

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021219\
 Data File : VN053734.D
 Acq On : 12 Feb 2019 16:54
 Operator : JC/SP
 Sample : K1459-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 M-11-S

Quant Time: Feb 13 04:16:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	731873	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1209383	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1112515	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	461184	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	393081	53.54	ug/l	0.00
Spiked Amount			Recovery	=	107.08%	
35) Dibromofluoromethane	7.59	113	383199	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
50) Toluene-d8	10.09	98	1453944	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
62) 4-Bromofluorobenzene	12.40	95	505174	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.55	41	3687	0.342	ug/l #	27
16) Acetone	3.82	43	19180	10.184	ug/l	97
18) Methyl Acetate	4.33	43	3801	0.682	ug/l #	66
20) Methylene Chloride	4.55	84	221052	27.977	ug/l	96
25) 2-Butanone	6.84	43	2391	0.890	ug/l #	86
29) Tetrahydrofuran	7.22	42	1212	0.703	ug/l #	72
31) Cyclohexane	7.67	56	10208	0.655	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	43752	4.013	ug/l #	48
38) Carbon Tetrachloride	7.67	117	58243	5.303	ug/l #	16
43) Isopropyl Acetate	8.17	43	45963	3.909	ug/l #	77
45) 1,2-Dichloropropane	9.27	63	1962	0.228	ug/l #	43
48) Methyl methacrylate	9.18	41	12570	2.239	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	11728	2.030	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	84556	6.612	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	15296	1.245	ug/l #	43
59) 2-Hexanone	10.76	43	197849	50.437	ug/l #	51
71) Bromoform	12.40	173	3426	0.606	ug/l #	1
74) N-amyl acetate	11.88	43	21640	2.776	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	232548	39.258	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6530	0.243	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.40	75	232548	110.390	ug/l #	15
95) Naphthalene	15.13	128	3369	1.897	ug/l #	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

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MSVOA_N

ClientSampled :

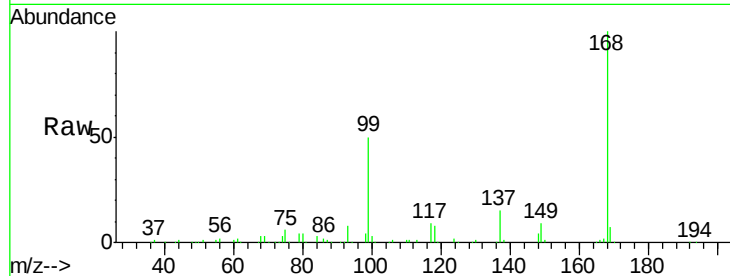
M-11-S

Tot Ion:168 Resp: 731873

Ion Ratio Lower Upper

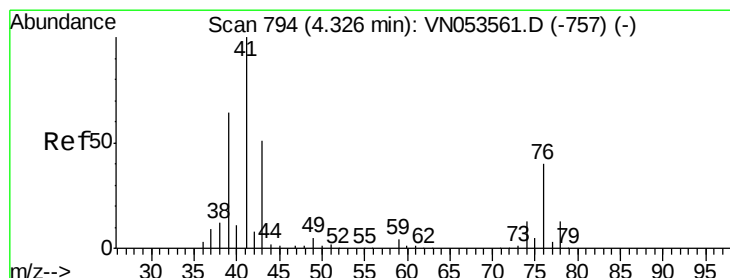
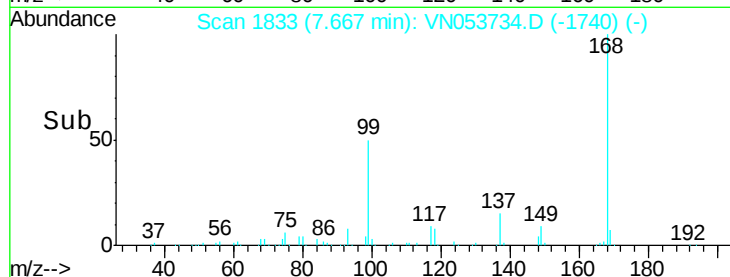
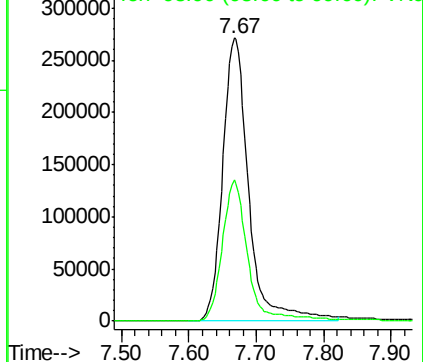
168 100

99 49.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#14

Allyl chloride

Concen: 0.342 ug/l

RT: 4.55 min Scan# 862

Delta R.T. 0.22 min

Lab File: VN053734.D

Acq: 12 Feb 2019 16:54

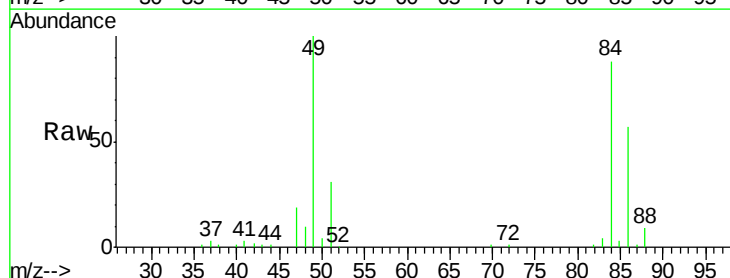
Tgt Ion: 41 Resp: 3687

Ion Ratio Lower Upper

41 100

39 0.0 48.9 73.3#

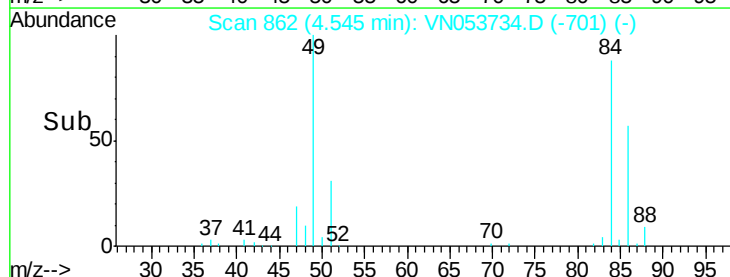
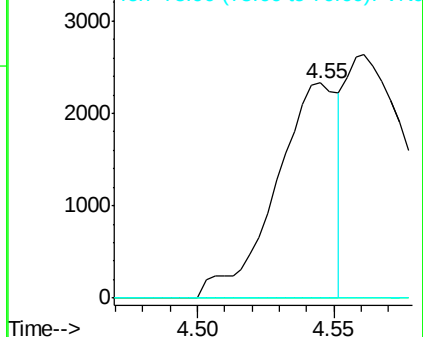
76 0.0 29.4 44.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#16

Acetone

Concen: 10.184 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053734.D

Acq: 12 Feb 2019 16:54

Instrument :

MSVOA_N

ClientSampled :

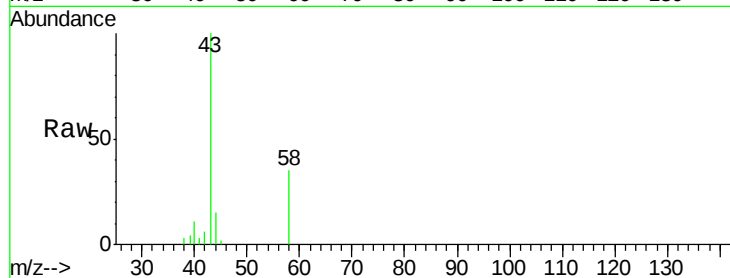
M-11-S

Tot Ion: 43 Resp: 19180

Ion Ratio Lower Upper

43 100

58 35.4 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053734.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053734.D (-542) (-)

3.82

6000

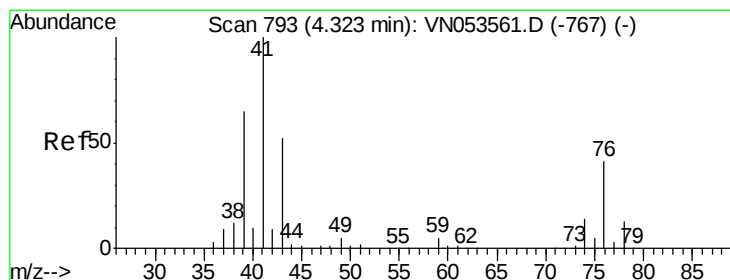
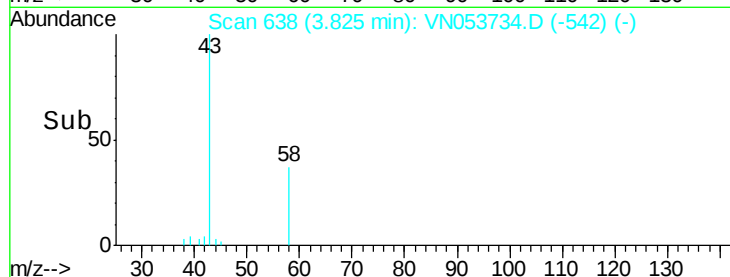
4000

2000

0

Time-->

3.70 3.80 3.90



#18

Methyl Acetate

Concen: 0.682 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN053734.D

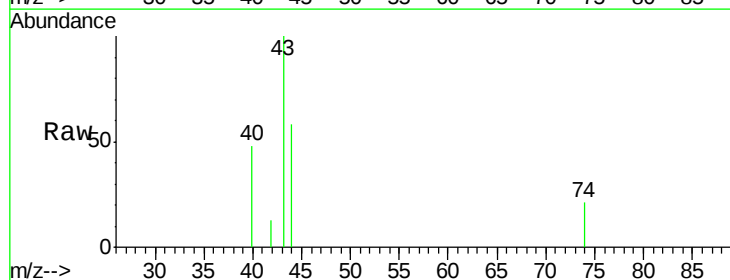
Acq: 12 Feb 2019 16:54

Tgt Ion: 43 Resp: 3801

Ion Ratio Lower Upper

43 100

74 7.3 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053734.D (-700) (-)

Ion 74.00 (73.70 to 74.70): VN053734.D (-700) (-)

4.33

1500

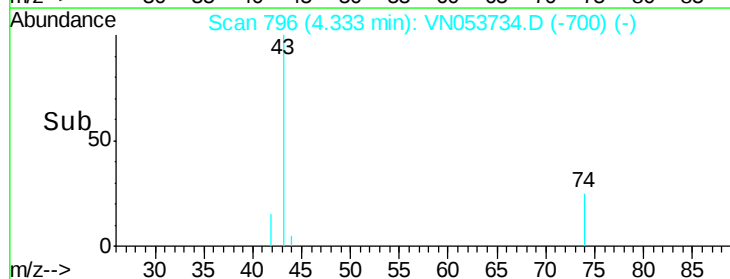
1000

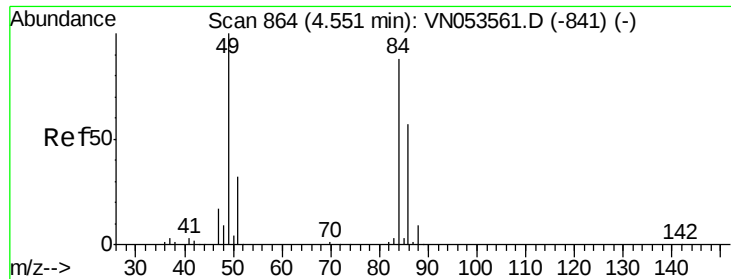
500

0

Time-->

4.25 4.30 4.35 4.40

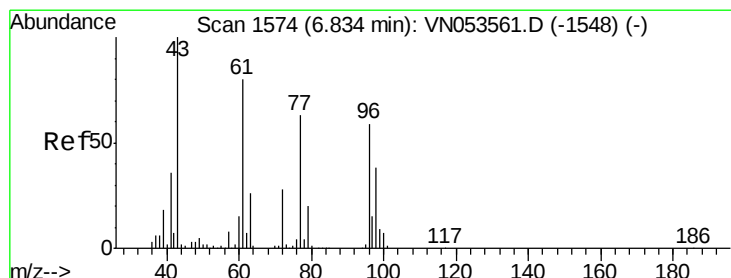
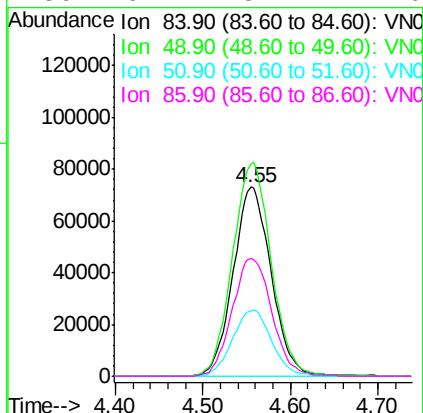
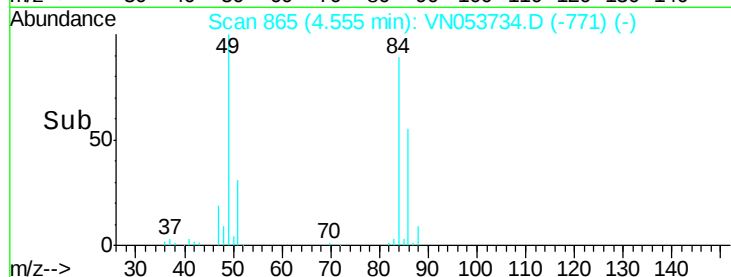
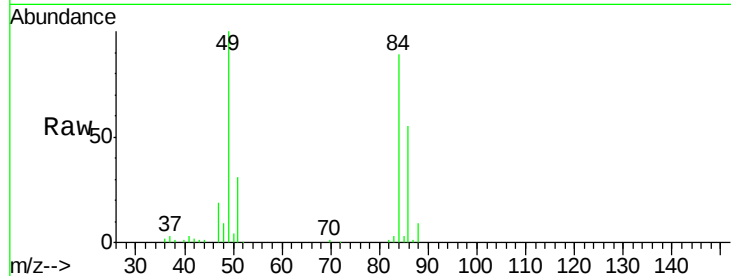




#20
Methvlene Chloride
Concen: 27.977 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053734.D
Acq: 12 Feb 2019 16:54

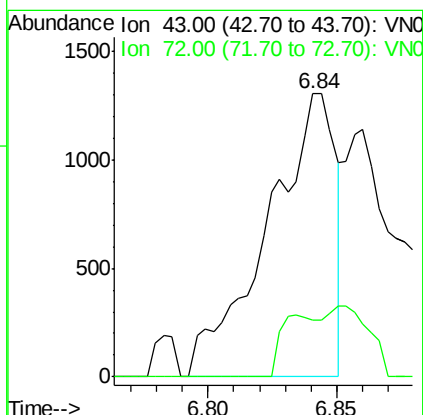
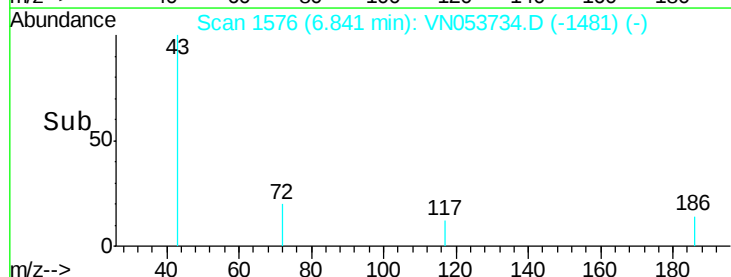
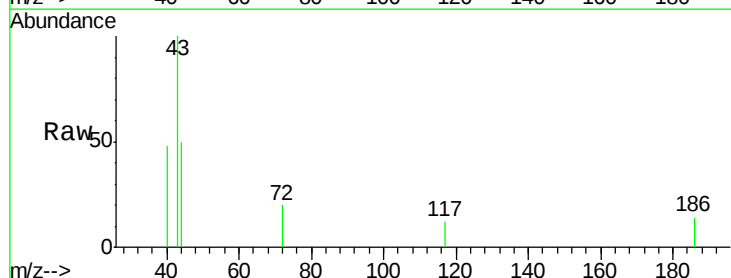
Instrument :
MSVOA_N
ClientSampled :
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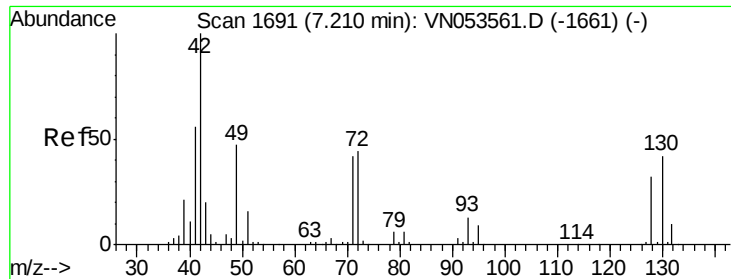
Tot Ion:	84	Resp:	221052
Ion	Ratio	Lower	Upper
84	100		
49	112.2	94.3	141.5
51	34.8	29.4	44.2
86	62.1	51.4	77.0



#25
2-Butanone
Concen: 0.890 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053734.D
Acq: 12 Feb 2019 16:54

Tgt Ion:	43	Resp:	2391
Ion	Ratio	Lower	Upper
43	100		
72	20.3	22.0	33.0#

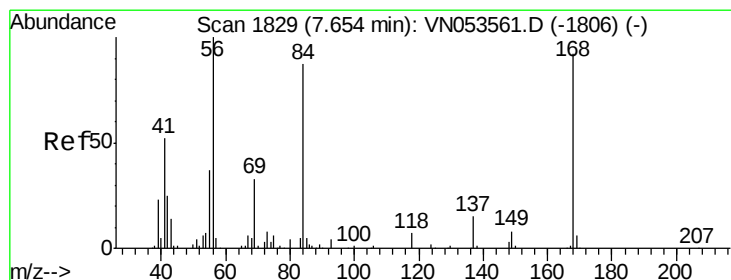
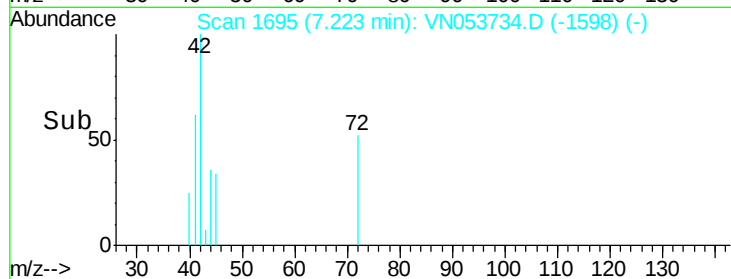
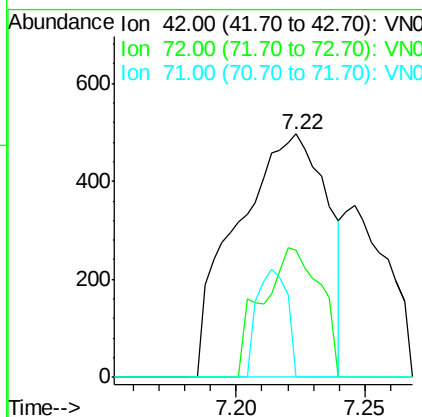
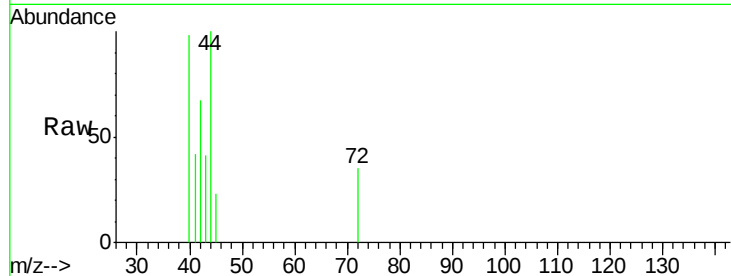




#29
Tetrahydrofuran
Concen: 0.703 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN053734.D
Acq: 12 Feb 2019 16:54

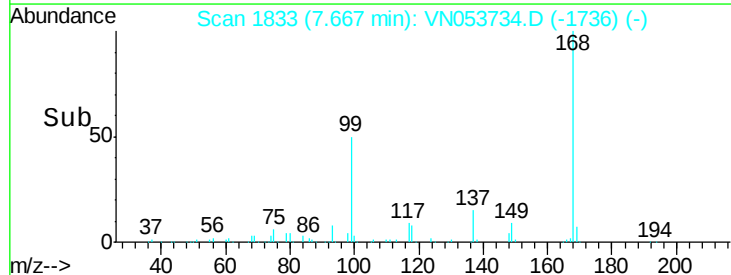
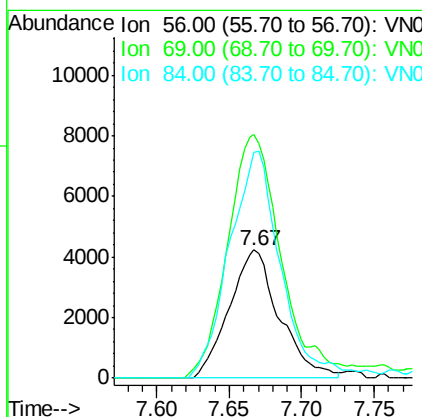
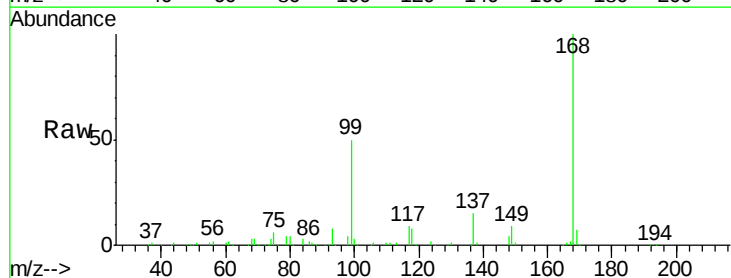
Instrument :
MSVOA_N
ClientSampleId :
M-11-S

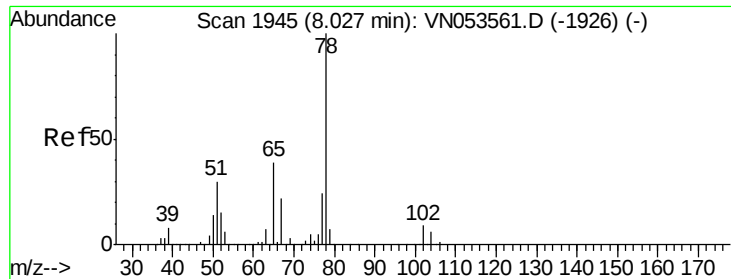
Tot Ion: 42 Resp: 1212
Ion Ratio Lower Upper
42 100
72 34.2 35.2 52.8#
71 15.0 33.0 49.4#



#31
Cyclohexane
Concen: 0.655 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN053734.D
Acq: 12 Feb 2019 16:54

Tgt Ion: 56 Resp: 10208
Ion Ratio Lower Upper
56 100
69 186.2 26.4 39.6#
84 176.0 67.9 101.9#

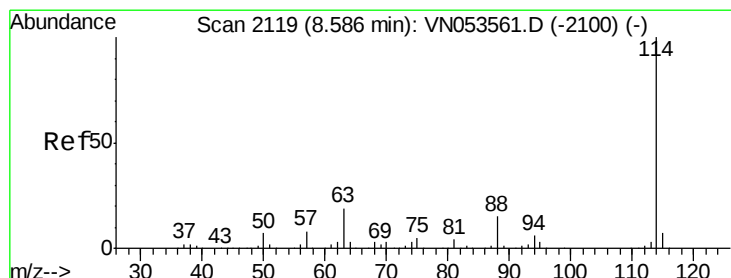
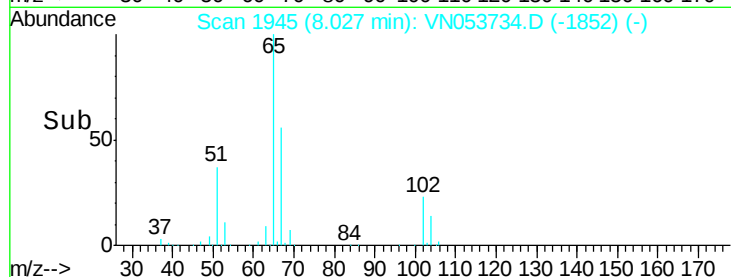
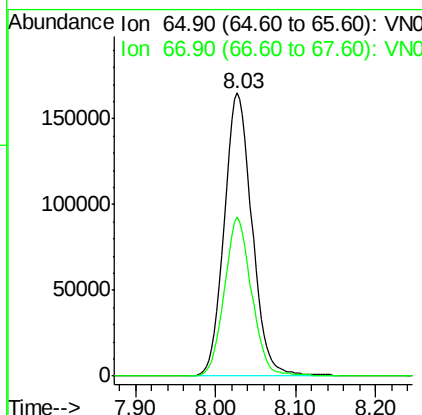
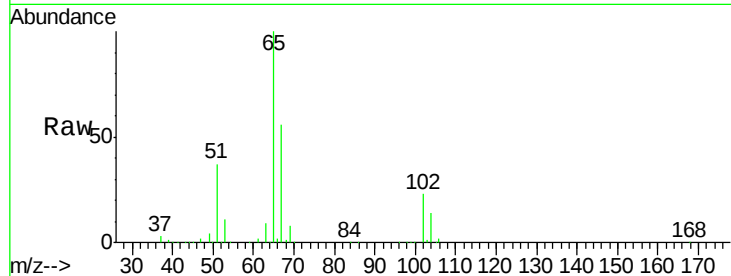




#33
 1,2-Dichloroethane-d4
 Concen: 53.538 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053734.D
 Acq: 12 Feb 2019 16:54

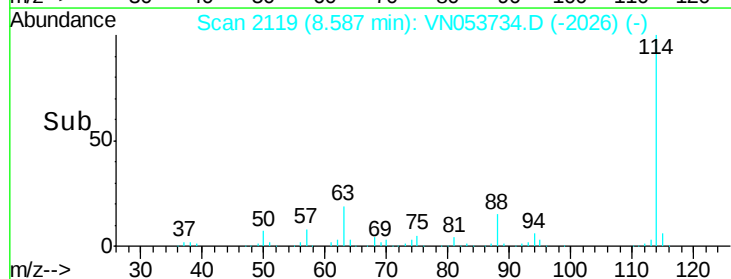
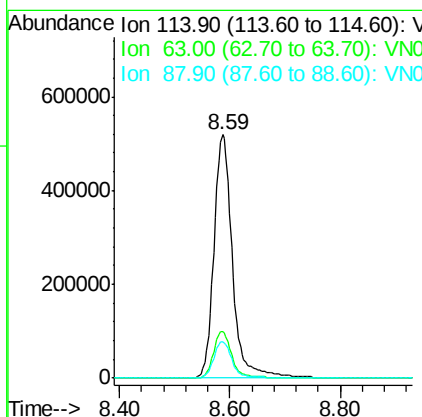
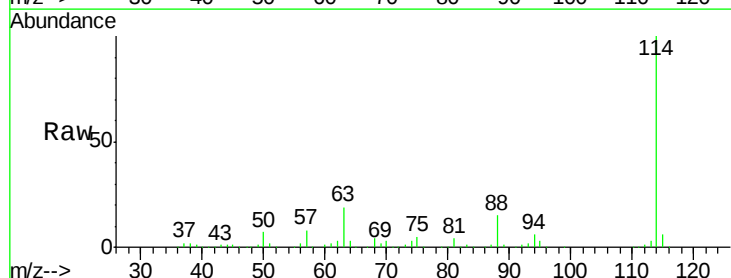
Instrument :
 MSVOA_N
 ClientSampleId :
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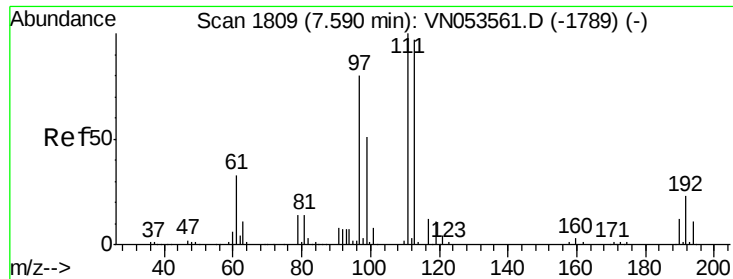
Tot Ion: 65 Resp: 393081
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053734.D
 Acq: 12 Feb 2019 16:54

Tgt Ion: 114 Resp: 1209383
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.6
 88 15.0 0.0 30.4

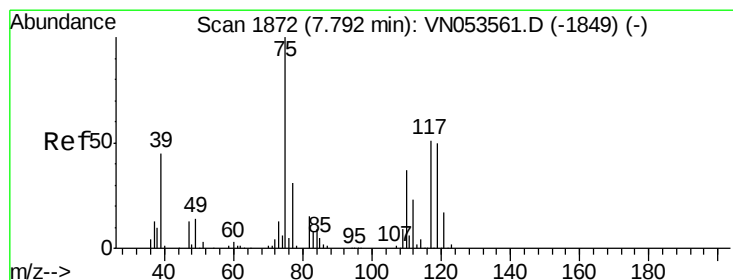
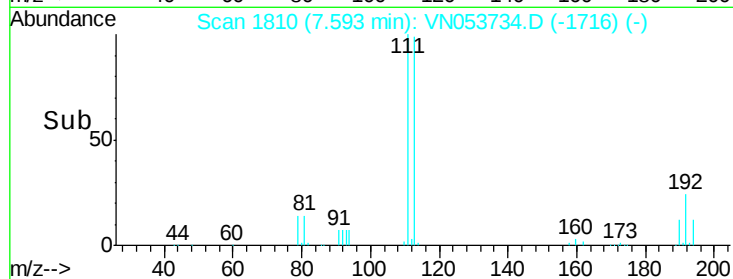
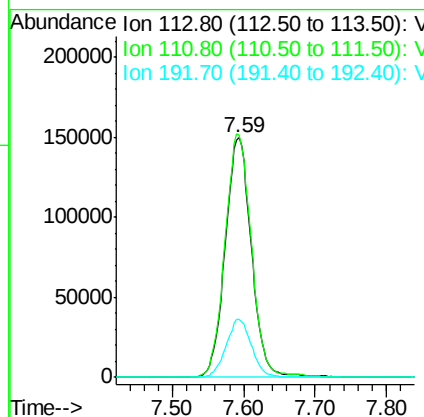
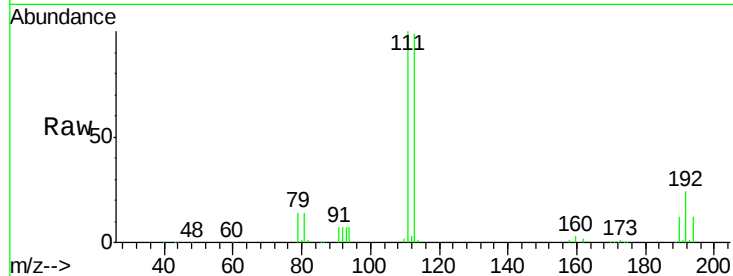




#35
 Dibromofluoromethane
 Concen: 50.146 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053734.D
 Acq: 12 Feb 2019 16:54

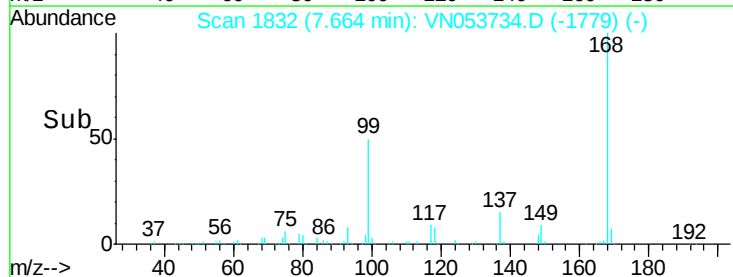
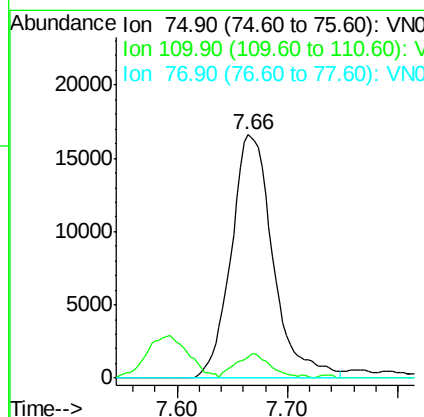
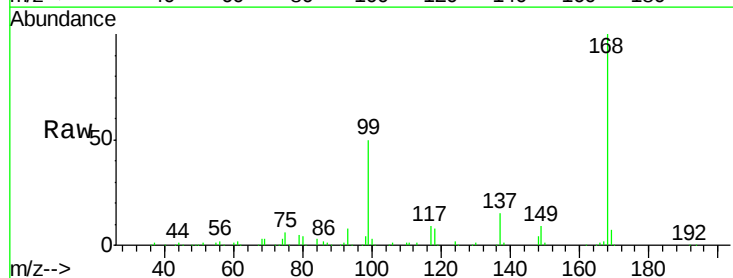
Instrument :
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 ClientSampleId :
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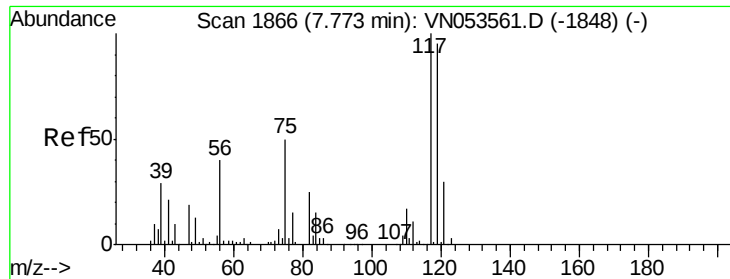
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.1	121.7
192	23.6	18.2	27.2



#36
 1,1-Dichloropropene
 Concen: 4.013 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053734.D
 Acq: 12 Feb 2019 16:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.3#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 5.303 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053734.D

Acq: 12 Feb 2019 16:54

Instrument :

MSVOA_N

ClientSampled :

M-11-S

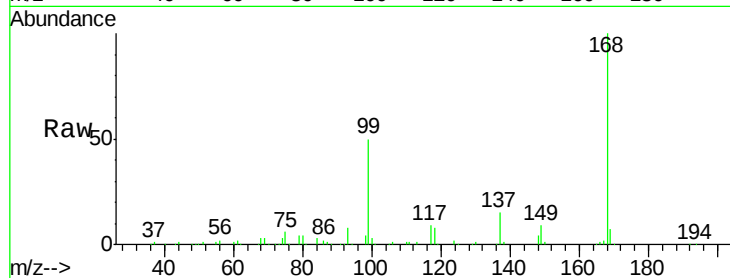
Tot Ion:117 Resp: 58243

Ion Ratio Lower Upper

117 100

119 5.0 77.2 115.8#

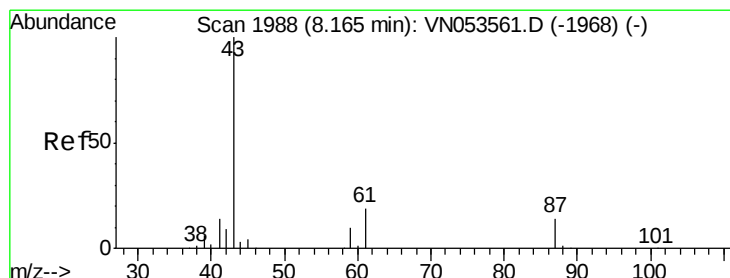
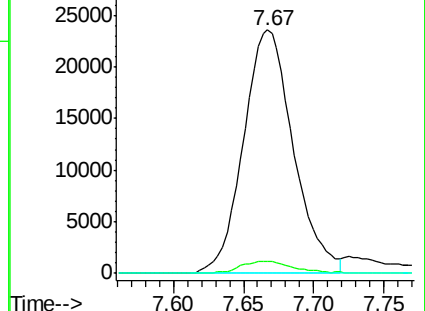
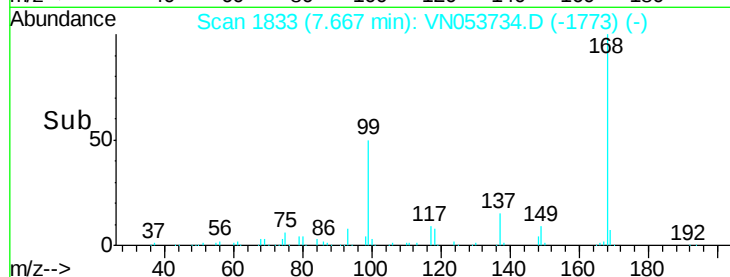
121 0.0 24.6 37.0#



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: 3.909 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053734.D

Acq: 12 Feb 2019 16:54

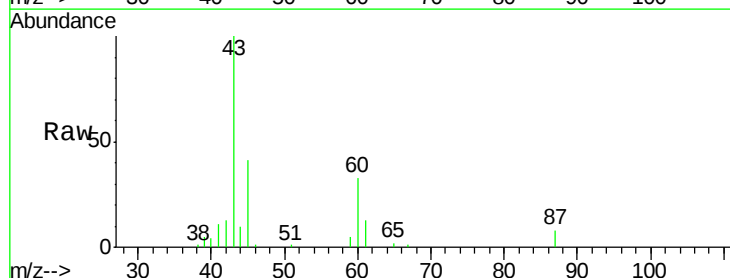
Tgt Ion: 43 Resp: 45963

Ion Ratio Lower Upper

43 100

61 14.8 23.9 35.9#

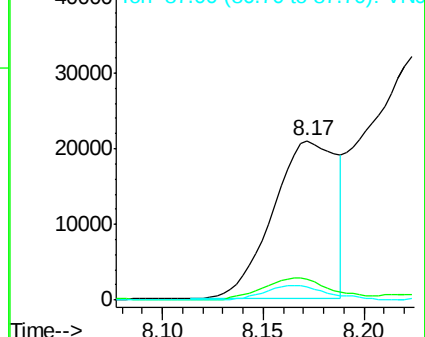
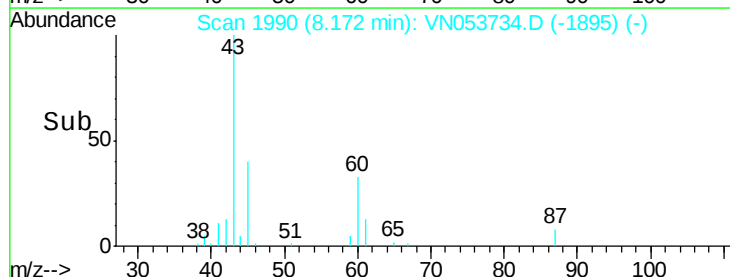
87 8.9 11.0 16.6#

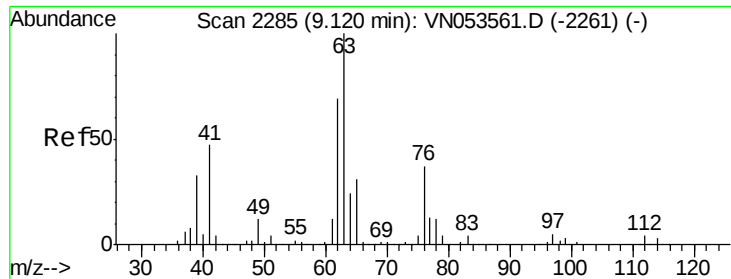


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

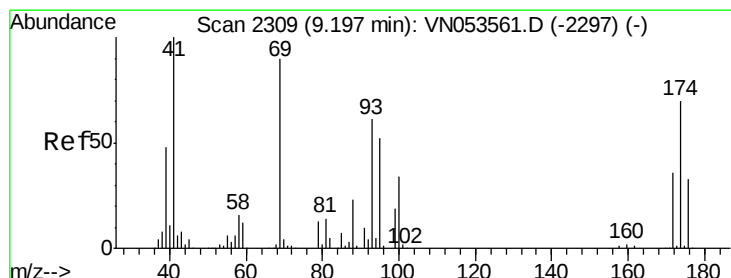
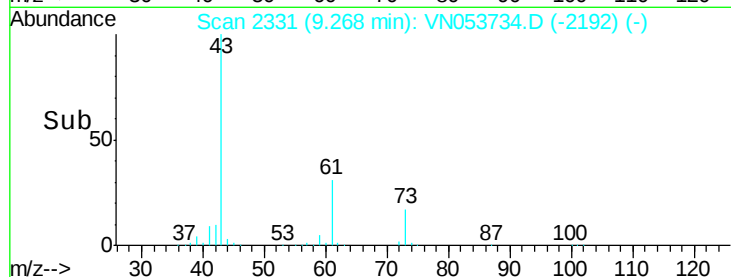
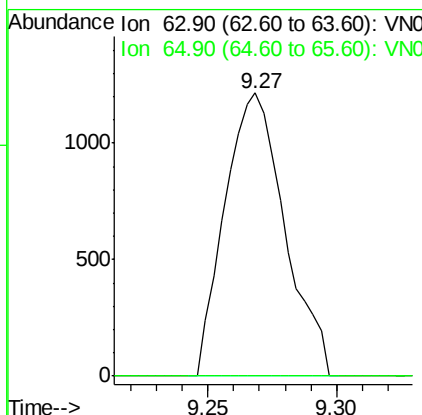
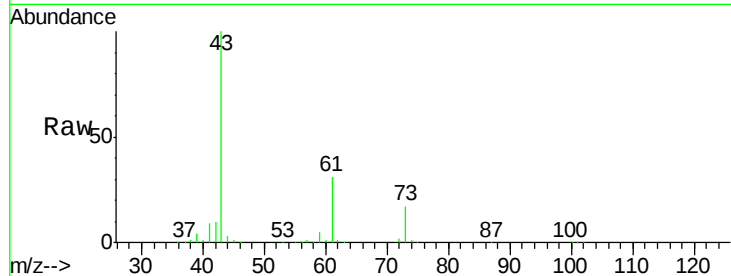




#45
 1,2-Dichloropropane
 Concen: 0.228 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053734.D
 Acq: 12 Feb 2019 16:54

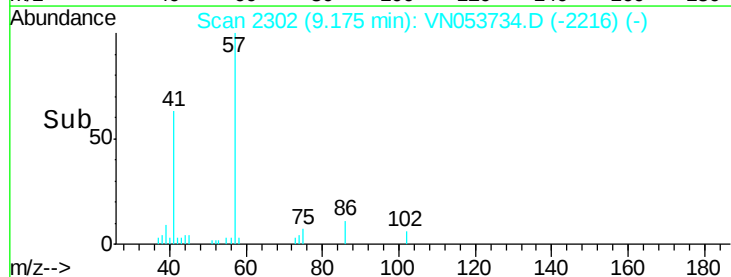
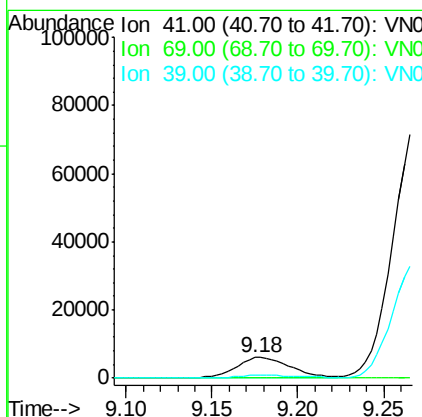
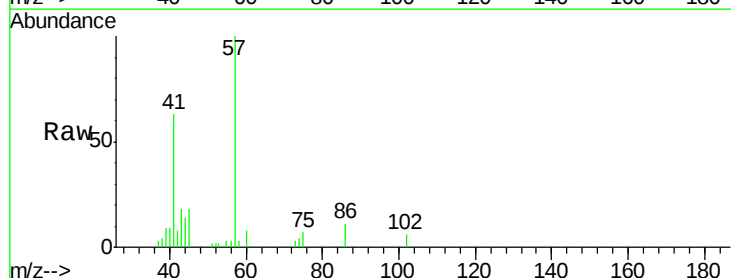
Instrument :
 MSVOA_N
 ClientSampled :
 M-11-S

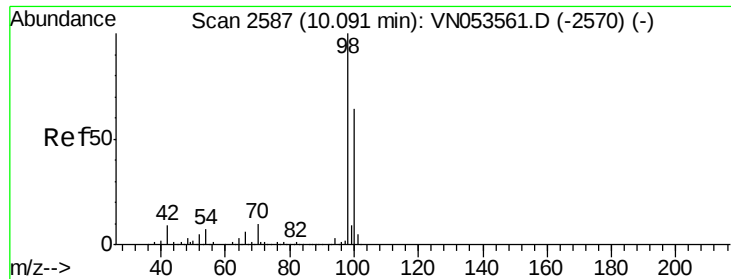
Tot Ion: 63 Resp: 1962
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 2.239 ug/l
 RT: 9.18 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN053734.D
 Acq: 12 Feb 2019 16:54

Tgt Ion: 41 Resp: 12570
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#

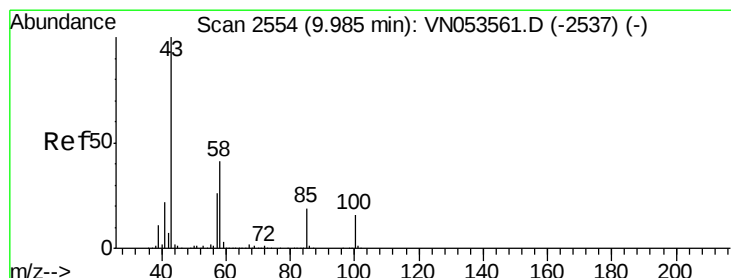
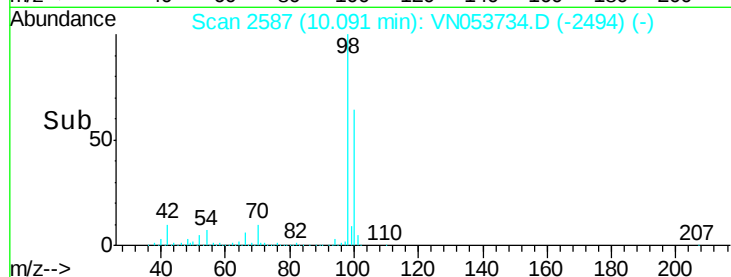
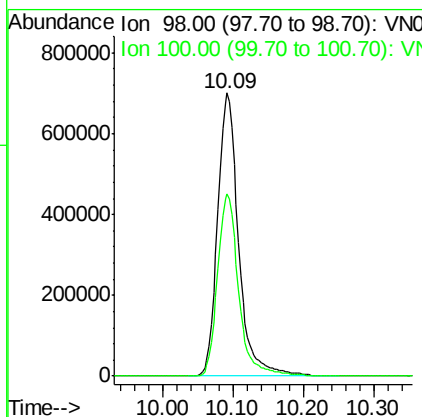
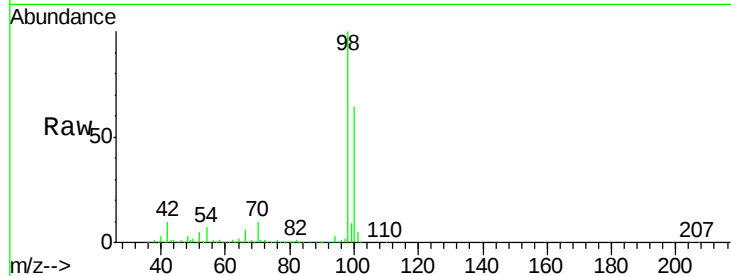




#50
Toluene-d8
Concen: 50.672 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053734.D
Acq: 12 Feb 2019 16:54

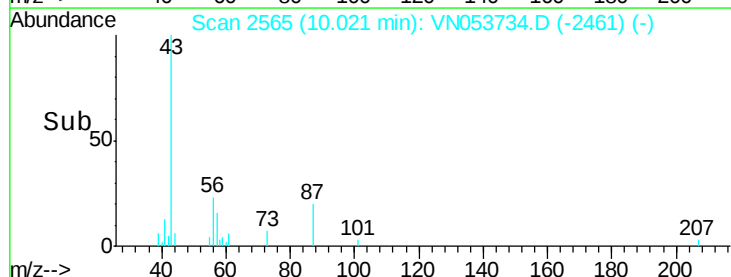
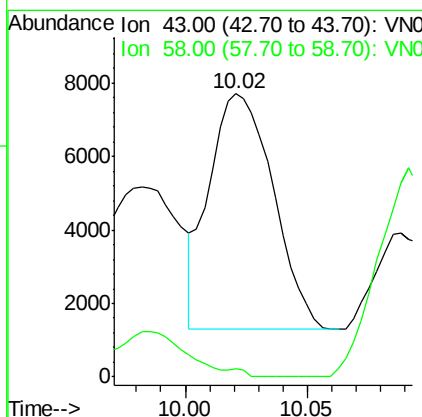
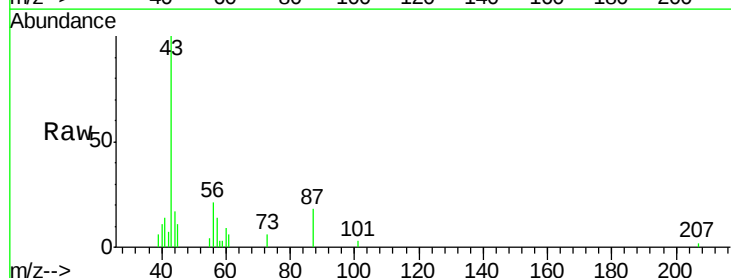
Instrument :
MSVOA_N
ClientSampled :
M-11-S

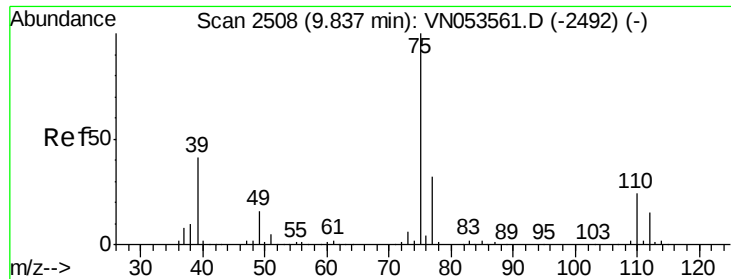
Tot Ion: 98 Resp: 1453944
Ion Ratio Lower Upper
98 100
100 64.7 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 2.030 ug/l
RT: 10.02 min Scan# 2565
Delta R.T. 0.04 min
Lab File: VN053734.D
Acq: 12 Feb 2019 16:54

Tgt Ion: 43 Resp: 11728
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#



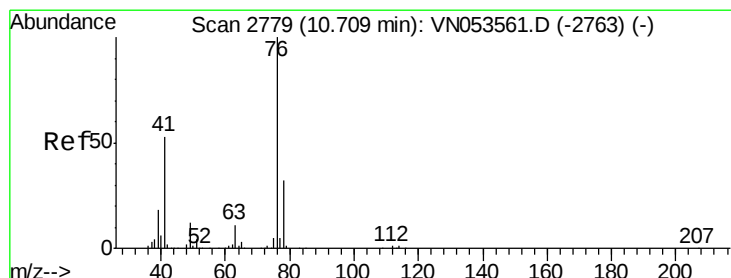
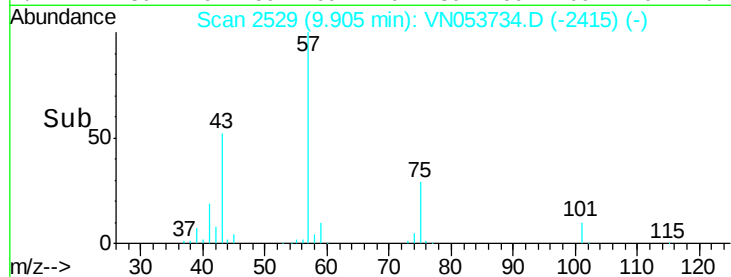
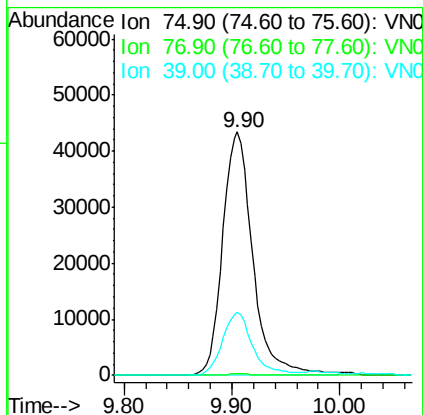
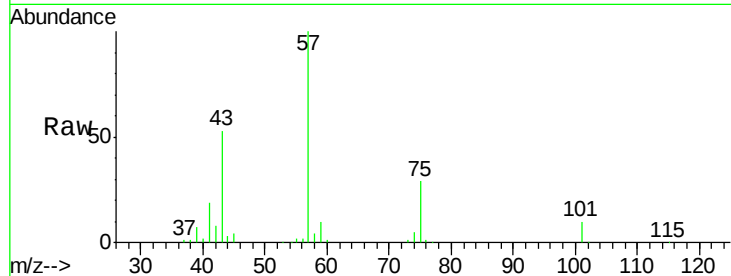


#54

cis-1,3-Dichloropropene
 Concen: 6.612 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053734.D
 Acq: 12 Feb 2019 16:54

Instrument :
 MSVOA_N
 ClientSampled :
 M-11-S

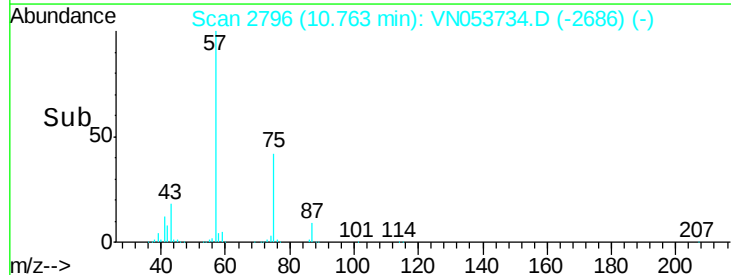
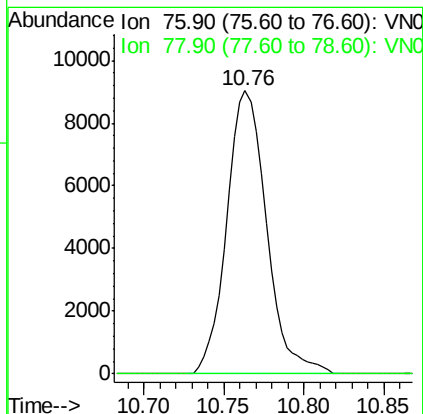
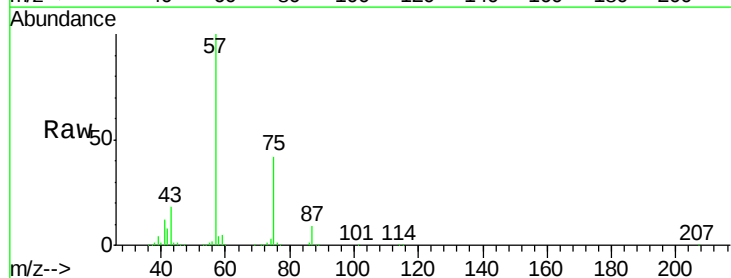
Tot Ion: 75 Resp: 84556
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 25.9 33.4 50.0#

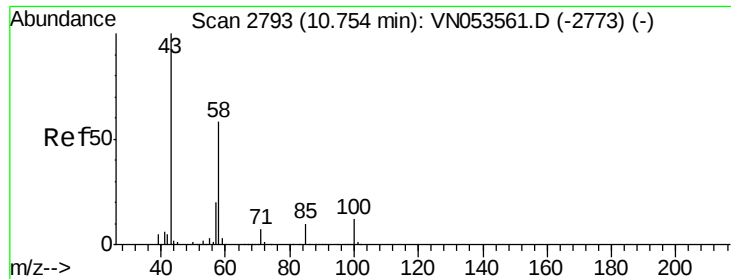


#57

1,3-Dichloropropane
 Concen: 1.245 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053734.D
 Acq: 12 Feb 2019 16:54

Tgt Ion: 76 Resp: 15296
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#





#59

2-Hexanone

Concen: 50.437 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053734.D

Acq: 12 Feb 2019 16:54

Instrument :

MSVOA_N

ClientSampled :

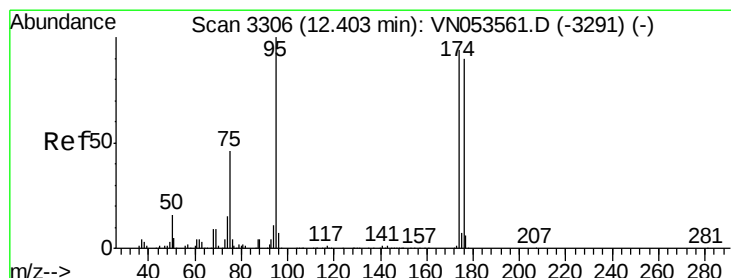
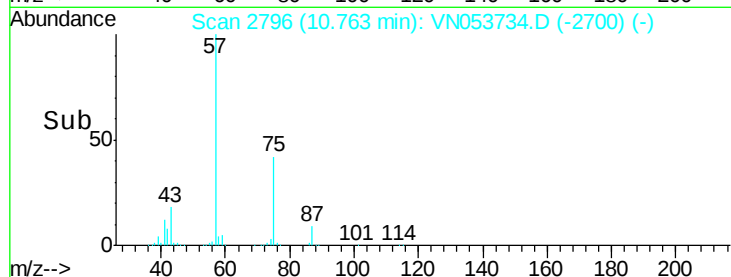
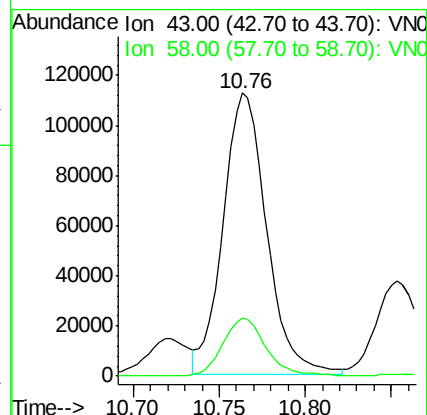
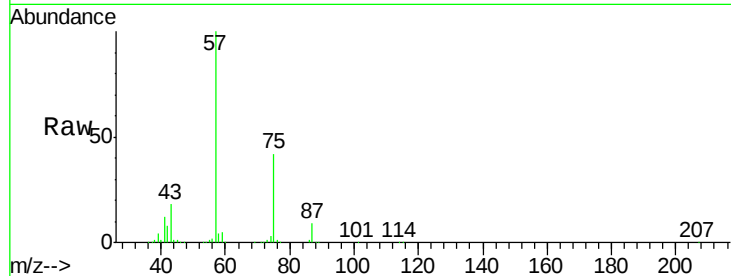
M-11-S

Tot Ion: 43 Resp: 197849

Ion Ratio Lower Upper

43 100

58 20.7 28.6 85.8#



#62

4-Bromofluorobenzene

Concen: 52.789 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053734.D

Acq: 12 Feb 2019 16:54

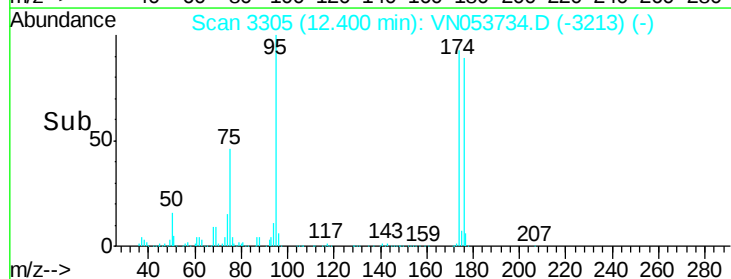
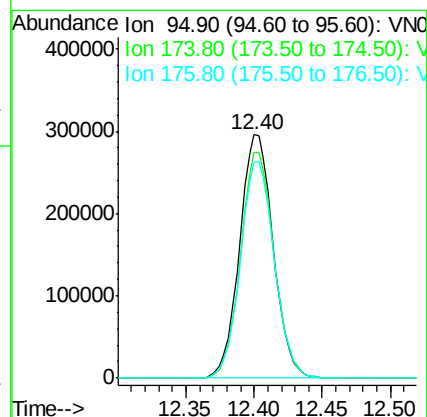
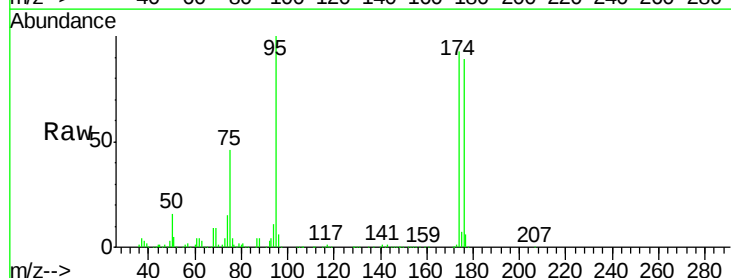
Tgt Ion: 95 Resp: 505174

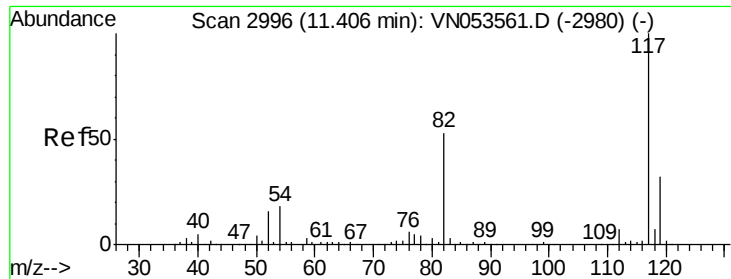
Ion Ratio Lower Upper

95 100

174 92.8 0.0 183.2

176 89.6 0.0 177.4

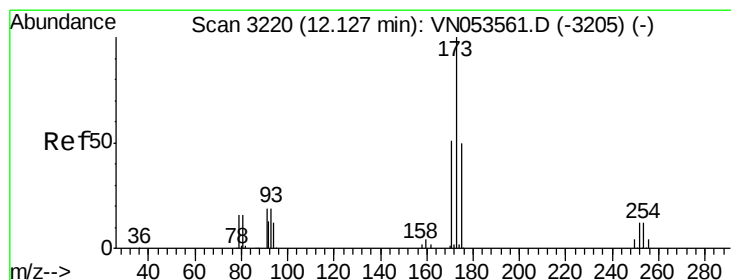
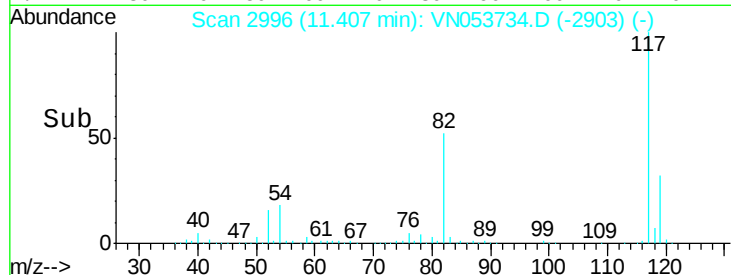
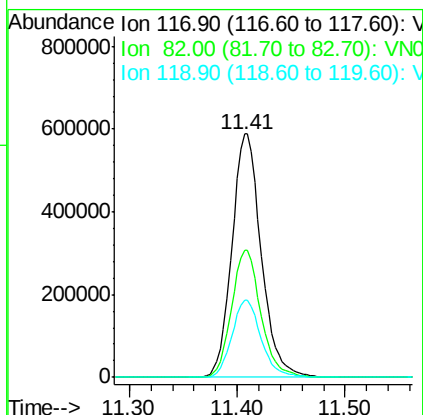
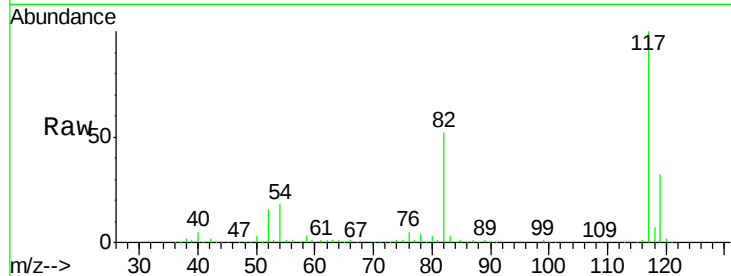




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053734.D
Acq: 12 Feb 2019 16:54

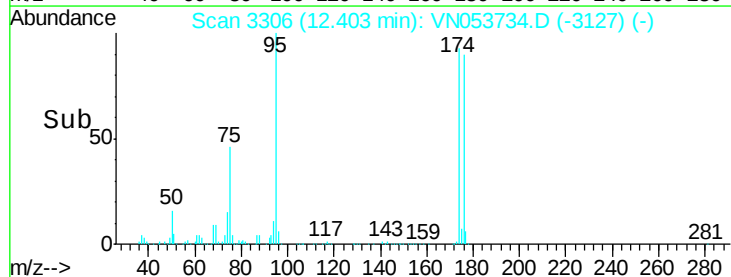
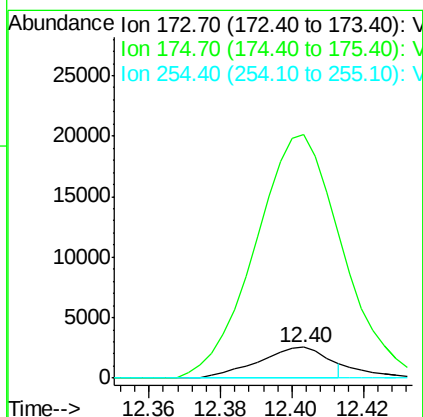
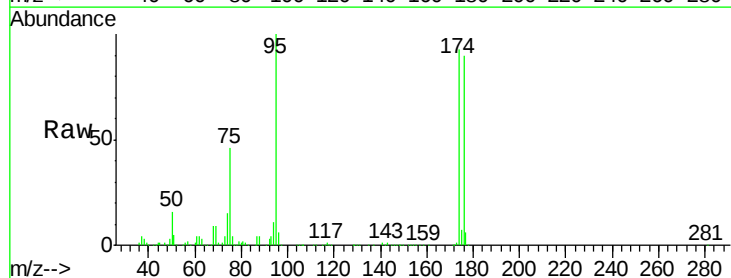
Instrument :
MSVOA_N
ClientSampled :
M-11-S

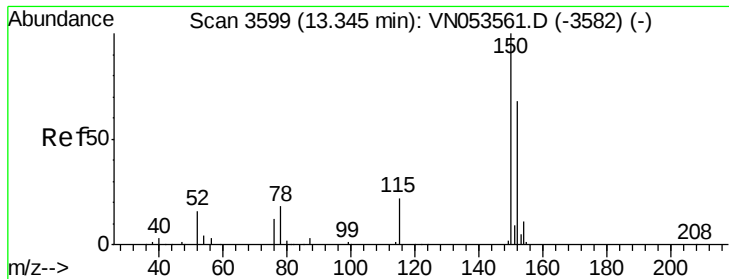
Tot Ion:117 Resp: 1112515
Ion Ratio Lower Upper
117 100
82 52.5 42.9 64.3
119 31.9 26.0 39.0



#71
Bromoform
Concen: 0.606 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053734.D
Acq: 12 Feb 2019 16:54

Tgt Ion:173 Resp: 3426
Ion Ratio Lower Upper
173 100
175 852.9 24.6 74.0#
254 0.0 0.2 0.2#



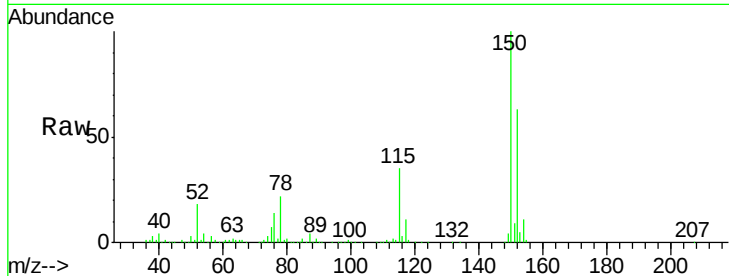


#72

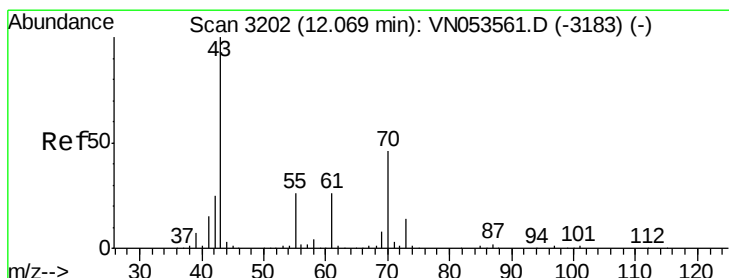
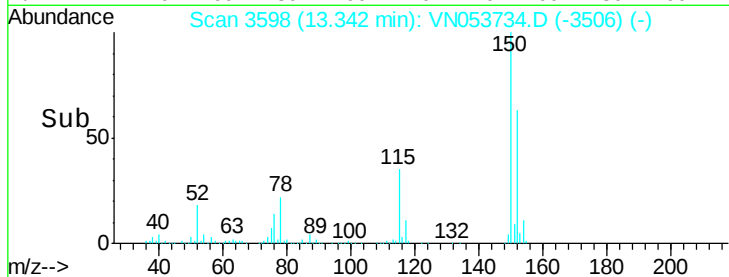
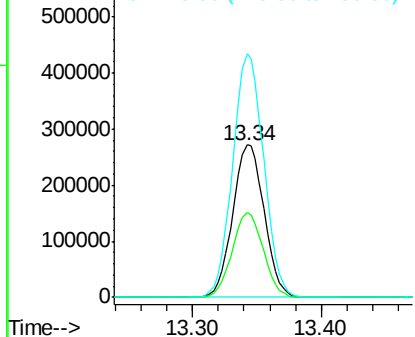
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053734.D
Acq: 12 Feb 2019 16:54

Instrument :
MSVOA_N
ClientSampled :
M-11-S

Tot Ion:152 Resp: 461184
Ion Ratio Lower Upper
152 100
115 54.9 27.8 83.4
150 157.5 0.0 349.0



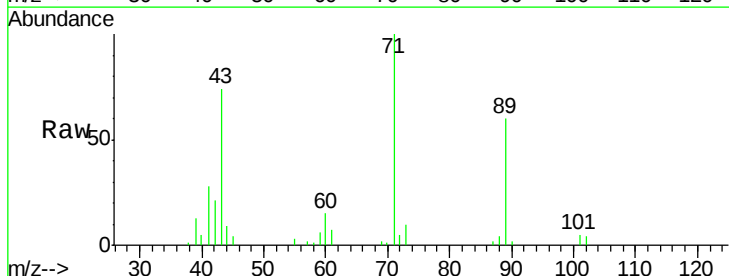
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



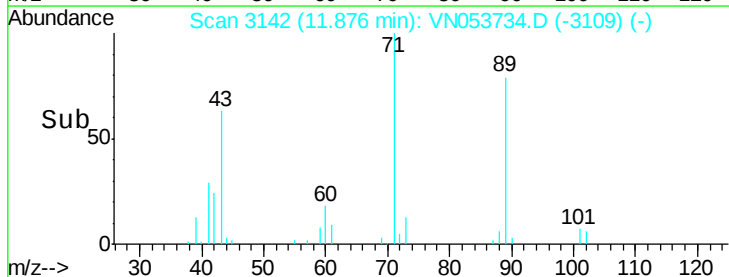
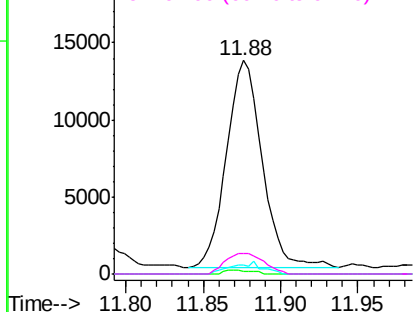
#74

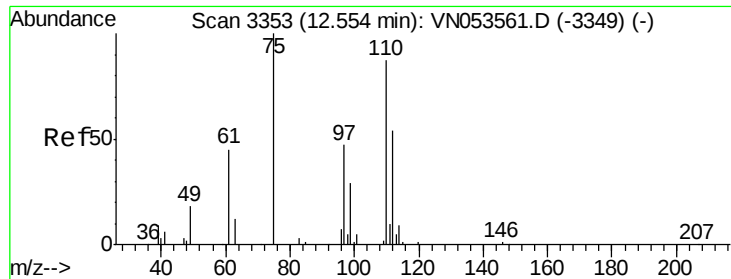
N-ethyl acetate
Concen: 2.776 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053734.D
Acq: 12 Feb 2019 16:54

Tgt Ion: 43 Resp: 21640
Ion Ratio Lower Upper
43 100
70 1.5 35.4 53.2#
55 5.0 20.9 31.3#
61 10.6 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V

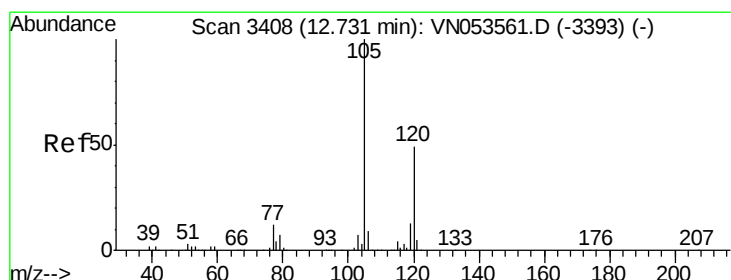
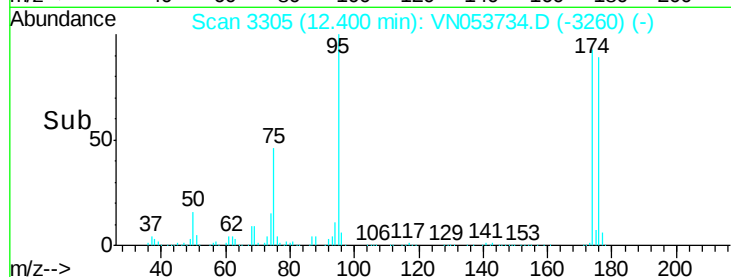
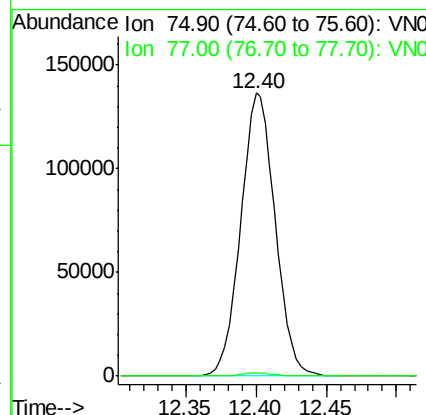
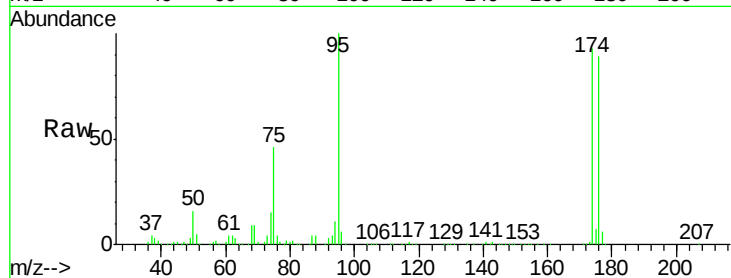




#76
 1,2,3-Trichloropropane
 Concen: 39.258 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN053734.D
 Acq: 12 Feb 2019 16:54

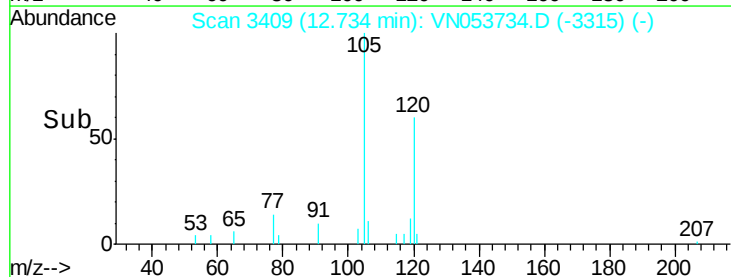
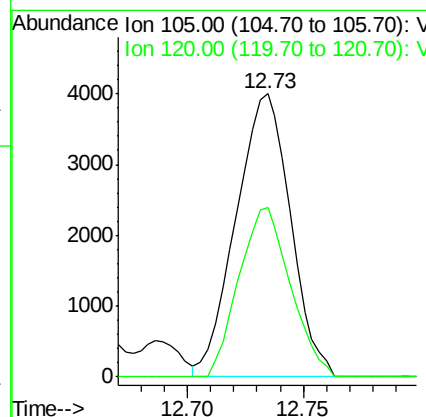
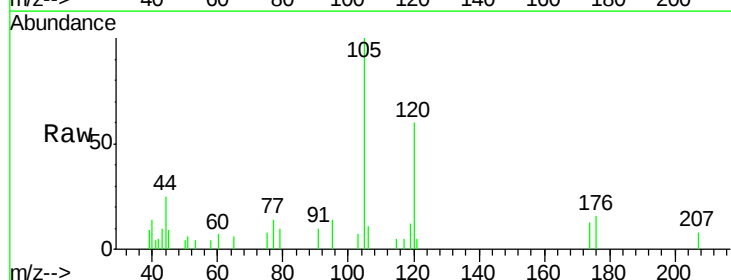
Instrument :
 MSVOA_N
 ClientSampled :
 M-11-S

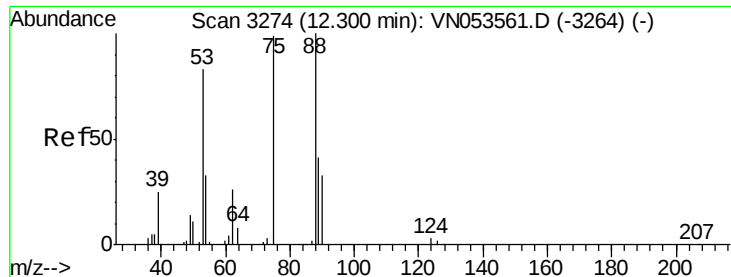
Tot Ion: 75 Resp: 232548
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.243 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053734.D
 Acq: 12 Feb 2019 16:54

Tgt Ion: 105 Resp: 6530
 Ion Ratio Lower Upper
 105 100
 120 56.5 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 110.390 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053734.D

Acq: 12 Feb 2019 16:54

Instrument :

MSVOA_N

ClientSampleId :

M-11-S

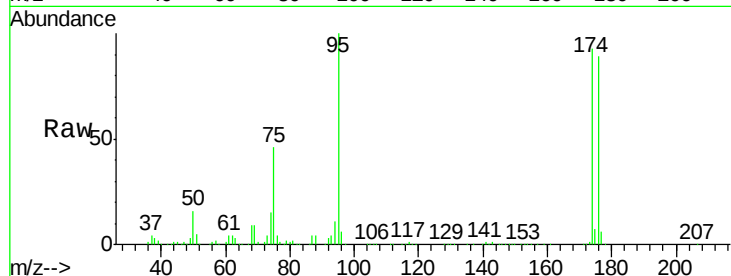
Tot Ion: 75 Resp: 232548

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

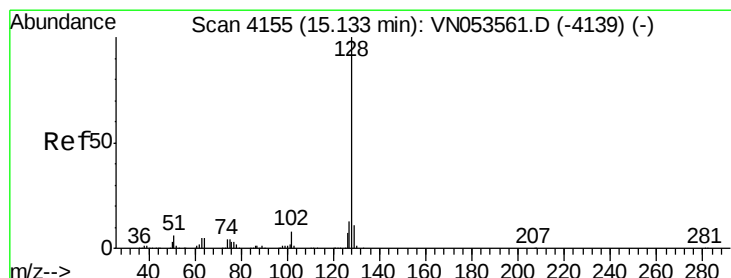
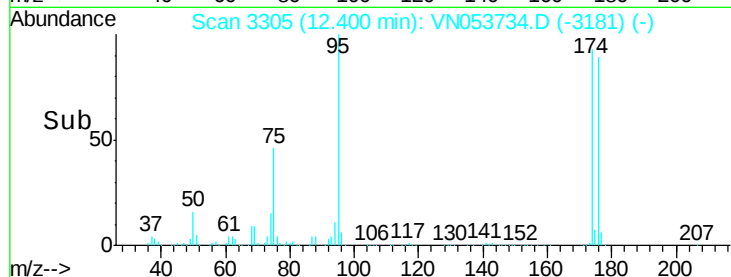
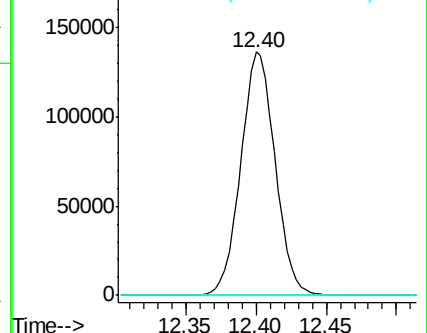
89 0.0 35.6 53.4#



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



#95

Naphthalene

Concen: 1.897 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053734.D

Acq: 12 Feb 2019 16:54

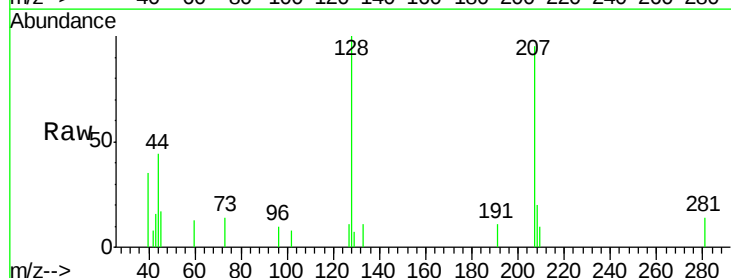
Tgt Ion:128 Resp: 3369

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

129 4.2 8.6 13.0#



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

