

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058098.D
 Acq On : 15 Sep 2019 17:34
 Operator : JC/SP
 Sample : K4719-21
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

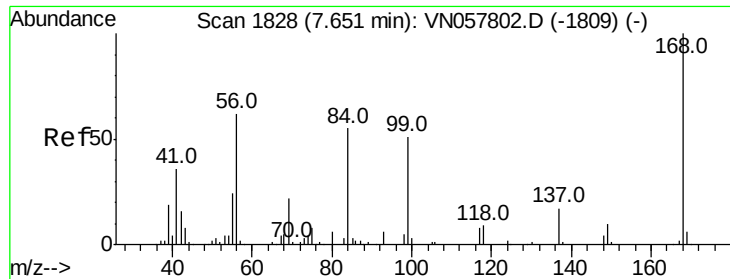
Quant Time: Sep 16 03:42:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	301654	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	518167	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	469486	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	245632	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	368199	60.26	ug/l	0.00
Spiked Amount			Recovery	=	120.52%	
35) Dibromofluoromethane	7.58	113	248973	52.06	ug/l	0.00
Spiked Amount			Recovery	=	104.12%	
50) Toluene-d8	10.08	98	951136	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
62) 4-Bromofluorobenzene	12.40	95	320731	45.33	ug/l	0.00
Spiked Amount			Recovery	=	90.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	128	Below Cal	#	2
16) Acetone	3.80	43	18062	9.018	ug/l #	83
18) Methyl Acetate	4.31	43	6166	1.155	ug/l #	84
20) Methylene Chloride	4.53	84	10444	1.546	ug/l	89
25) 2-Butanone	6.84	43	1907	0.658	ug/l #	49
29) Tetrahydrofuran	7.19	42	901	0.504	ug/l #	76
31) Cyclohexane	7.65	56	7238	Below Cal	#	22
36) 1,1-Dichloropropene	7.65	75	25495	4.243	ug/l #	50
38) Carbon Tetrachloride	7.65	117	30294	5.522	ug/l #	16
43) Isopropyl Acetate	8.16	43	108272	10.370	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	1304	0.248	ug/l #	44
48) Methyl methacrylate	9.17	41	4877	0.921	ug/l #	36
49) 1,4-Dioxane	9.27	88	30	0.335	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7231	1.170	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	41215	5.580	ug/l #	66
56) Ethyl methacrylate	10.54	69	2243	0.309	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4758	0.572	ug/l #	43
59) 2-Hexanone	10.76	43	73512	15.873	ug/l #	54
71) Bromoform	12.41	173	1894	0.713	ug/l #	1
74) N-amyl acetate	12.03	43	4173	0.503	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	173742	31.268	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	173742	110.031	ug/l #	6
95) Naphthalene	15.13	128	551	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Instrument :

MSVOA_N

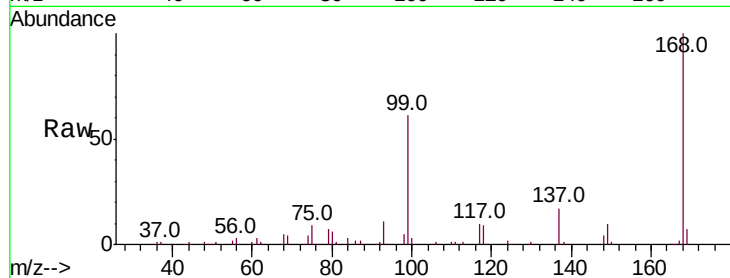
ClientSampled :

Tot Ion:168 Resp: 301654

Ion Ratio Lower Upper

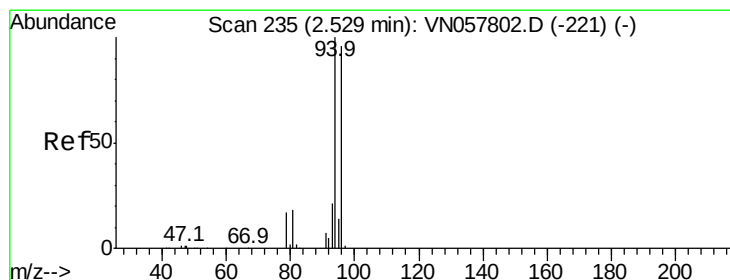
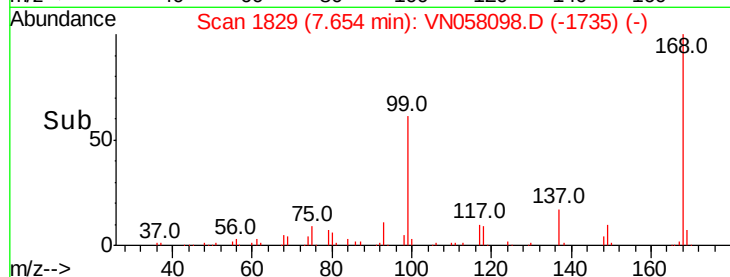
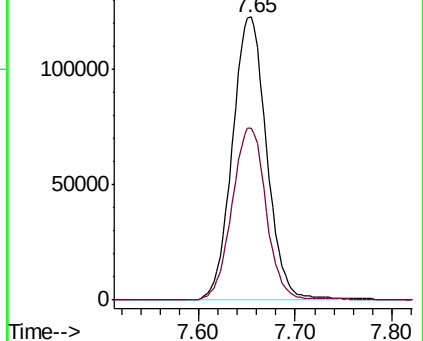
168 100

99 60.8 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 243

Delta R.T. 0.03 min

Lab File: VN058098.D

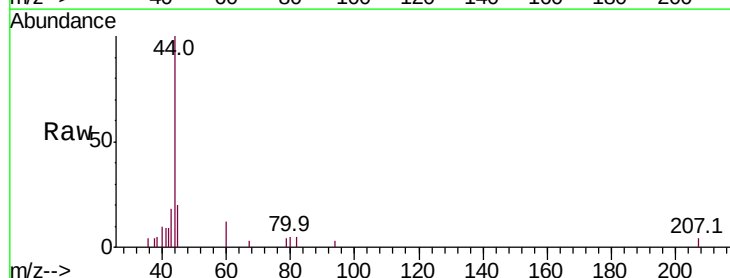
Acq: 15 Sep 2019 17:34

Tgt Ion: 94 Resp: 128

Ion Ratio Lower Upper

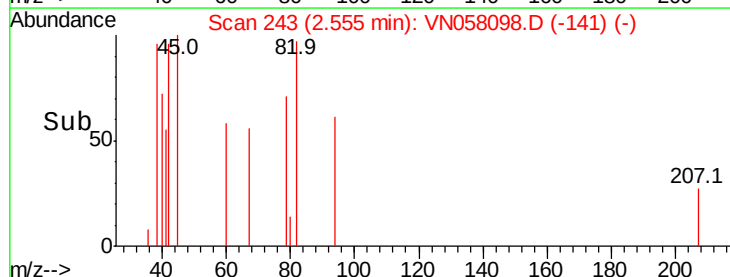
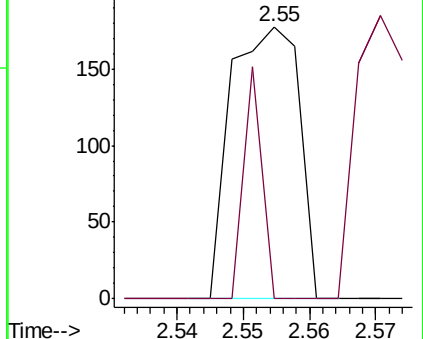
94 100

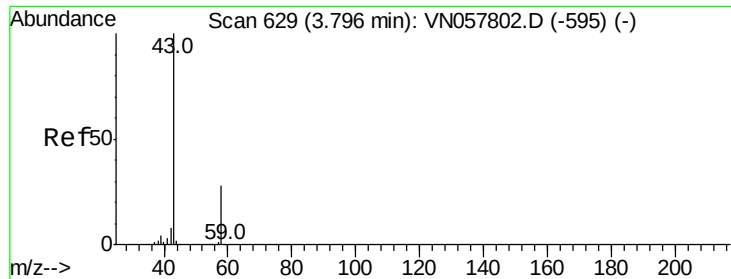
96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

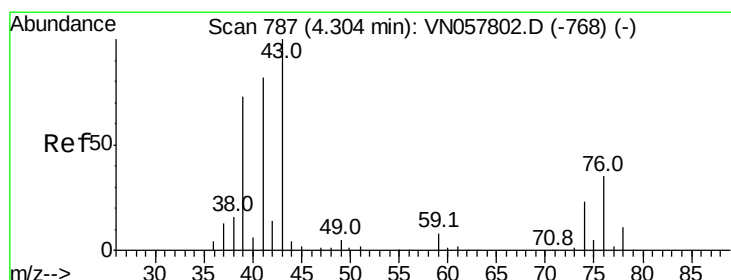
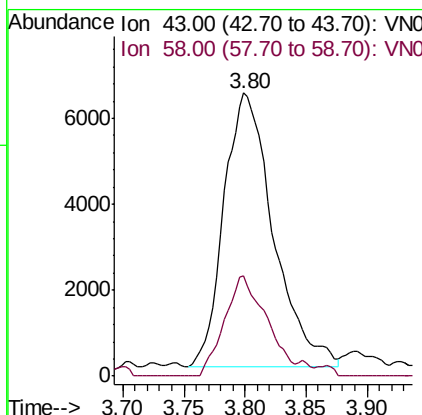
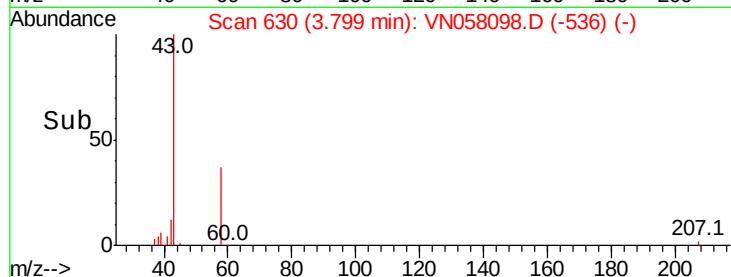
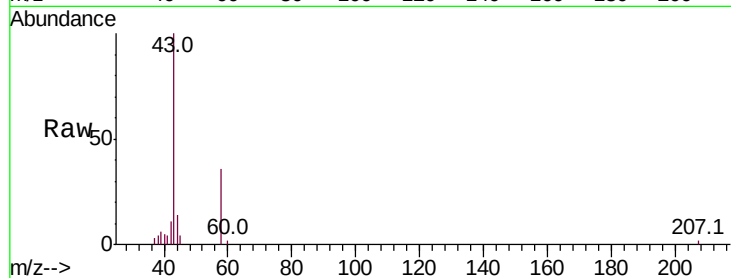




#16
Acetone
Concen: 9.018 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.00 min
Lab File: VN058098.D
Acq: 15 Sep 2019 17:34

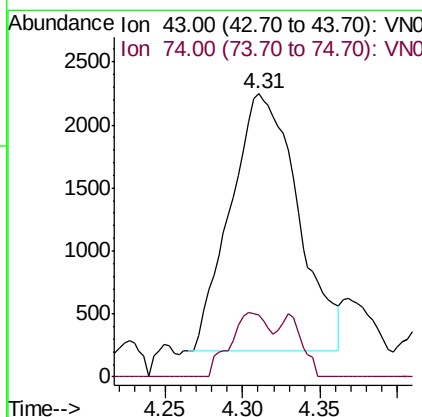
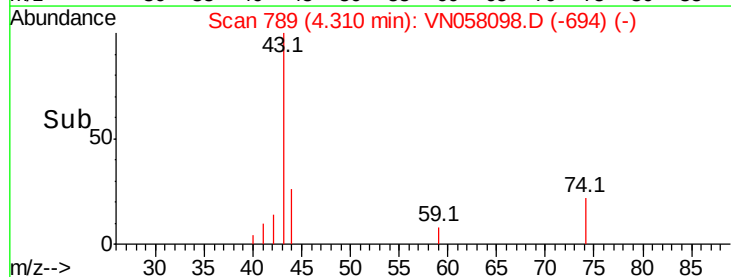
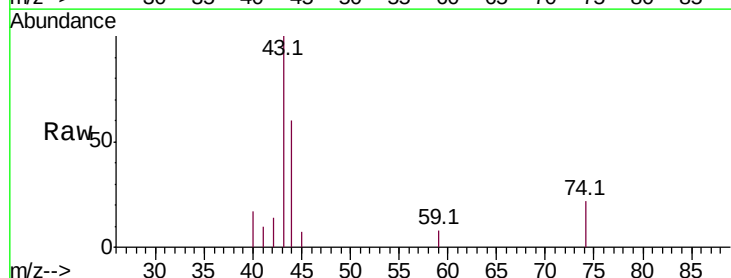
Instrument :
MSVOA_N
ClientSampled :

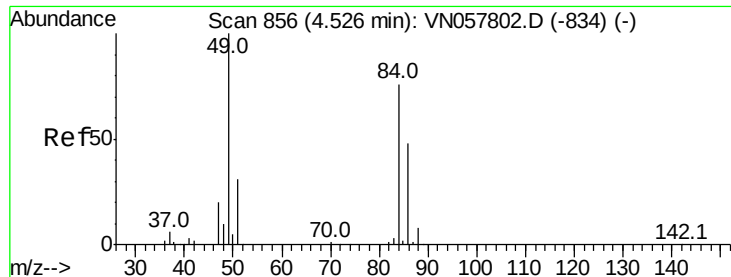
Tot Ion: 43 Resp: 18062
Ion Ratio Lower Upper
43 100
58 36.7 22.2 33.2#



#18
Methyl Acetate
Concen: 1.155 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058098.D
Acq: 15 Sep 2019 17:34

Tgt Ion: 43 Resp: 6166
Ion Ratio Lower Upper
43 100
74 14.5 17.9 26.9#





#20

Methvlene Chloride

Concen: 1.546 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 10444

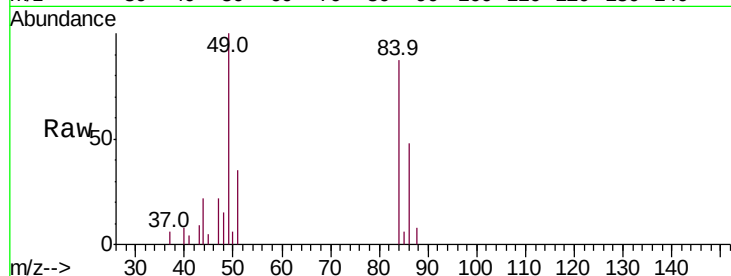
Ion Ratio Lower Upper

84 100

49 114.4 104.8 157.2

51 39.7 33.0 49.4

86 54.6 50.5 75.7



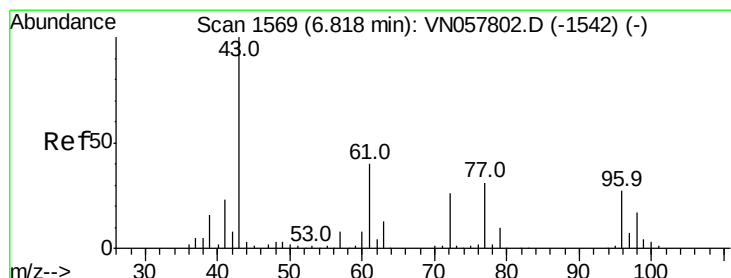
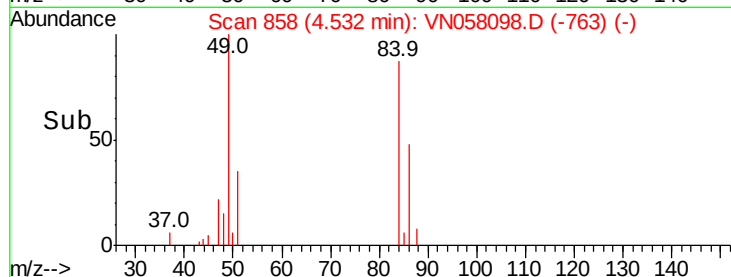
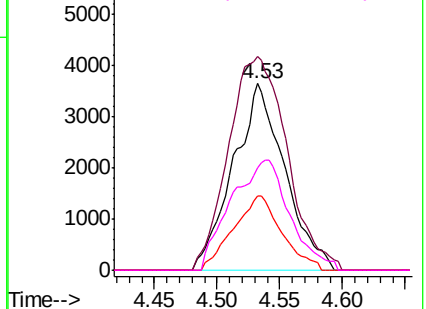
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 0.658 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.03 min

Lab File: VN058098.D

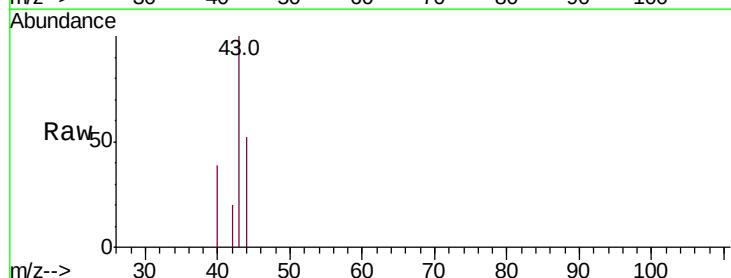
Acq: 15 Sep 2019 17:34

Tgt Ion: 43 Resp: 1907

Ion Ratio Lower Upper

43 100

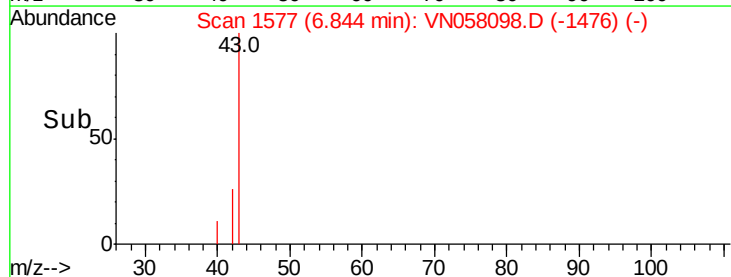
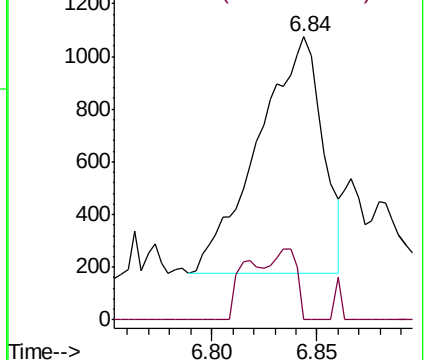
72 0.0 20.6 30.8#

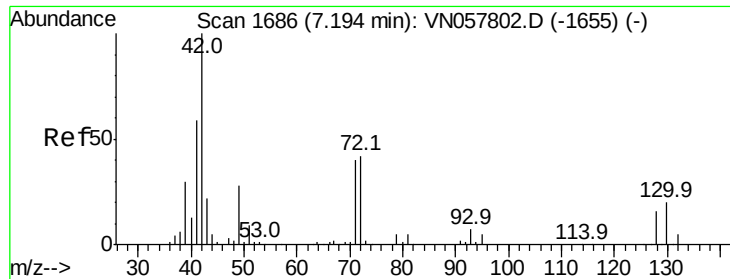


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.504 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Instrument :

MSVOA_N

ClientSampled :

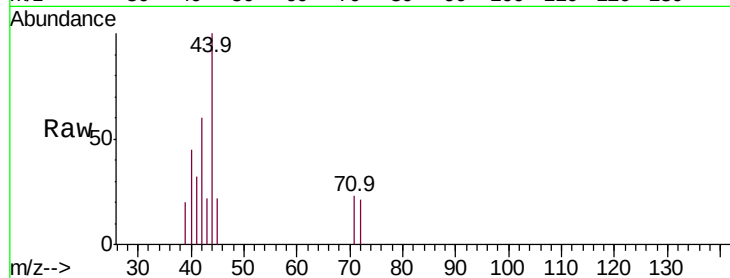
Tot Ion: 42 Resp: 901

Ion Ratio Lower Upper

42 100

72 32.0 33.7 50.5#

71 19.3 31.9 47.9#

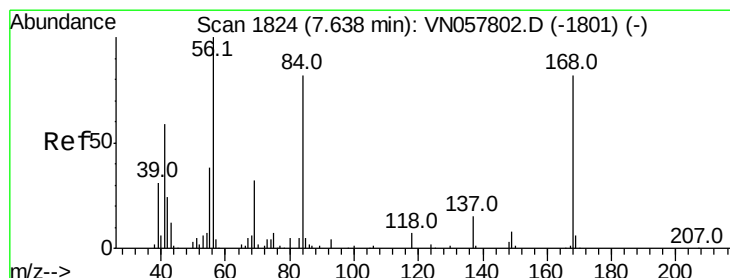
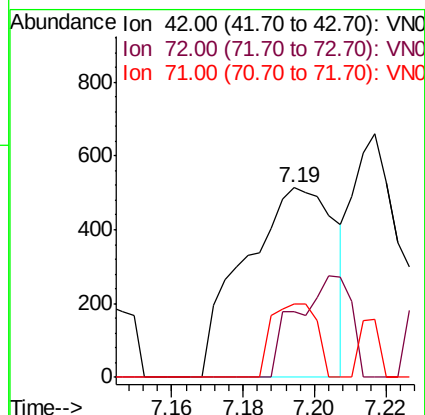
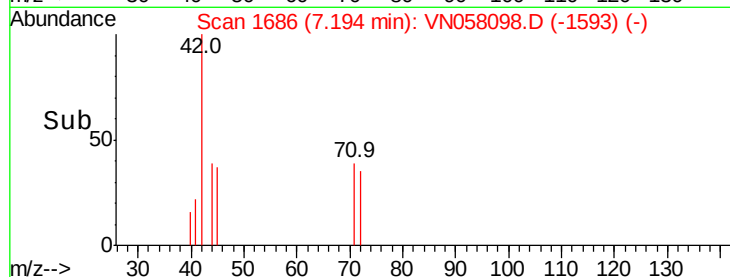


Abundance Ion 42.00 (41.70 to 42.70): VN057802.D (-1655) (-)

Ion 72.00 (71.70 to 72.70): VN057802.D (-1655) (-)

Ion 71.00 (70.70 to 71.70): VN057802.D (-1655) (-)

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

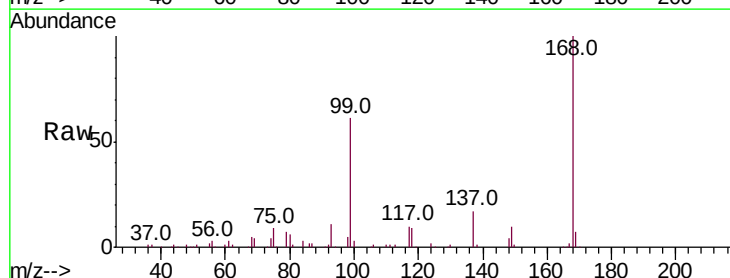
Tgt Ion: 56 Resp: 7238

Ion Ratio Lower Upper

56 100

69 138.4 25.9 38.9#

84 112.2 65.6 98.4#

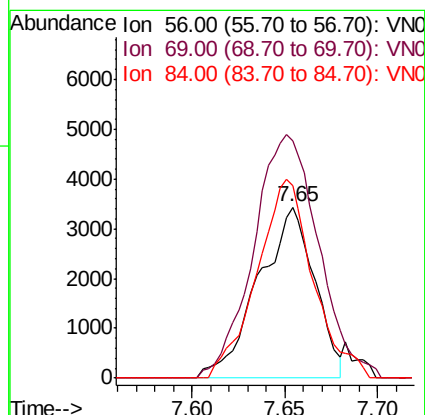
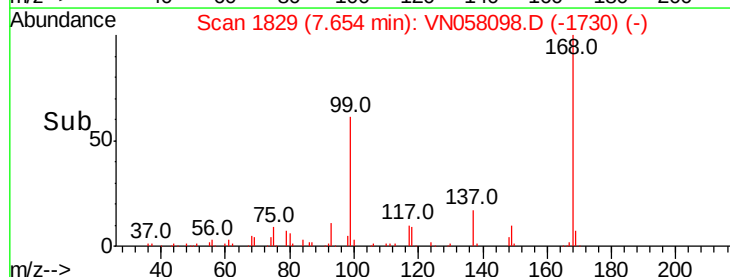


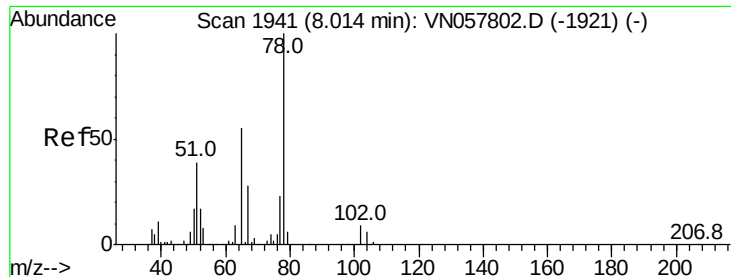
Abundance Ion 56.00 (55.70 to 56.70): VN057802.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN057802.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN057802.D (-1801) (-)

Time-->

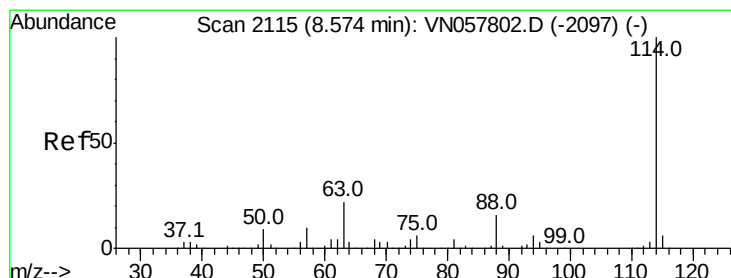
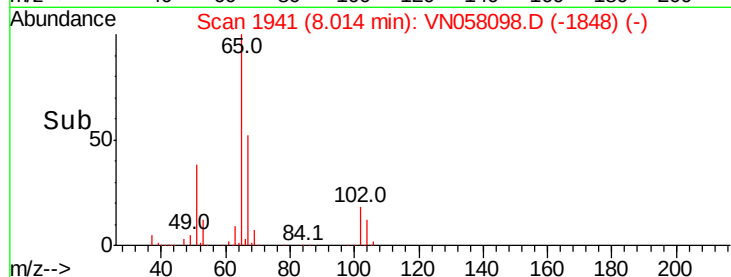
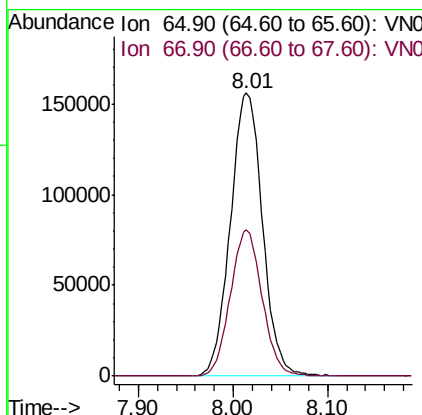
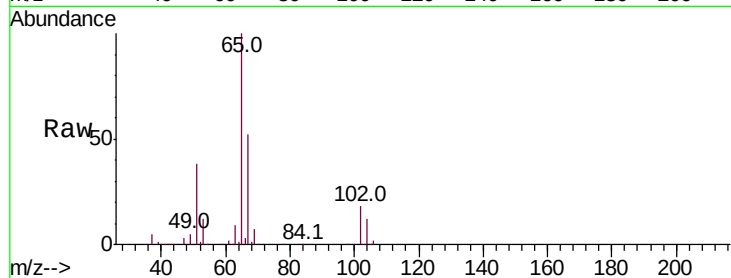




#33
 1,2-Dichloroethane-d4
 Concen: 60.264 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058098.D
 Acq: 15 Sep 2019 17:34

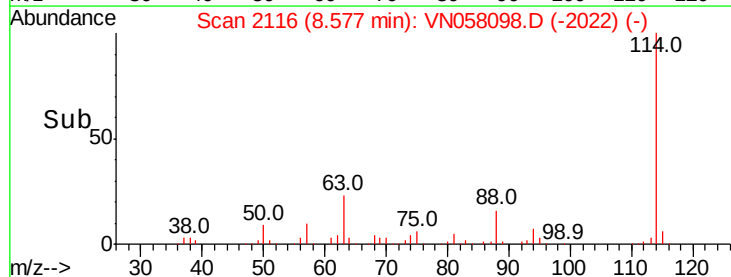
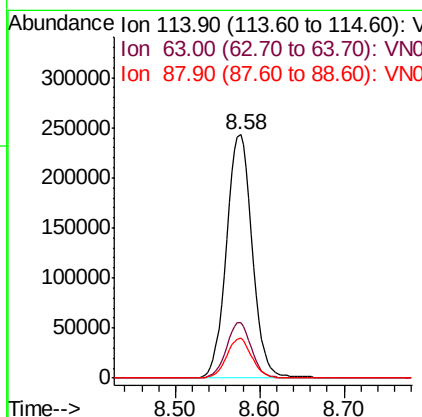
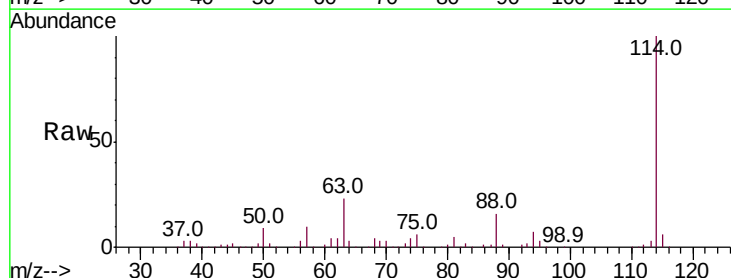
Instrument :
 MSVOA_N
 ClientSampleId :

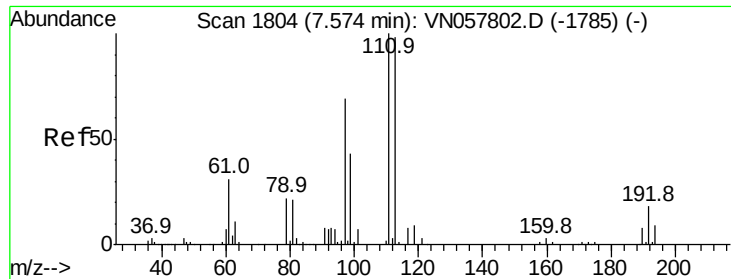
Tot Ion: 65 Resp: 368199
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058098.D
 Acq: 15 Sep 2019 17:34

Tgt Ion: 114 Resp: 518167
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 44.0
 88 16.4 0.0 31.4

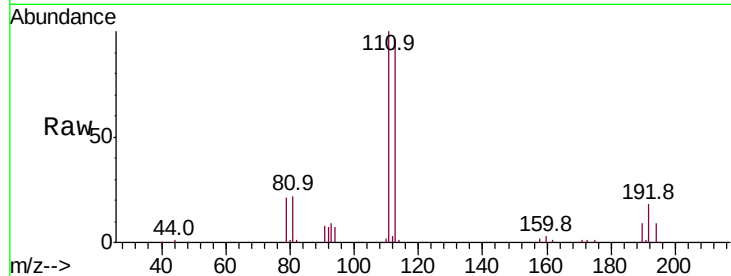




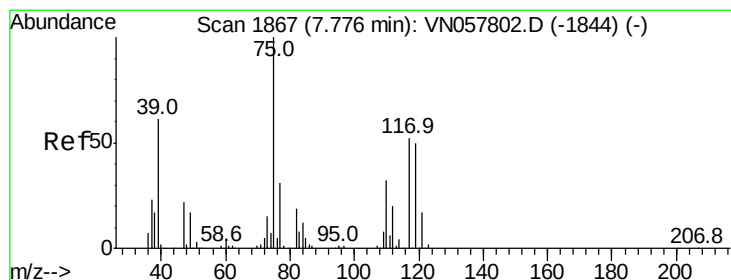
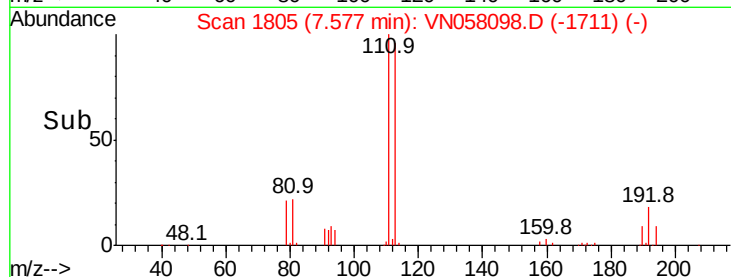
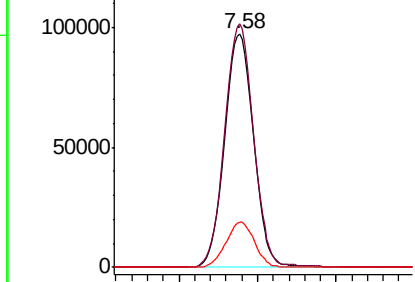
#35
Dibromofluoromethane
Concen: 52.059 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN058098.D
Acq: 15 Sep 2019 17:34

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:113 Resp: 248973
Ion Ratio Lower Upper
113 100
111 103.7 81.3 121.9
192 18.9 14.6 22.0

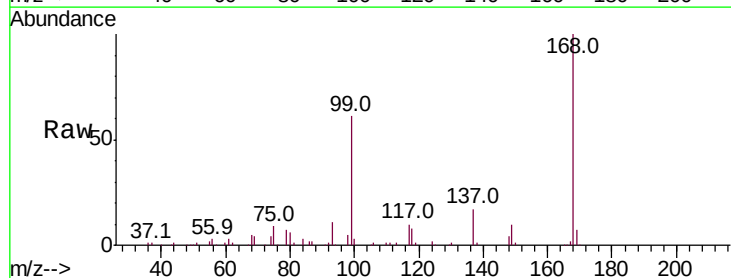


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

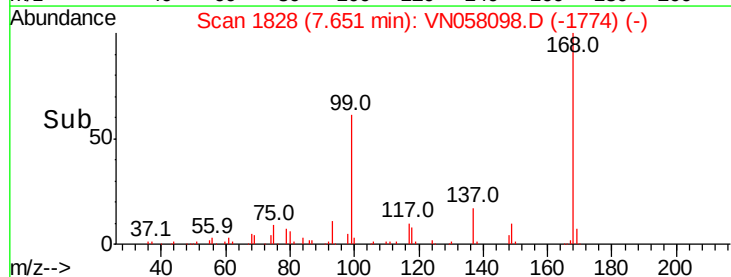
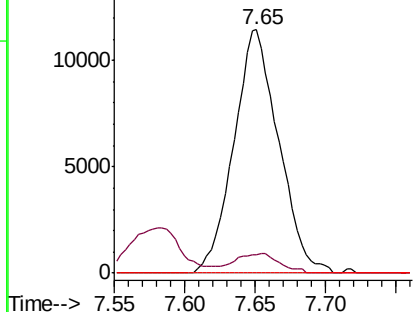


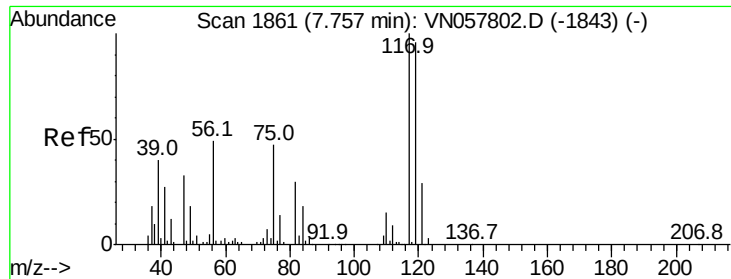
#36
1,1-Dichloropropene
Concen: 4.243 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.13 min
Lab File: VN058098.D
Acq: 15 Sep 2019 17:34

Tgt Ion: 75 Resp: 25495
Ion Ratio Lower Upper
75 100
110 8.2 16.3 48.9#
77 0.0 25.0 37.4#



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

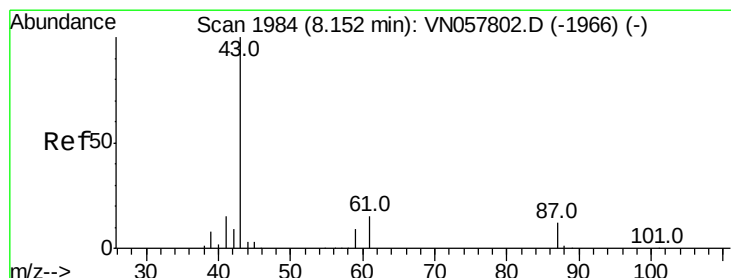
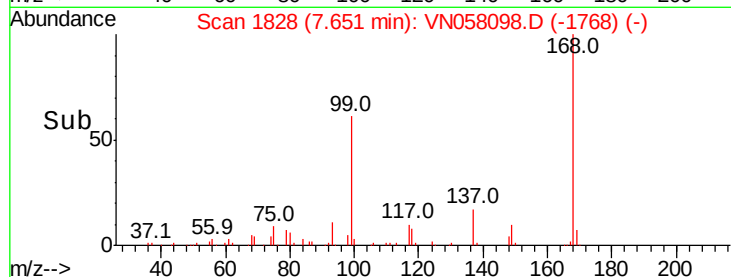
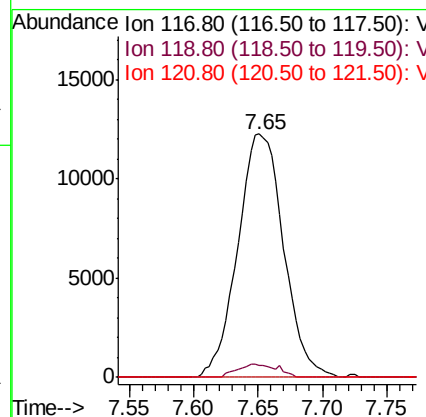
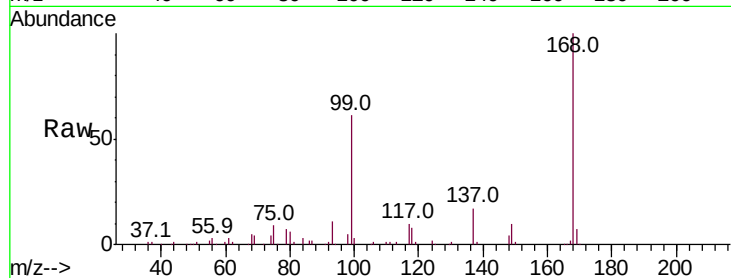




#38
Carbon Tetrachloride
Concen: 5.522 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058098.D
Acq: 15 Sep 2019 17:34

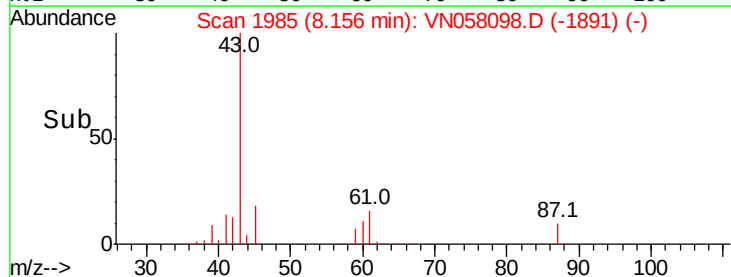
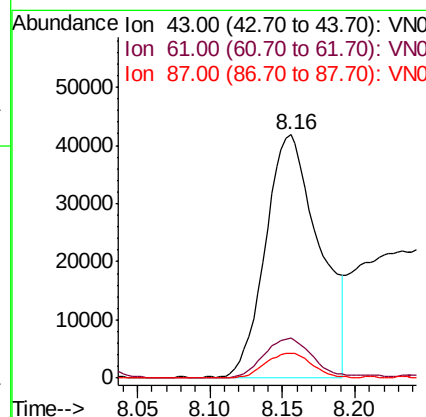
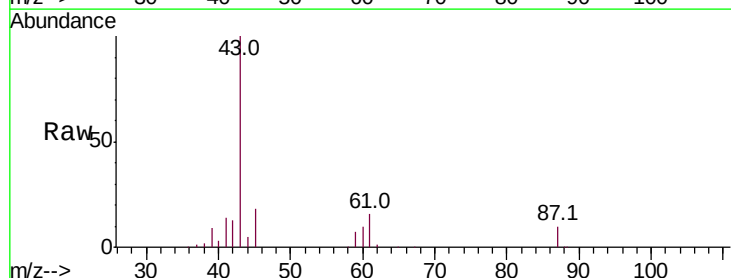
Instrument :
MSVOA_N
ClientSampled :

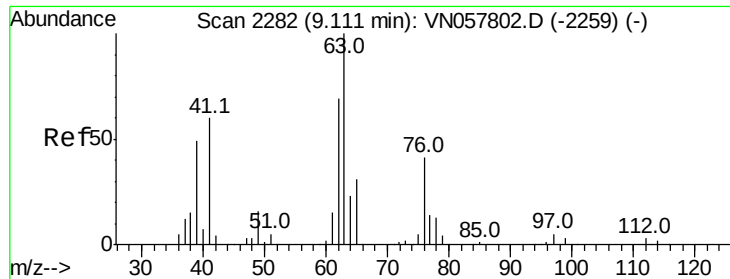
Tot Ion:117 Resp: 30294
Ion Ratio Lower Upper
117 100
119 5.2 76.9 115.3#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 10.370 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN058098.D
Acq: 15 Sep 2019 17:34

Tgt Ion: 43 Resp: 108272
Ion Ratio Lower Upper
43 100
61 14.7 20.1 30.1#
87 8.9 9.5 14.3#

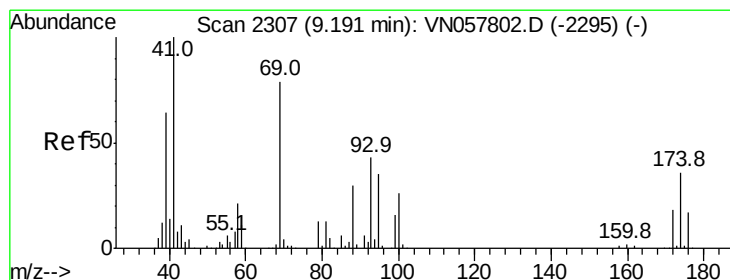
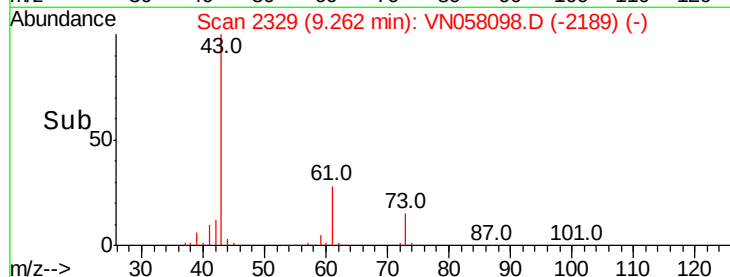
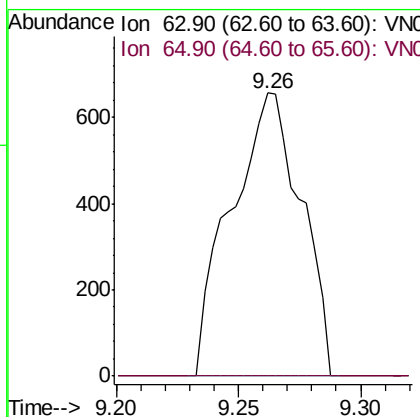
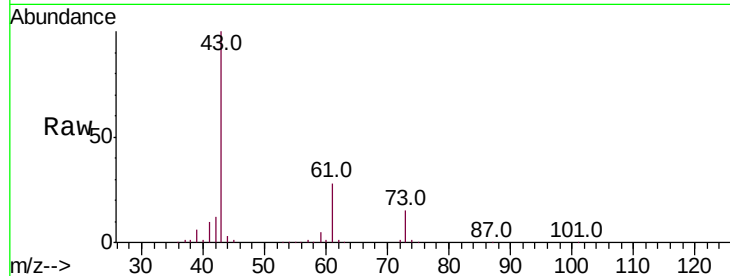




#45
 1,2-Dichloropropane
 Concen: 0.248 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN058098.D
 Acq: 15 Sep 2019 17:34

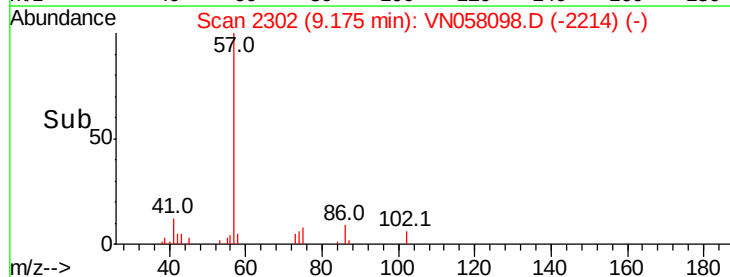
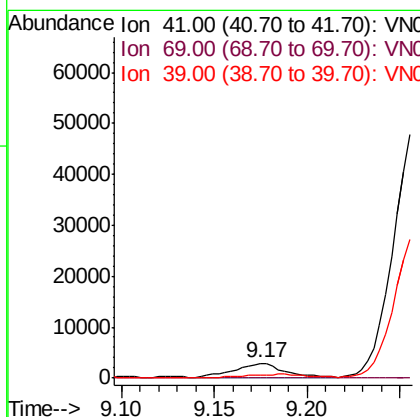
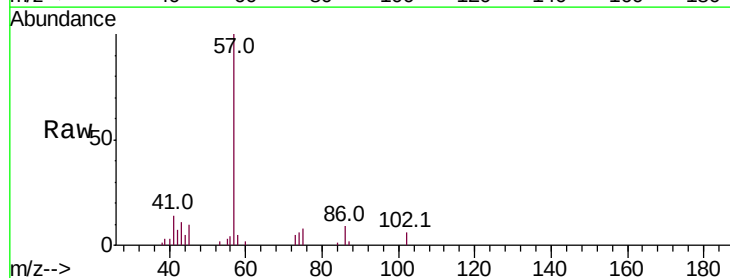
Instrument :
 MSVOA_N
 ClientSampleId :

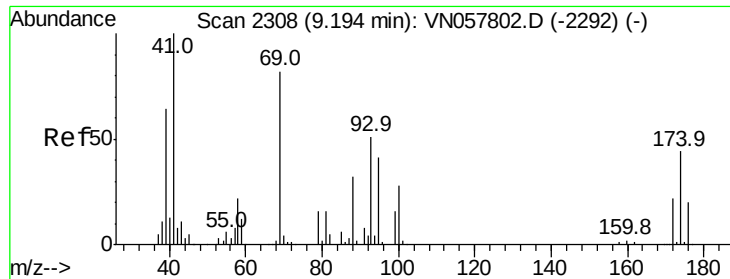
Tot Ion: 63 Resp: 1304
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 0.921 ug/l
 RT: 9.17 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN058098.D
 Acq: 15 Sep 2019 17:34

Tgt Ion: 41 Resp: 4877
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 38.8 52.7 79.1#





#49

1,4-Dioxane

Concen: 0.335 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.08 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Instrument :
MSVOA_N
ClientSampleId :

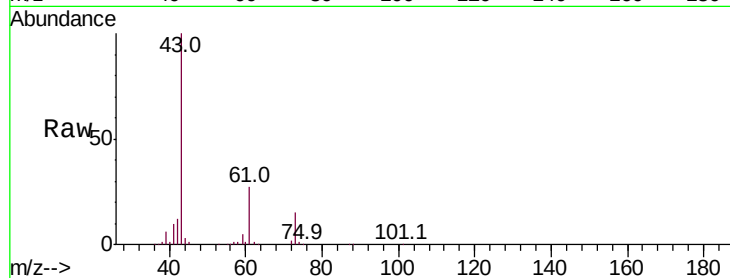
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

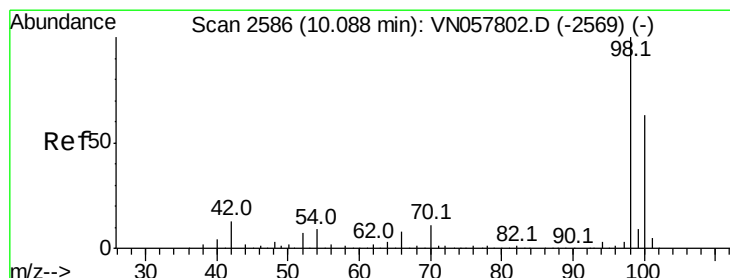
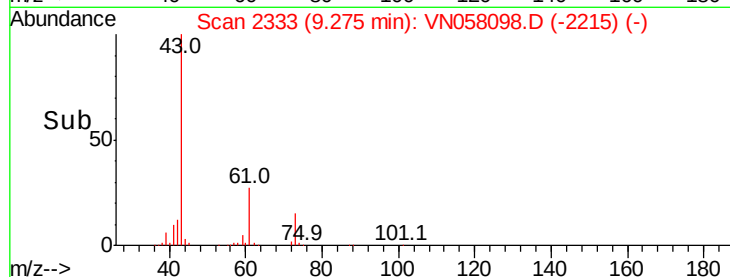
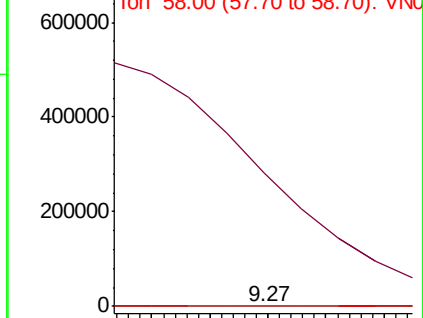
88 100

43 3199096.7 28.5 42.7#

58 15733.3 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.224 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058098.D

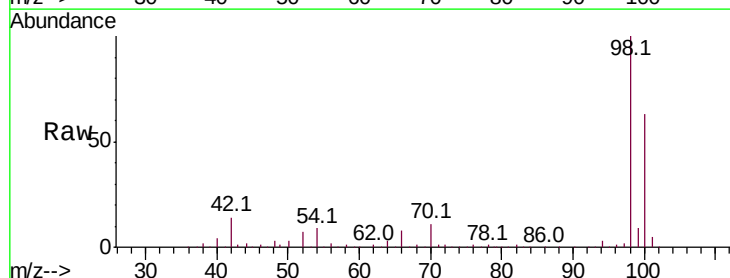
Acq: 15 Sep 2019 17:34

Tgt Ion: 98 Resp: 951136

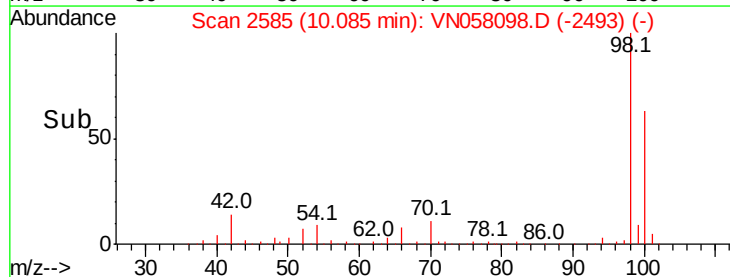
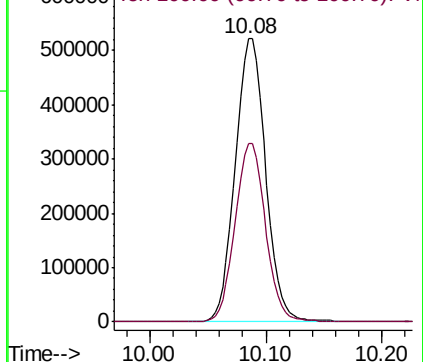
Ion Ratio Lower Upper

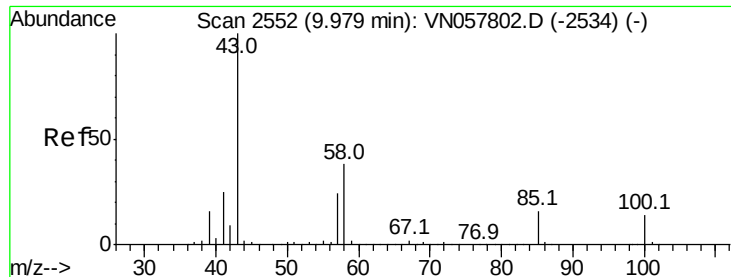
98 100

100 63.3 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.170 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Instrument :

MSVOA_N

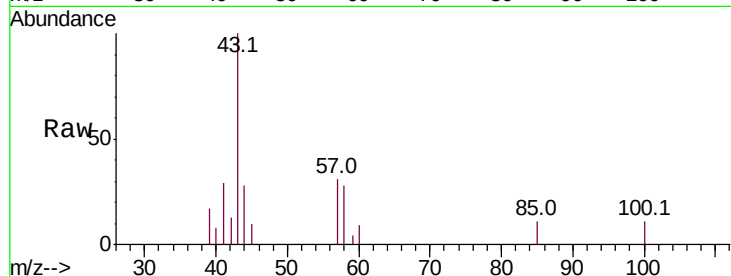
ClientSampled :

Tot Ion: 43 Resp: 7231

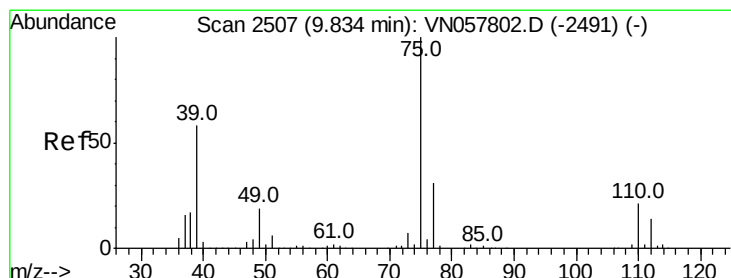
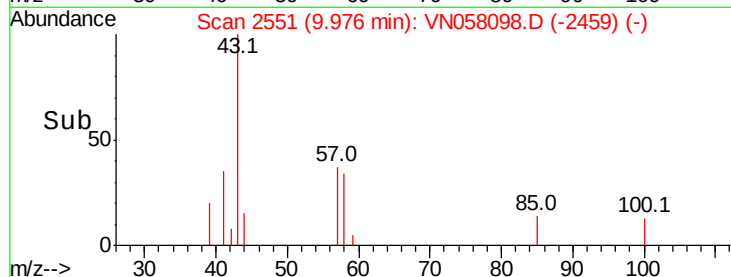
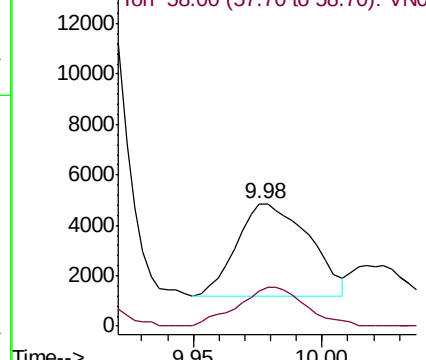
Ion Ratio Lower Upper

43 100

58 39.3 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.580 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

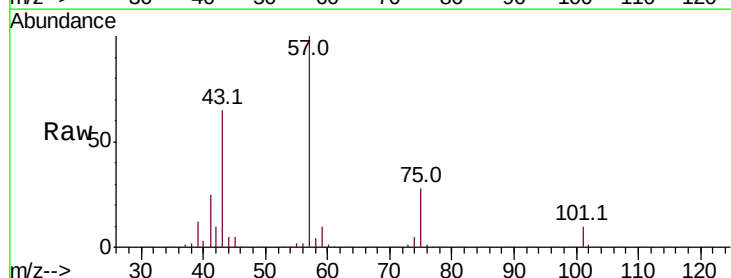
Tgt Ion: 75 Resp: 41215

Ion Ratio Lower Upper

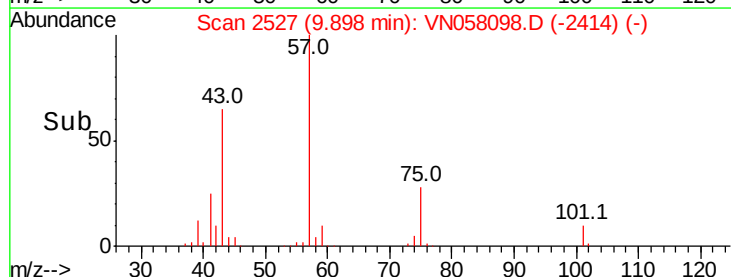
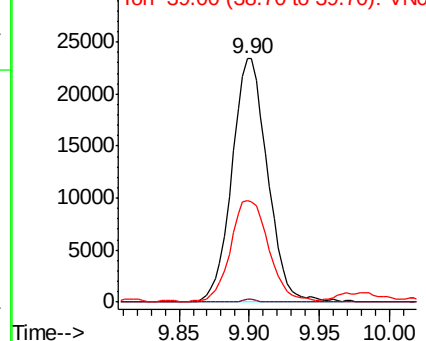
75 100

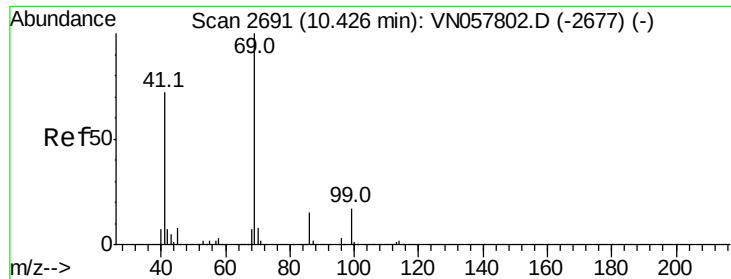
77 1.1 24.8 37.2#

39 41.0 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)





#56

Ethyl methacrylate

Concen: 0.309 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Instrument :

MSVOA_N

ClientSampleId :

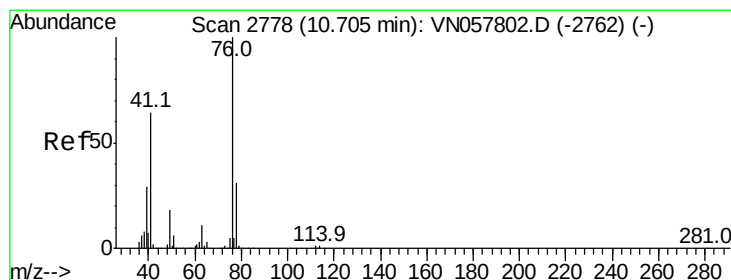
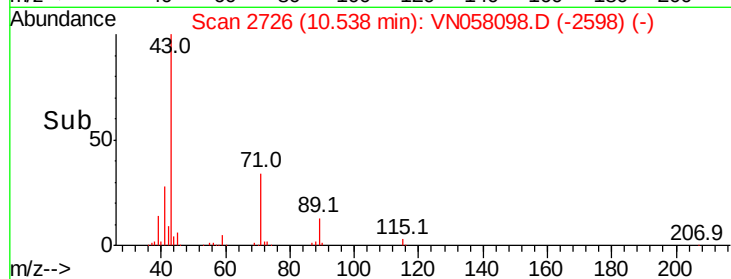
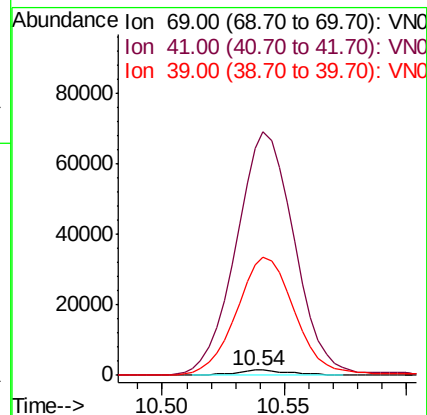
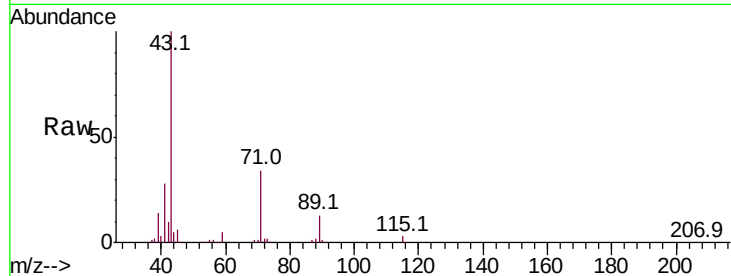
Tot Ion: 69 Resp: 2243

Ion Ratio Lower Upper

69 100

41 5142.3 56.7 85.1#

39 2511.5 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.572 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058098.D

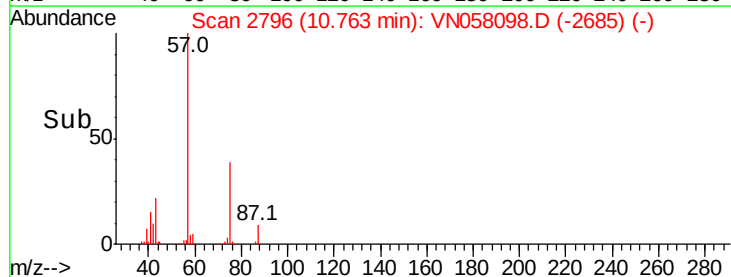
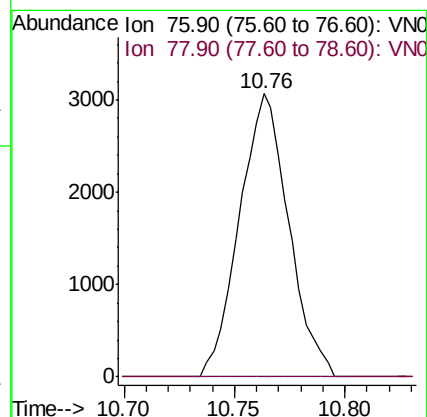
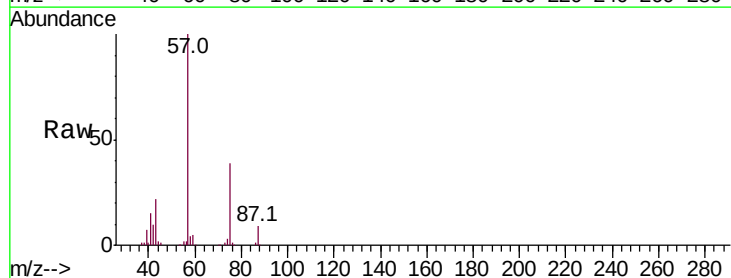
Acq: 15 Sep 2019 17:34

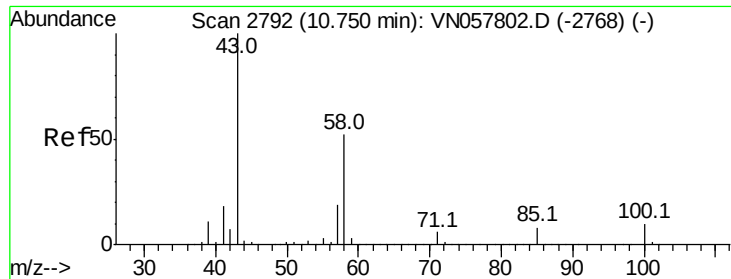
Tgt Ion: 76 Resp: 4758

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 15.873 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Instrument :

MSVOA_N

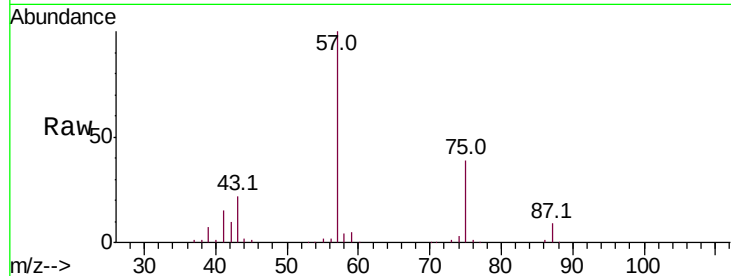
ClientSampled :

Tot Ion: 43 Resp: 73512

Ion Ratio Lower Upper

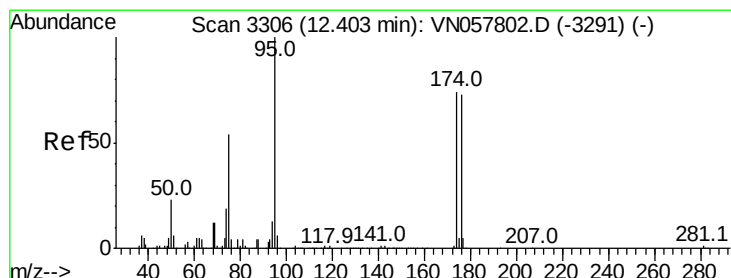
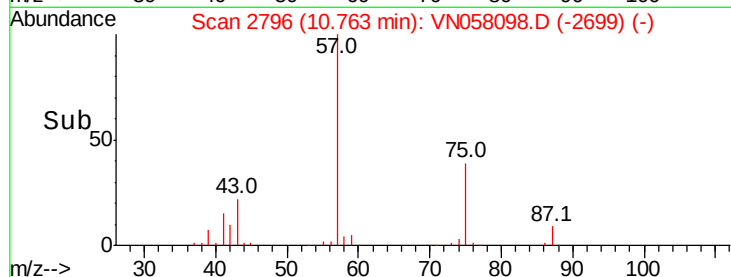
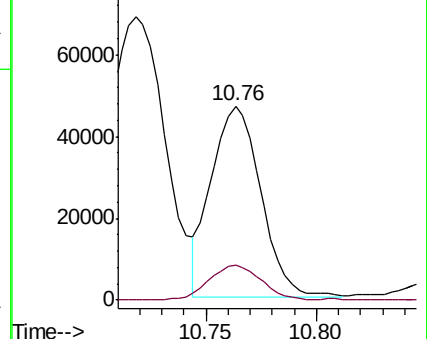
43 100

58 19.1 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 45.326 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

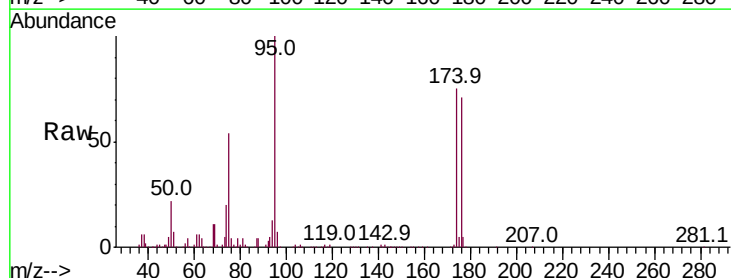
Tgt Ion: 95 Resp: 320731

Ion Ratio Lower Upper

95 100

174 75.6 0.0 150.2

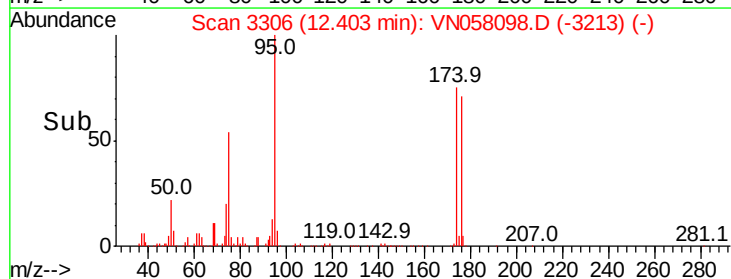
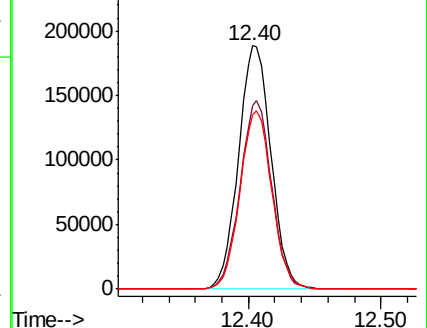
176 72.0 0.0 146.0

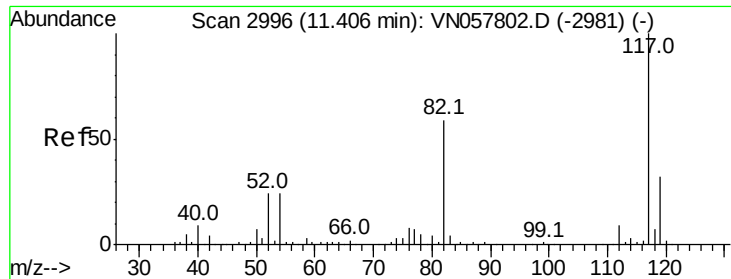


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

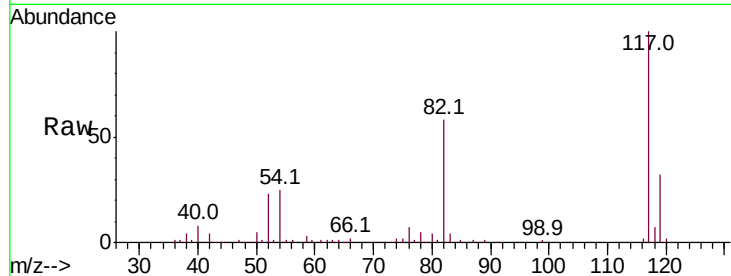




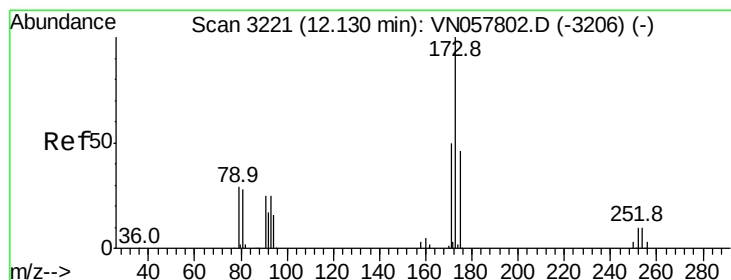
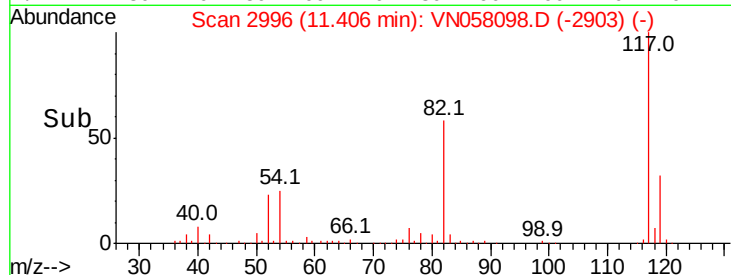
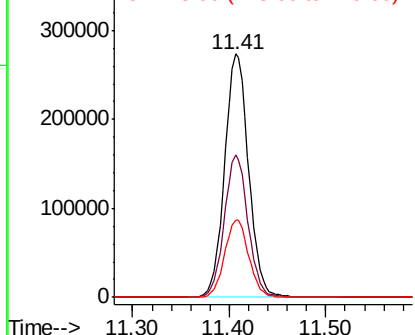
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058098.D
Acq: 15 Sep 2019 17:34

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 469486
Ion Ratio Lower Upper
117 100
82 58.4 47.2 70.8
119 32.0 25.3 37.9

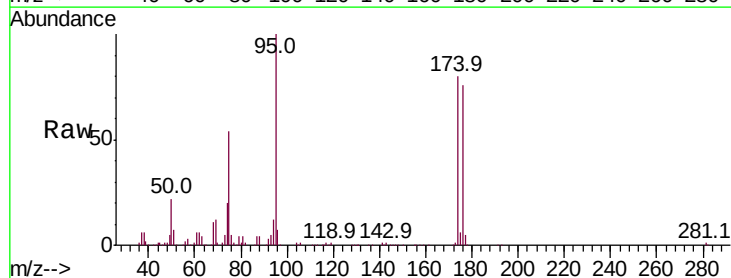


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

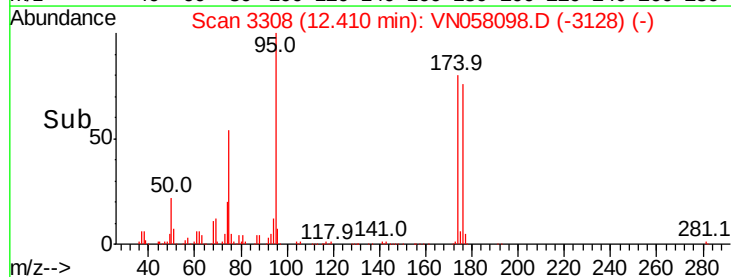
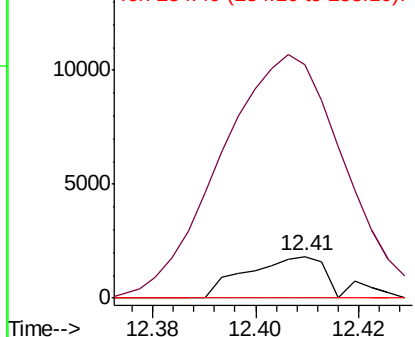


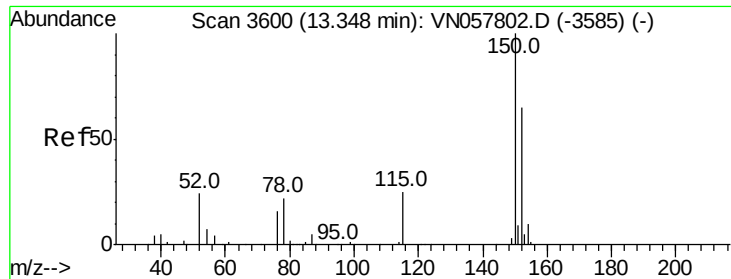
#71
Bromoform
Concen: 0.713 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN058098.D
Acq: 15 Sep 2019 17:34

Tgt Ion:173 Resp: 1894
Ion Ratio Lower Upper
173 100
175 822.8 23.5 70.6#
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# 3600

Delta R.T. 0.00 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Instrument :

MSVOA_N

ClientSampleId :

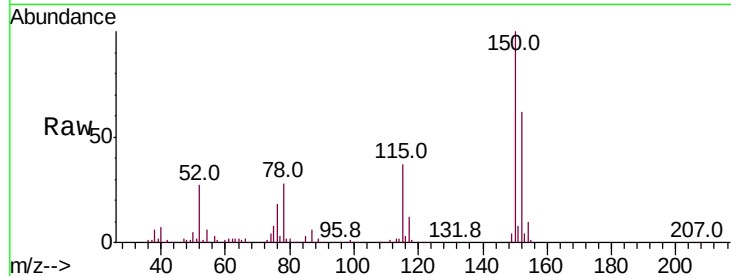
Tot Ion:152 Resp: 245632

Ion Ratio Lower Upper

152 100

115 60.7 30.3 91.0

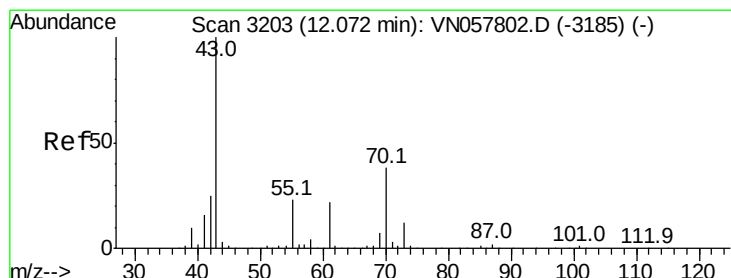
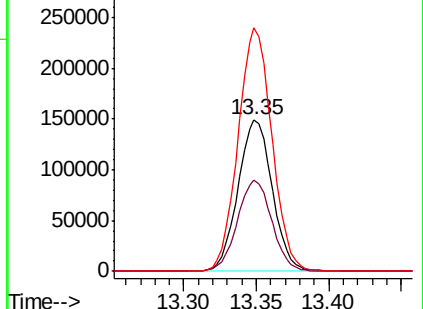
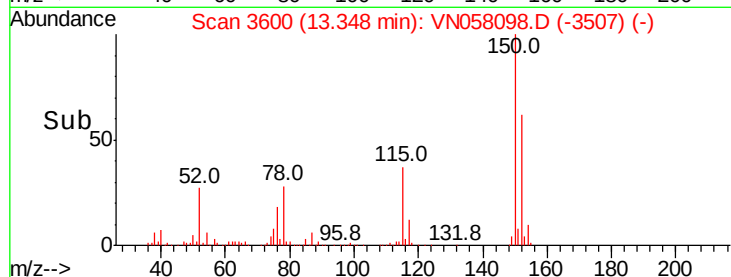
150 158.3 0.0 352.4



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



#74

N-ethyl acetate

Concen: 0.503 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Tgt Ion: 43 Resp: 4173

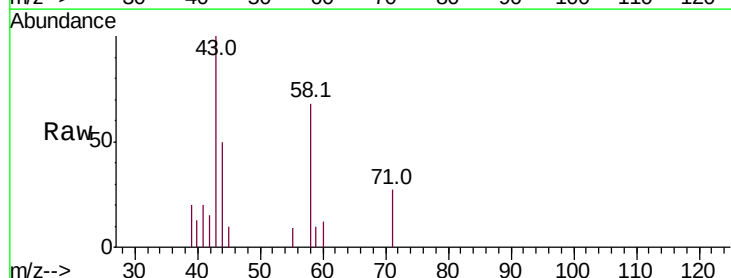
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 4.4 18.6 27.8#

61 0.0 17.4 26.2#

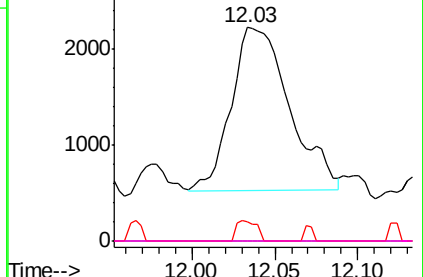
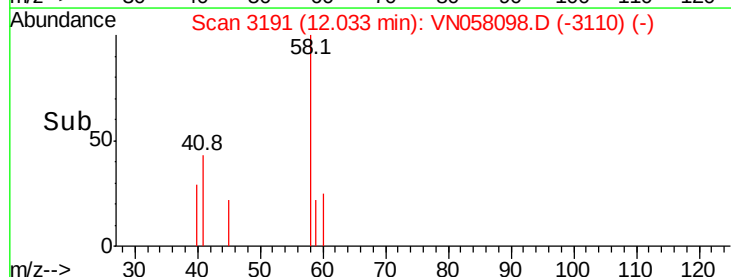


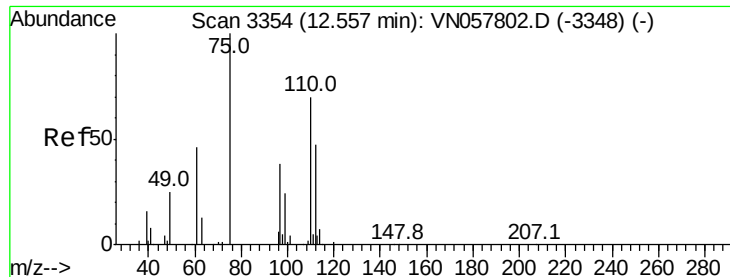
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 31.268 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Instrument :

MSVOA_N

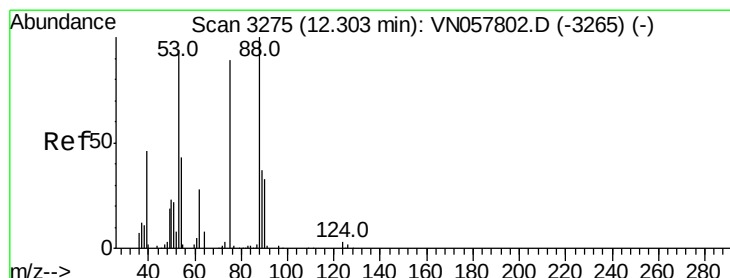
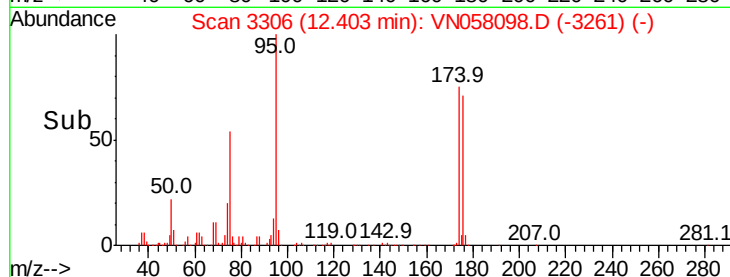
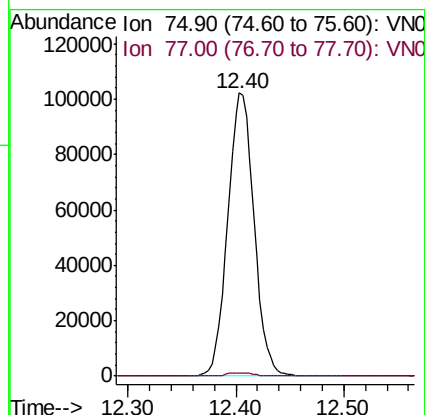
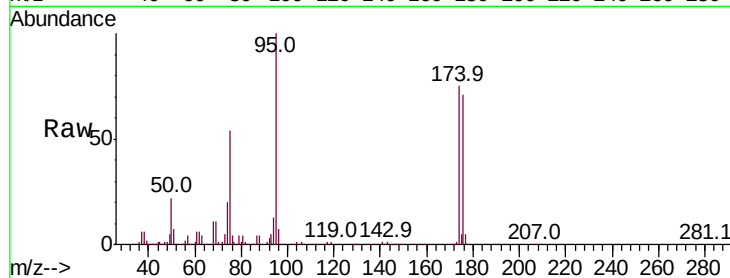
ClientSampled :

Tot Ion: 75 Resp: 173742

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 110.031 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

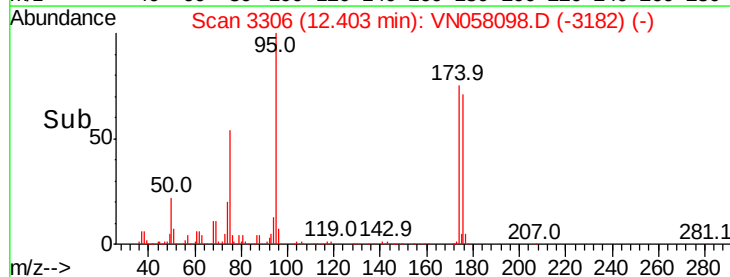
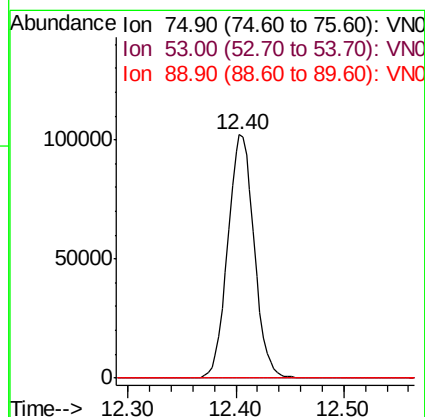
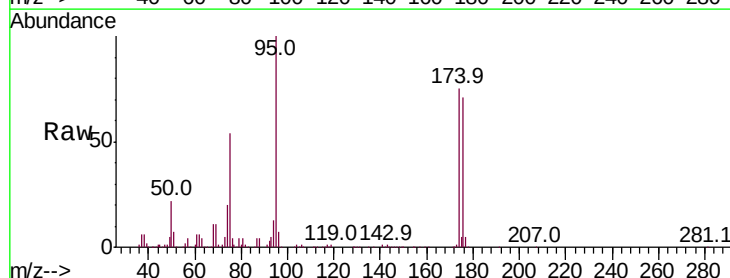
Tgt Ion: 75 Resp: 173742

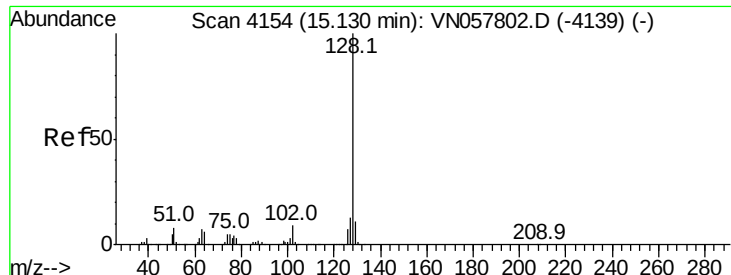
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058098.D

Acq: 15 Sep 2019 17:34

Instrument :

MSVOA_N

ClientSampleId :

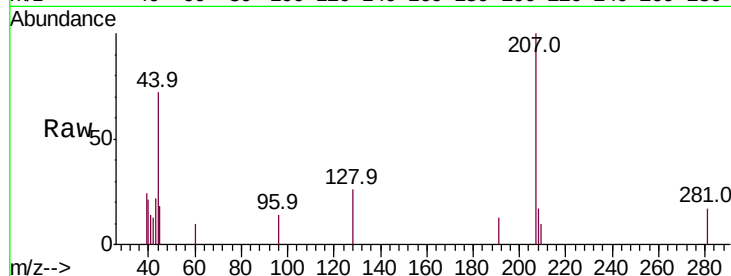
Tot Ion:128 Resp: 551

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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

