

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058095.D
 Acq On : 15 Sep 2019 16:28
 Operator : JC/SP
 Sample : K4719-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

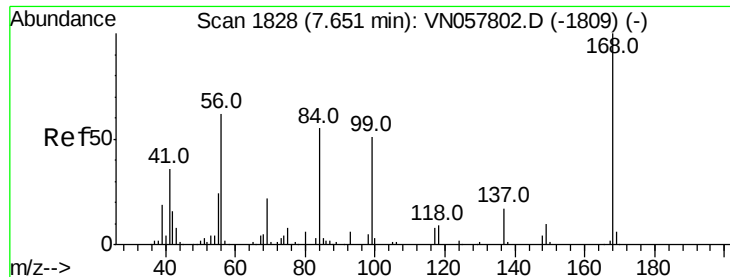
Quant Time: Sep 16 03:41:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	316141	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	521267	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	477781	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	253511	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	362900	56.67	ug/l	0.00
Spiked Amount						
			Recovery	=	113.34%	
35) Dibromofluoromethane	7.58	113	251240	52.22	ug/l	0.00
Spiked Amount						
			Recovery	=	104.44%	
50) Toluene-d8	10.09	98	965971	51.71	ug/l	0.00
Spiked Amount						
			Recovery	=	103.42%	
62) 4-Bromofluorobenzene	12.41	95	324815	45.63	ug/l	0.00
Spiked Amount						
			Recovery	=	91.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	30	Below Cal		97
16) Acetone	3.80	43	19382	9.234	ug/l	92
18) Methyl Acetate	4.29	43	1923	0.344	ug/l #	53
20) Methylene Chloride	4.54	84	11338	1.647	ug/l	88
25) 2-Butanone	6.83	43	1066	0.351	ug/l	98
29) Tetrahydrofuran	7.20	42	489	0.261	ug/l #	87
31) Cyclohexane	7.65	56	8116	Below Cal	#	30
36) 1,1-Dichloropropene	7.65	75	27784	4.596	ug/l #	50
38) Carbon Tetrachloride	7.65	117	31541	5.715	ug/l #	14
43) Isopropyl Acetate	8.15	43	126425	12.036	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	1688	0.319	ug/l #	44
48) Methyl methacrylate	9.17	41	6313	1.185	ug/l #	13
49) 1,4-Dioxane	9.26	88	29	0.322	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7216	1.161	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	46187	6.216	ug/l #	66
56) Ethyl methacrylate	10.54	69	2291	0.313	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5590	0.668	ug/l #	43
59) 2-Hexanone	10.76	43	93497	20.068	ug/l #	54
71) Bromoform	12.40	173	1811	0.669	ug/l #	1
74) N-amyl acetate	12.03	43	3643	0.426	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	176837	30.835	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	176837	108.511	ug/l #	6
95) Naphthalene	15.14	128	884	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058095.D

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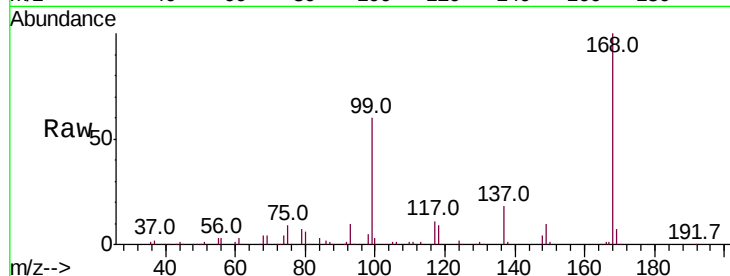
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 316141

Ion Ratio Lower Upper

168 100

99 60.3 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

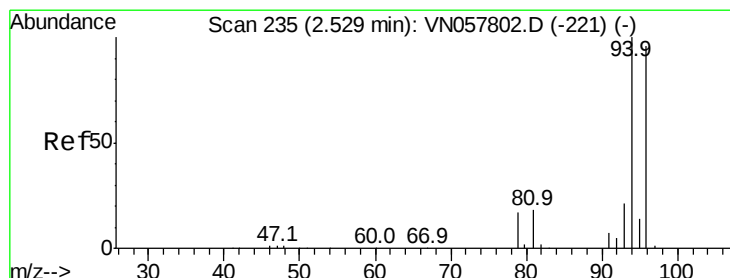
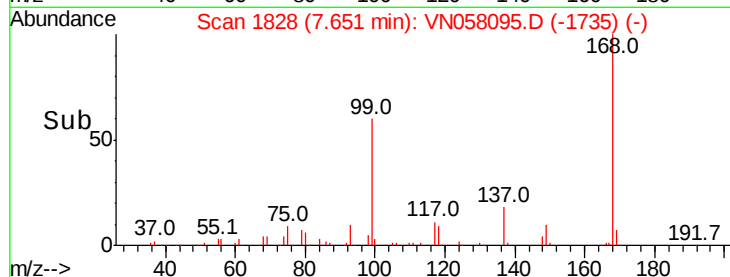
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 244

Delta R.T. 0.03 min

Lab File: VN058095.D

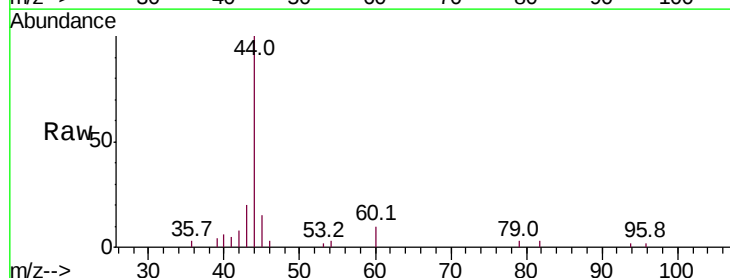
Acq: 15 Sep 2019 16:28

Tgt Ion: 94 Resp: 30

Ion Ratio Lower Upper

94 100

96 99.3 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

200

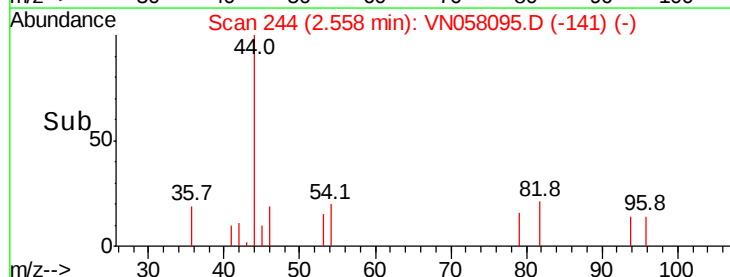
150

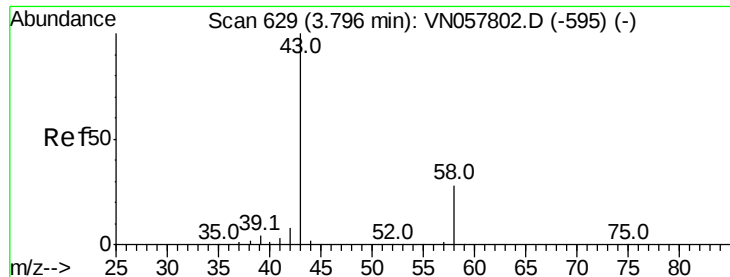
100

50

0

Time--> 2.55 2.56 2.57 2.58





#16

Acetone

Concen: 9.234 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

Instrument :

MSVOA_N

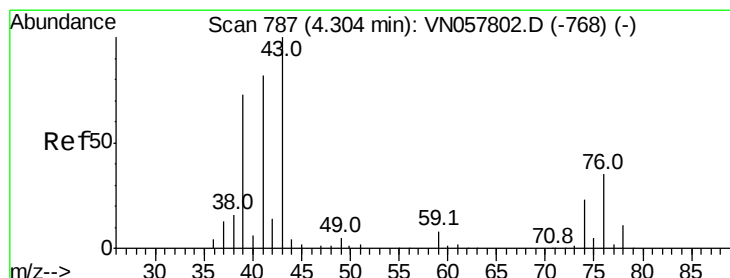
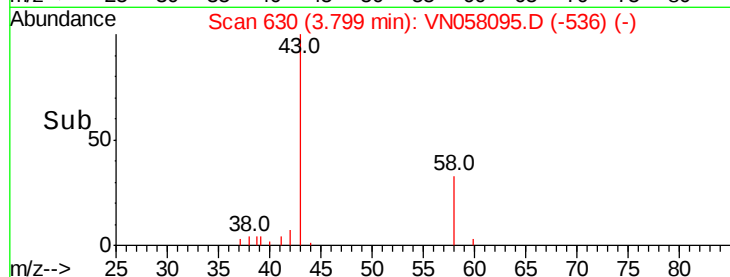
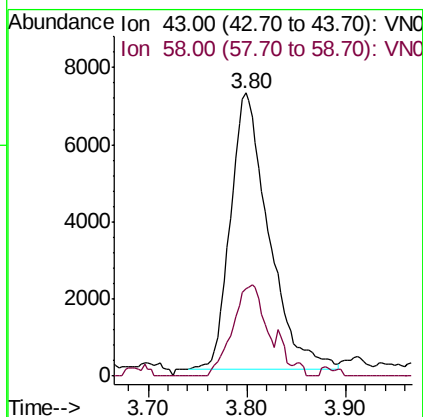
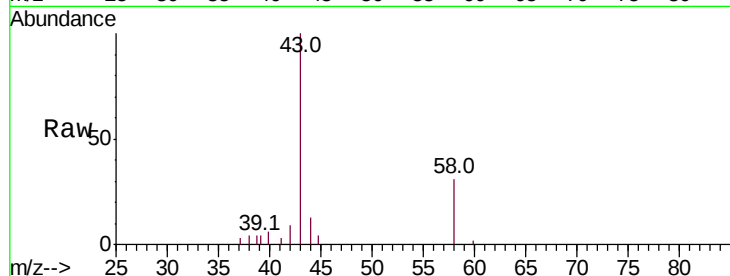
ClientSampled :

Tot Ion: 43 Resp: 19382

Ion Ratio Lower Upper

43 100

58 31.8 22.2 33.2



#18

Methyl Acetate

Concen: 0.344 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.01 min

Lab File: VN058095.D

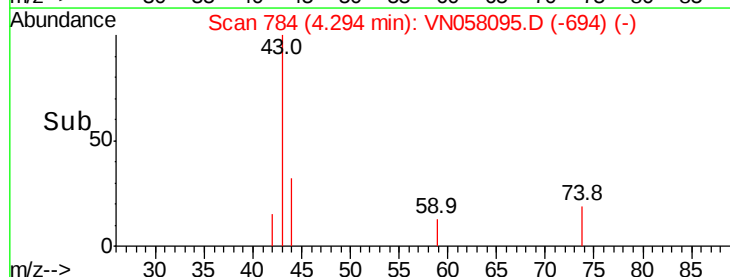
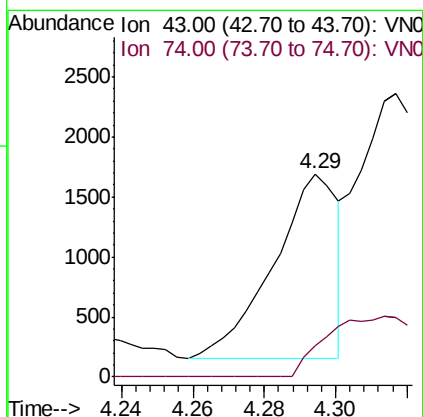
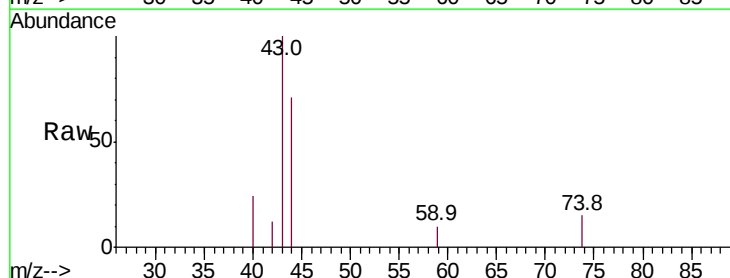
Acq: 15 Sep 2019 16:28

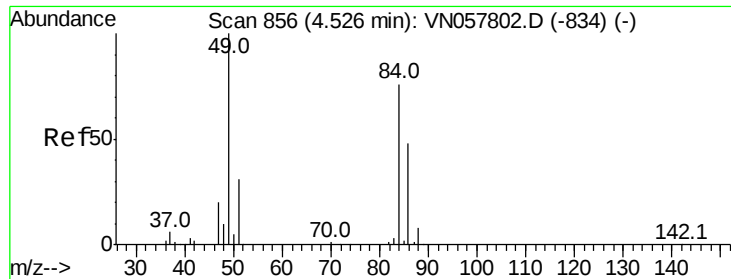
Tgt Ion: 43 Resp: 1923

Ion Ratio Lower Upper

43 100

74 0.0 17.9 26.9#

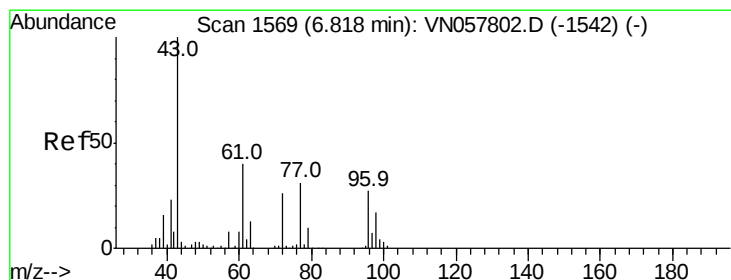
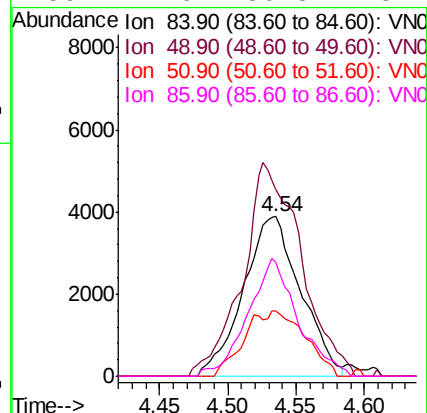
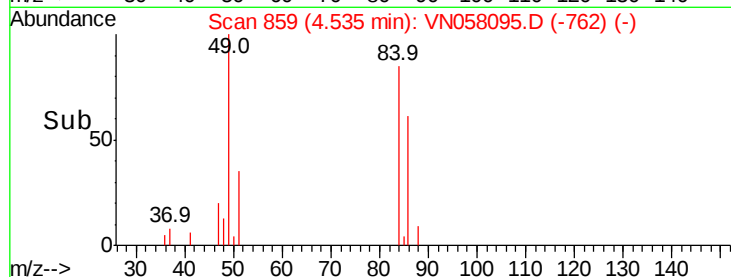
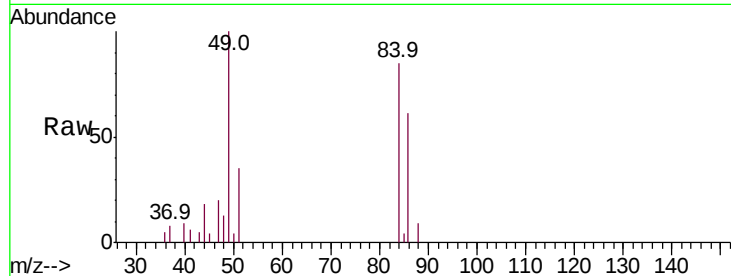




#20
Methvlene Chloride
Concen: 1.647 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058095.D
Acq: 15 Sep 2019 16:28

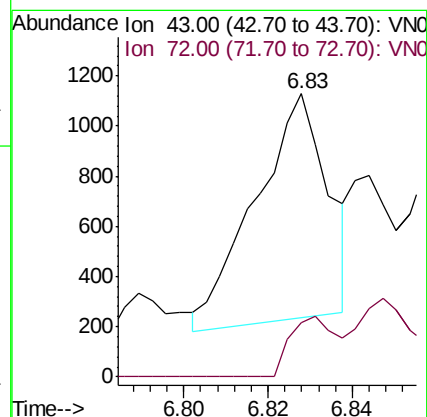
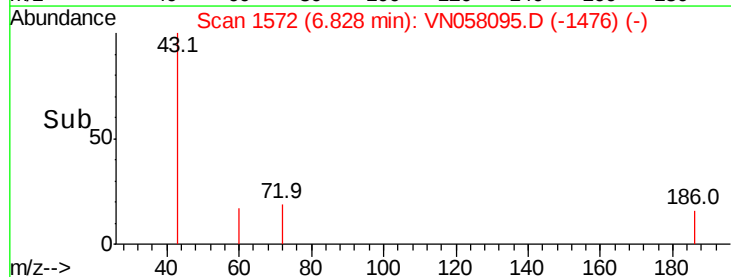
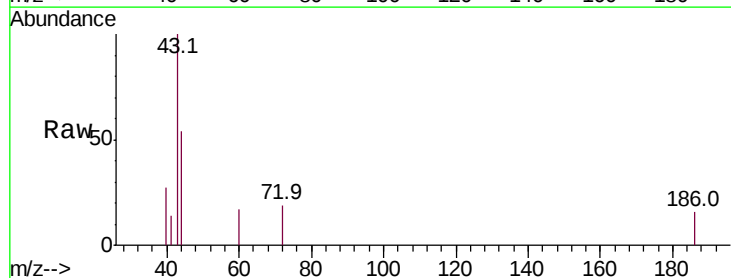
Instrument :
MSVOA_N
ClientSampleId :

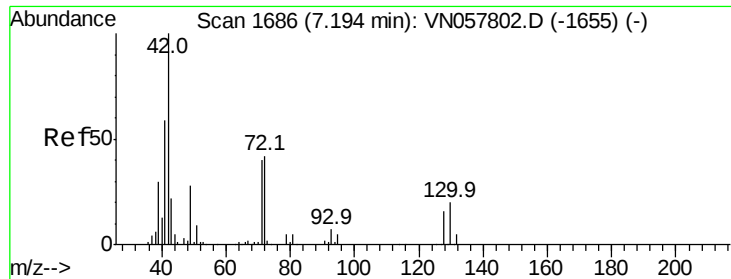
Tot Ion:	84	Resp:	11338
Ion	Ratio	Lower	Upper
84	100		
49	112.4	104.8	157.2
51	41.1	33.0	49.4
86	71.6	50.5	75.7



#25
2-Butanone
Concen: 0.351 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN058095.D
Acq: 15 Sep 2019 16:28

Tgt Ion:	43	Resp:	1066
Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.6	30.8

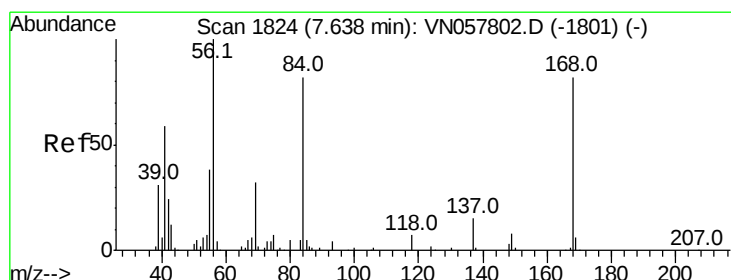
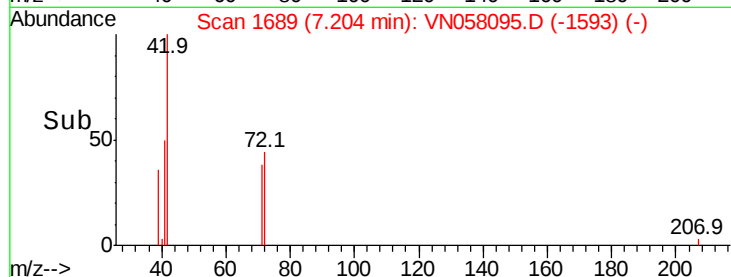
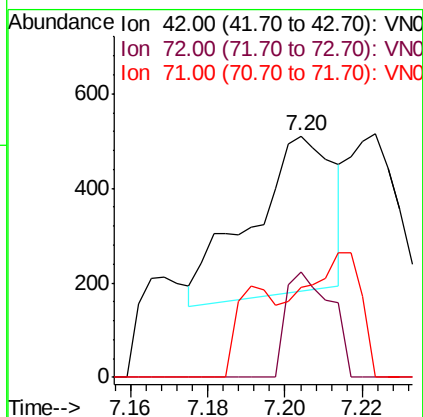
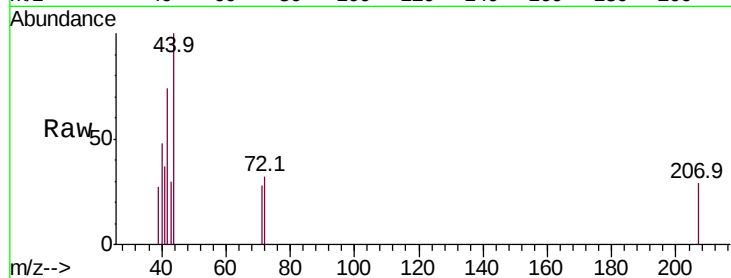




#29
Tetrahydrofuran
Concen: 0.261 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VN058095.D
Acq: 15 Sep 2019 16:28

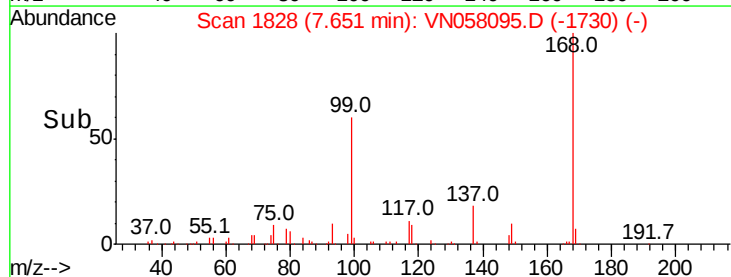
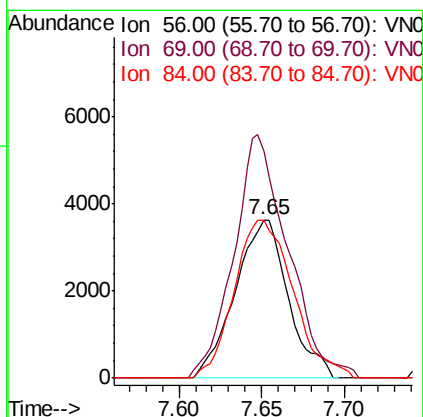
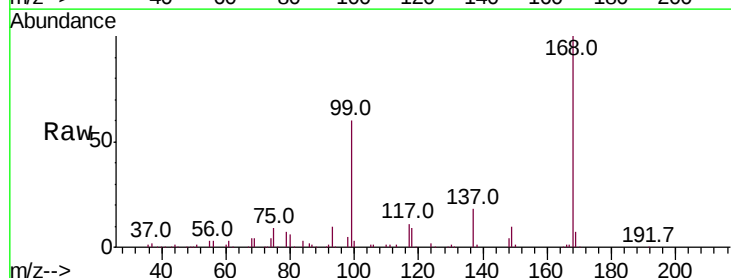
Instrument :
MSVOA_N
ClientSampled :

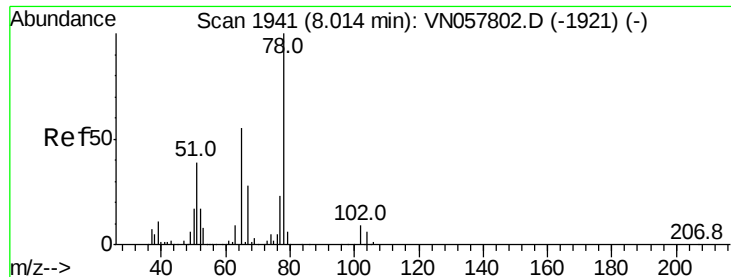
Tot Ion: 42 Resp: 489
Ion Ratio Lower Upper
42 100
72 36.8 33.7 50.5
71 51.3 31.9 47.9#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058095.D
Acq: 15 Sep 2019 16:28

Tgt Ion: 56 Resp: 8116
Ion Ratio Lower Upper
56 100
69 143.4 25.9 38.9#
84 99.4 65.6 98.4#





#33

1,2-Dichloroethane-d4

Concen: 56.675 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

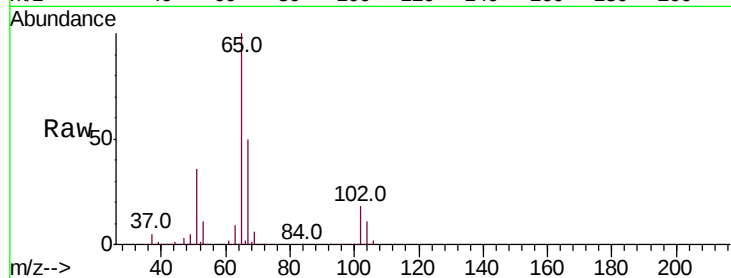
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 362900

Ion Ratio Lower Upper

65 100

67 51.5 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

8.01

150000

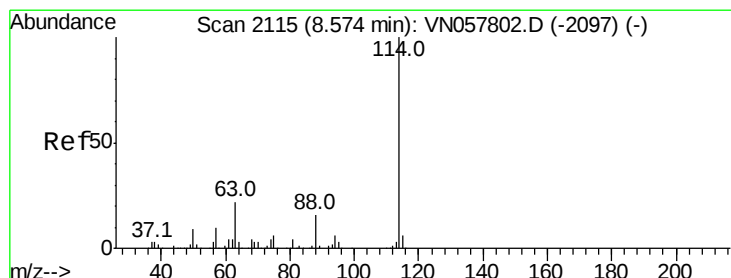
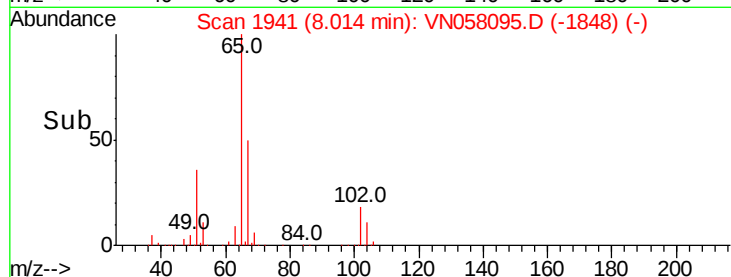
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

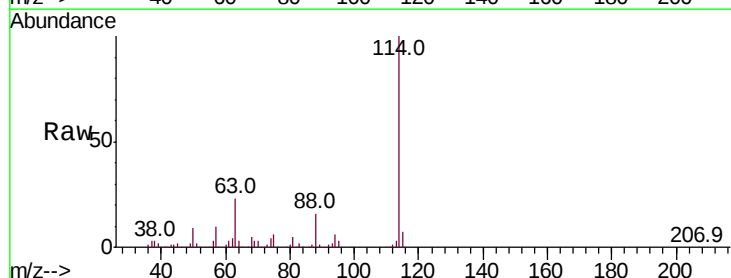
Tgt Ion: 114 Resp: 521267

Ion Ratio Lower Upper

114 100

63 23.0 0.0 44.0

88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN057802.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN057802.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN057802.D (-2097) (-)

8.57

300000

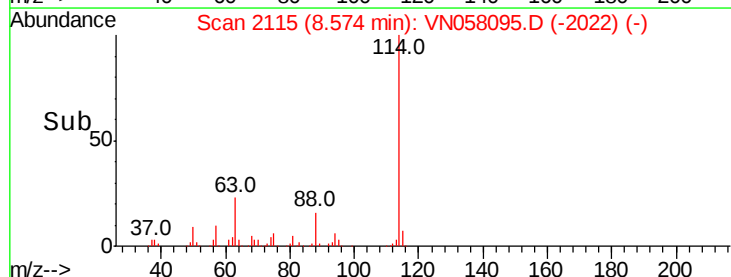
200000

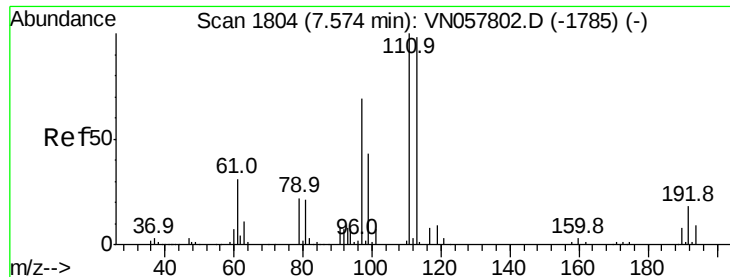
100000

0

8.50 8.60 8.70

Time-->





#35

Dibromofluoromethane

Concen: 52.221 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

Instrument :
MSVOA_N
ClientSampled :

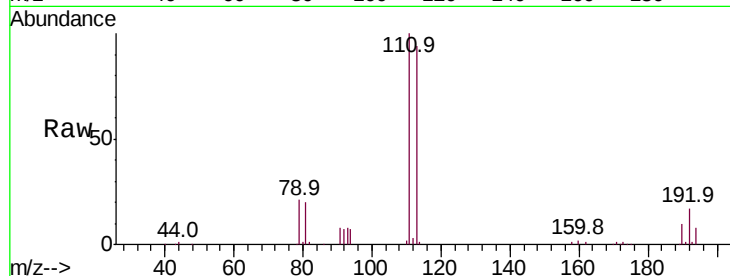
Tot Ion:113 Resp: 251240

Ion Ratio Lower Upper

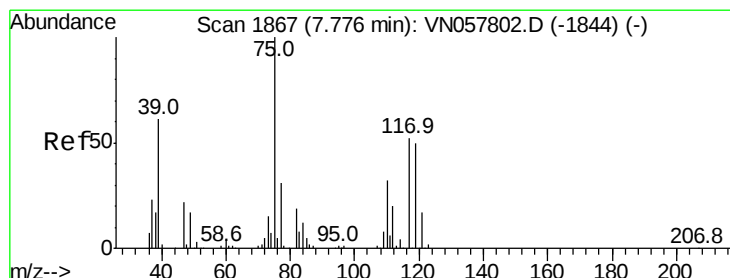
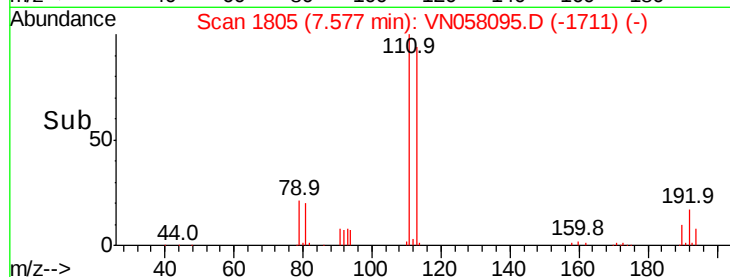
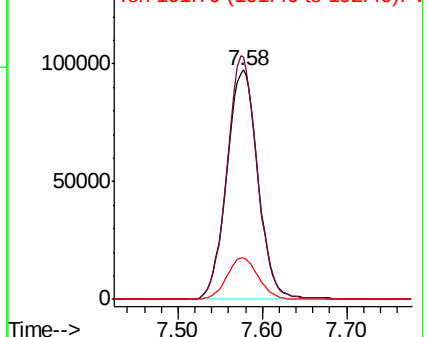
113 100

111 102.4 81.3 121.9

192 18.1 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: 4.596 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

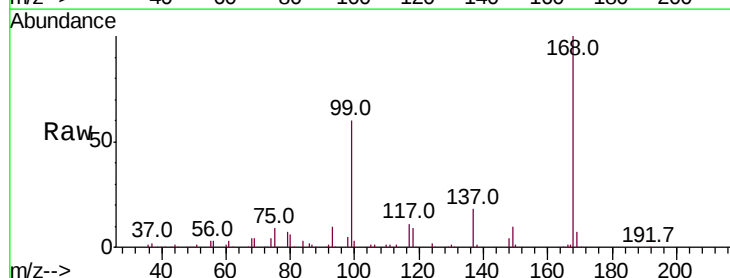
Tgt Ion: 75 Resp: 27784

Ion Ratio Lower Upper

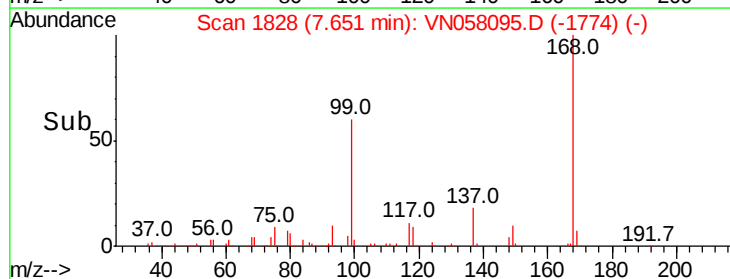
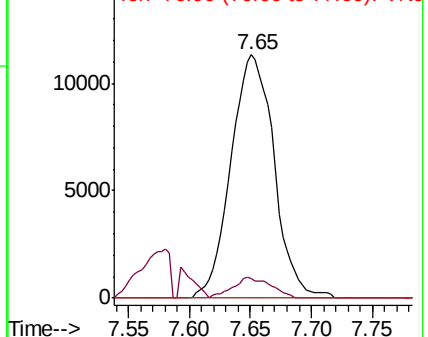
75 100

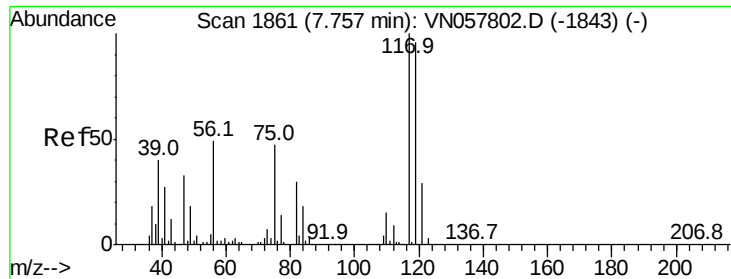
110 7.6 16.3 48.9#

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

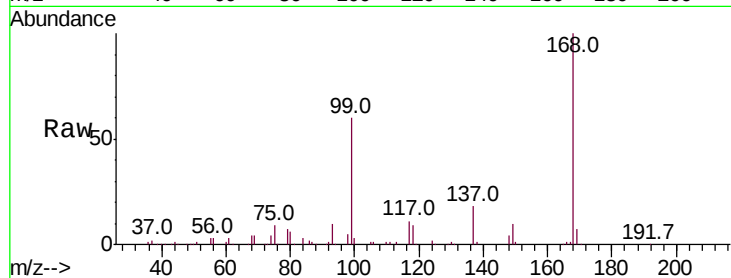




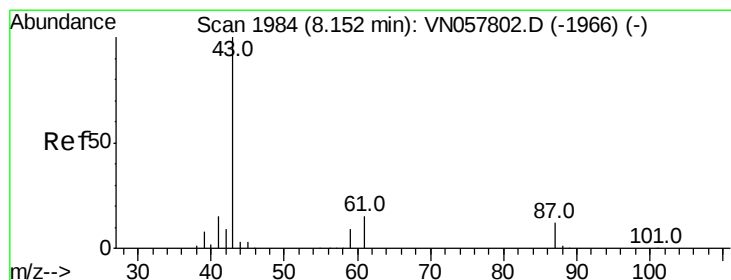
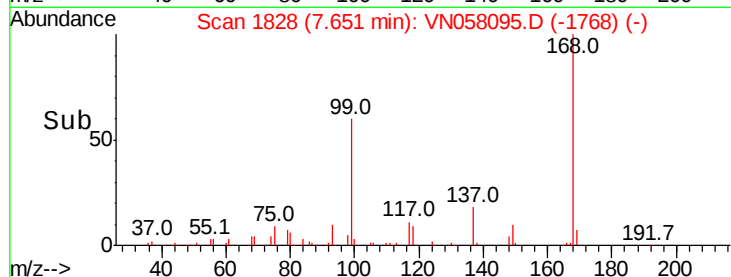
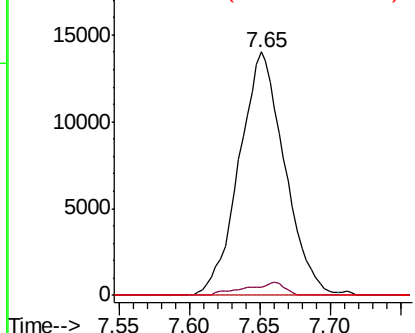
#38
Carbon Tetrachloride
Concen: 5.715 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058095.D
Acq: 15 Sep 2019 16:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 31541
Ion Ratio Lower Upper
117 100
119 3.2 76.9 115.3#
121 0.0 23.4 35.2#

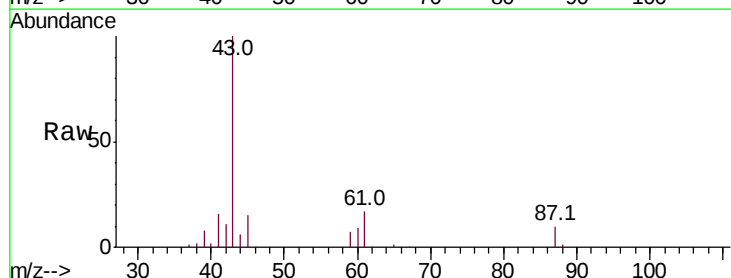


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

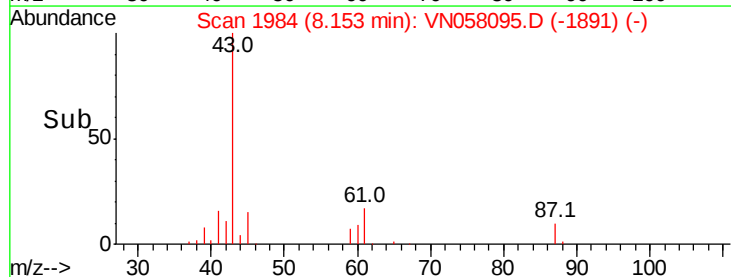
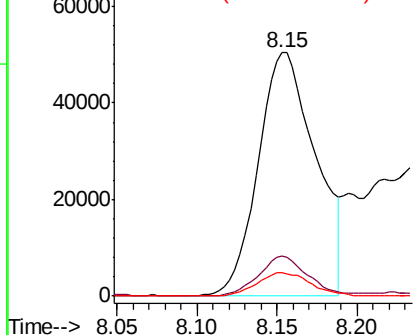


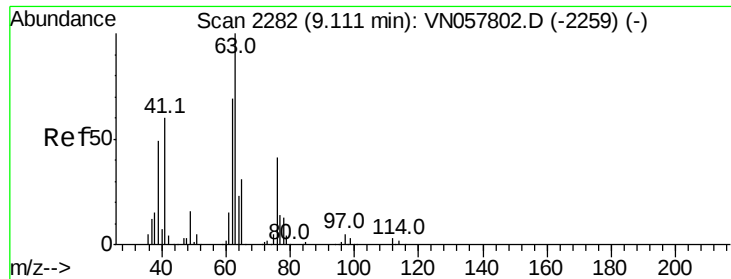
#43
Isopropyl Acetate
Concen: 12.036 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN058095.D
Acq: 15 Sep 2019 16:28

Tgt Ion: 43 Resp: 126425
Ion Ratio Lower Upper
43 100
61 14.3 20.1 30.1#
87 8.9 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.319 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.14 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

Instrument :

MSVOA_N

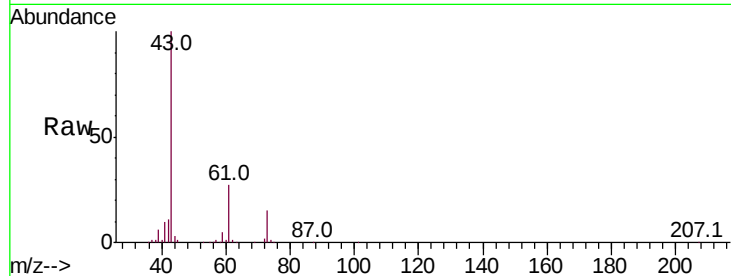
ClientSampleId :

Tot Ion: 63 Resp: 1688

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.26

1200

1000

800

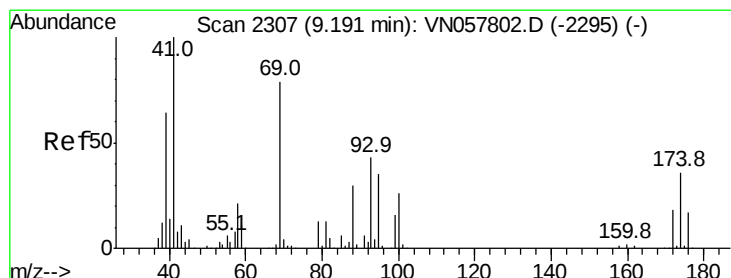
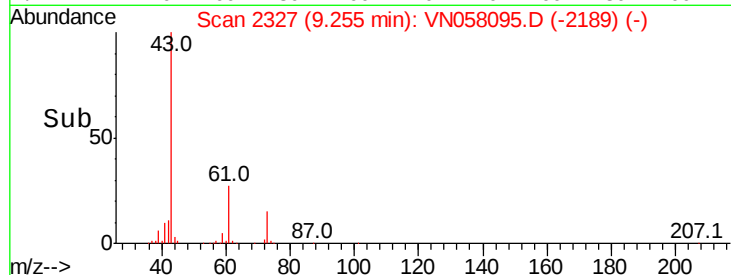
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.185 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

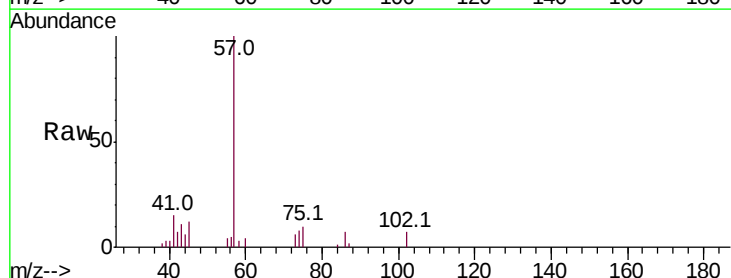
Tgt Ion: 41 Resp: 6313

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 0.0 52.7 79.1#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

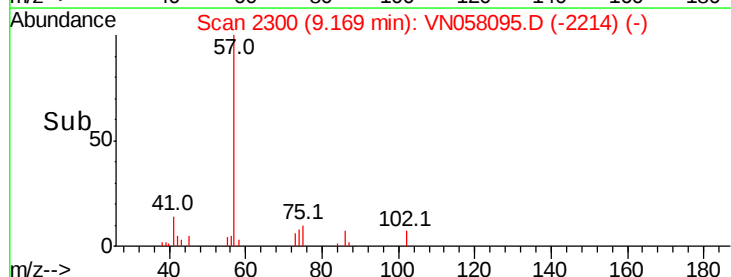
60000

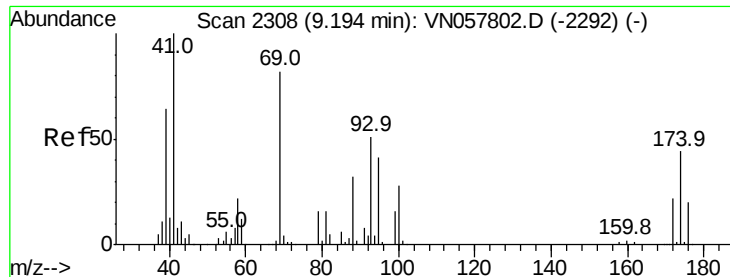
40000

20000

0

Time-->





#49

1,4-Dioxane

Concen: 0.322 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.07 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

Instrument :

MSVOA_N

ClientSampled :

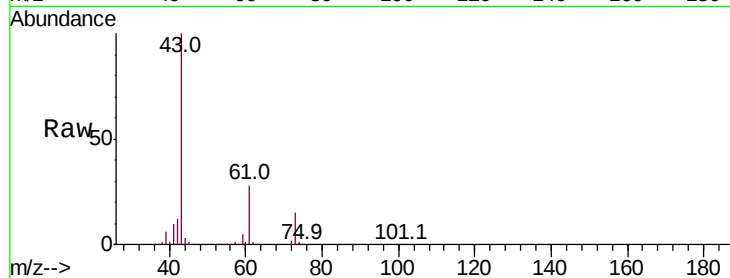
Tot Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 4224789.7 28.5 42.7#

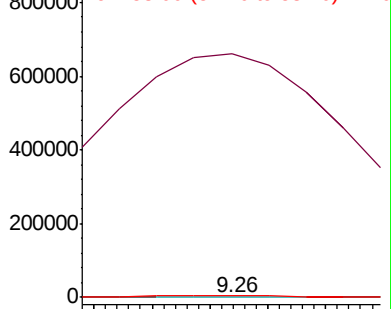
58 20613.8 55.8 83.6#



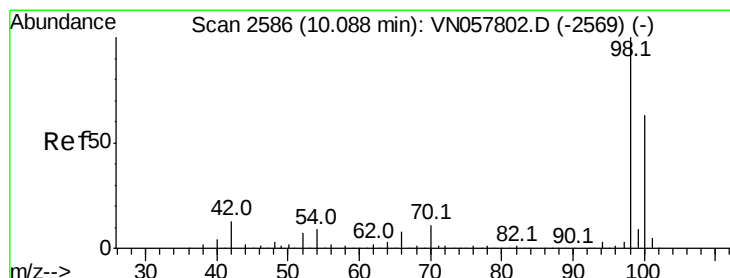
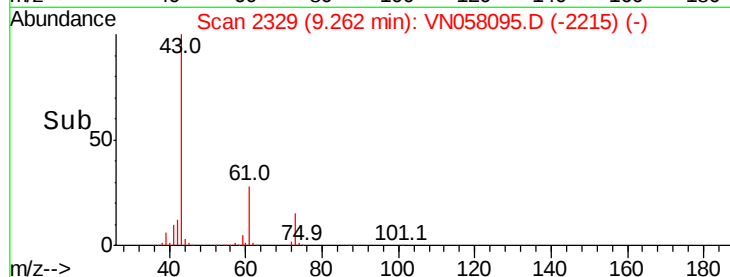
Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



Time-->



#50

Toluene-d8

Concen: 51.714 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058095.D

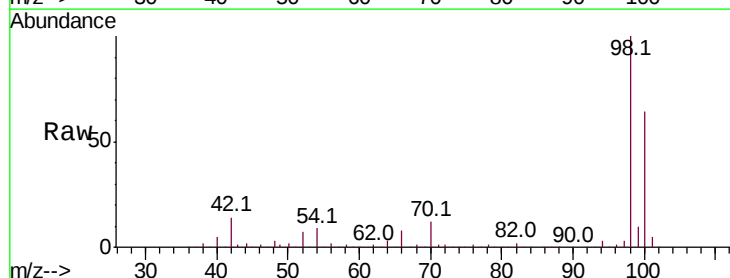
Acq: 15 Sep 2019 16:28

Tgt Ion: 98 Resp: 965971

Ion Ratio Lower Upper

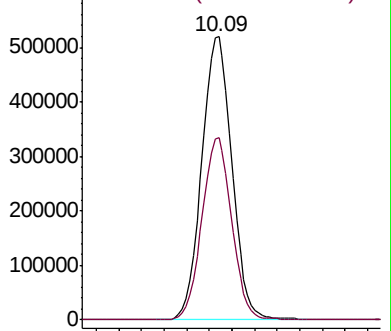
98 100

100 63.7 50.3 75.5

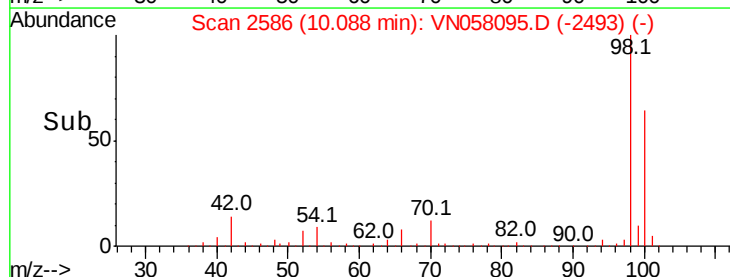


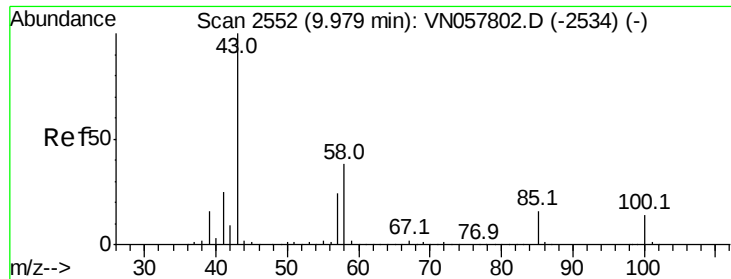
Abundance Ion 98.00 (97.70 to 98.70): VNO

Ion 100.00 (99.70 to 100.70): VNO



Time-->

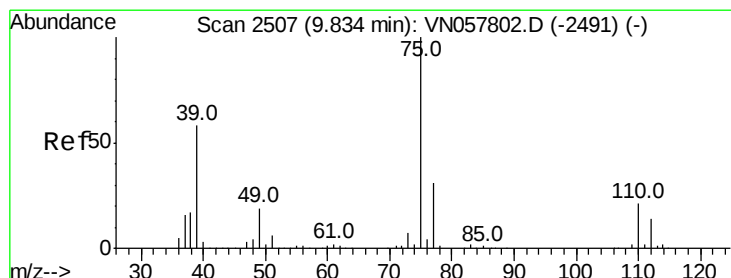
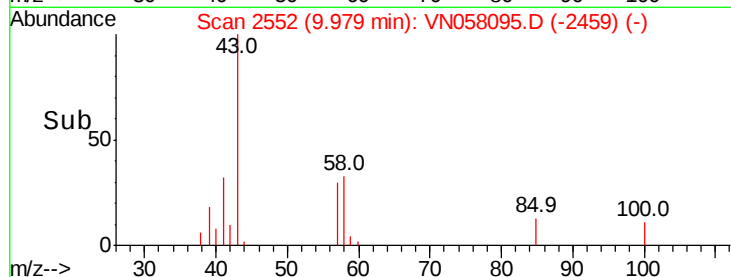
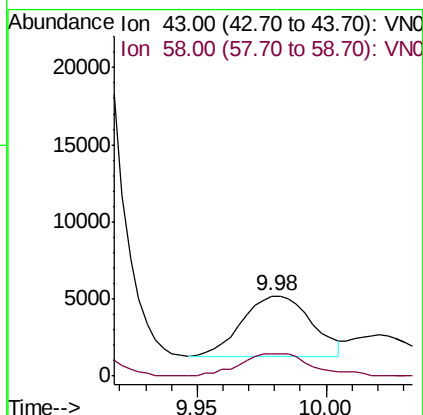
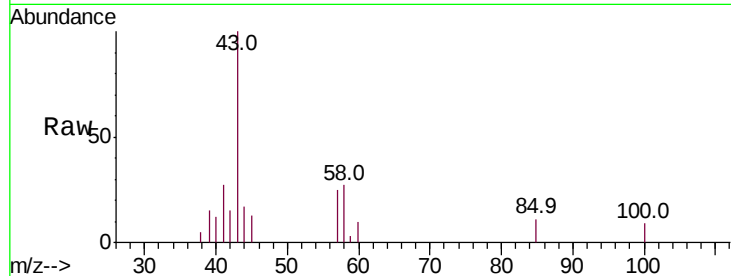




#51
 4-Methyl-2-Pentanone
 Concen: 1.161 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN058095.D
 Acq: 15 Sep 2019 16:28

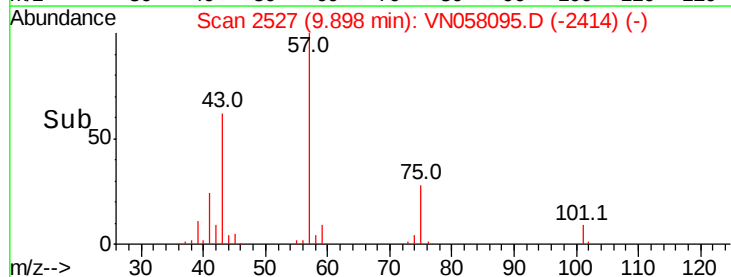
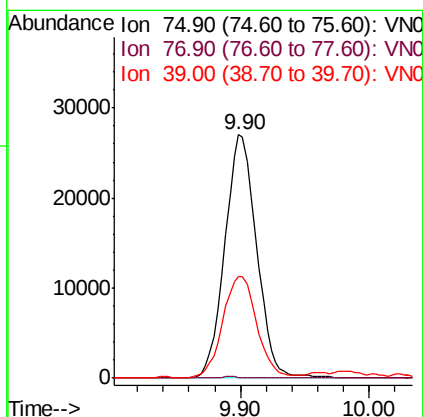
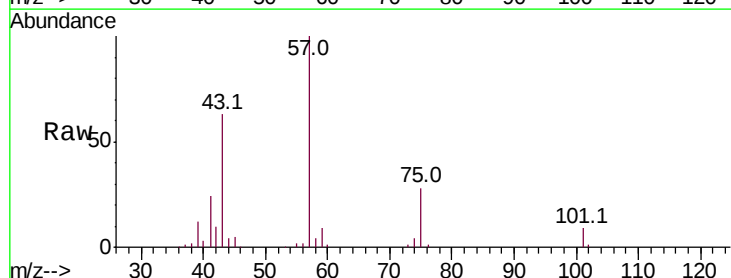
Instrument :
 MSVOA_N
 ClientSampled :

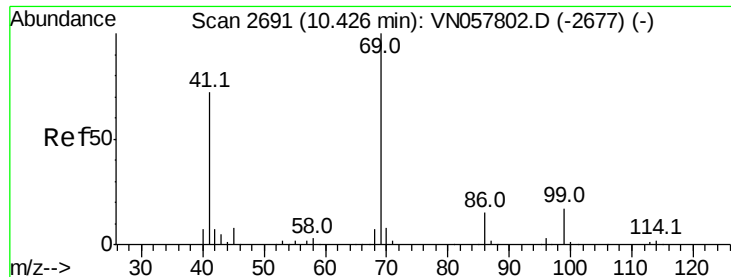
Tot Ion: 43 Resp: 7216
 Ion Ratio Lower Upper
 43 100
 58 38.8 29.8 44.6



#54
 cis-1,3-Dichloropropene
 Concen: 6.216 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN058095.D
 Acq: 15 Sep 2019 16:28

Tgt Ion: 75 Resp: 46187
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 41.9 46.2 69.4#





#56

Ethyl methacrylate

Concen: 0.313 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

Instrument :

MSVOA_N

ClientSampled :

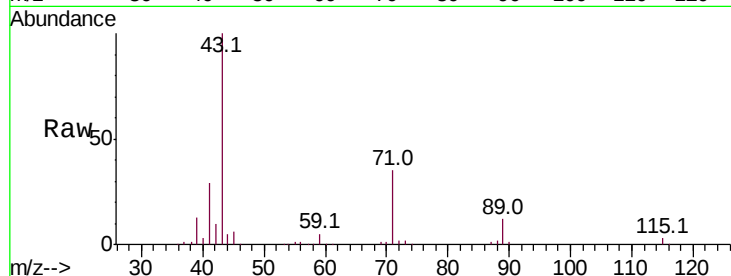
Tot Ion: 69 Resp: 2291

Ion Ratio Lower Upper

69 100

41 5415.6 56.7 85.1#

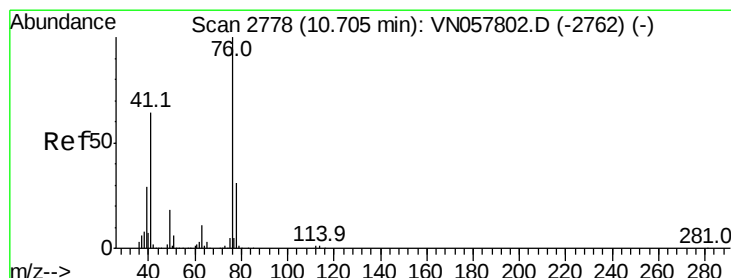
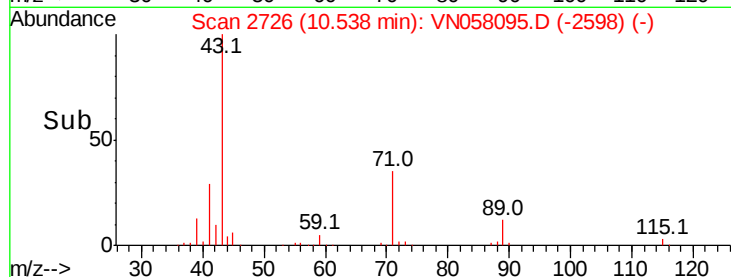
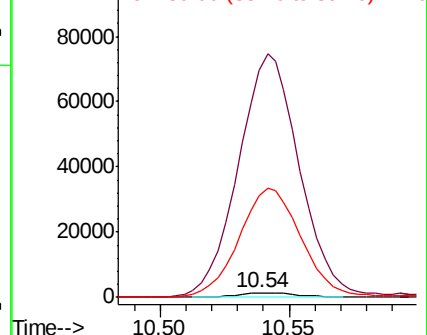
39 2475.7 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.668 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058095.D

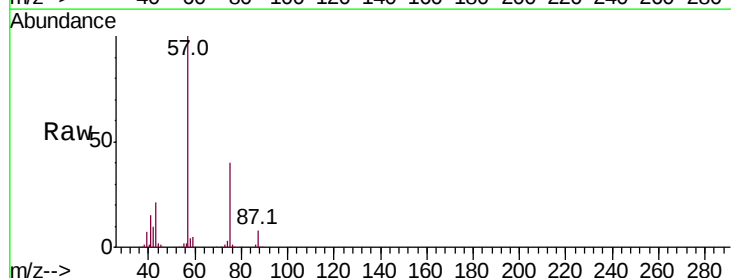
Acq: 15 Sep 2019 16:28

Tgt Ion: 76 Resp: 5590

Ion Ratio Lower Upper

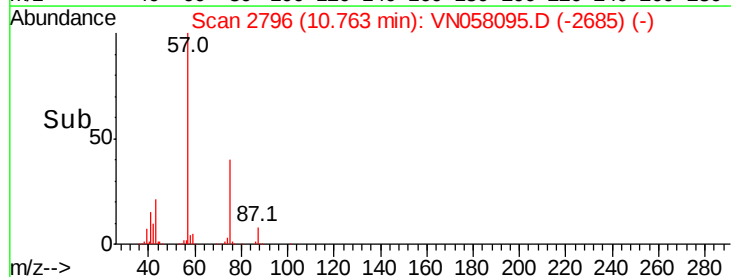
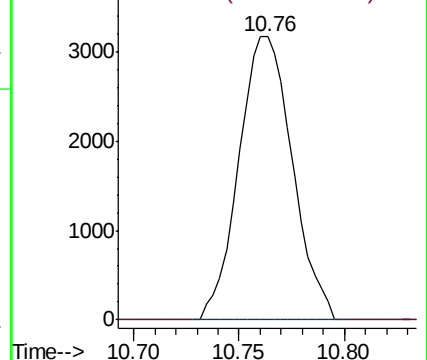
76 100

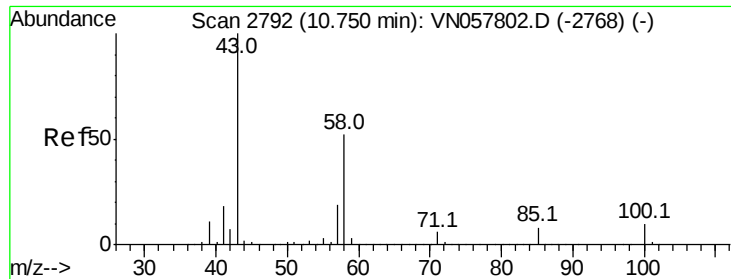
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 20.068 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

Instrument :

MSVOA_N

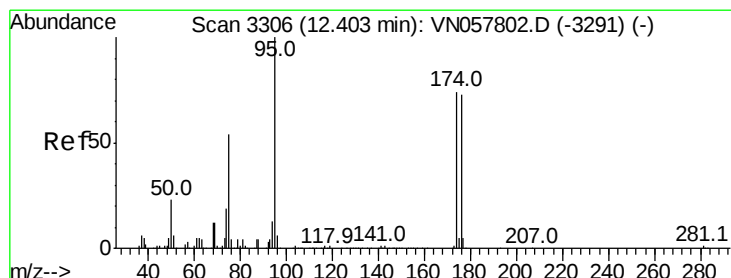
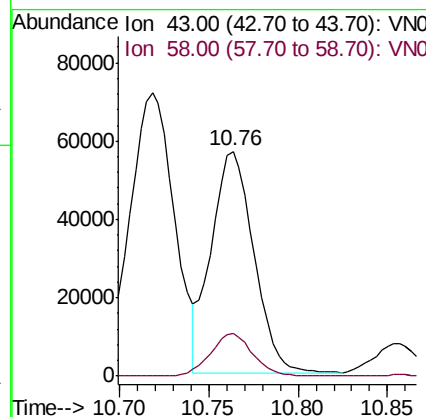
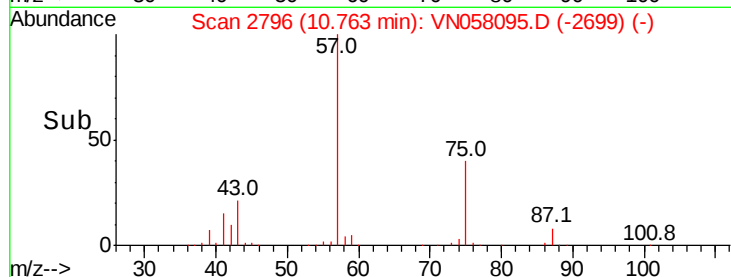
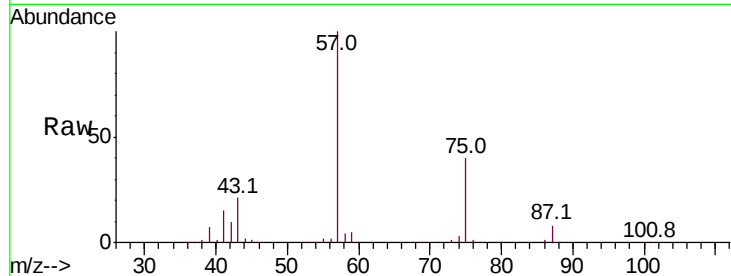
ClientSampled :

Tot Ion: 43 Resp: 93497

Ion Ratio Lower Upper

43 100

58 19.2 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 45.630 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

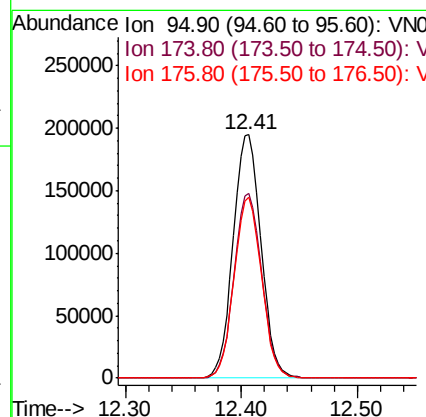
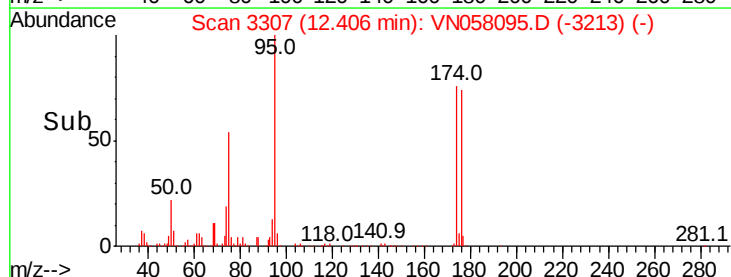
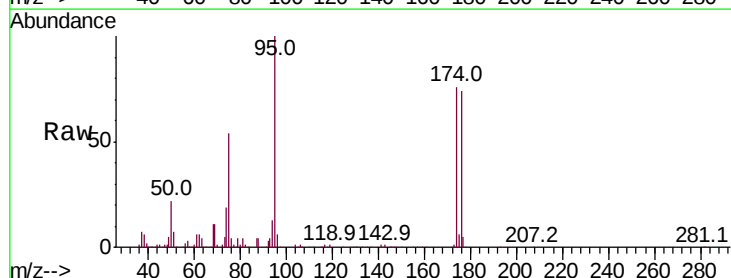
Tgt Ion: 95 Resp: 324815

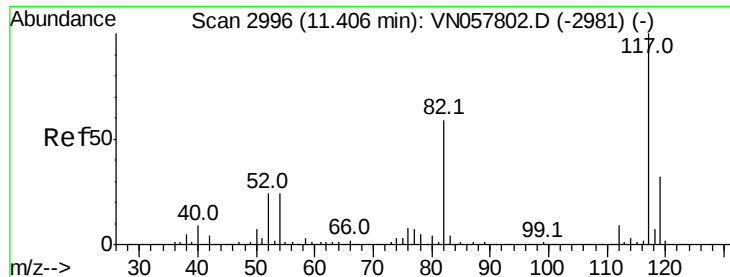
Ion Ratio Lower Upper

95 100

174 75.4 0.0 150.2

176 73.1 0.0 146.0

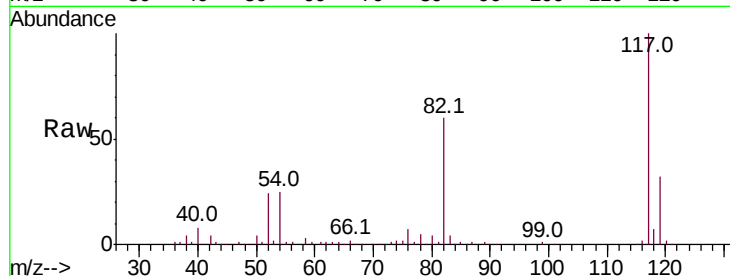




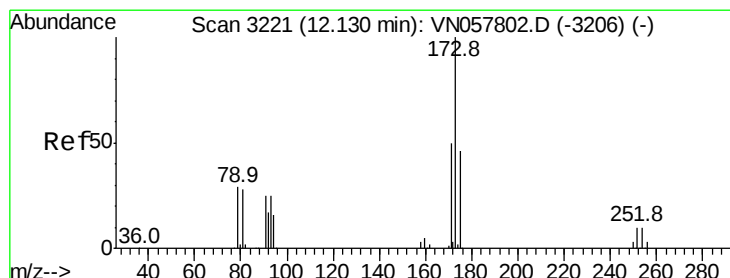
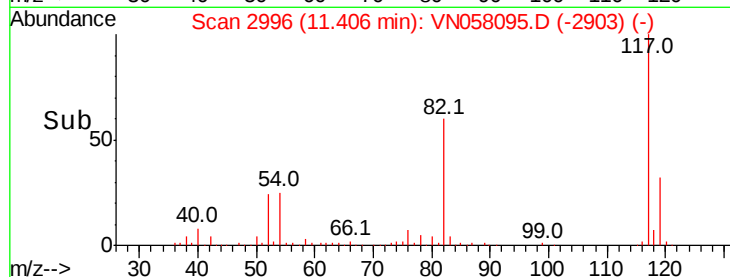
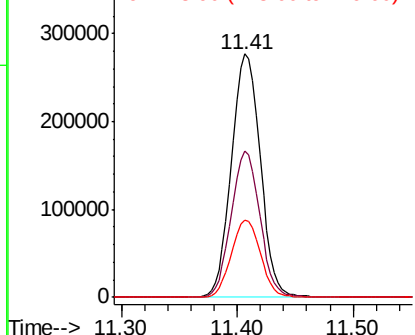
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058095.D
Acq: 15 Sep 2019 16:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 477781
Ion Ratio Lower Upper
117 100
82 60.0 47.2 70.8
119 31.7 25.3 37.9

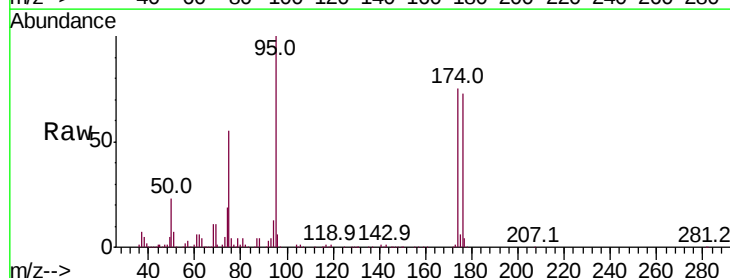


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

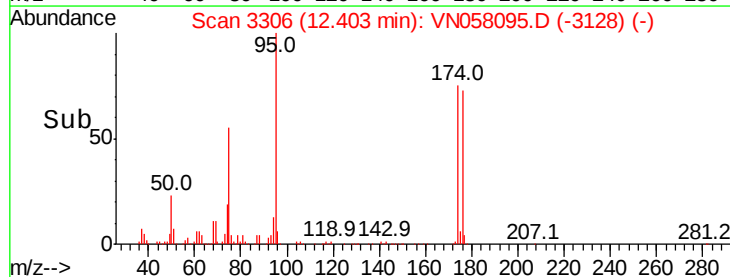
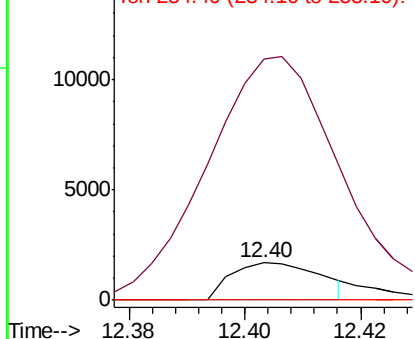


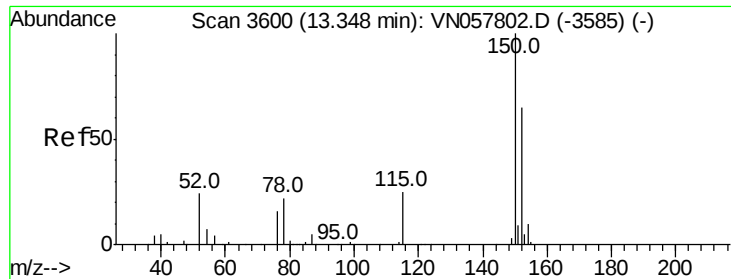
#71
Bromoform
Concen: 0.669 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058095.D
Acq: 15 Sep 2019 16:28

Tgt Ion:173 Resp: 1811
Ion Ratio Lower Upper
173 100
175 859.6 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: VN058095.D

Acq: 15 Sep 2019 16:28

Instrument :

MSVOA_N

ClientSampleId :

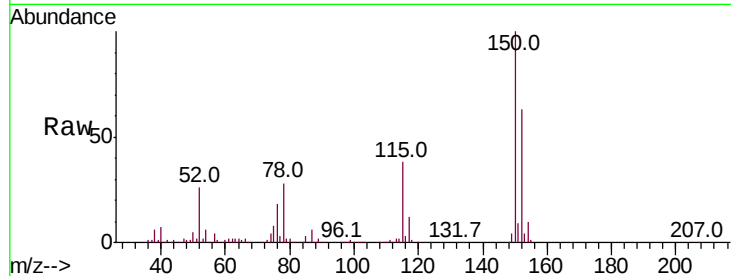
Tot Ion:152 Resp: 253511

Ion Ratio Lower Upper

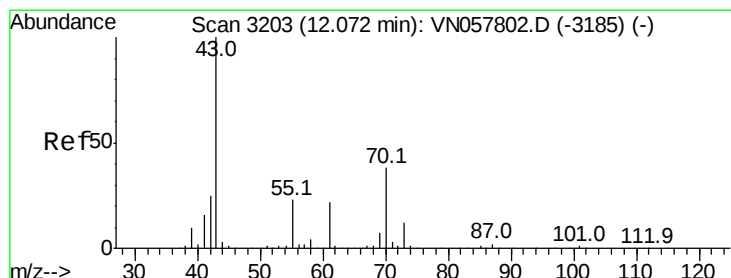
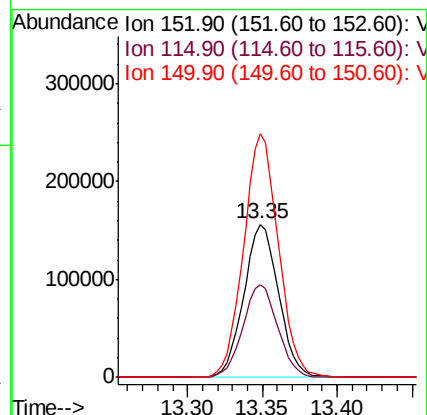
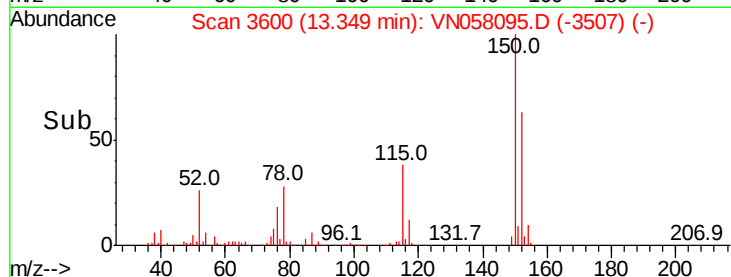
152 100

115 60.5 30.3 91.0

150 158.7 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: 0.426 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

Tgt Ion: 43 Resp: 3643

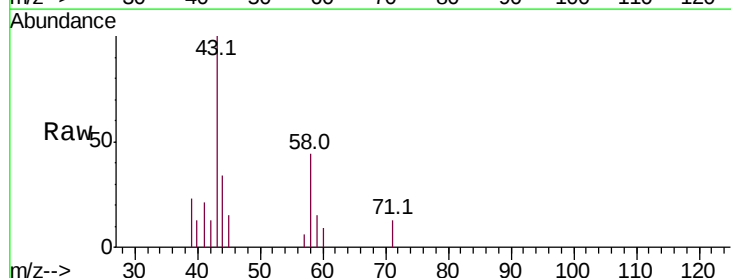
Ion Ratio Lower Upper

43 100

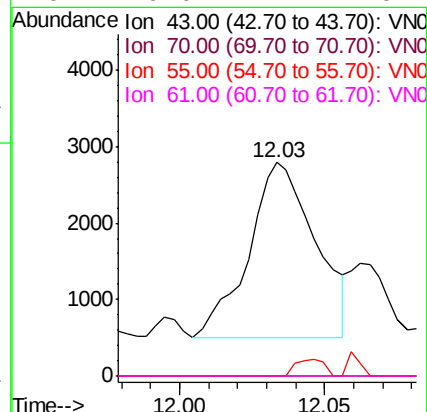
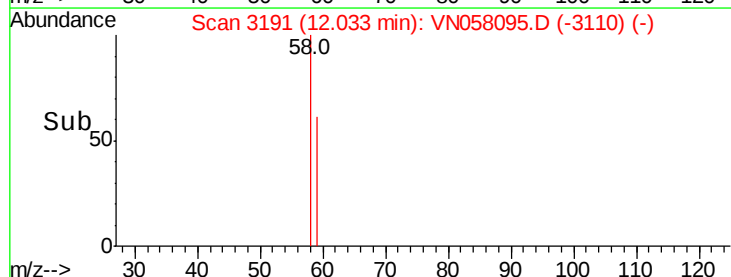
70 0.0 30.6 45.8#

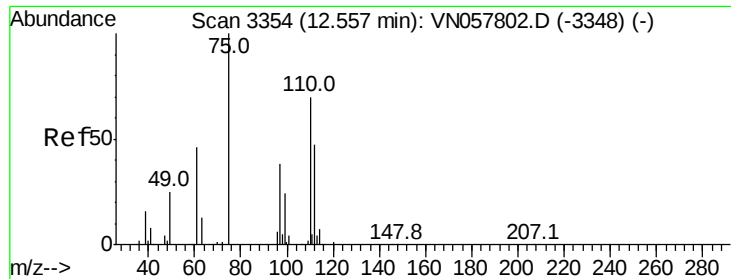
55 4.1 18.6 27.8#

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: 30.835 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

Instrument :

MSVOA_N

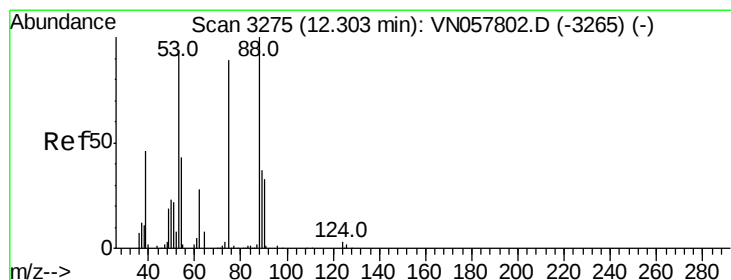
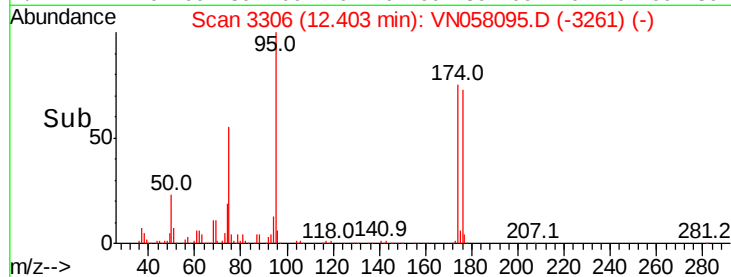
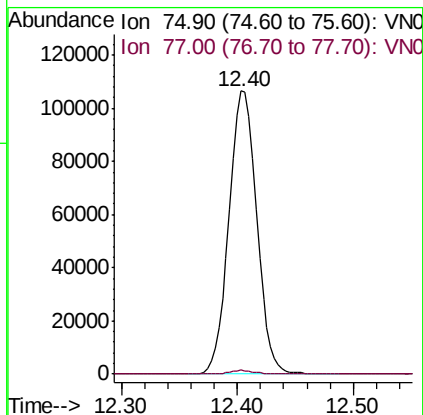
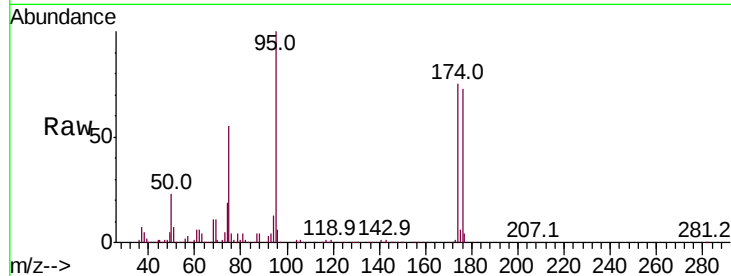
ClientSampleId :

Tot Ion: 75 Resp: 176837

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 108.511 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

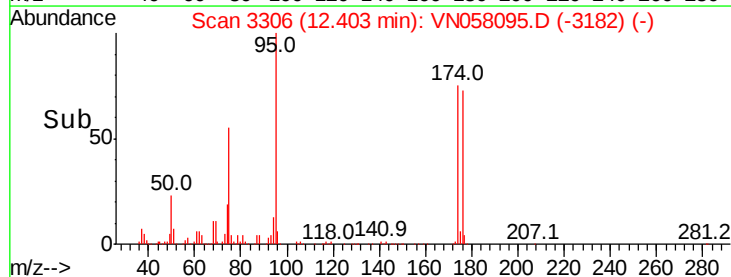
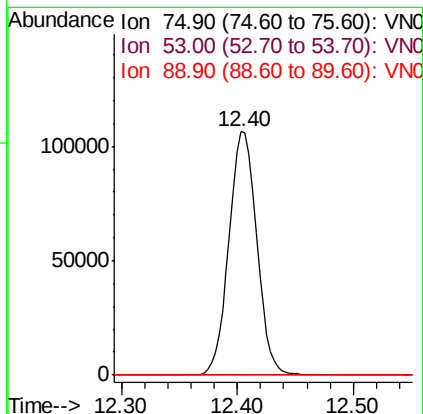
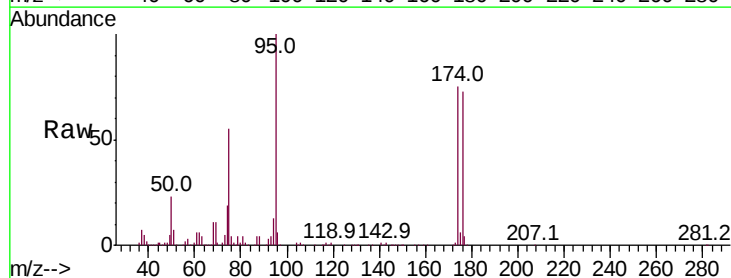
Tgt Ion: 75 Resp: 176837

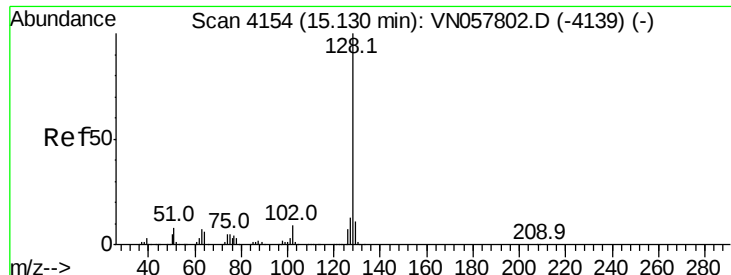
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058095.D

Acq: 15 Sep 2019 16:28

Instrument :

MSVOA_N

ClientSampleId :

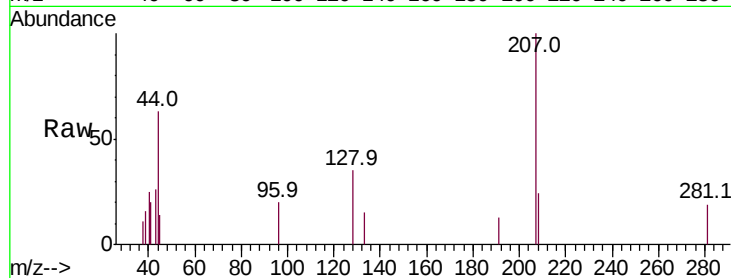
Tot Ion:128 Resp: 884

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

