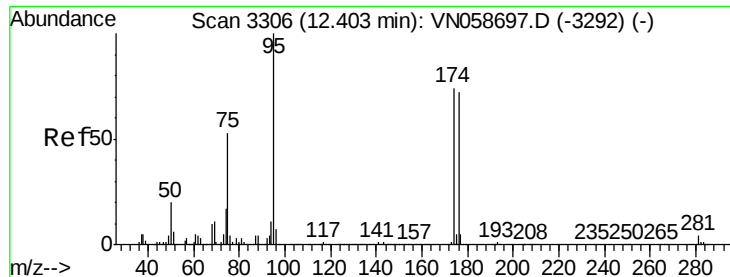
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 39.647 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

Instrument :

MSVOA_N

ClientSampleId :

FA19-USMW025

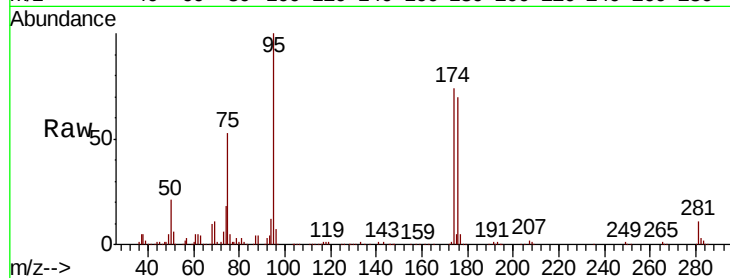
Tot Ion: 95 Resp: 226367

Ion Ratio Lower Upper

95 100

174 76.1 0.0 150.4

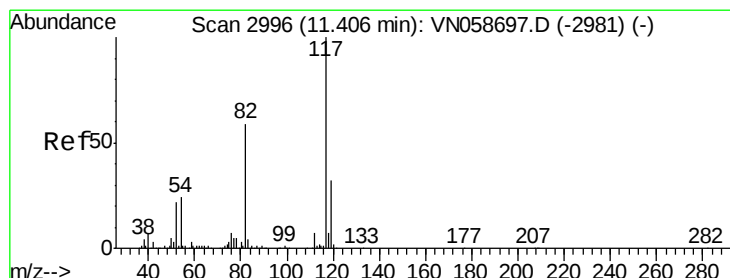
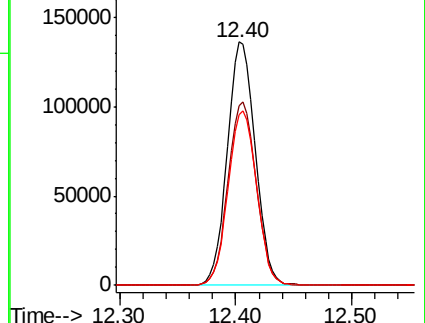
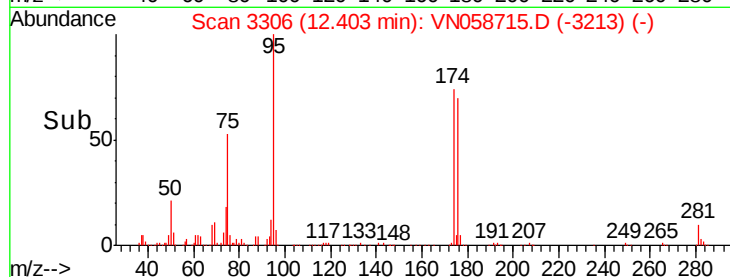
176 73.2 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN058715.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058715.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058715.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

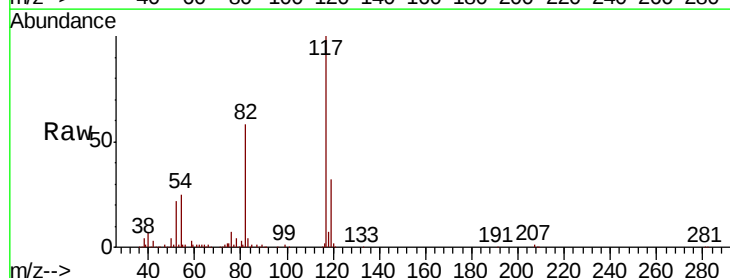
Tgt Ion: 117 Resp: 508226

Ion Ratio Lower Upper

117 100

82 58.2 47.0 70.4

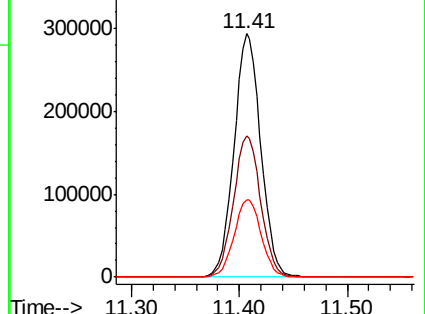
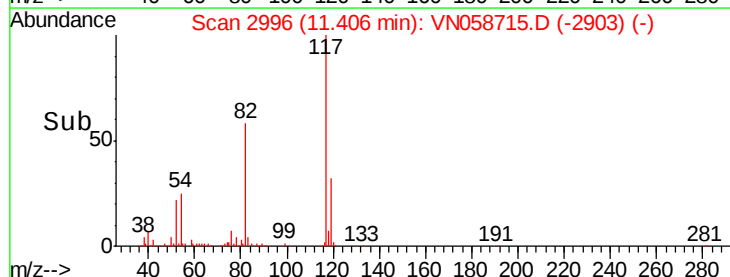
119 31.9 25.4 38.2

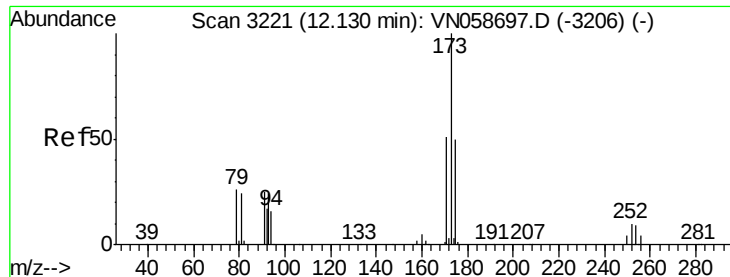


Abundance Ion 116.90 (116.60 to 117.60): VN058715.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058715.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058715.D (-2903) (-)





#71

Bromoform

Concen: 0.432 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

Instrument :

MSVOA_N

ClientSampleId :

FA19-USMW025

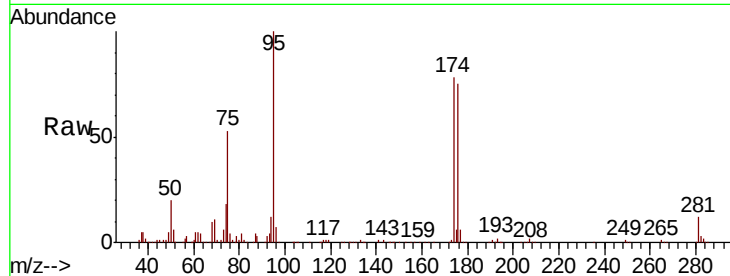
Tot Ion:173 Resp: 1209

Ion Ratio Lower Upper

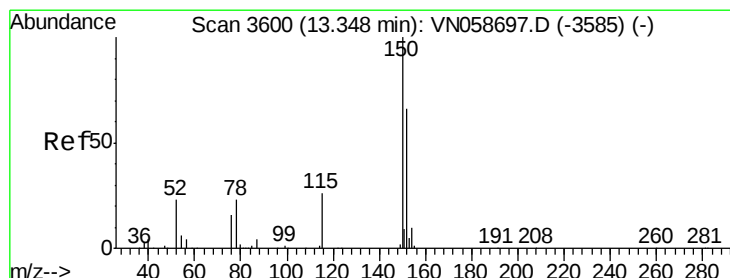
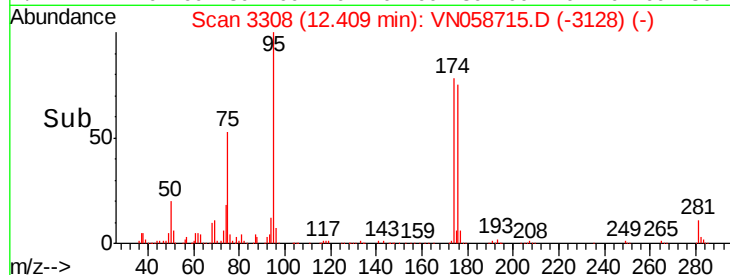
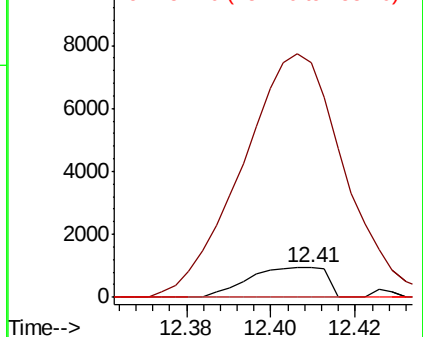
173 100

175 932.2 24.6 73.8#

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# 3600

Delta R.T. -0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

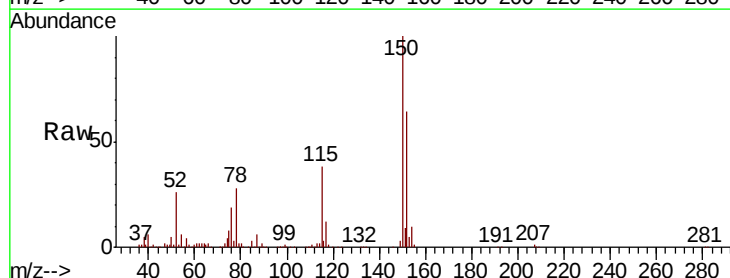
Tgt Ion:152 Resp: 189597

Ion Ratio Lower Upper

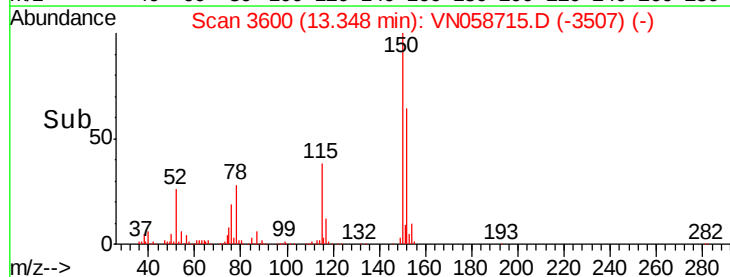
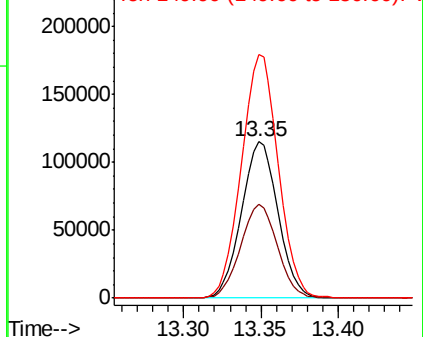
152 100

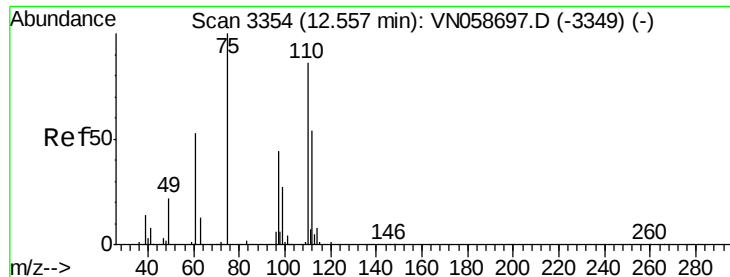
115 60.4 30.4 91.2

150 157.1 0.0 345.4



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: 28.822 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

Instrument :

MSVOA_N

ClientSampleId :

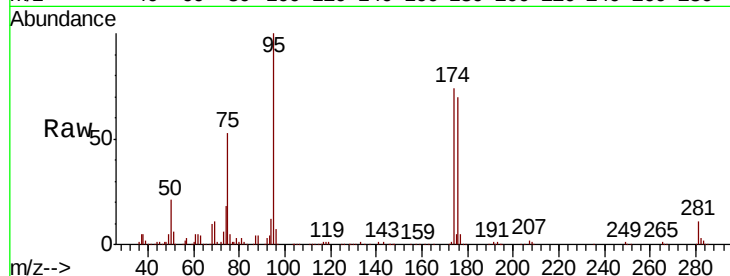
FA19-USMW025

Tot Ion: 75 Resp: 119881

Ion Ratio Lower Upper

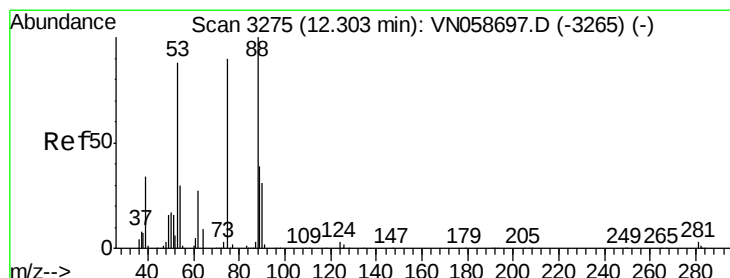
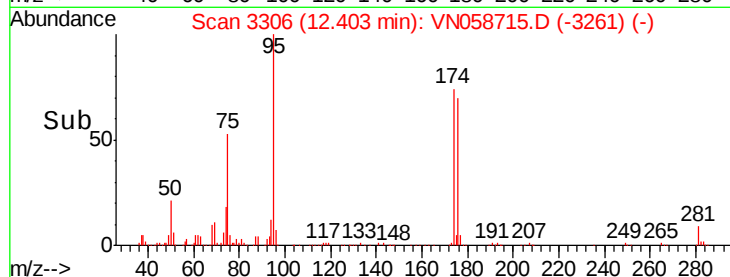
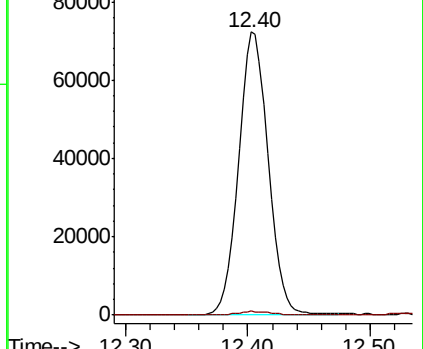
75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC



#81

trans-1,4-Dichloro-2-butene

Concen: 77.206 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

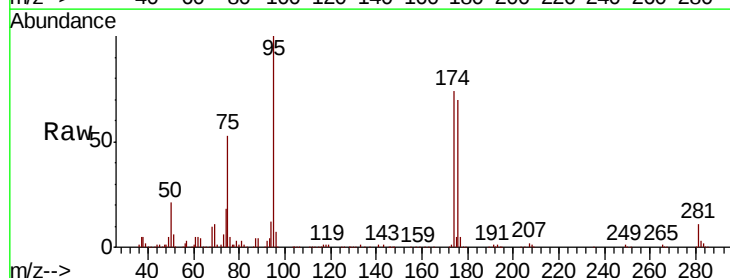
Tgt Ion: 75 Resp: 119881

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

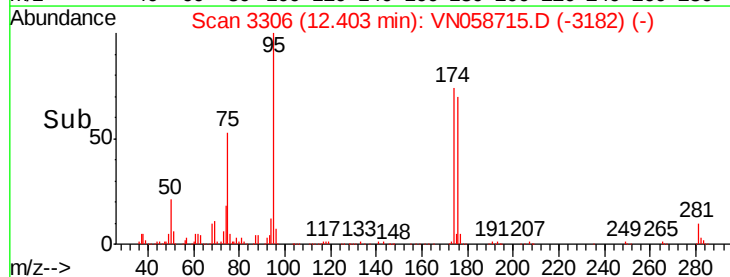
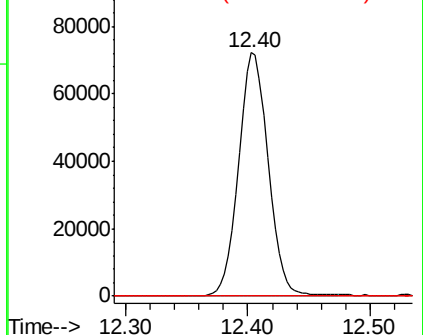
89 0.1 34.9 52.3#

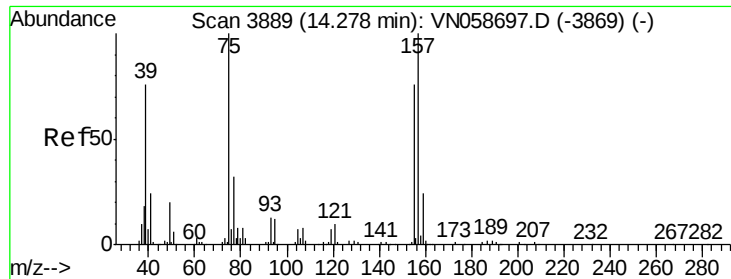


Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 53.00 (52.70 to 53.70): VNC

Ion 88.90 (88.60 to 89.60): VNC





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.414 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. -0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

Instrument :

MSVOA_N

ClientSampleId :

FA19-USMW025

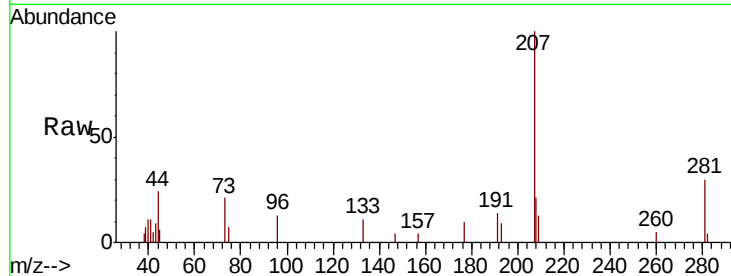
Tot Ion: 75 Resp: 437

Ion Ratio Lower Upper

75 100

155 0.0 37.9 113.6#

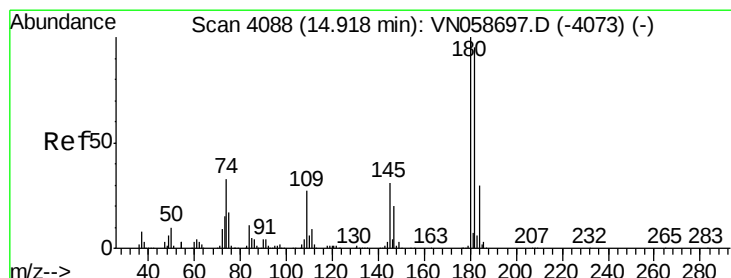
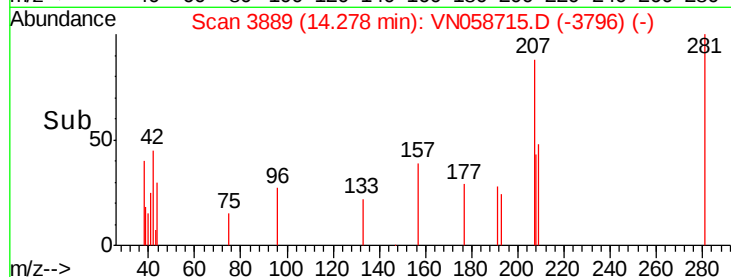
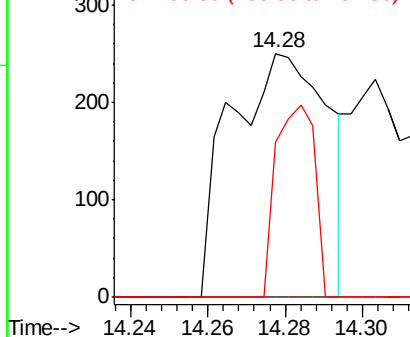
157 31.6 49.4 148.2#



Abundance Ion 74.90 (74.60 to 75.60): VN058715.D (-3796) (-)

Ion 154.80 (154.50 to 155.50): VN058715.D (-3796) (-)

Ion 156.80 (156.50 to 157.50): VN058715.D (-3796) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.582 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. -0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

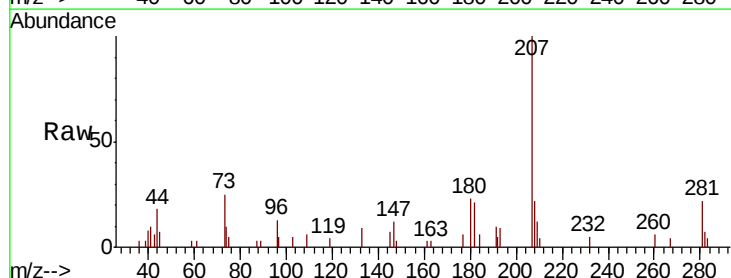
Tgt Ion: 180 Resp: 2131

Ion Ratio Lower Upper

180 100

182 84.3 47.4 142.2

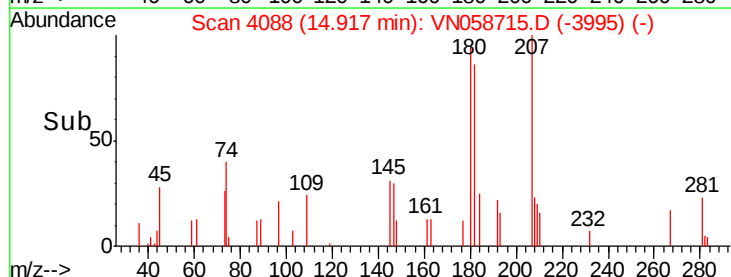
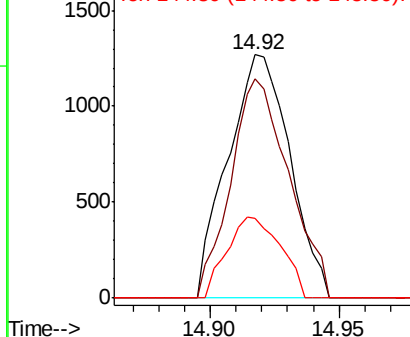
145 28.7 15.4 46.2

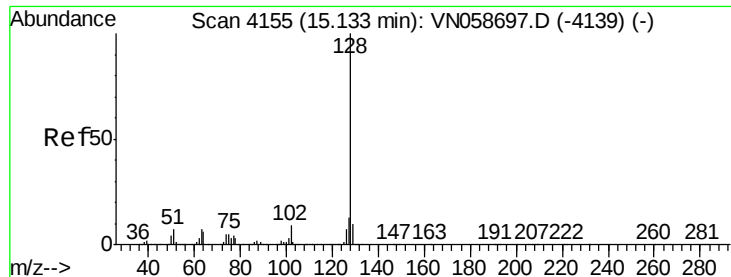


Abundance Ion 179.80 (179.50 to 180.50): VN058715.D (-3995) (-)

Ion 181.80 (181.50 to 182.50): VN058715.D (-3995) (-)

Ion 144.80 (144.50 to 145.50): VN058715.D (-3995) (-)





#95

Naphthalene

Concen: 0.723 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

Instrument :

MSVOA_N

ClientSampleId :

FA19-USMW025

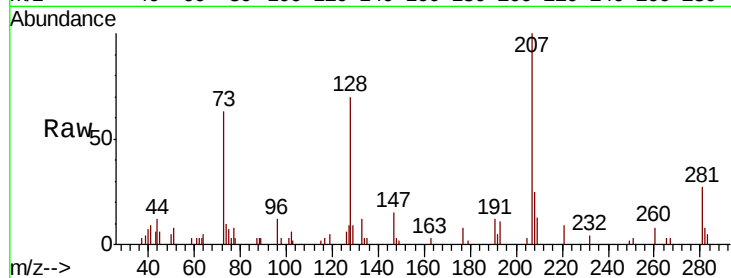
Tot Ion:128 Resp: 7609

Ion Ratio Lower Upper

128 100

127 15.1 10.2 15.4

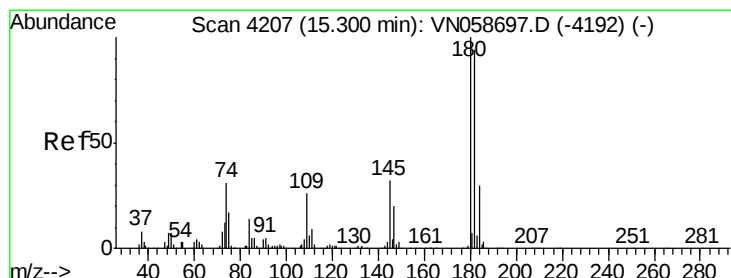
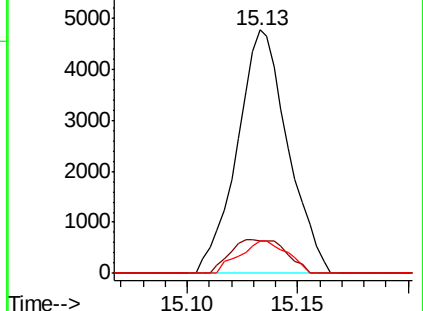
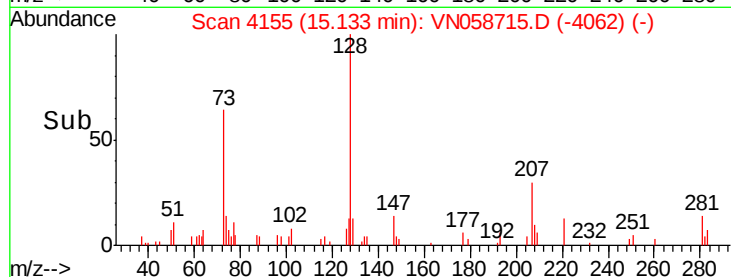
129 12.4 8.5 12.7



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: 0.760 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. -0.00 min

Lab File: VN058715.D

Acq: 11 Oct 2019 20:24

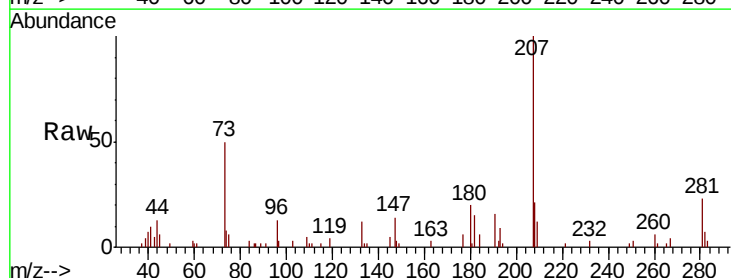
Tgt Ion:180 Resp: 2716

Ion Ratio Lower Upper

180 100

182 69.9 47.3 142.0

145 28.1 16.2 48.6



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

