

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052281.D
 Acq On : 13 Nov 2018 12:50
 Operator : MD\SY
 Sample : J5756-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 14 00:01:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	47273	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	272649	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	228388	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		8.03	65	113689	32.40	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	108.00%	
60) 4-Bromofluorobenzene		12.40	95	88679	24.27	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	80.90%	
63) Toluene-d8		10.09	98	327327	30.48	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.60%	

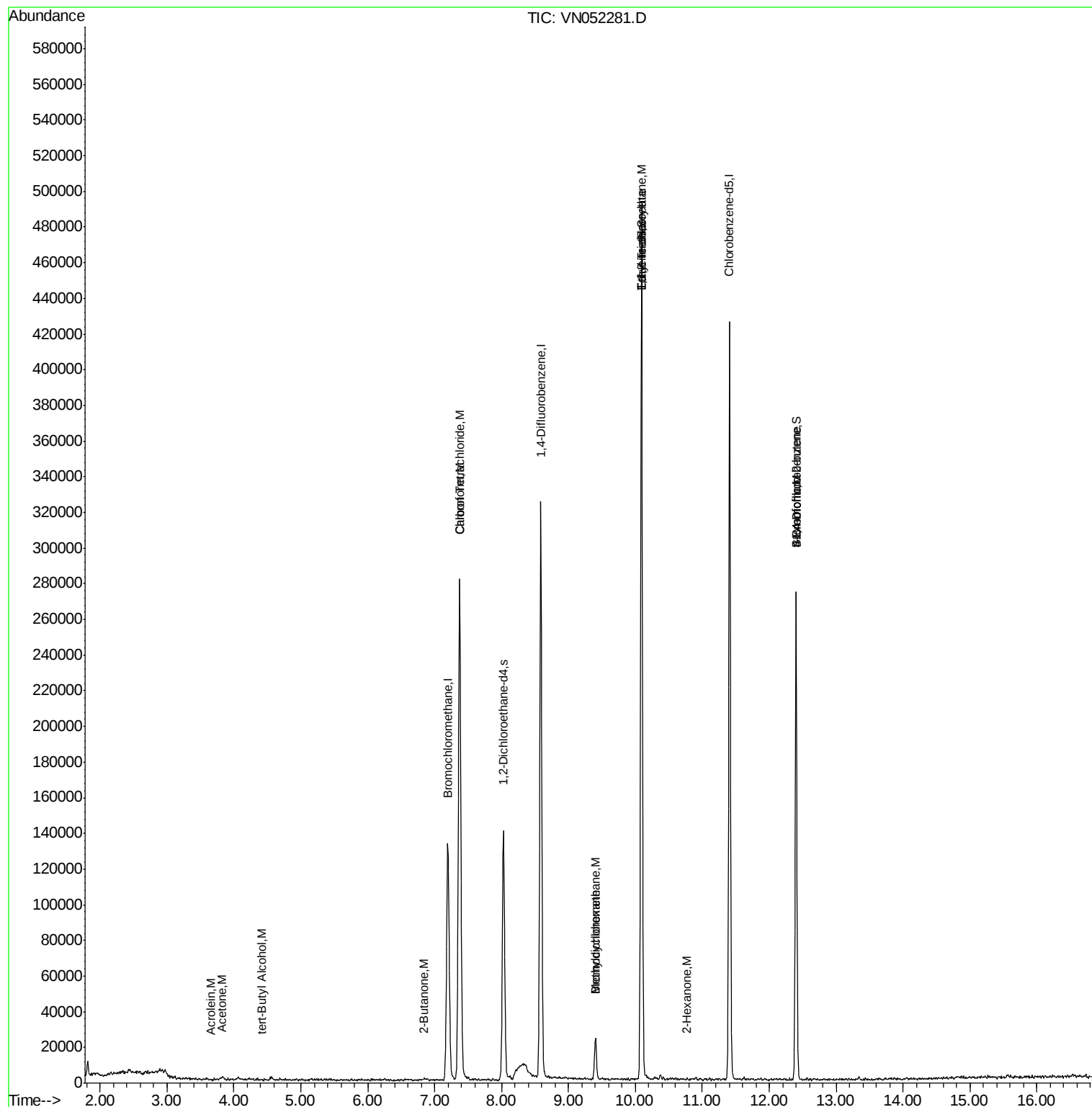
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acrolein	3.64	56	64	0.274	ug/l #	15
15) Acetone	3.82	58	389	1.687	ug/l #	8
23) tert-Butyl Alcohol	4.42	59	68	0.447	ug/l #	99
25) Chloroform	7.37	83	278442	49.196	ug/l	96
30) 2-Butanone	6.85	43	979	0.849	ug/l #	83
33) Carbon Tetrachloride	7.37	117	2796	0.649	ug/l #	76
38) Methylcyclohexane	9.40	83	15428	2.922	ug/l #	18
41) Bromodichloromethane	9.40	83	15428	3.626	ug/l #	98
50) 1,1,2-Trichloroethane	10.10	97	10822	3.935	ug/l #	1
51) Ethyl methacrylate	10.09	69	1222	0.344	ug/l	80
56) Bromoform	12.40	173	654	0.381	ug/l #	1
59) 2-Hexanone	10.76	43	409	0.243	ug/l #	35
77) t-1,4-Dichloro-2-butene	12.40	75	49022	59.367	ug/l #	9

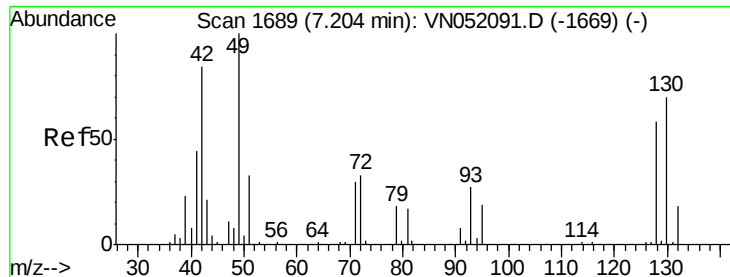
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

Quant Time: Nov 14 00:01:31 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 02 05:39:38 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.01 min

Lab File: VN052281.D

Acq: 13 Nov 2018 12:50

Instrument :
MSVOA_N
ClientSampled :

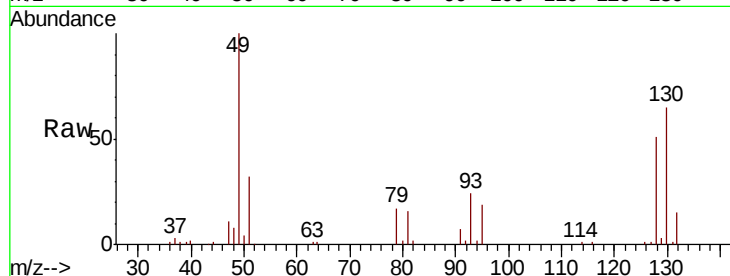
Tot Ion:128 Resp: 47273

Ion Ratio Lower Upper

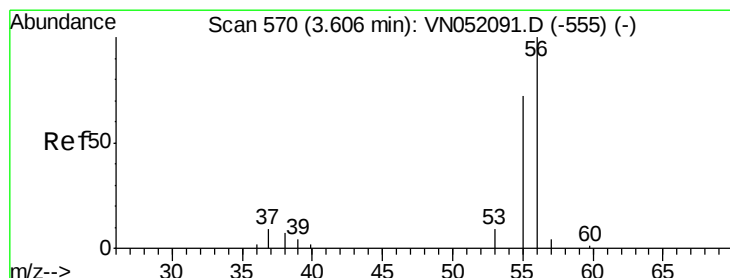
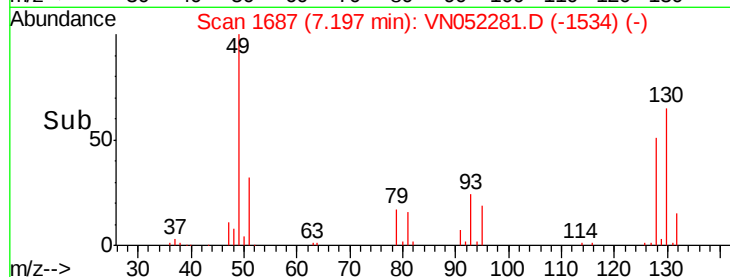
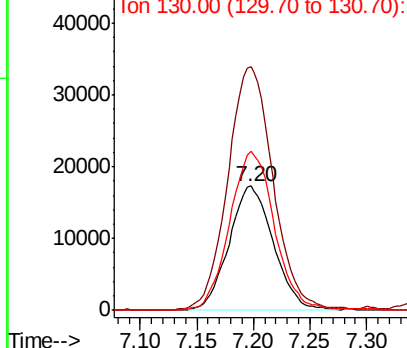
128 100

49 197.9 0.0 453.7

130 128.5 0.0 308.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VNO
Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.274 ug/l

RT: 3.64 min Scan# 582

Delta R.T. 0.04 min

Lab File: VN052281.D

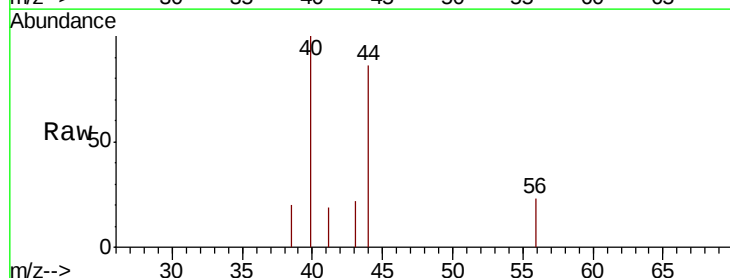
Acq: 13 Nov 2018 12:50

Tgt Ion: 56 Resp: 64

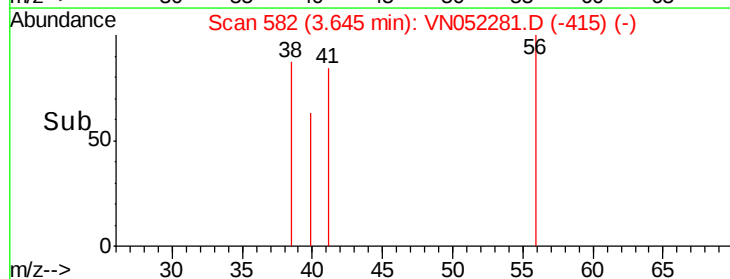
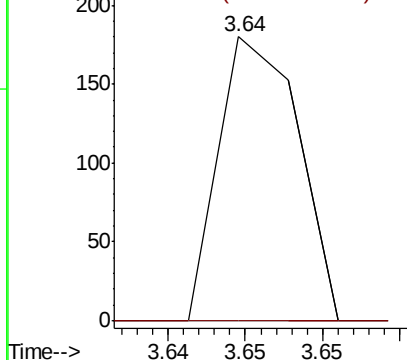
Ion Ratio Lower Upper

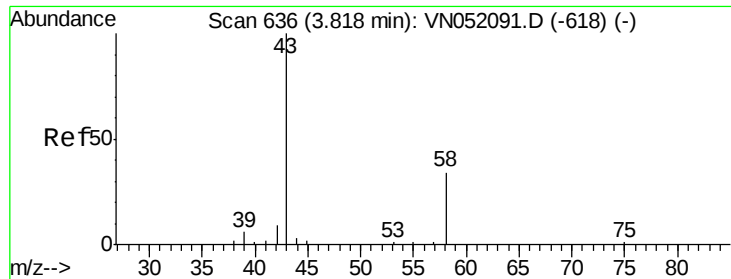
56 100

55 0.0 56.2 84.2#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 55.00 (54.70 to 55.70): VNO

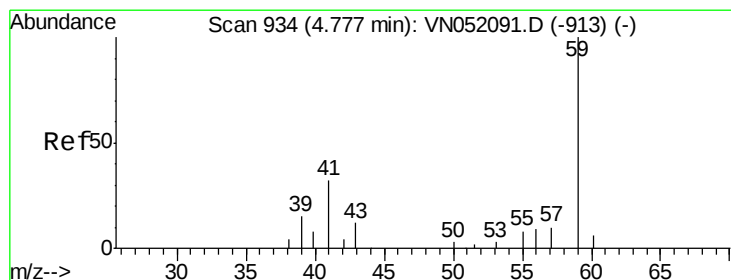
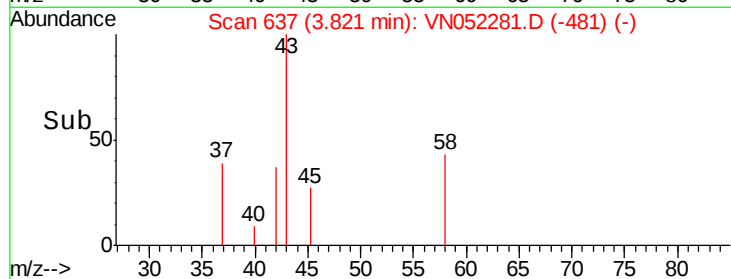
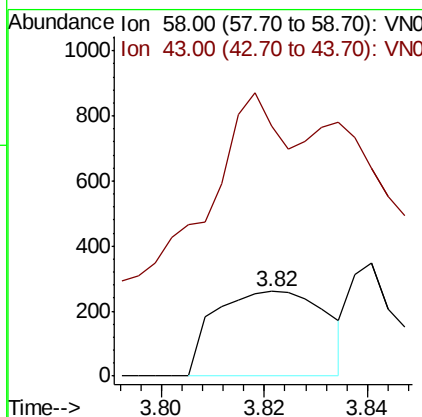
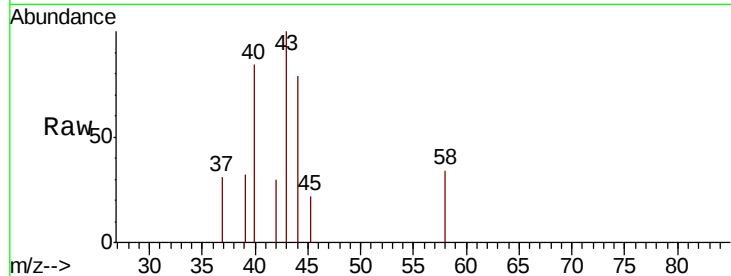




#15
Acetone
Concen: 1.687 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN052281.D
Acq: 13 Nov 2018 12:50

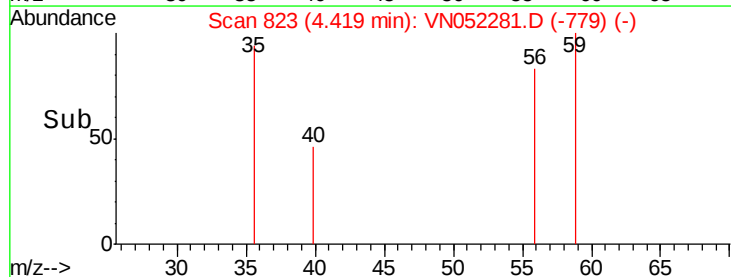
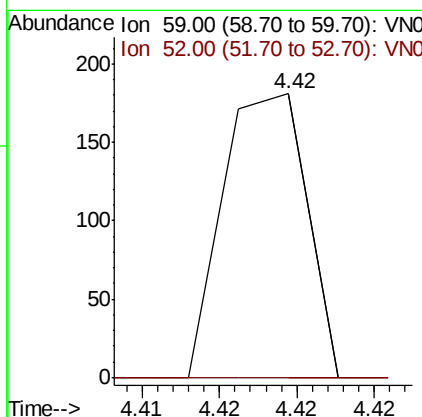
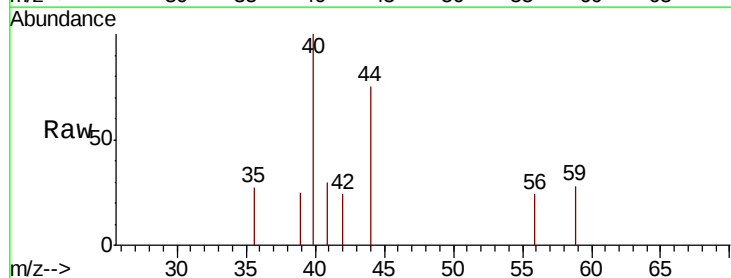
Instrument :
MSVOA_N
ClientSampled :

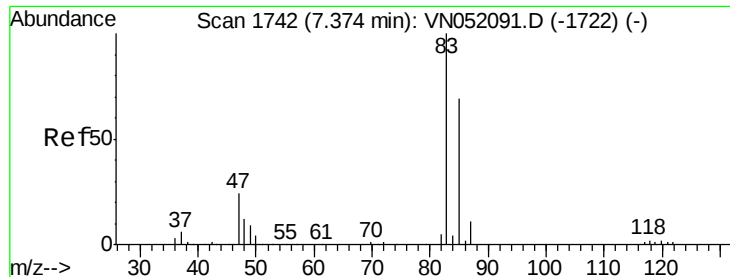
Tot Ion: 58 Resp: 389
Ion Ratio Lower Upper
58 100
43 116.1 234.7 352.1#



#23
tert-Butyl Alcohol
Concen: 0.447 ug/l
RT: 4.42 min Scan# 823
Delta R.T. -0.36 min
Lab File: VN052281.D
Acq: 13 Nov 2018 12:50

Tgt Ion: 59 Resp: 68
Ion Ratio Lower Upper
59 100
52 0.0 0.3 0.5#

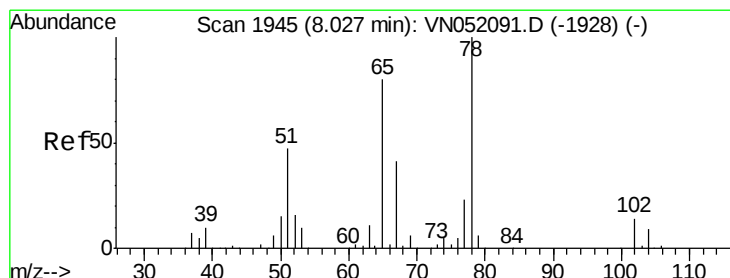
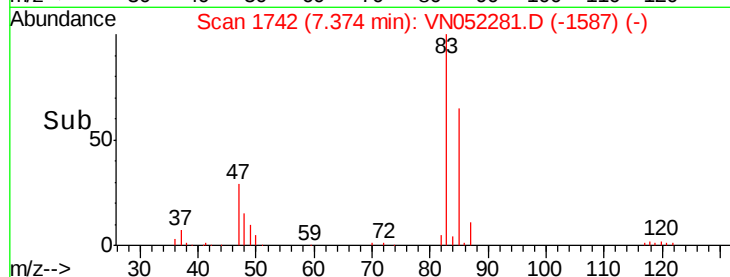
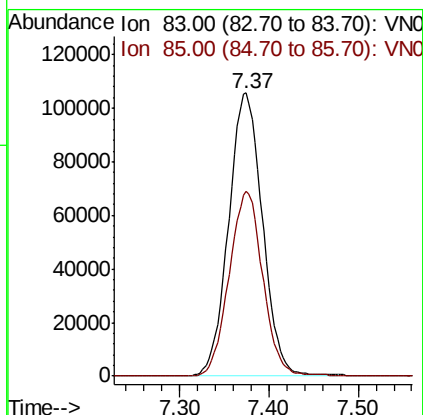
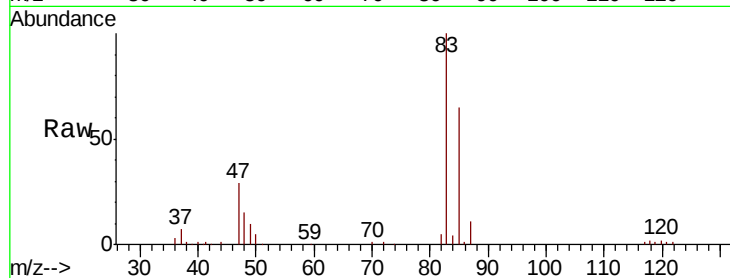




#25
Chloroform
Concen: 49.196 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN052281.D
Acq: 13 Nov 2018 12:50

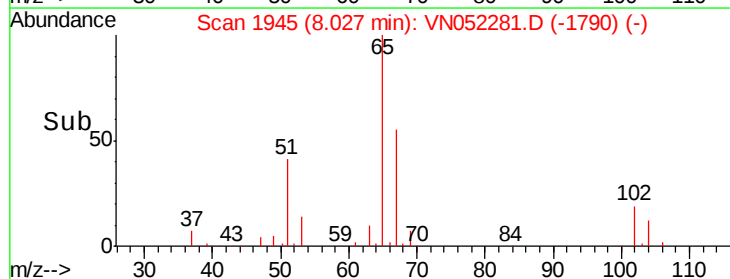
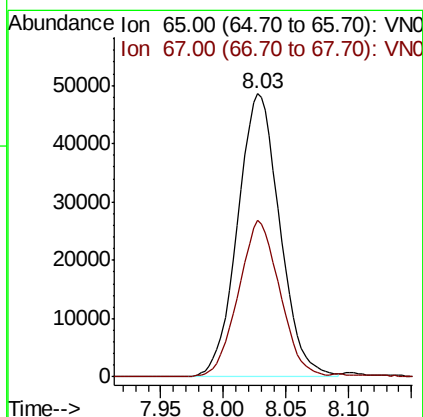
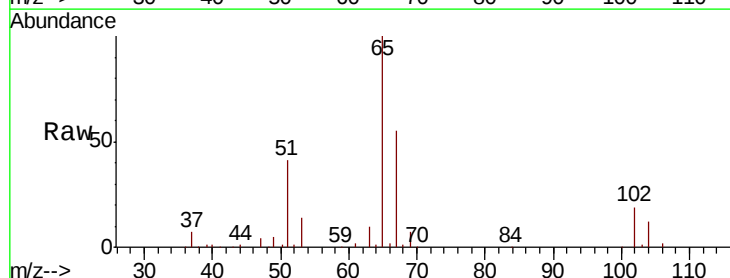
Instrument :
MSVOA_N
ClientSampled :

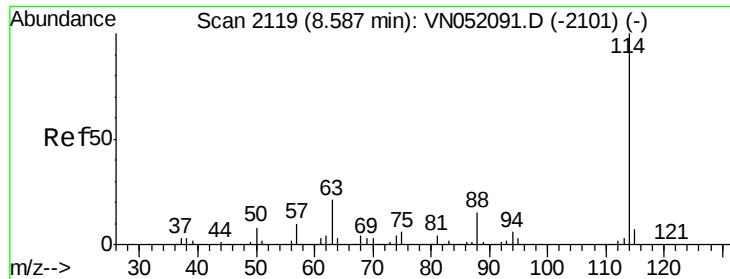
Tot Ion: 83 Resp: 278442
Ion Ratio Lower Upper
83 100
85 65.5 54.9 82.3



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN052281.D
Acq: 13 Nov 2018 12:50

Tgt Ion: 65 Resp: 113689
Ion Ratio Lower Upper
65 100
67 54.2 42.6 64.0

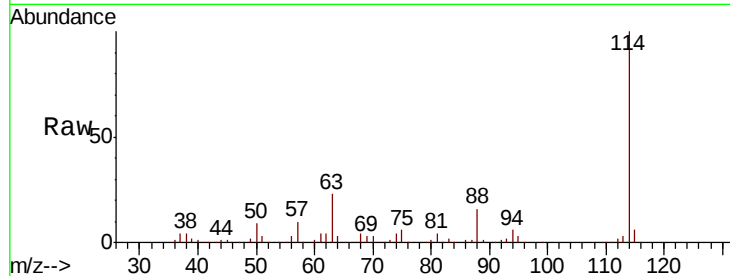




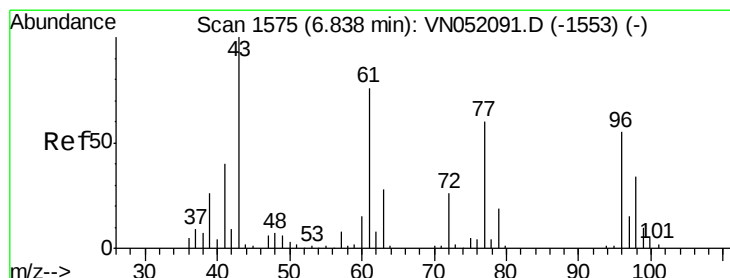
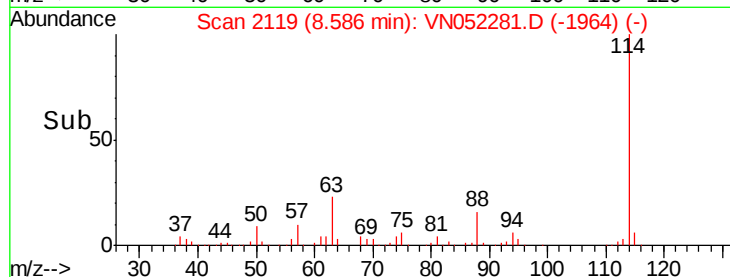
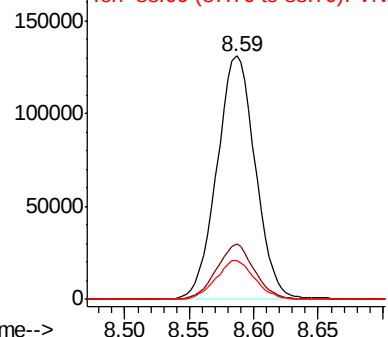
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052281.D
 Acq: 13 Nov 2018 12:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 272649
 Ion Ratio Lower Upper
 114 100
 63 22.3 17.5 26.3
 88 16.0 12.6 18.8

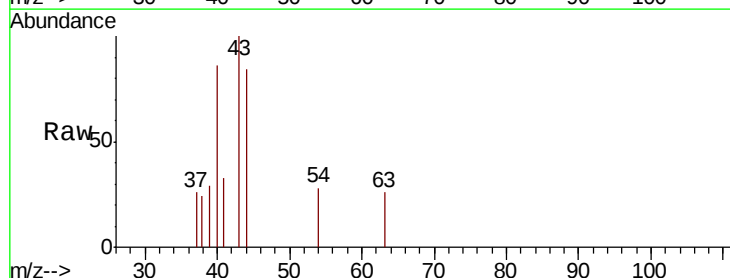


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 88.00 (87.70 to 88.70): VN

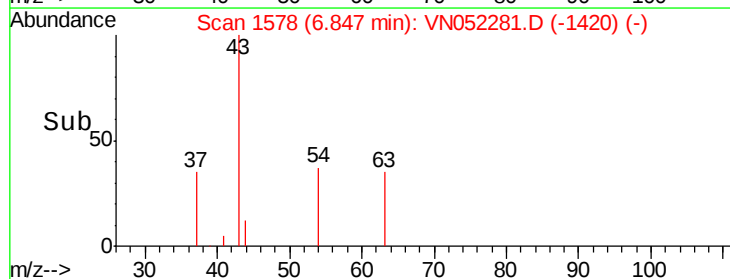
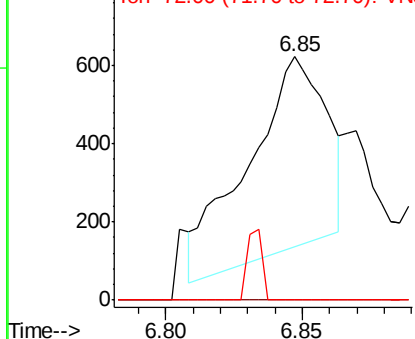


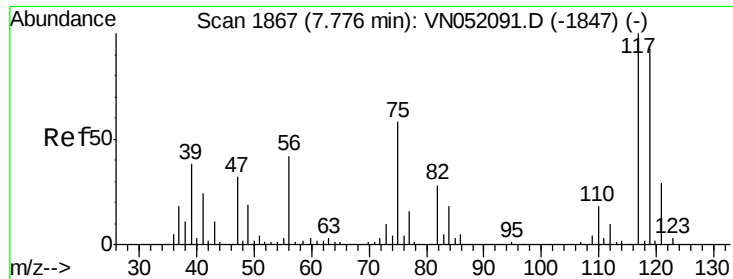
#30
 2-Butanone
 Concen: 0.849 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VN052281.D
 Acq: 13 Nov 2018 12:50

Tgt Ion: 43 Resp: 979
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.6 9.8#
 72 6.8 9.2 13.8#



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 57.00 (56.70 to 57.70): VN
 Ion 72.00 (71.70 to 72.70): VN

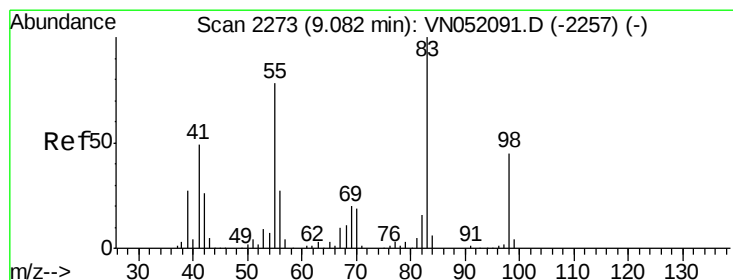
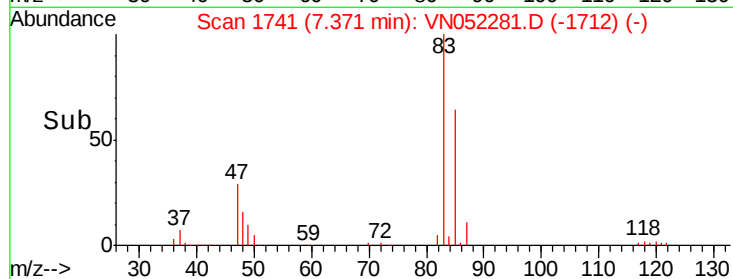
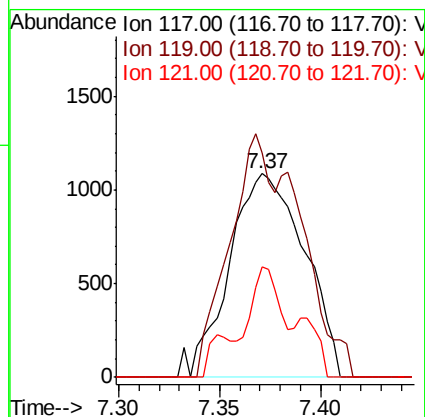
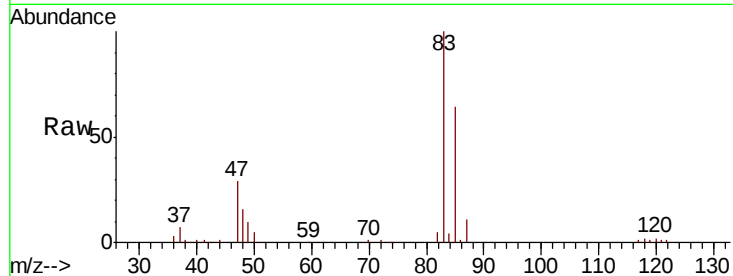




#33
Carbon Tetrachloride
Concen: 0.649 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.41 min
Lab File: VN052281.D
Acq: 13 Nov 2018 12:50

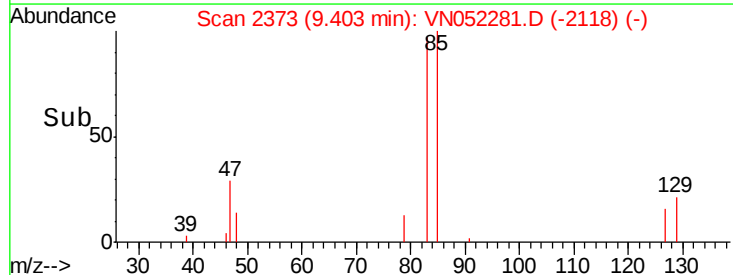
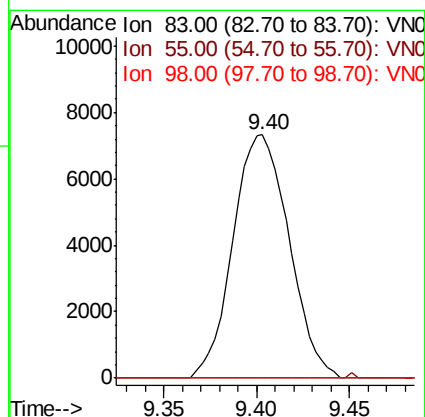
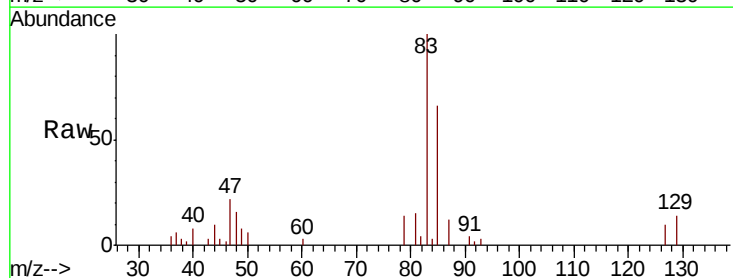
Instrument :
MSVOA_N
ClientSampleId :

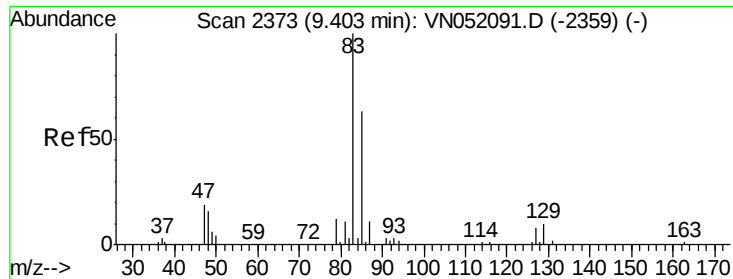
Tot Ion:117 Resp: 2796
Ion Ratio Lower Upper
117 100
119 110.1 74.7 112.1
121 54.4 23.4 35.0#



#38
Methylcyclohexane
Concen: 2.922 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.32 min
Lab File: VN052281.D
Acq: 13 Nov 2018 12:50

Tgt Ion: 83 Resp: 15428
Ion Ratio Lower Upper
83 100
55 0.4 38.5 115.3#
98 0.0 23.2 69.6#





#41

Bromodichloromethane

Concen: 3.626 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052281.D

Acq: 13 Nov 2018 12:50

Instrument :

MSVOA_N

ClientSampleId :

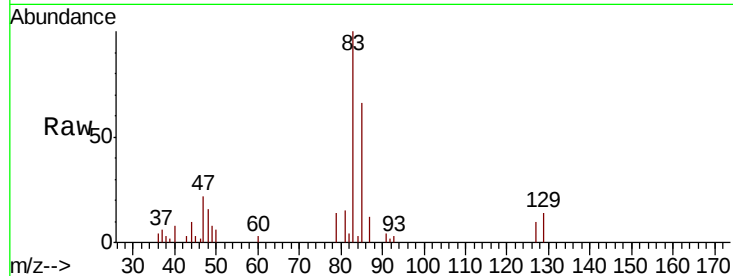
Tot Ion: 83 Resp: 15428

Ion Ratio Lower Upper

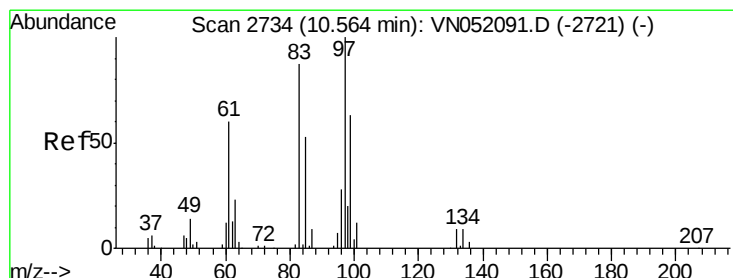
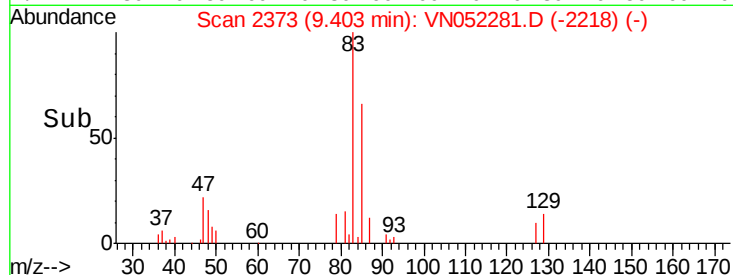
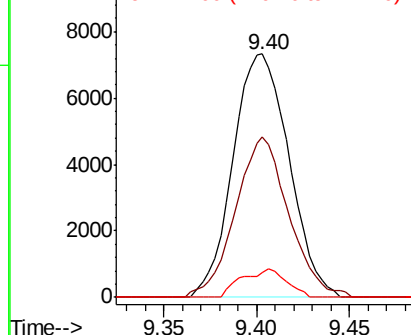
83 100

85 63.7 50.2 75.2

127 10.2 6.6 10.0#



Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 85.00 (84.70 to 85.70): VNO
Ion 127.00 (126.70 to 127.70): VNO



#50

1,1,2-Trichloroethane

Concen: 3.935 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.47 min

Lab File: VN052281.D

Acq: 13 Nov 2018 12:50

Tgt Ion: 97 Resp: 10822

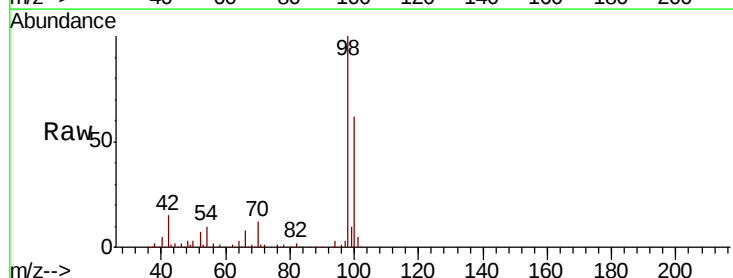
Ion Ratio Lower Upper

97 100

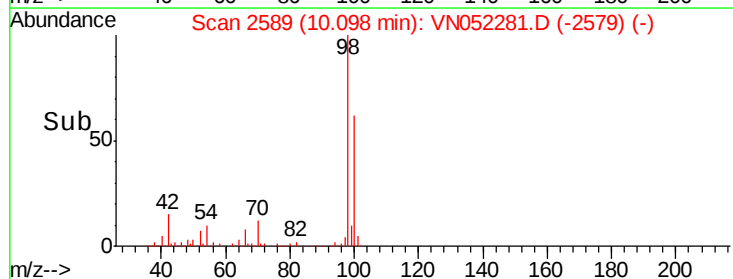
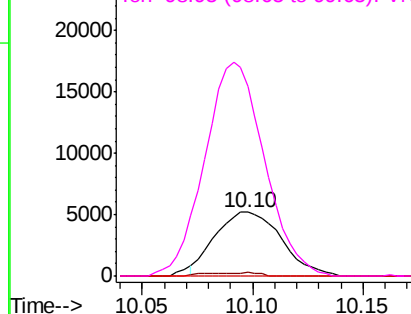
83 5.2 69.4 104.0#

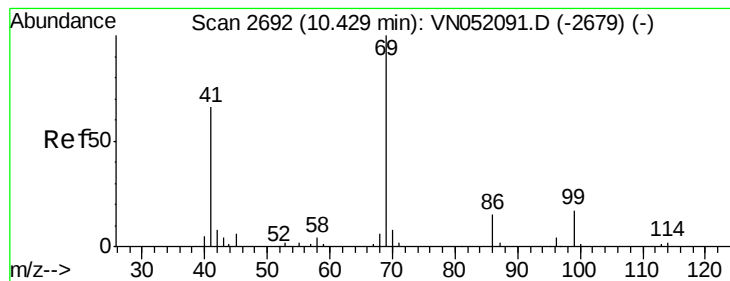
85 0.0 42.7 64.1#

99 296.6 50.6 75.8#



Abundance Ion 97.00 (96.70 to 97.70): VNO
Ion 82.95 (82.65 to 83.65): VNO
Ion 84.95 (84.65 to 85.65): VNO
Ion 98.95 (98.65 to 99.65): VNO





#51

Ethyl methacrylate

Concen: 0.344 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN052281.D

Acq: 13 Nov 2018 12:50

Instrument :

MSVOA_N

ClientSampled :

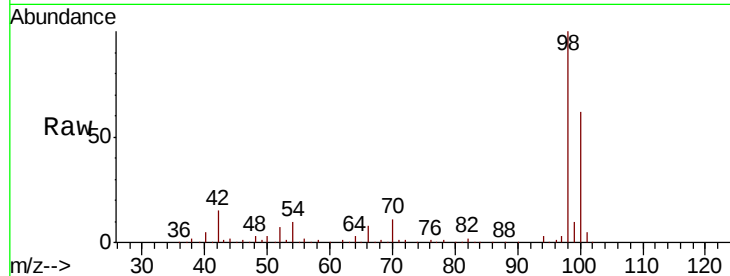
Tot Ion: 69 Resp: 1222

Ion Ratio Lower Upper

69 100

41 90.9 33.0 99.0

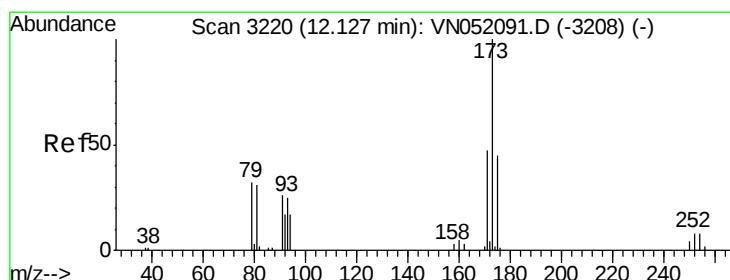
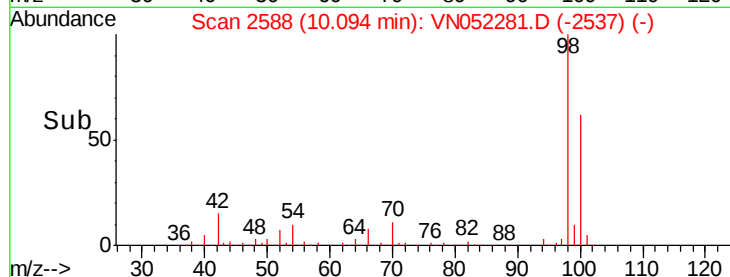
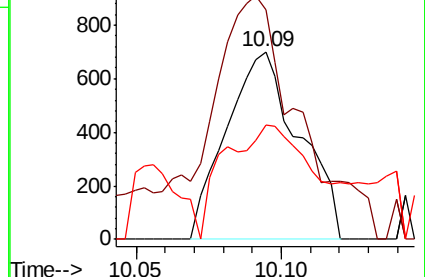
39 39.4 20.7 62.1



Abundance Ion 69.00 (68.70 to 69.70): VN052091.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN052091.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN052091.D (-2679) (-)



#56

Bromoform

Concen: 0.381 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052281.D

Acq: 13 Nov 2018 12:50

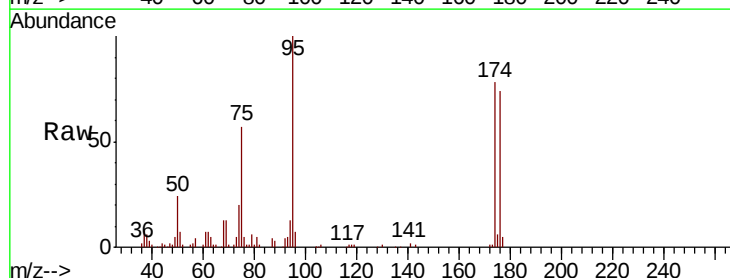
Tgt Ion: 173 Resp: 654

Ion Ratio Lower Upper

173 100

175 800.8 37.3 55.9#

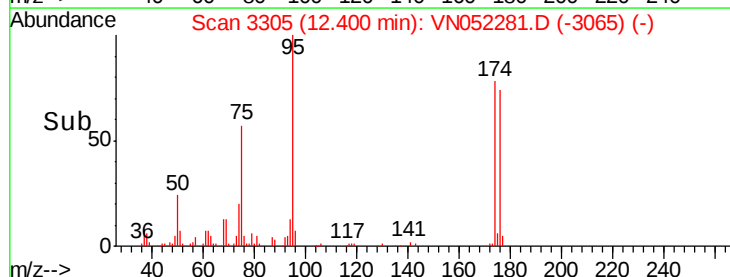
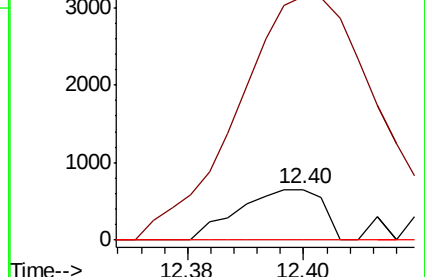
254 0.0 7.0 10.6#

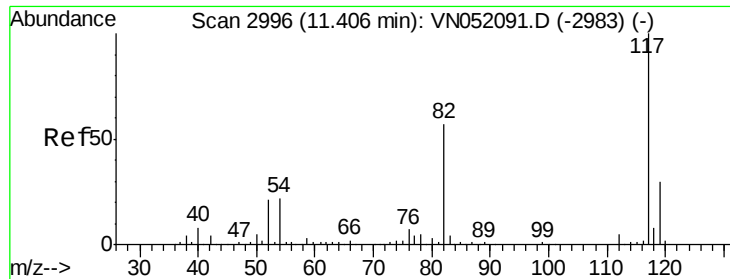


Abundance Ion 173.00 (172.70 to 173.70): VN052091.D (-3208) (-)

Ion 175.00 (174.70 to 175.70): VN052091.D (-3208) (-)

Ion 254.00 (253.70 to 254.70): VN052091.D (-3208) (-)

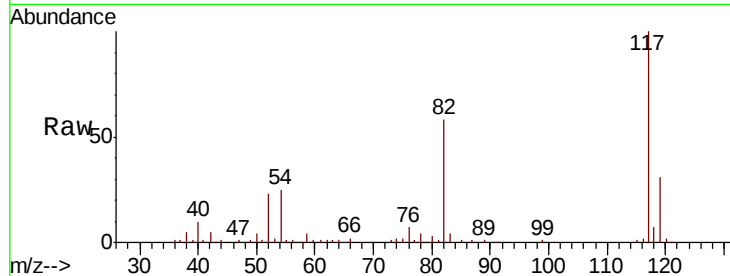




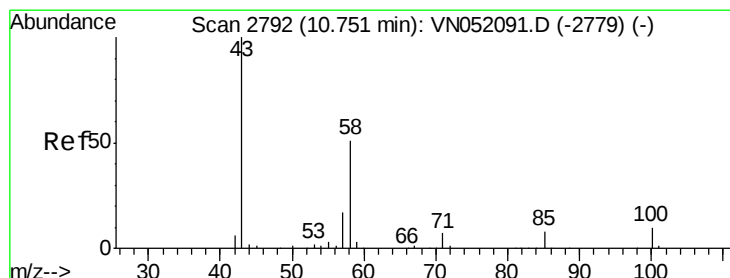
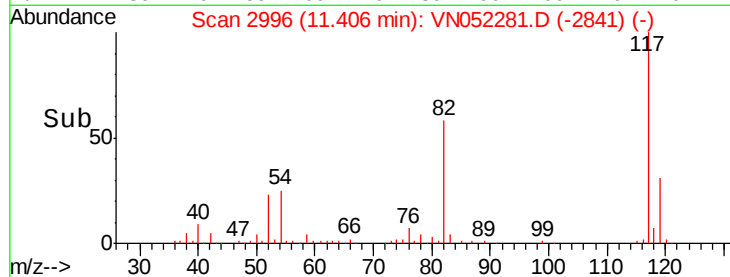
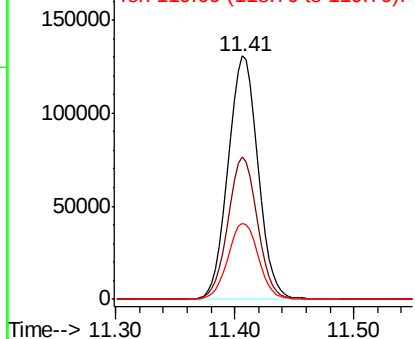
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052281.D
Acq: 13 Nov 2018 12:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 228388
Ion Ratio Lower Upper
117 100
82 57.8 45.0 67.6
119 31.8 24.2 36.4

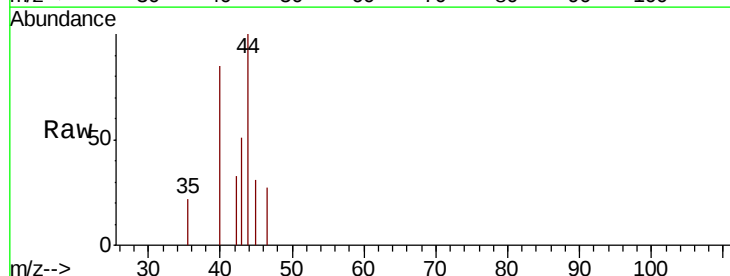


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

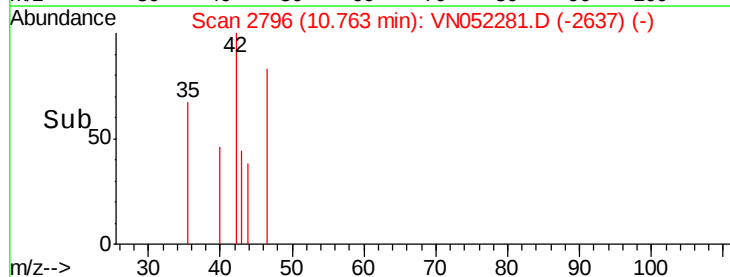
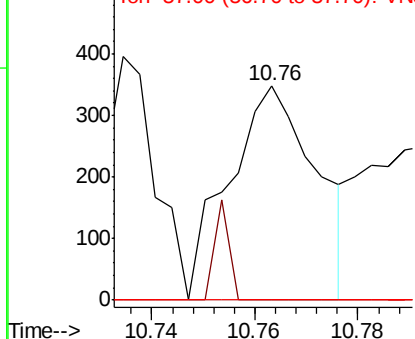


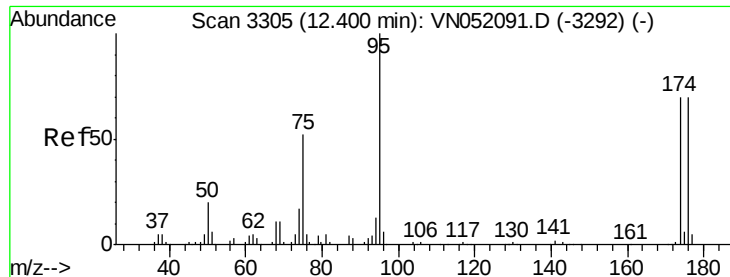
#59
2-Hexanone
Concen: 0.243 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052281.D
Acq: 13 Nov 2018 12:50

Tgt Ion: 43 Resp: 409
Ion Ratio Lower Upper
43 100
58 0.0 40.8 61.2#
57 0.0 13.8 20.8#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 57.00 (56.70 to 57.70): VN





#60

4-Bromofluorobenzene

Concen: 0.243 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052281.D

Acq: 13 Nov 2018 12:50

Instrument :

MSVOA_N

ClientSampleId :

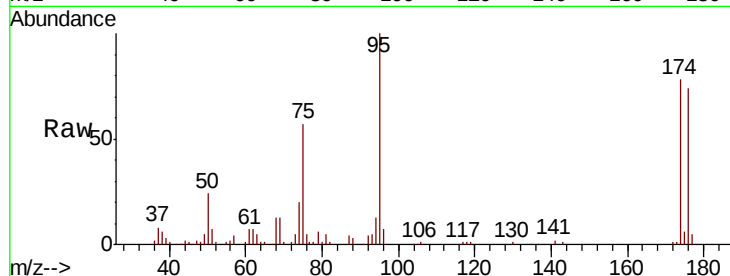
Tot Ion: 95 Resp: 88679

Ion Ratio Lower Upper

95 100

174 76.7 55.0 82.6

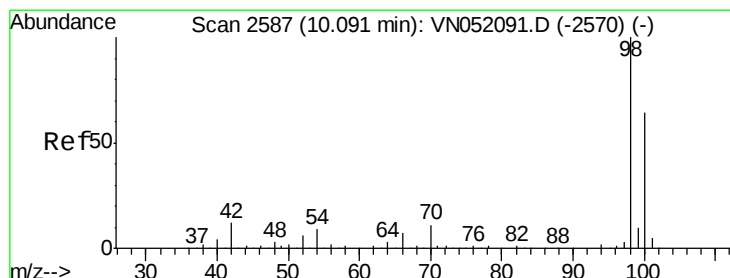
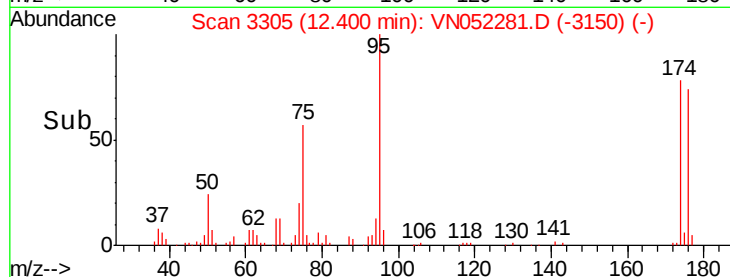
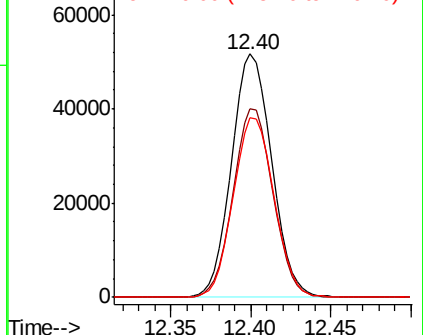
176 74.7 54.2 81.4



Abundance Ion 95.00 (94.70 to 95.70): VN052091.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN052091.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN052091.D (-3292) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052281.D

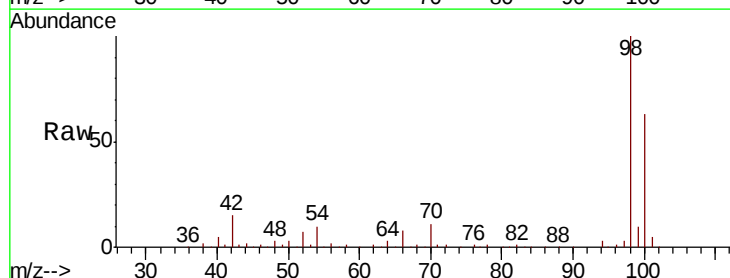
Acq: 13 Nov 2018 12:50

Tgt Ion: 98 Resp: 327327

Ion Ratio Lower Upper

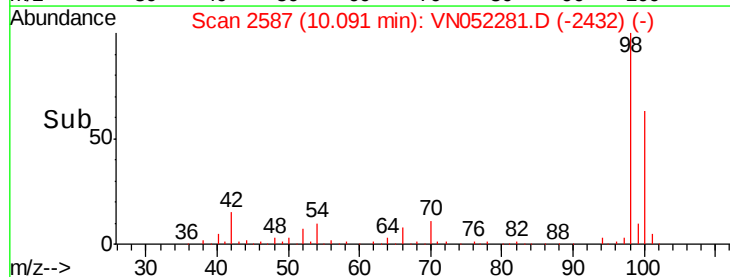
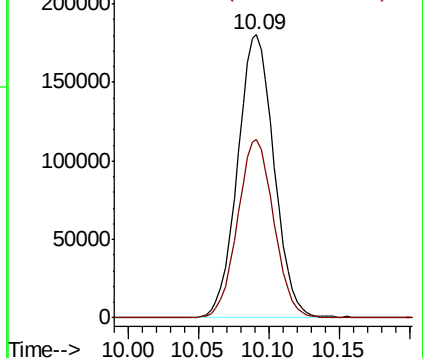
98 100

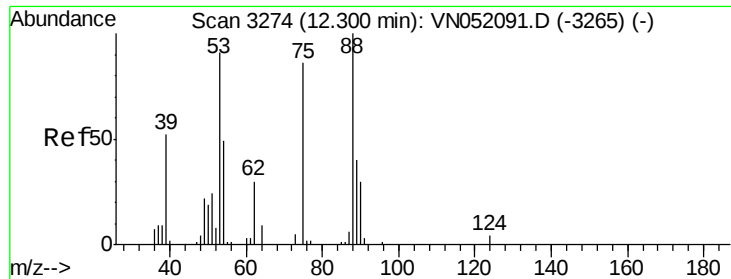
100 62.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN052091.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052091.D (-2570) (-)





#77
t-1,4-Dichloro-2-butene
Concen: 59.367 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN052281.D
Acq: 13 Nov 2018 12:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	50.7	152.1#
89	0.0	23.8	71.5#

