

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058701.D
 Acq On : 11 Oct 2019 14:23
 Operator : JC/SP
 Sample : VN1013WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 12 00:07:26 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	7.64	168	429253	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	672324	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	585417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	238920	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	298815	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
35) Dibromofluoromethane	7.57	113	214655	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	
50) Toluene-d8	10.08	98	846452	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	
62) 4-Bromofluorobenzene	12.40	95	281311	44.75	ug/l	0.00
Spiked Amount			Recovery	=	89.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.58	56	680	0.869	ug/l #	14
16) Acetone	3.80	43	1773	0.713	ug/l	98
17) Carbon Disulfide	4.03	76	4943	0.375	ug/l #	90
20) Methylene Chloride	4.52	84	1049	0.202	ug/l #	68
25) 2-Butanone	6.80	43	959	0.267	ug/l #	50
26) 2,2-Dichloropropane	6.81	77	1799	0.214	ug/l #	55
31) Cyclohexane	7.64	56	10056	1.141	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	35128	5.168	ug/l #	51
38) Carbon Tetrachloride	7.64	117	42826	6.464	ug/l #	16
49) 1,4-Dioxane	9.20	88	291	3.543	ug/l #	34
51) 4-Methyl-2-Pentanone	9.98	43	1919	0.292	ug/l #	72
59) 2-Hexanone	10.75	43	2722	0.536	ug/l	73
71) Bromoform	12.40	173	1641	0.509	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	151569	28.918	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	151569	77.462	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.28	75	652	0.490	ug/l #	29
93) 1,2,4-Trichlorobenzene	14.92	180	2605	0.565	ug/l	96
94) Hexachlorobutadiene	15.02	225	857	0.353	ug/l	97
95) Naphthalene	15.14	128	10876	0.820	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	3740	0.830	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN058701.D

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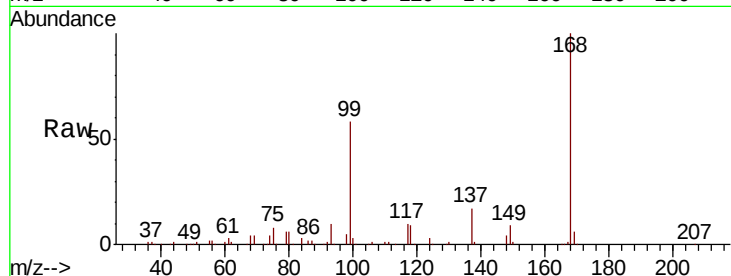
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 429253

Ion Ratio Lower Upper

168 100

99 57.8 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VN058697.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058697.D (-1808) (-)

7.64

200000

150000

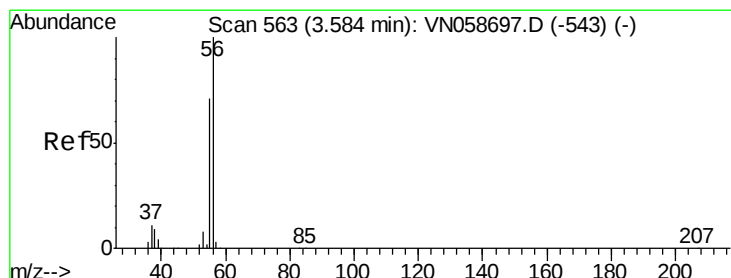
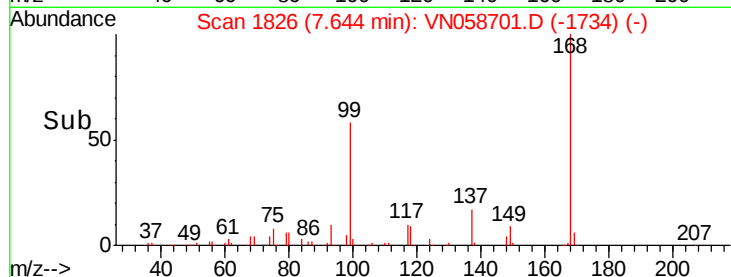
100000

50000

0

7.60 7.70

Time-->



#13

Acrolein

Concen: 0.869 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN058701.D

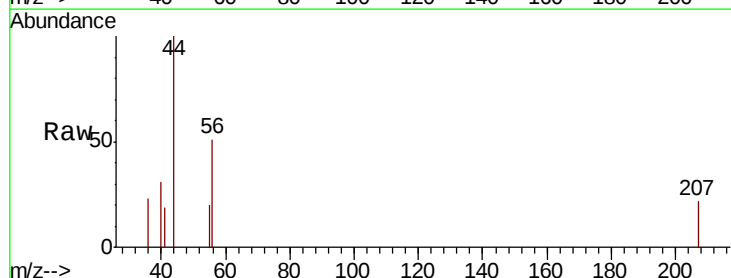
Acq: 11 Oct 2019 14:23

Tgt Ion: 56 Resp: 680

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN058697.D (-543) (-)

Ion 55.00 (54.70 to 55.70): VN058697.D (-543) (-)

3.58

500

400

300

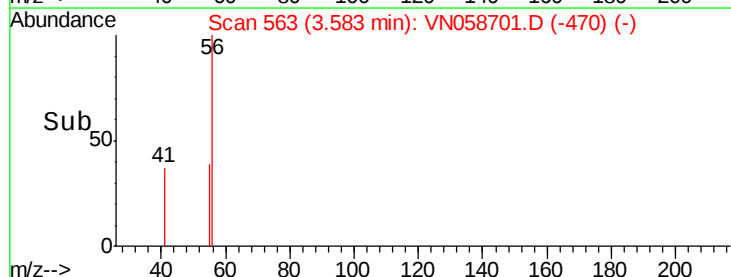
200

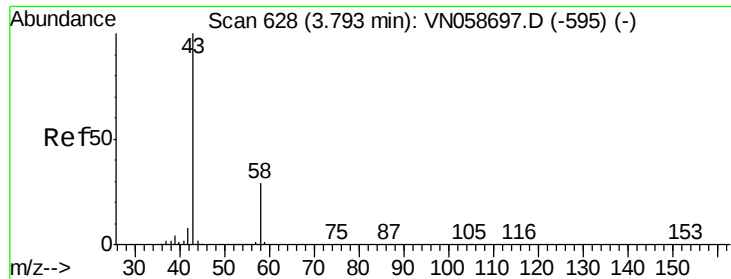
100

0

3.54 3.56 3.58 3.60

Time-->





#16

Acetone

Concen: 0.713 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

Instrument :

MSVOA_N

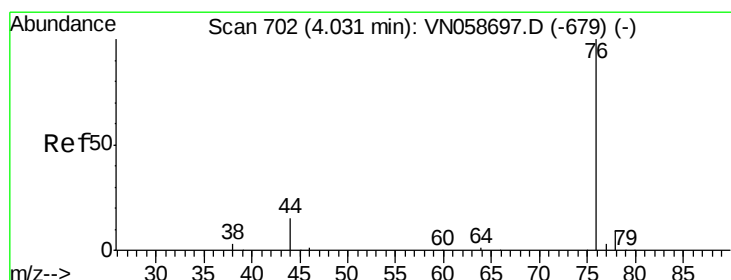
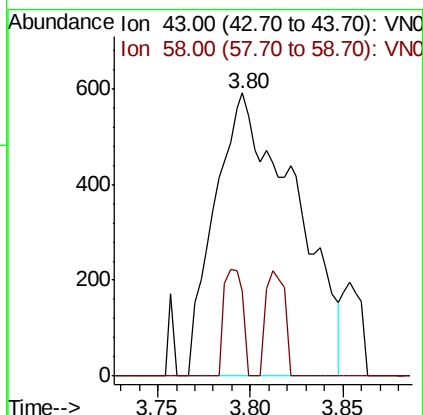
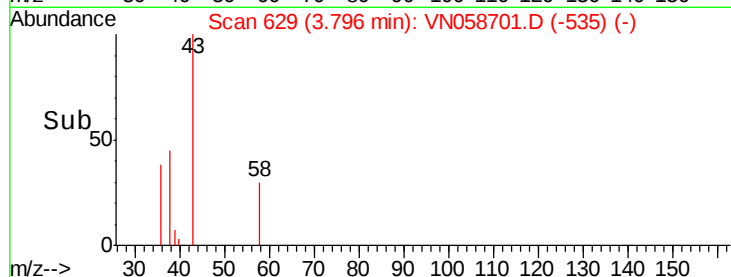
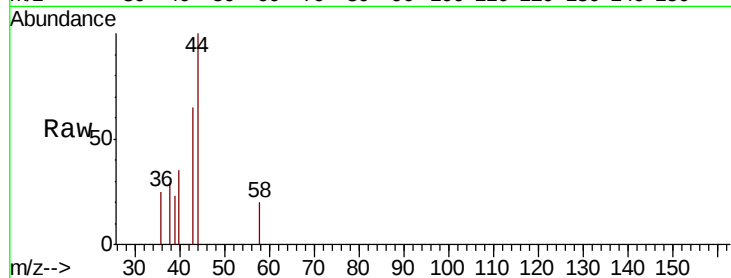
ClientSampleId :

Tot Ion: 43 Resp: 1773

Ion Ratio Lower Upper

43 100

58 29.9 23.3 34.9



#17

Carbon Disulfide

Concen: 0.375 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058701.D

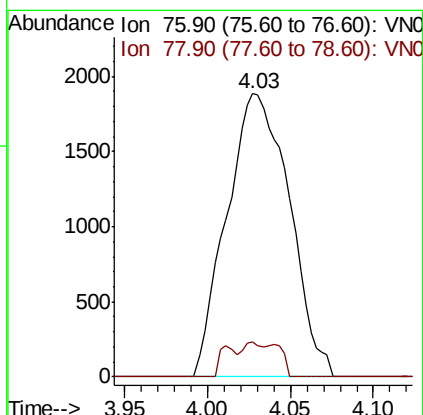
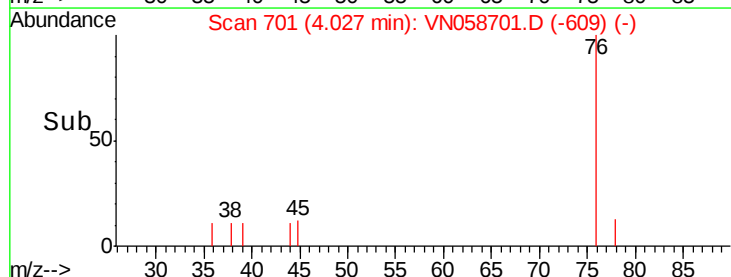
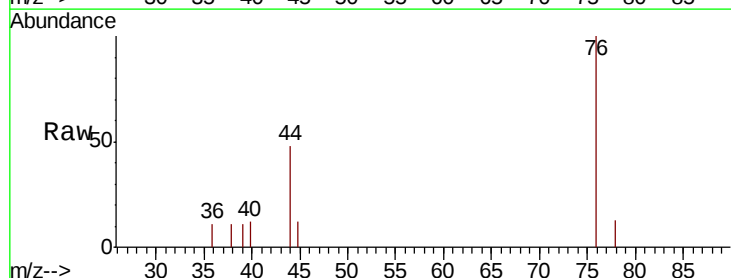
Acq: 11 Oct 2019 14:23

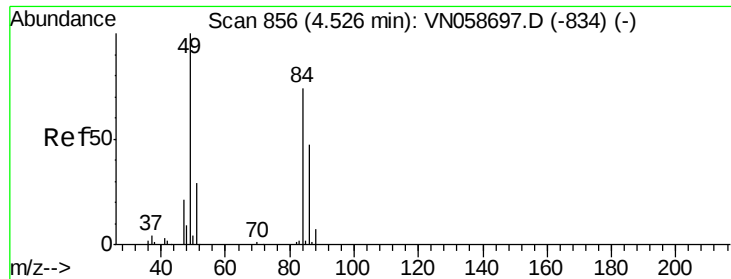
Tgt Ion: 76 Resp: 4943

Ion Ratio Lower Upper

76 100

78 12.6 7.1 10.7#

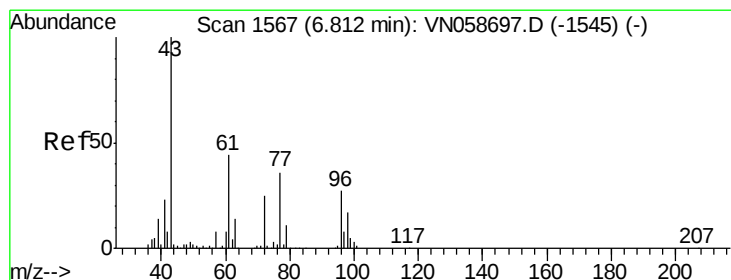
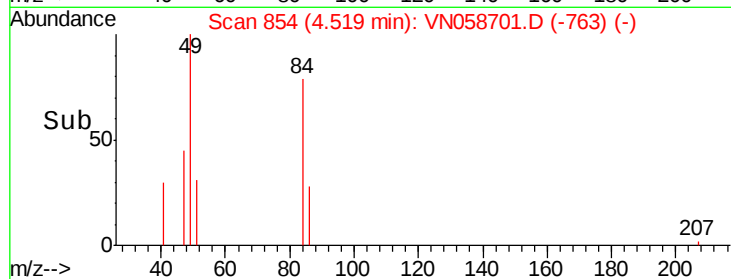
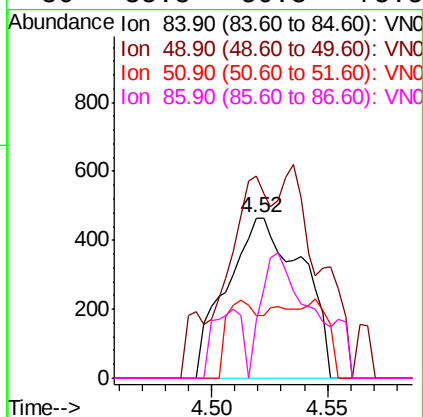
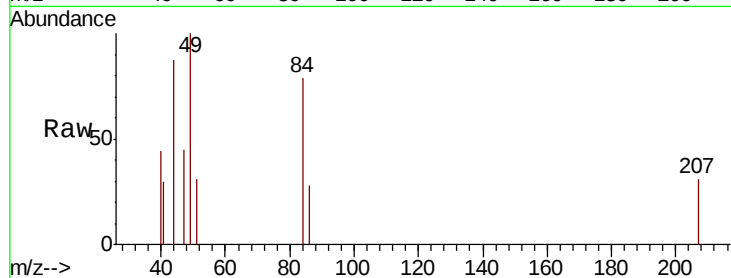




#20
Methvlene Chloride
Concen: 0.202 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.01 min
Lab File: VN058701.D
Acq: 11 Oct 2019 14:23

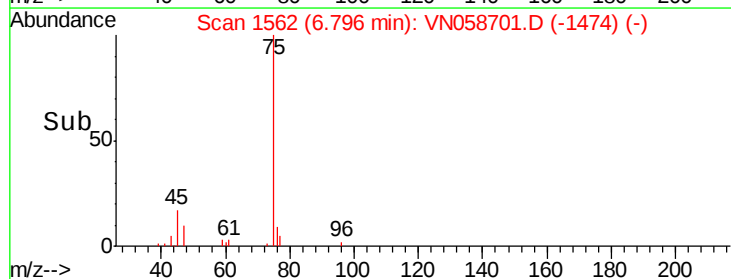
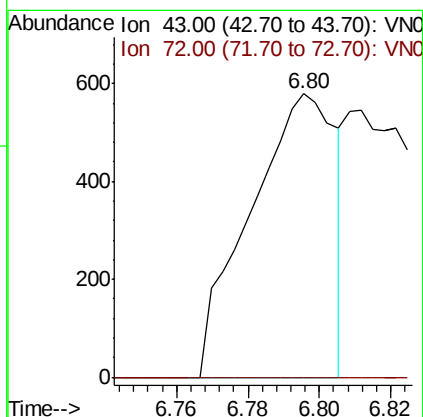
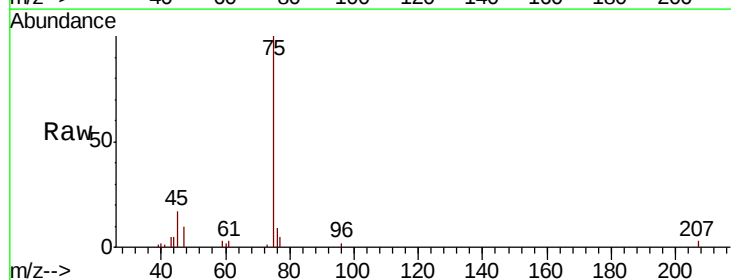
Instrument :
MSVOA_N
ClientSampleId :

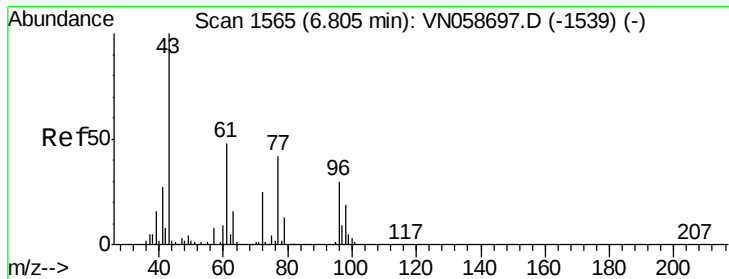
Tot Ion: 84 Resp: 1049
Ion Ratio Lower Upper
84 100
49 86.7 107.6 161.4#
51 38.6 31.4 47.0
86 35.8 50.3 75.5#



#25
2-Butanone
Concen: 0.267 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.02 min
Lab File: VN058701.D
Acq: 11 Oct 2019 14:23

Tgt Ion: 43 Resp: 959
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#

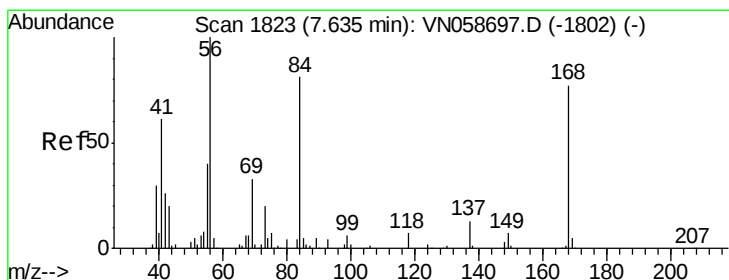
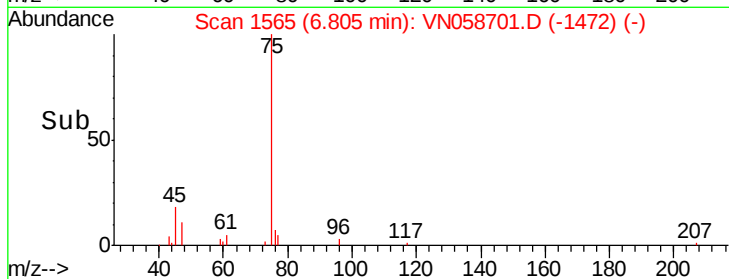
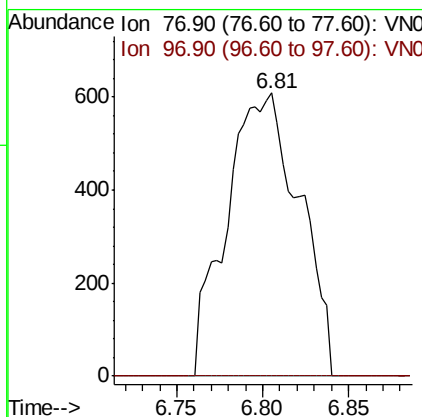
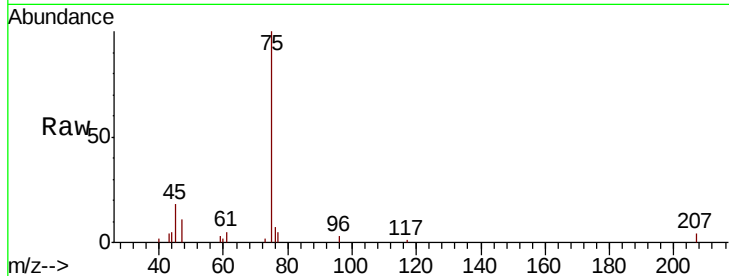




#26
 2,2-Dichloropropane
 Concen: 0.214 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VN058701.D
 Acq: 11 Oct 2019 14:23

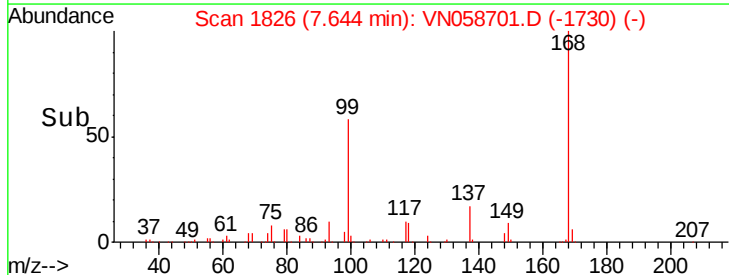
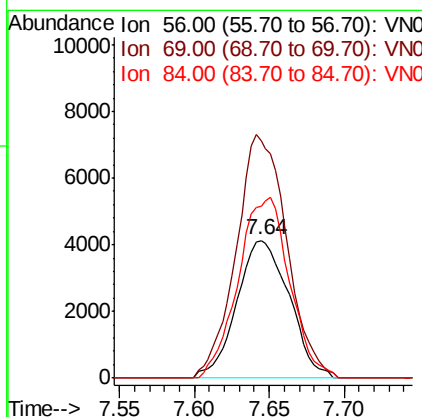
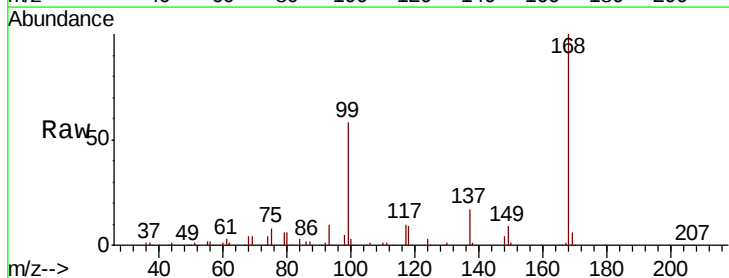
Instrument :
 MSVOA_N
 ClientSampleId :

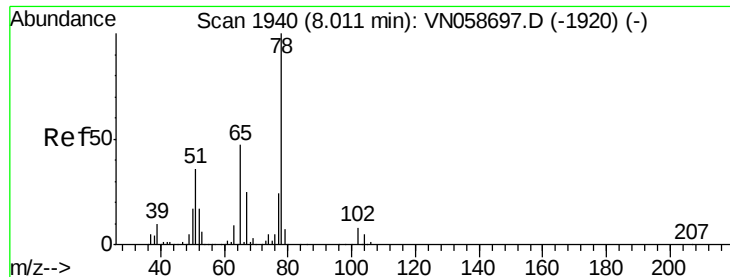
Tot Ion: 77 Resp: 1799
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.7 31.9#



#31
 Cyclohexane
 Concen: 1.141 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. 0.01 min
 Lab File: VN058701.D
 Acq: 11 Oct 2019 14:23

Tgt Ion: 56 Resp: 10056
 Ion Ratio Lower Upper
 56 100
 69 171.6 26.2 39.4#
 84 124.5 64.9 97.3#

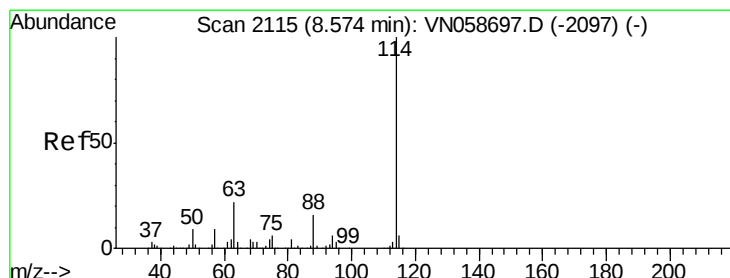
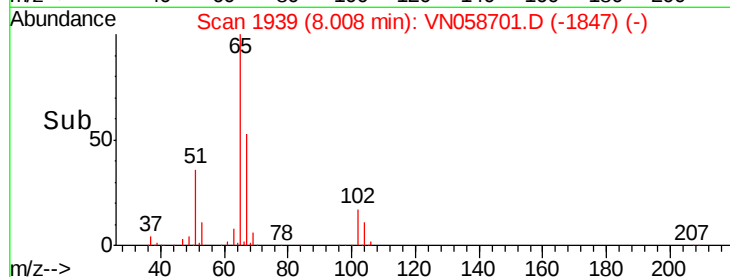
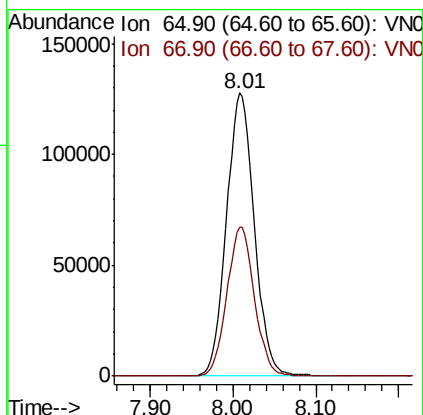
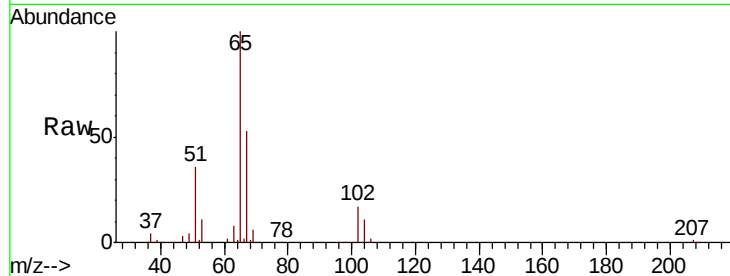




#33
 1,2-Dichloroethane-d4
 Concen: 49.724 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN058701.D
 Acq: 11 Oct 2019 14:23

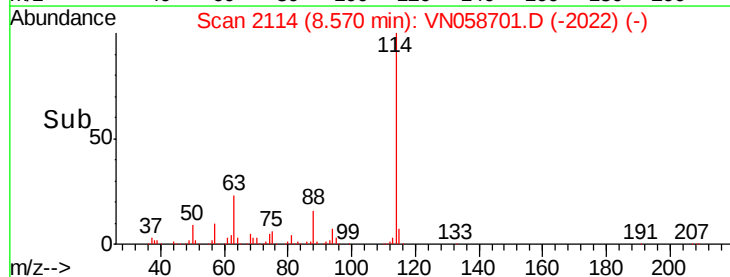
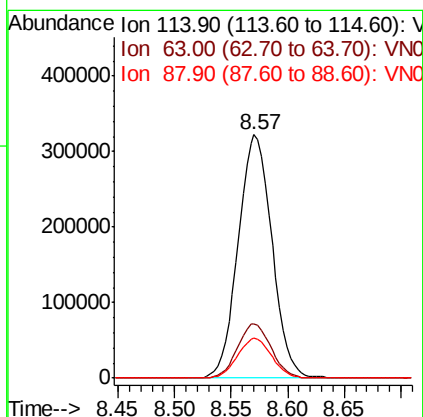
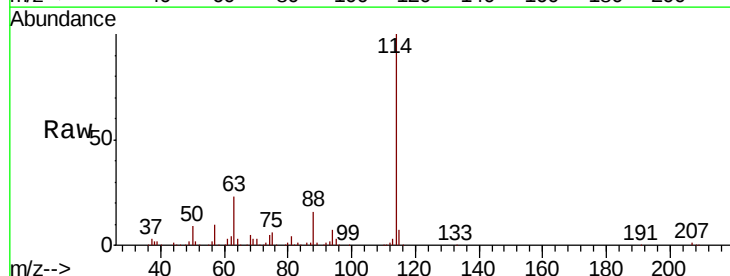
Instrument :
 MSVOA_N
 ClientSampled :

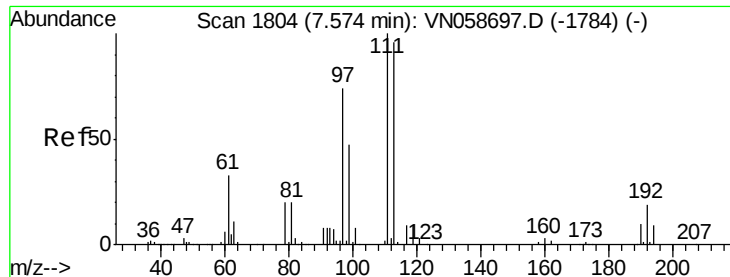
Tot Ion: 65 Resp: 298815
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058701.D
 Acq: 11 Oct 2019 14:23

Tgt Ion: 114 Resp: 672324
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 43.8
 88 16.3 0.0 32.0

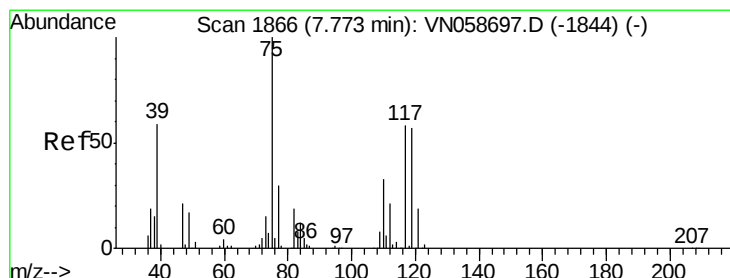
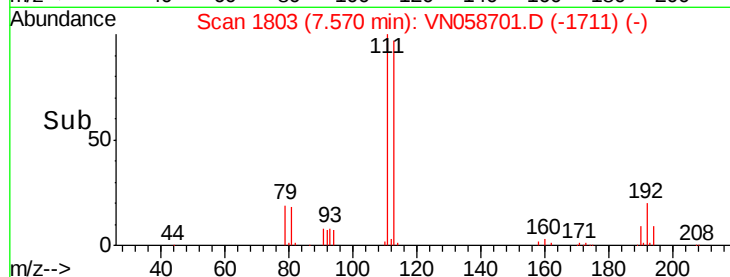
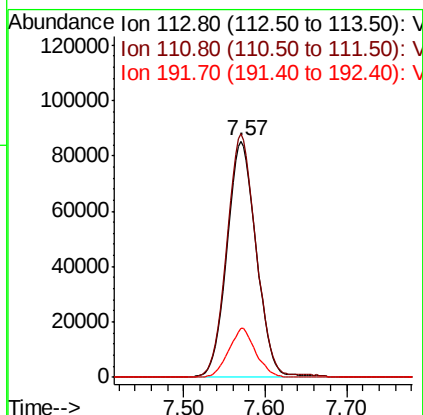
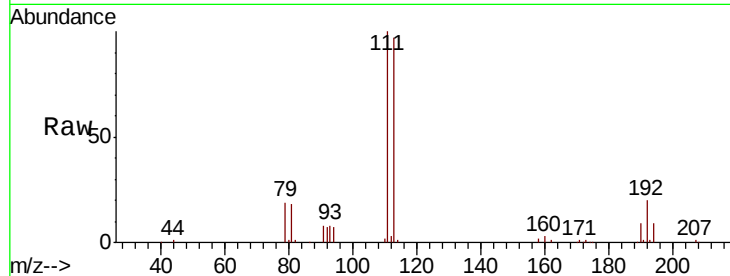




#35
 Dibromofluoromethane
 Concen: 51.689 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN058701.D
 Acq: 11 Oct 2019 14:23

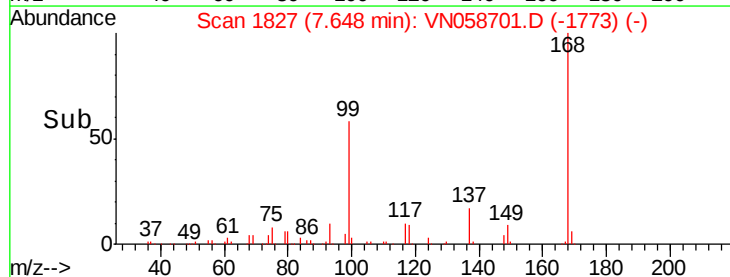
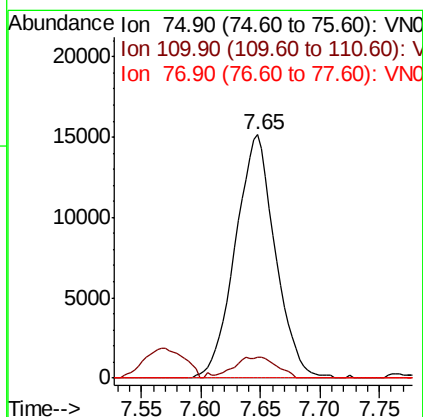
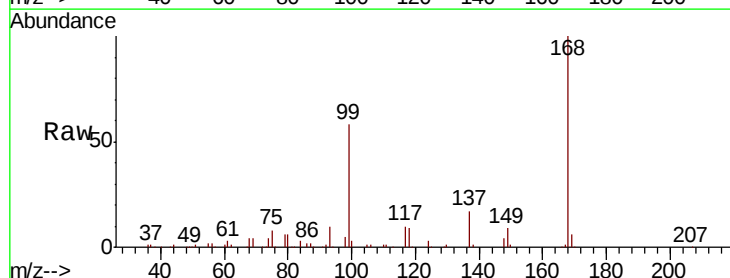
Instrument :
 MSVOA_N
 ClientSampleId :

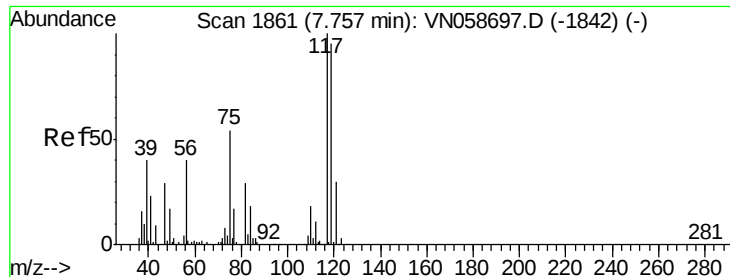
Tot Ion:113 Resp: 214655
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.3 123.5
 192 19.2 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 5.168 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058701.D
 Acq: 11 Oct 2019 14:23

Tgt Ion: 75 Resp: 35128
 Ion Ratio Lower Upper
 75 100
 110 9.4 16.6 49.8#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.464 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

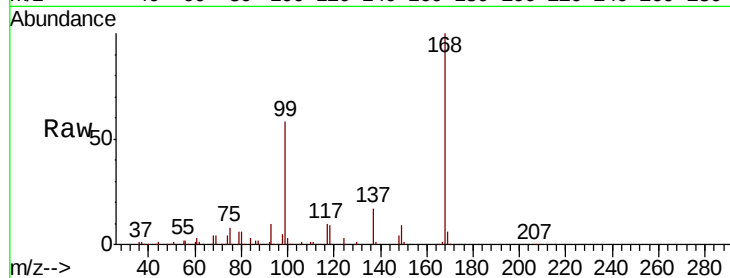
Tot Ion:117 Resp: 42826

Ion Ratio Lower Upper

117 100

119 4.2 75.7 113.5#

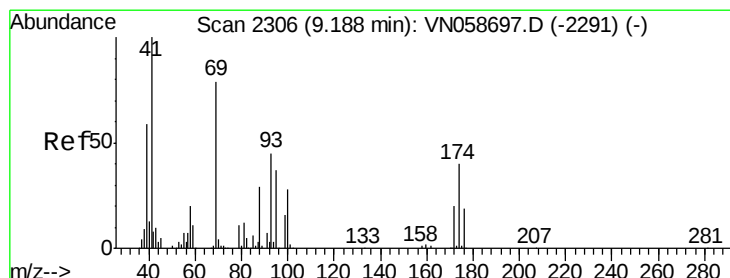
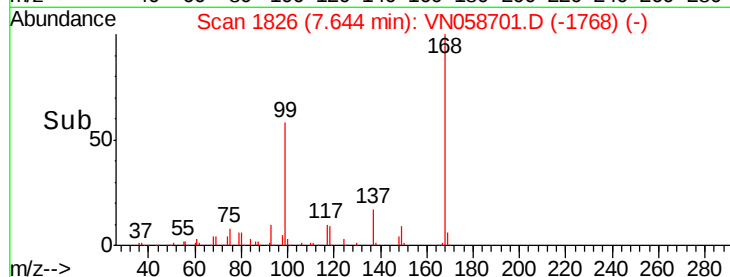
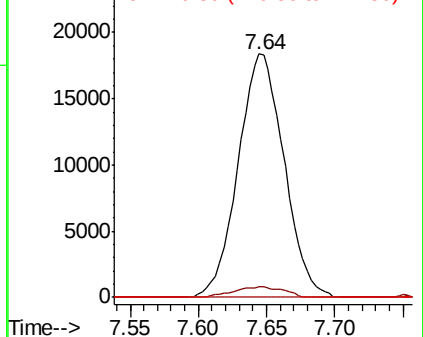
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 3.543 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.01 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

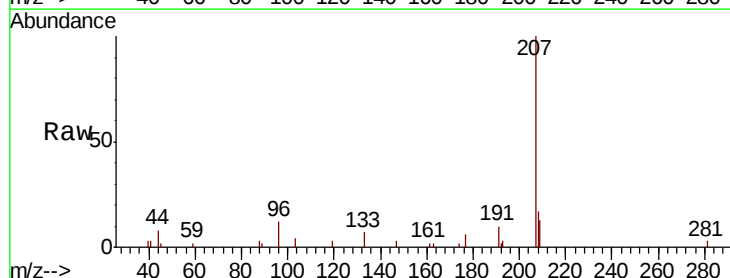
Tgt Ion: 88 Resp: 291

Ion Ratio Lower Upper

88 100

43 20.6 28.6 43.0#

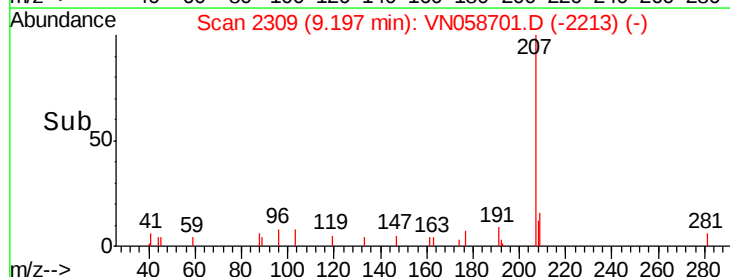
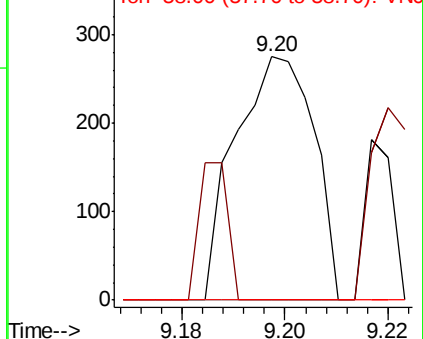
58 0.0 57.2 85.8#

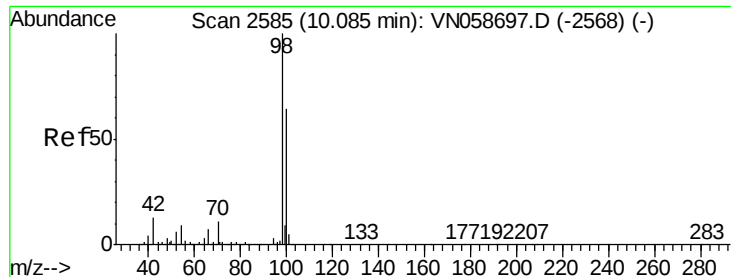


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 50.971 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

Instrument :

MSVOA_N

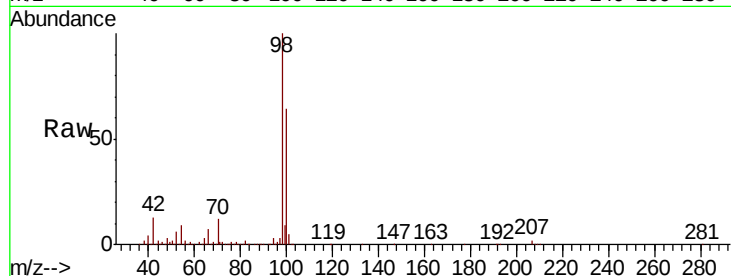
ClientSampleId :

Tot Ion: 98 Resp: 846452

Ion Ratio Lower Upper

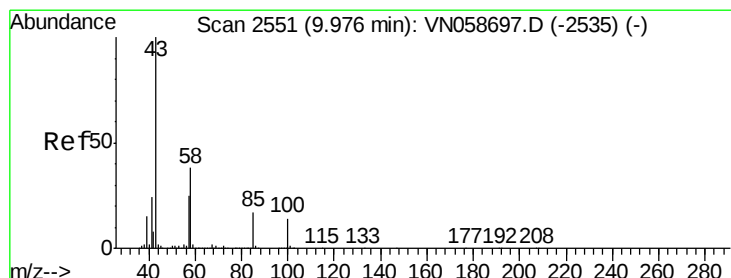
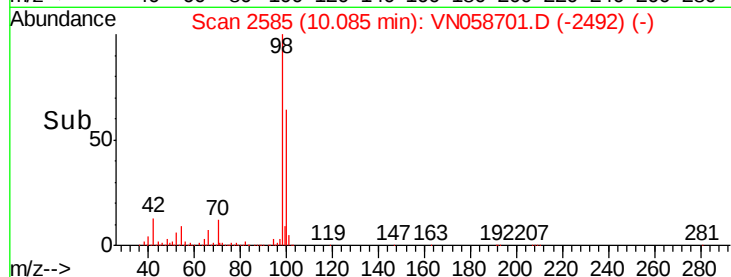
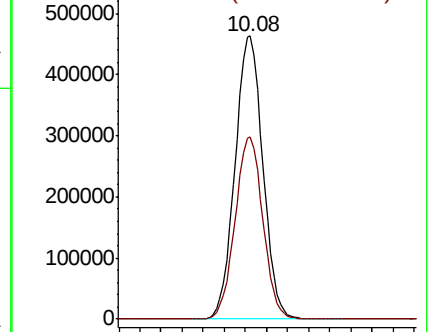
98 100

100 64.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.292 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058701.D

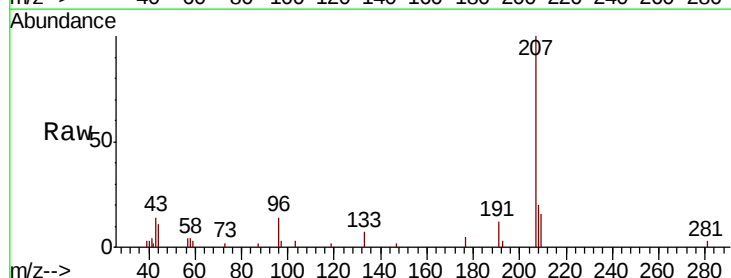
Acq: 11 Oct 2019 14:23

Tgt Ion: 43 Resp: 1919

Ion Ratio Lower Upper

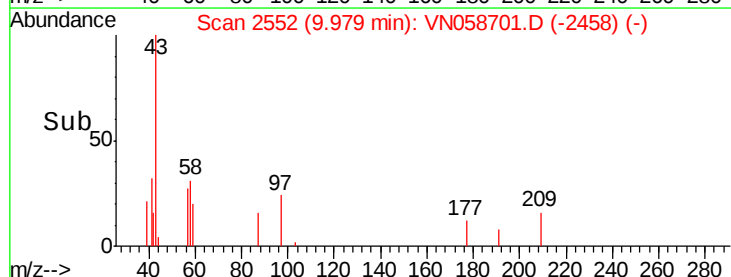
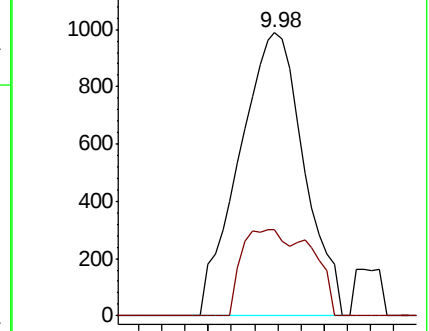
43 100

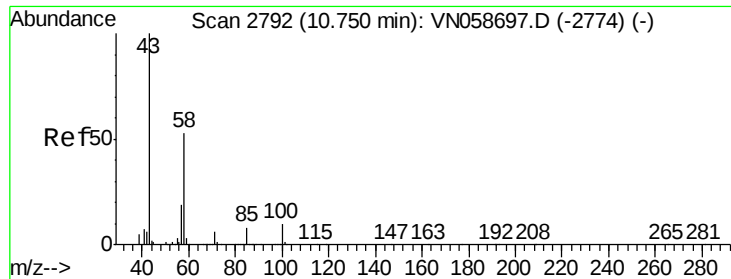
58 21.3 30.3 45.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

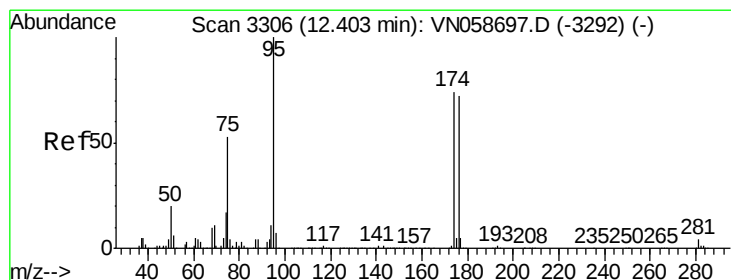
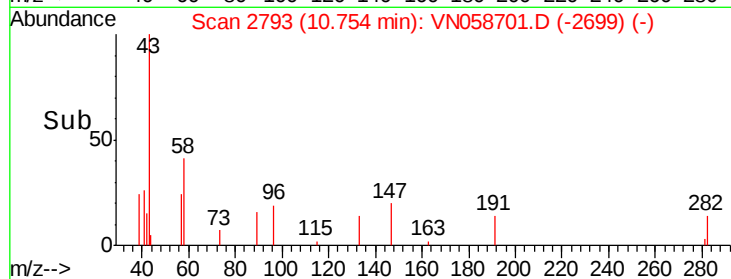
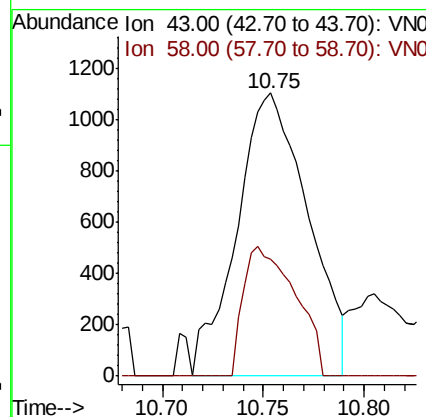
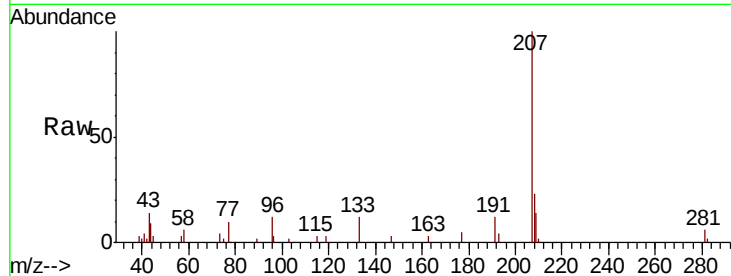




#59
2-Hexanone
Concen: 0.536 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN058701.D
Acq: 11 Oct 2019 14:23

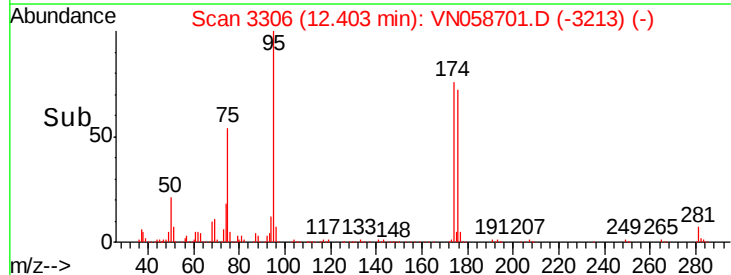
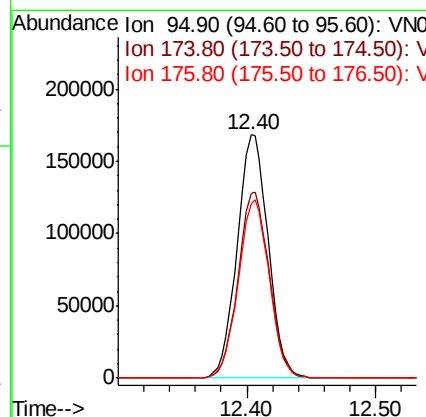
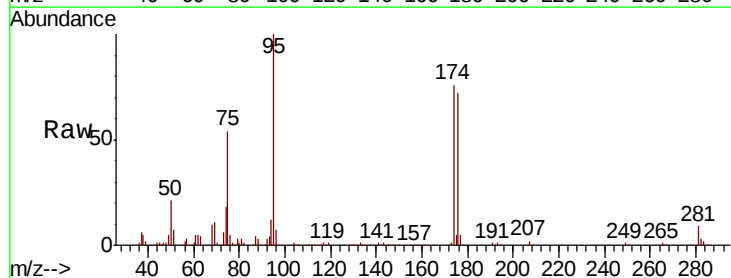
Instrument :
MSVOA_N
ClientSampled :

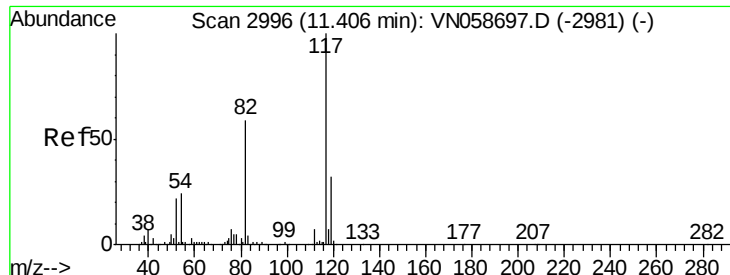
Tot Ion: 43 Resp: 2722
Ion Ratio Lower Upper
43 100
58 33.3 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 44.752 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058701.D
Acq: 11 Oct 2019 14:23

Tgt Ion: 95 Resp: 281311
Ion Ratio Lower Upper
95 100
174 76.6 0.0 150.4
176 73.5 0.0 146.8

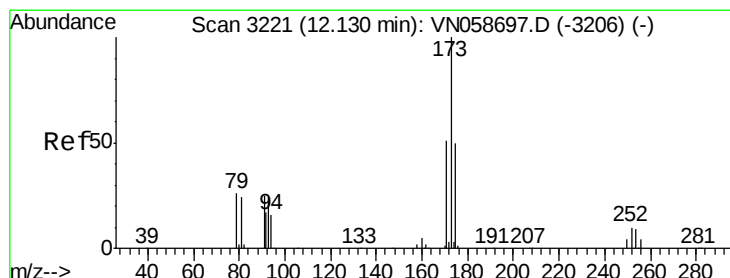
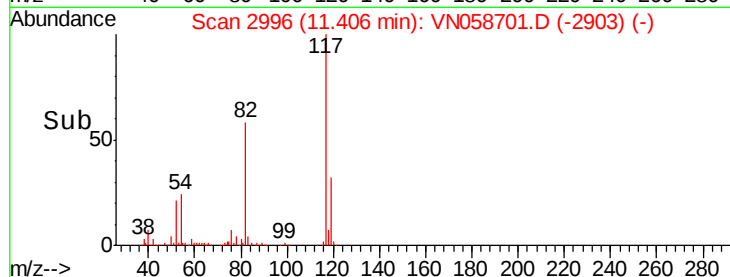
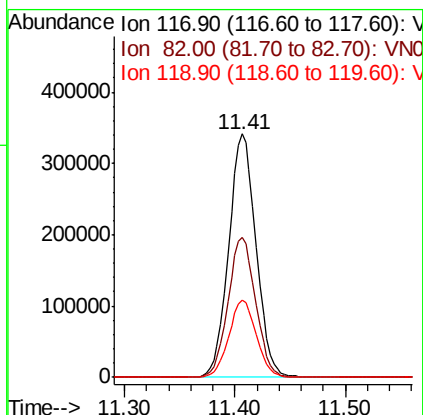
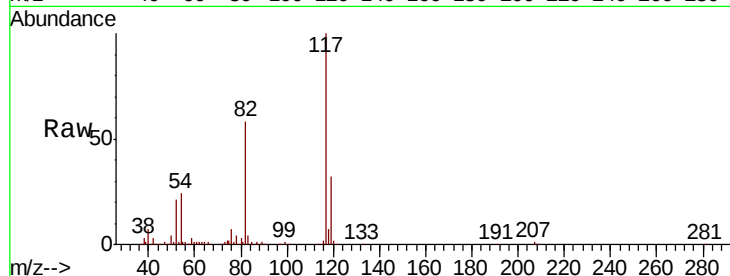




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058701.D
Acq: 11 Oct 2019 14:23

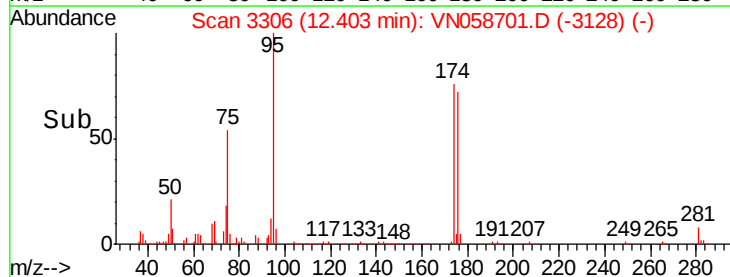
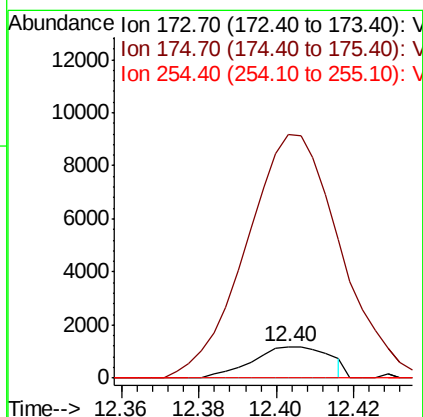
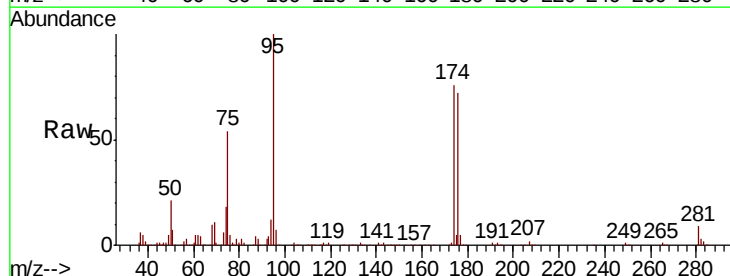
Instrument :
MSVOA_N
ClientSampleId :

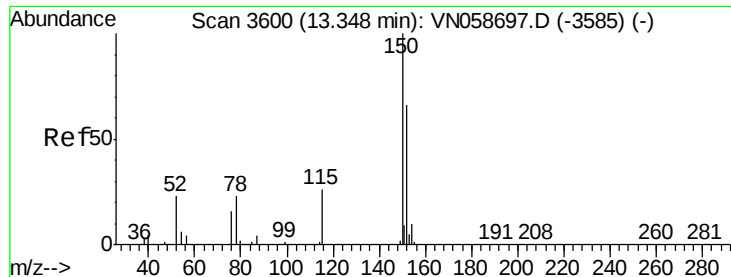
Tot Ion:117 Resp: 585417
Ion Ratio Lower Upper
117 100
82 57.7 47.0 70.4
119 31.7 25.4 38.2



#71
Bromoform
Concen: 0.509 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058701.D
Acq: 11 Oct 2019 14:23

Tgt Ion:173 Resp: 1641
Ion Ratio Lower Upper
173 100
175 825.7 24.6 73.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

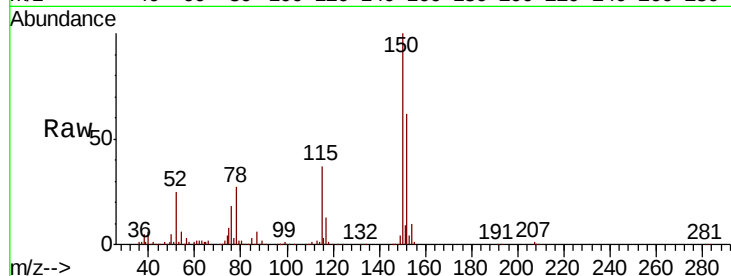
Tot Ion:152 Resp: 238920

Ion Ratio Lower Upper

152 100

115 59.9 30.4 91.2

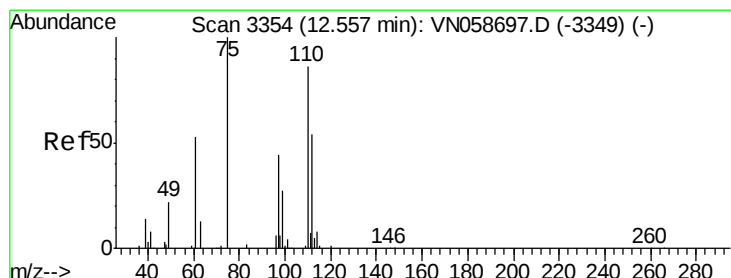
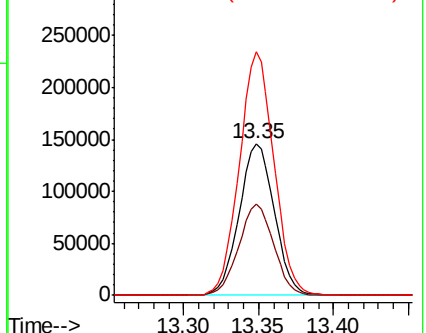
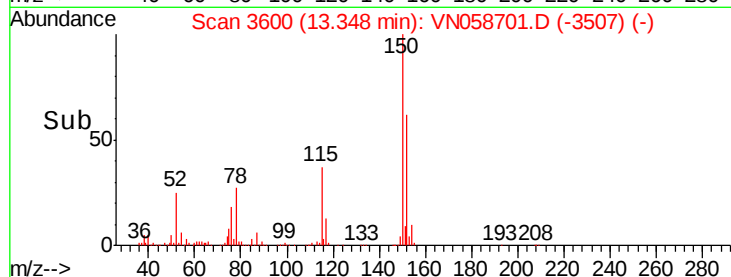
150 158.0 0.0 345.4



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: 28.918 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058701.D

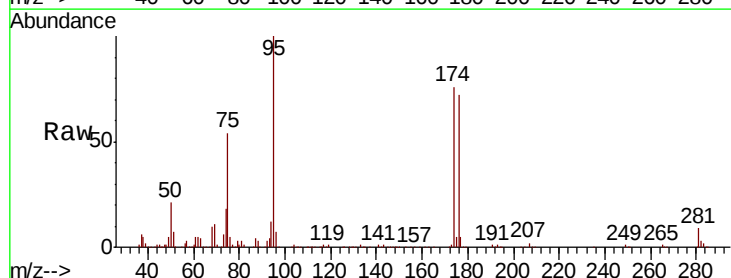
Acq: 11 Oct 2019 14:23

Tgt Ion: 75 Resp: 151569

Ion Ratio Lower Upper

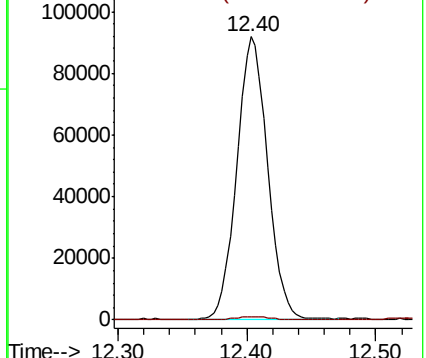
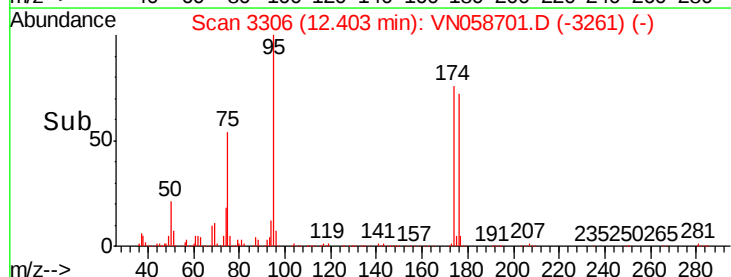
75 100

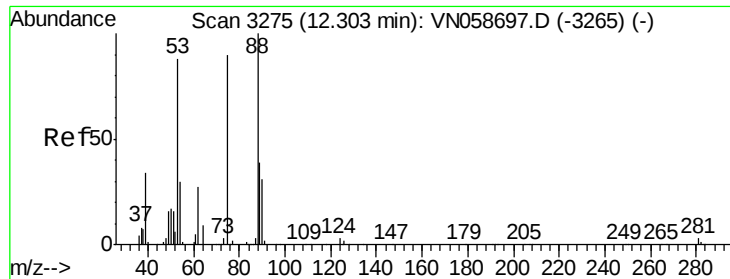
77 1.1 0.0 0.0#



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: 77.462 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

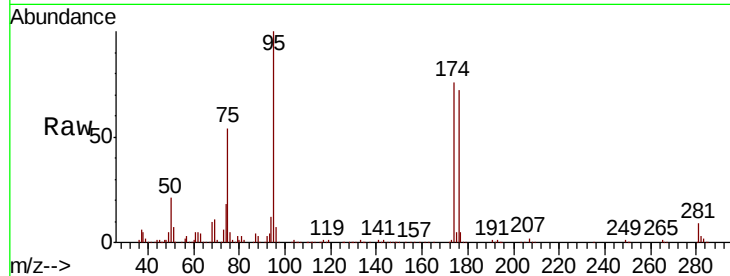
Tot Ion: 75 Resp: 151569

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

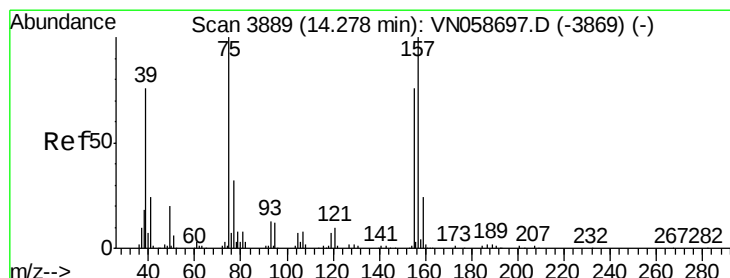
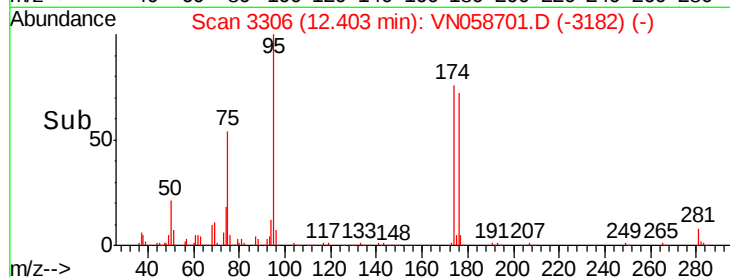
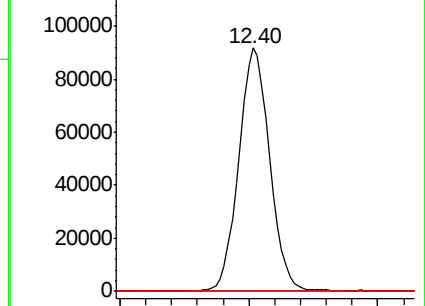
89 0.0 34.9 52.3#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.490 ug/l

RT: 14.28 min Scan# 3890

Delta R.T. 0.00 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

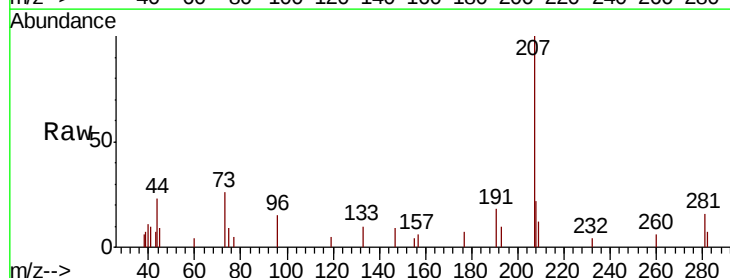
Tgt Ion: 75 Resp: 652

Ion Ratio Lower Upper

75 100

155 10.1 37.9 113.6#

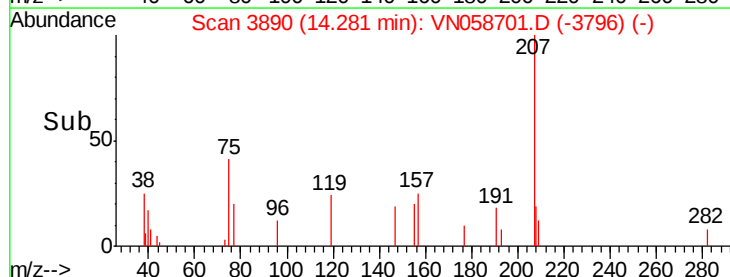
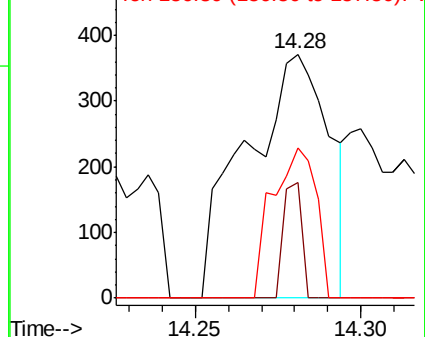
157 32.2 49.4 148.2#

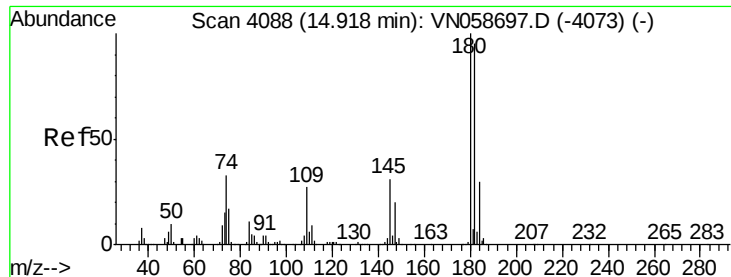


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 0.565 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.00 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

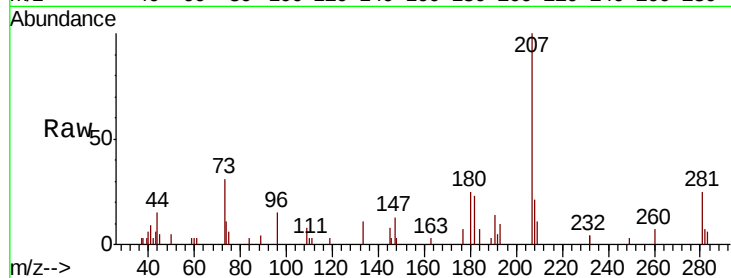
Tot Ion:180 Resp: 2605

Ion Ratio Lower Upper

180 100

182 90.2 47.4 142.2

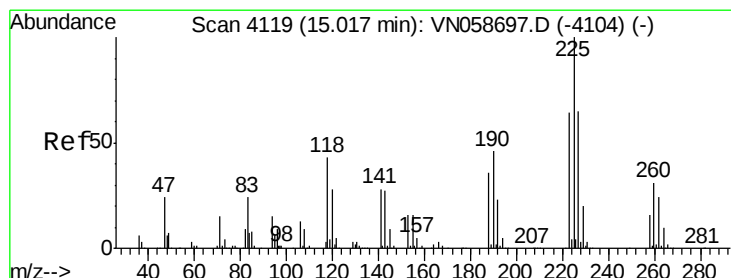
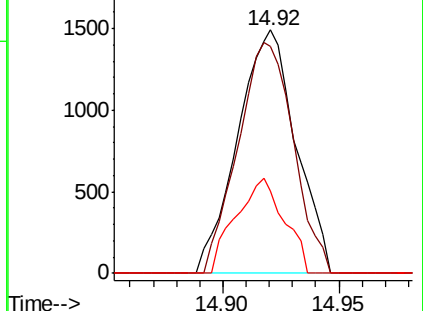
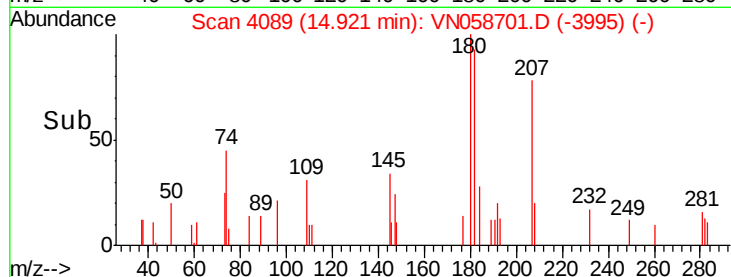
145 32.5 15.4 46.2



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: 0.353 ug/l

RT: 15.02 min Scan# 4120

Delta R.T. 0.00 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

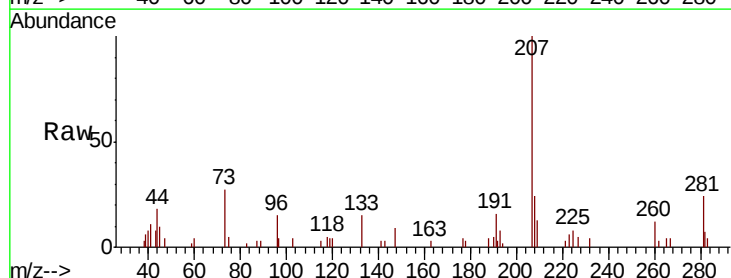
Tgt Ion:225 Resp: 857

Ion Ratio Lower Upper

225 100

223 66.0 32.3 96.8

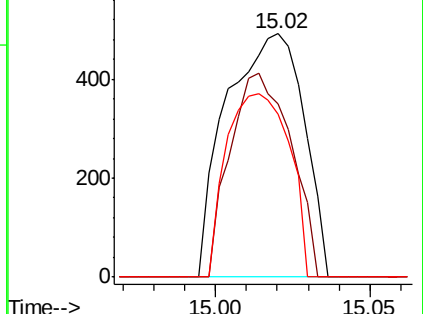
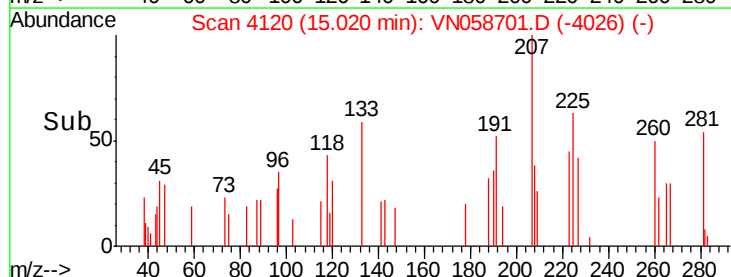
227 61.1 32.4 97.0

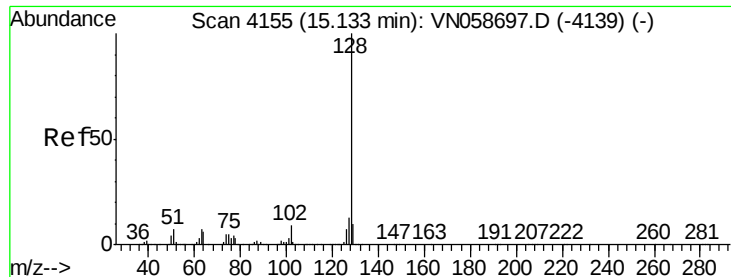


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.820 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

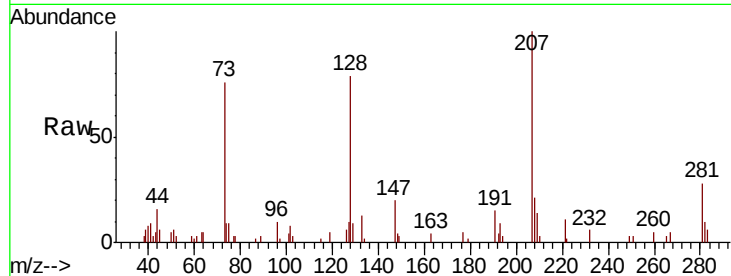
Tot Ion:128 Resp: 10876

Ion Ratio Lower Upper

128 100

127 14.1 10.2 15.4

129 9.6 8.5 12.7

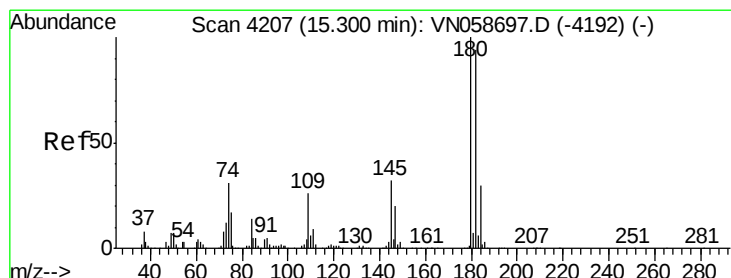
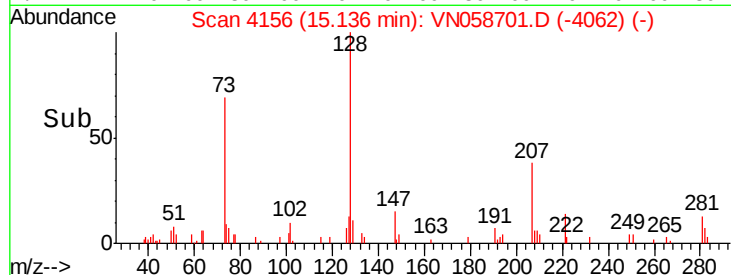
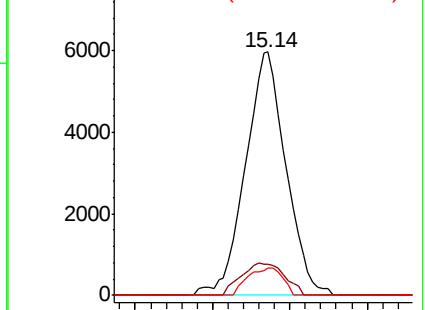


Abundance

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: 0.830 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058701.D

Acq: 11 Oct 2019 14:23

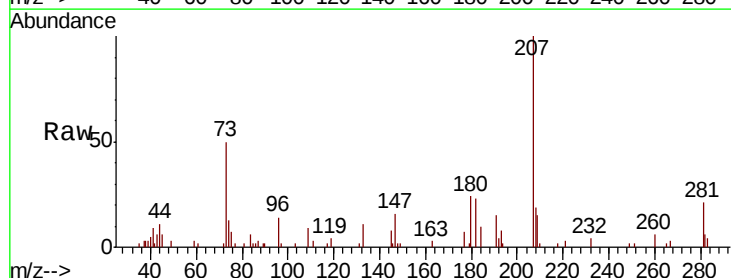
Tgt Ion:180 Resp: 3740

Ion Ratio Lower Upper

180 100

182 92.8 47.3 142.0

145 34.8 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

