

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112918\
 Data File : VN052586.D
 Acq On : 30 Nov 2018 1:30
 Operator : MD\SY
 Sample : J6144-03 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

Quant Time: Nov 30 04:04:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	169709	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	956521	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	787798	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	342127	29.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.63%
60) 4-Bromofluorobenzene	12.40	95	310931	25.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.03%
63) Toluene-d8	10.09	98	1110489	30.40	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.33%

Target Compounds

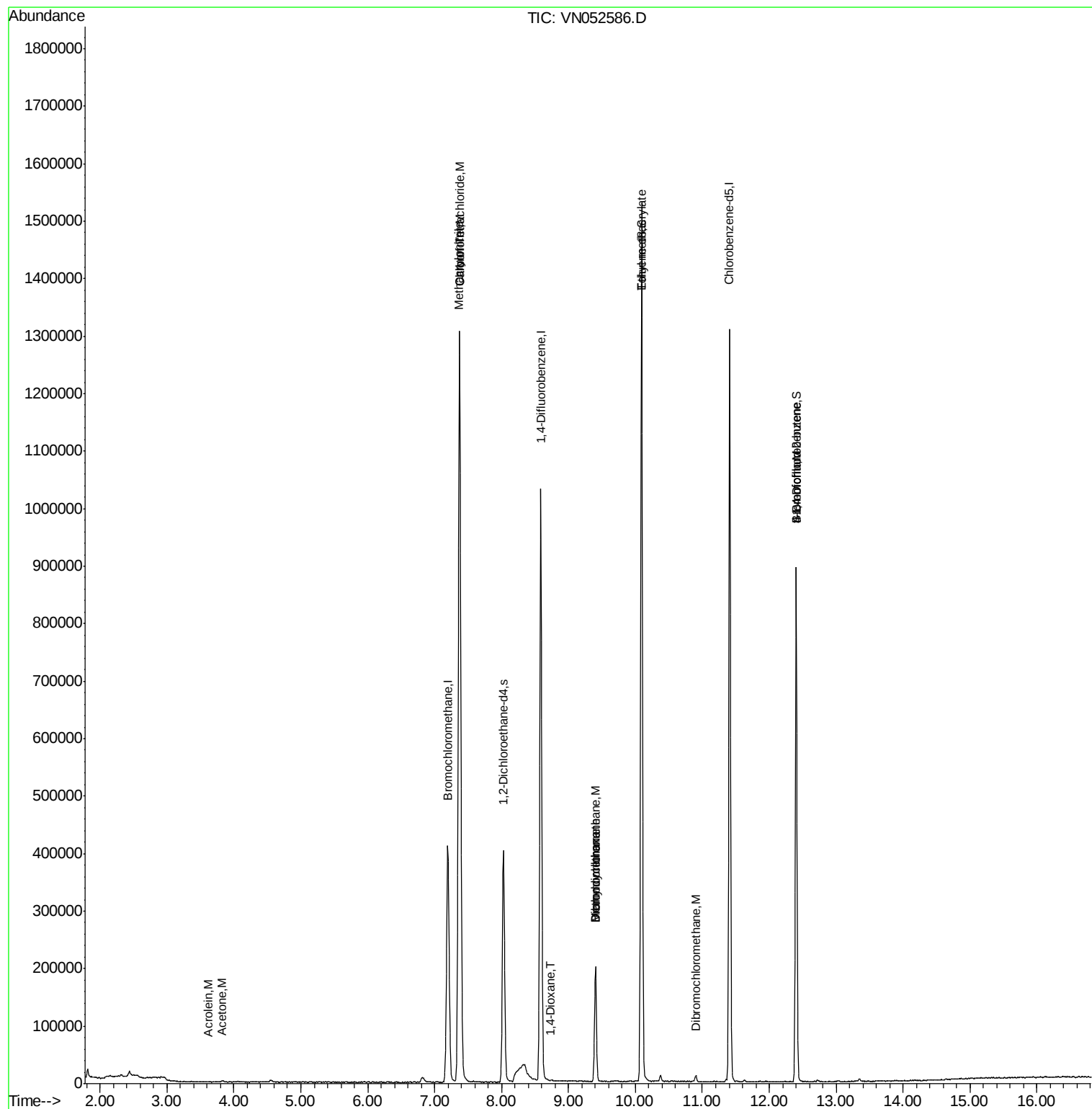
					Ovalue
13) Acrolein	3.62	56	268	0.282 ug/l #	14
15) Acetone	3.83	58	1187	1.330 ug/l #	17
25) Chloroform	7.37	83	1430910	74.611 ug/l	100
33) Carbon Tetrachloride	7.37	117	16583	1.247 ug/l	97
35) Methacrylonitrile	7.36	41	1195	0.246 ug/l #	26
38) Methylcyclohexane	9.40	83	142293	7.869 ug/l #	17
40) Dibromomethane	9.41	93	4196	0.660 ug/l #	2
41) Bromodichloromethane	9.40	83	142293	10.124 ug/l	97
45) 1,4-Dioxane	8.73	88	70	0.878 ug/l #	1
51) Ethyl methacrylate	10.09	69	3216	0.284 ug/l	96
53) Dibromochloromethane	10.90	129	6740	0.679 ug/l	88
56) Bromoform	12.40	173	2357	0.363 ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	151619	57.076 ug/l #	11

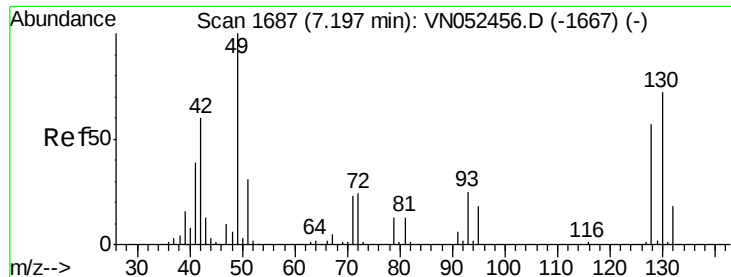
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 30 04:04:03 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 27 00:48:33 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN052586.D

Acq: 30 Nov 2018 1:30

Instrument :

MSVOA_N

ClientSampled :

14B-3

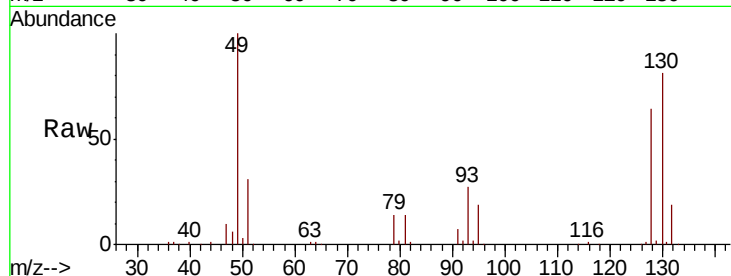
Tot Ion:128 Resp: 169709

Ion Ratio Lower Upper

128 100

49 160.2 0.0 431.8

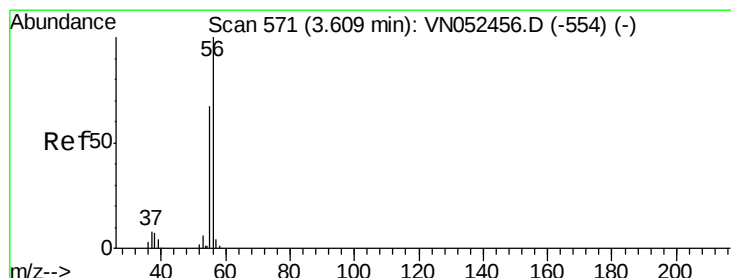
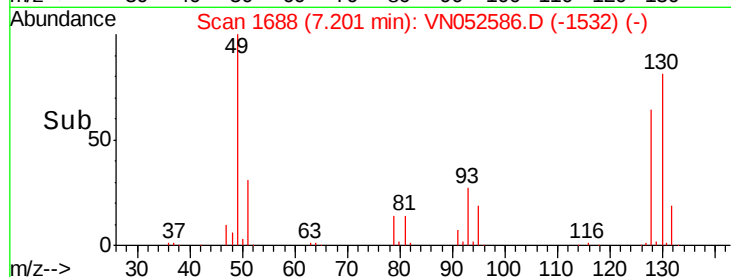
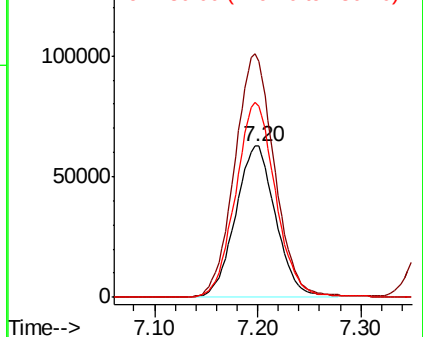
130 127.9 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.282 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052586.D

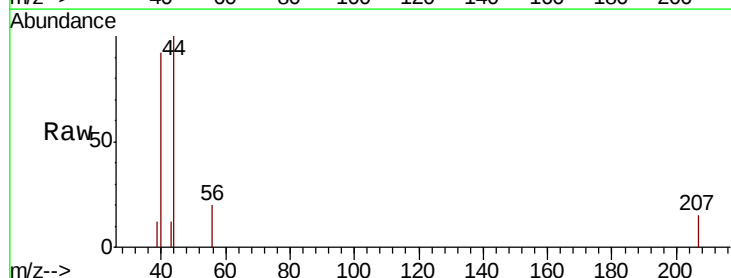
Acq: 30 Nov 2018 1:30

Tgt Ion: 56 Resp: 268

Ion Ratio Lower Upper

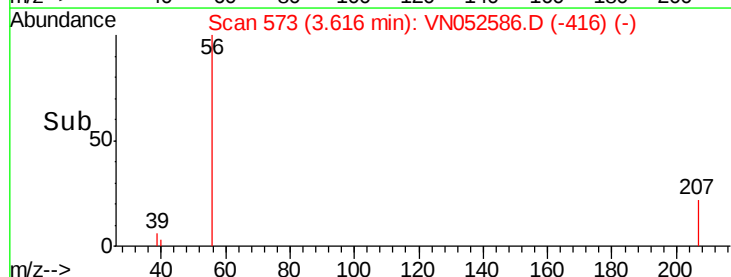
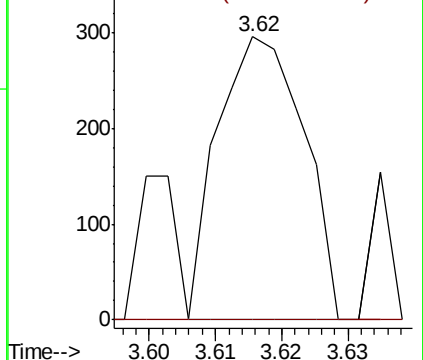
56 100

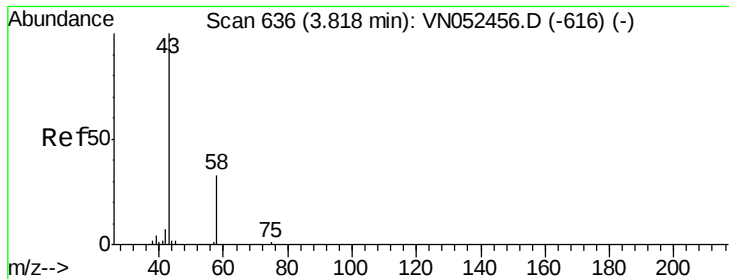
55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 1.330 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052586.D

Acq: 30 Nov 2018 1:30

Instrument :

MSVOA_N

ClientSampled :

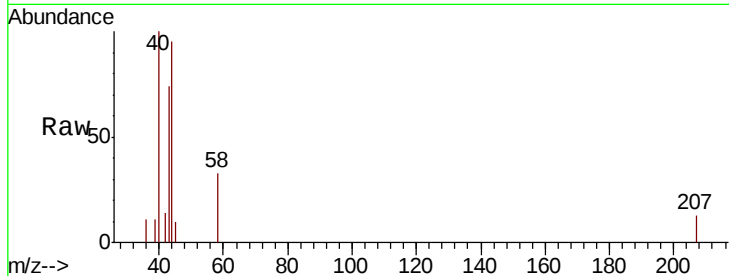
14B-3

Tot Ion: 58 Resp: 1187

Ion Ratio Lower Upper

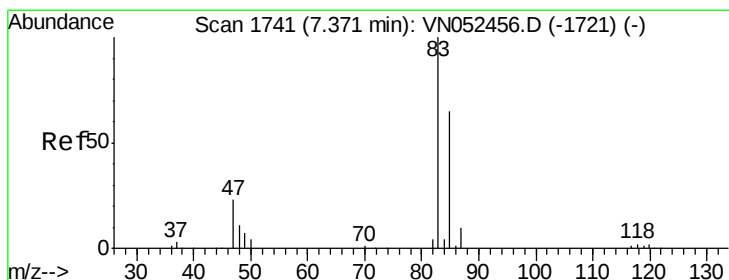
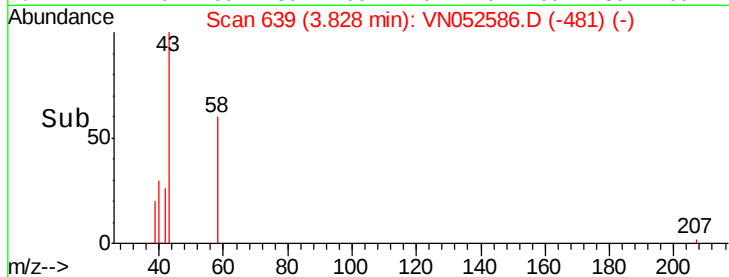
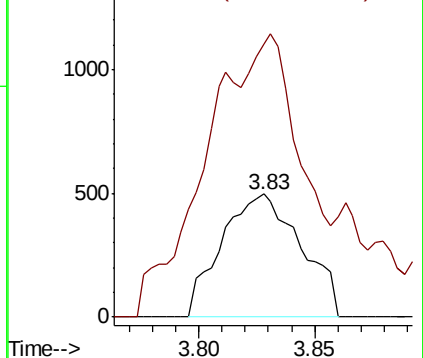
58 100

43 140.5 243.6 365.4#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#25

Chloroform

Concen: 74.611 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN052586.D

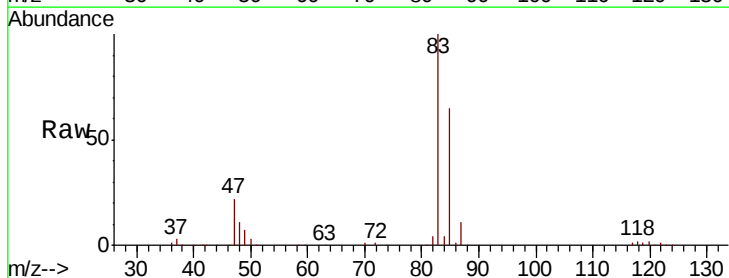
Acq: 30 Nov 2018 1:30

Tgt Ion: 83 Resp: 1430910

Ion Ratio Lower Upper

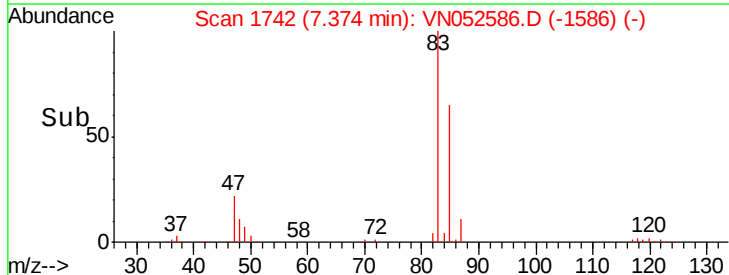
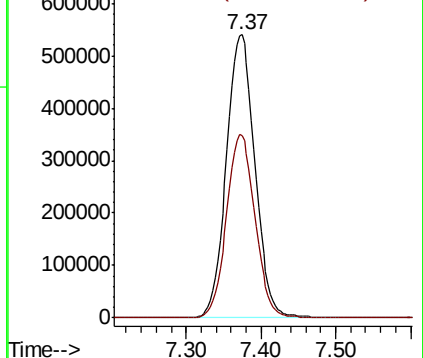
83 100

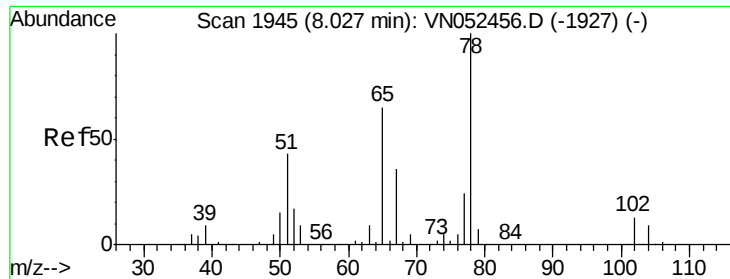
85 64.6 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

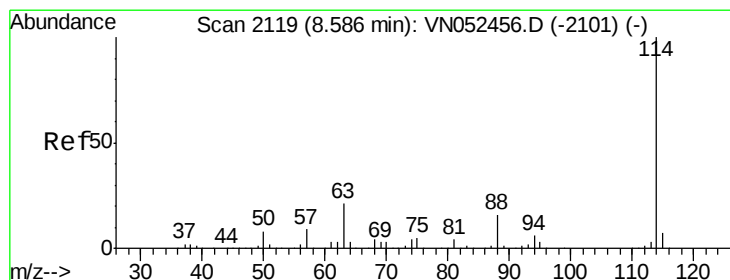
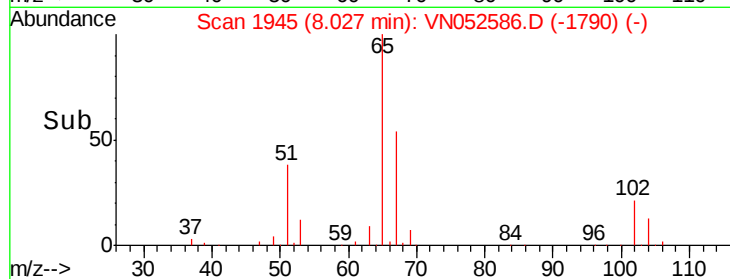
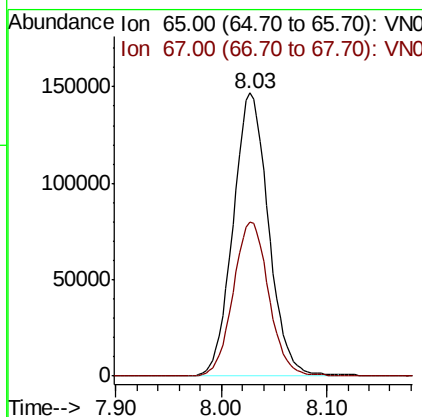
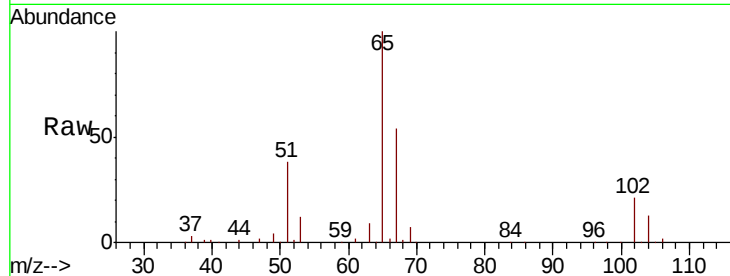




#27
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052586.D
 Acq: 30 Nov 2018 1:30

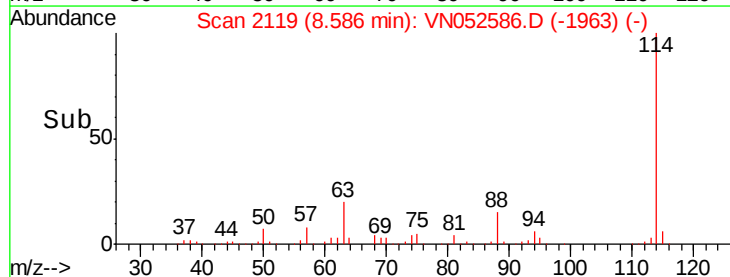
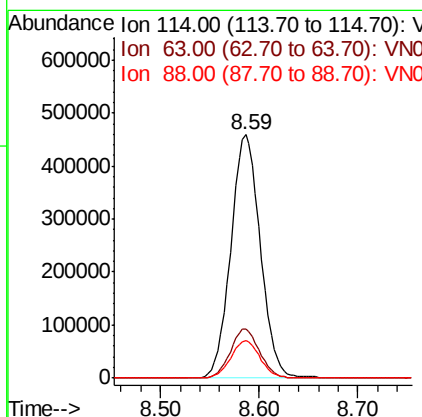
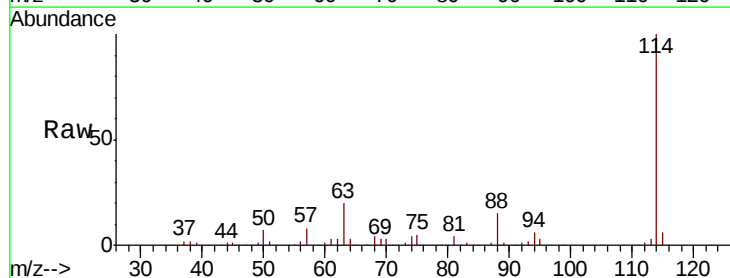
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

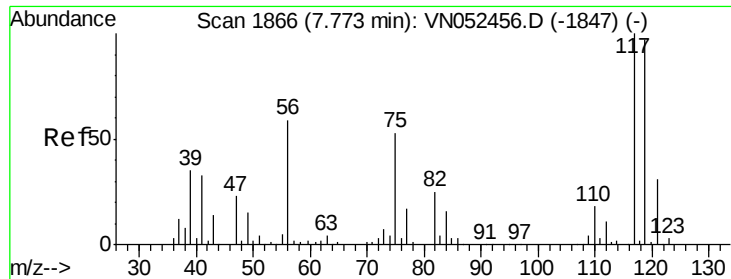
Tot Ion: 65 Resp: 342127
 Ion Ratio Lower Upper
 65 100
 67 54.7 44.6 66.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052586.D
 Acq: 30 Nov 2018 1:30

Tgt Ion: 114 Resp: 956521
 Ion Ratio Lower Upper
 114 100
 63 20.1 16.9 25.3
 88 15.3 12.8 19.2

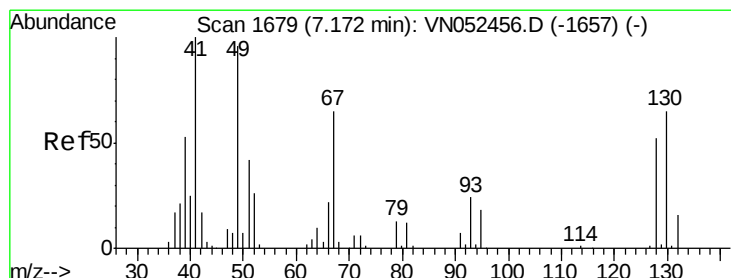
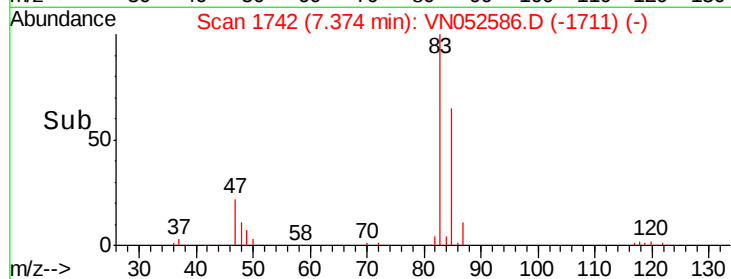
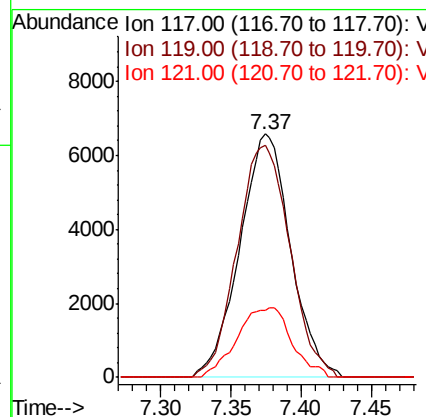
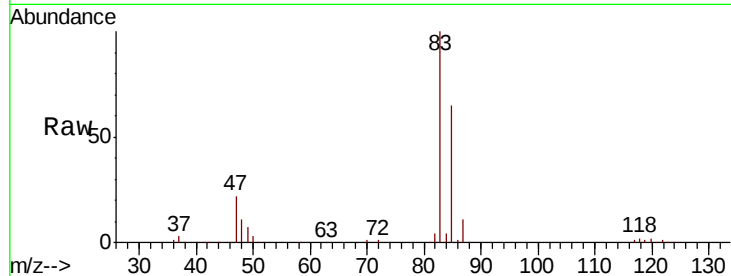




#33
Carbon Tetrachloride
Concen: 1.247 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.40 min
Lab File: VN052586.D
Acq: 30 Nov 2018 1:30

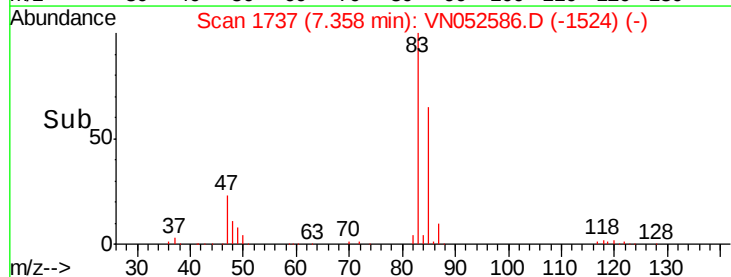
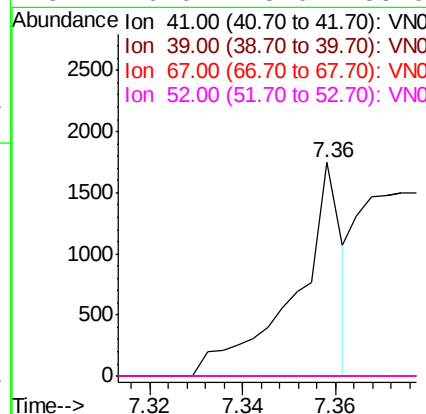
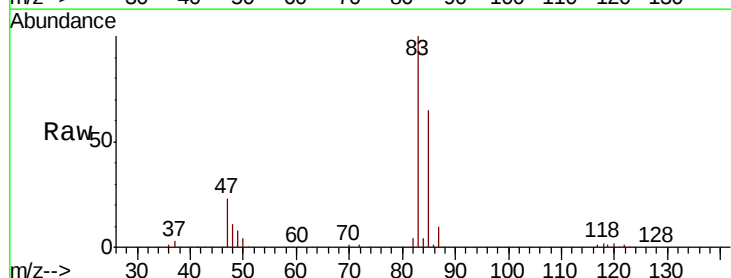
Instrument :
MSVOA_N
ClientSampled :
14B-3

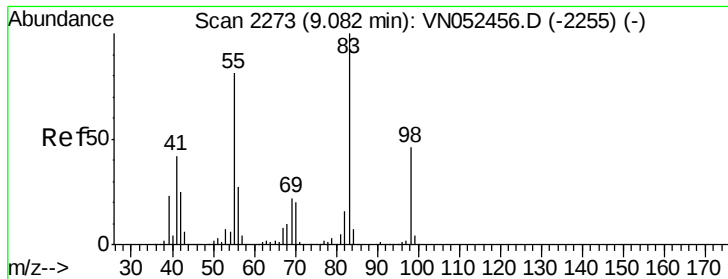
Tot Ion:117 Resp: 16583
Ion Ratio Lower Upper
117 100
119 95.2 77.3 115.9
121 27.5 24.9 37.3



#35
Methacrylonitrile
Concen: 0.246 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.19 min
Lab File: VN052586.D
Acq: 30 Nov 2018 1:30

Tgt Ion: 41 Resp: 1195
Ion Ratio Lower Upper
41 100
39 0.0 26.6 79.7#
67 0.0 32.3 96.9#
52 0.0 13.0 38.9#

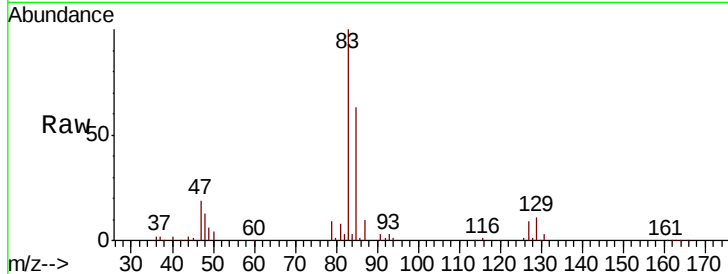




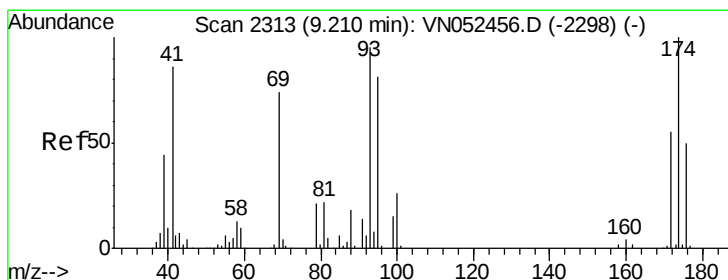
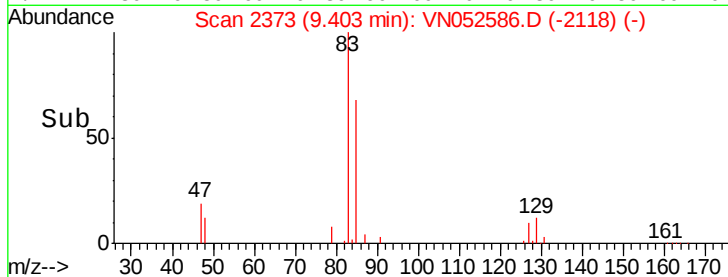
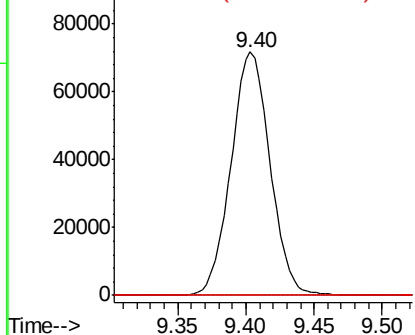
#38
Methvlcvclohexane
Concen: 7.869 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.32 min
Lab File: VN052586.D
Acq: 30 Nov 2018 1:30

Instrument :
MSVOA_N
ClientSampleId :
14B-3

Tot Ion: 83 Resp: 142293
Ion Ratio Lower Upper
83 100
55 0.0 39.8 119.4#
98 0.0 22.9 68.5#

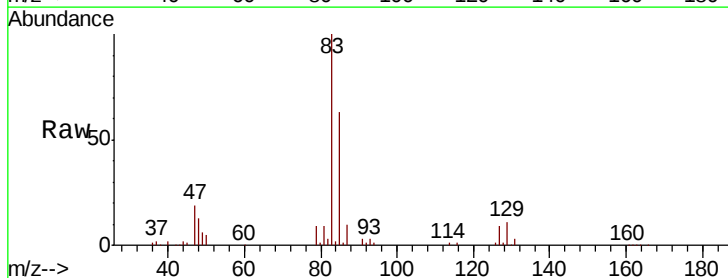


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

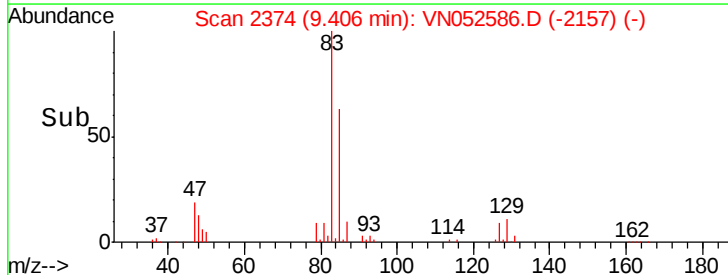
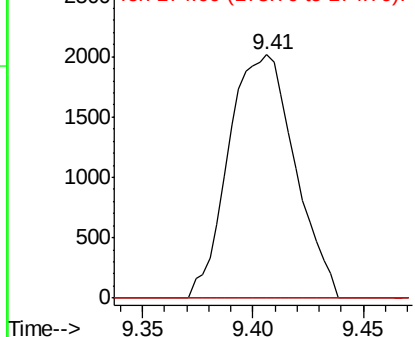


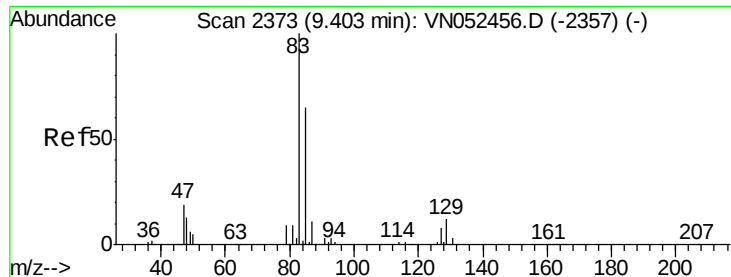
#40
Dibromomethane
Concen: 0.660 ug/l
RT: 9.41 min Scan# 2374
Delta R.T. 0.20 min
Lab File: VN052586.D
Acq: 30 Nov 2018 1:30

Tgt Ion: 93 Resp: 4196
Ion Ratio Lower Upper
93 100
95 0.0 0.0 168.4
174 0.0 0.0 210.0



Abundance Ion 93.00 (92.70 to 93.70): VN0
Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 10.124 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052586.D

Acq: 30 Nov 2018 1:30

Instrument :

MSVOA_N

ClientSampleId :

14B-3

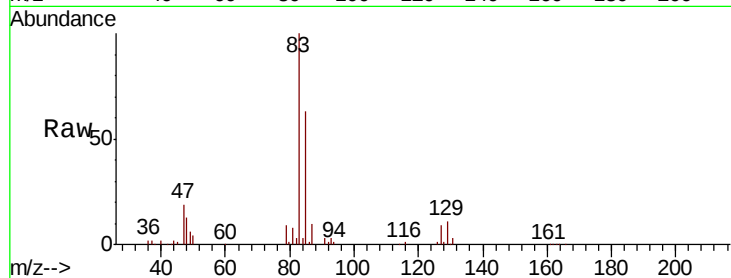
Tot Ion: 83 Resp: 142293

Ion Ratio Lower Upper

83 100

85 62.7 52.4 78.6

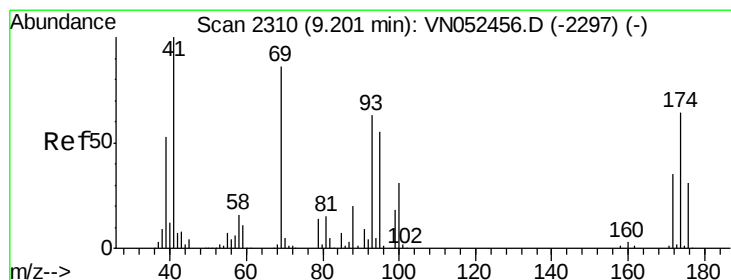
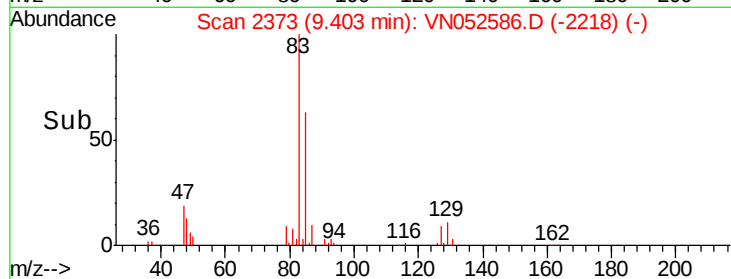
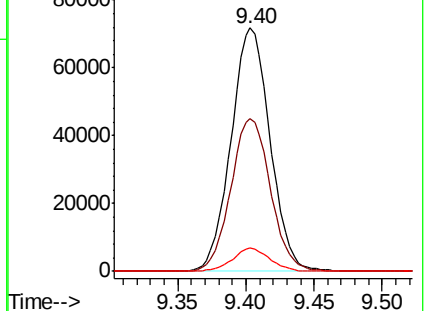
127 9.5 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN052586.D (-2357) (-)

Ion 85.00 (84.70 to 85.70): VN052586.D (-2357) (-)

Ion 127.00 (126.70 to 127.70): VN052586.D (-2357) (-)



#45

1,4-Dioxane

Concen: 0.878 ug/l

RT: 8.73 min Scan# 2164

Delta R.T. -0.47 min

Lab File: VN052586.D

Acq: 30 Nov 2018 1:30

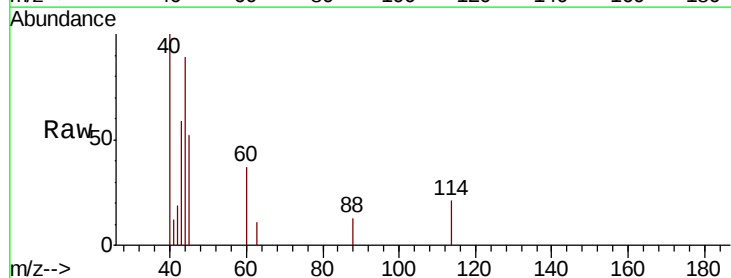
Tgt Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

43 235.7 29.5 44.3#

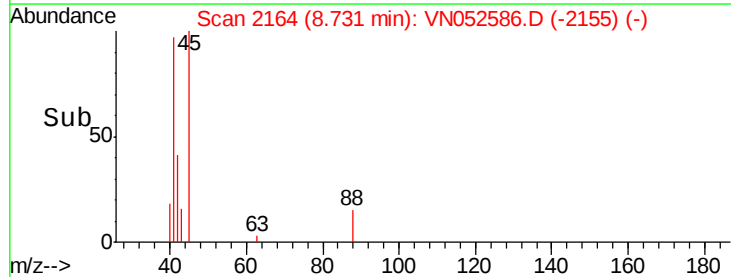
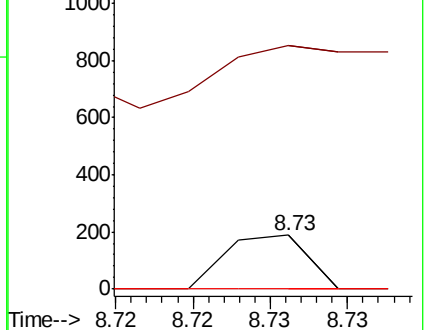
58 0.0 61.5 92.3#

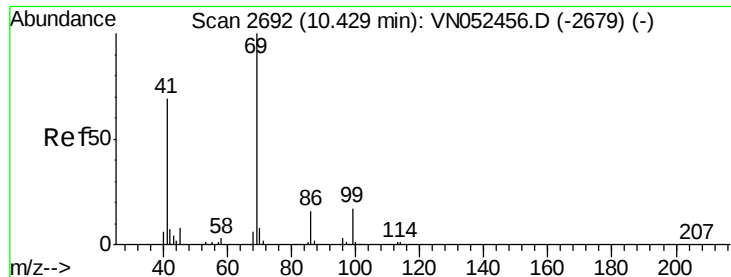


Abundance Ion 88.00 (87.70 to 88.70): VN052586.D (-2155) (-)

Ion 43.00 (42.70 to 43.70): VN052586.D (-2155) (-)

Ion 58.00 (57.70 to 58.70): VN052586.D (-2155) (-)





#51

Ethyl methacrylate

Concen: 0.284 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN052586.D

Acq: 30 Nov 2018 1:30

Instrument :

MSVOA_N

ClientSampled :

14B-3

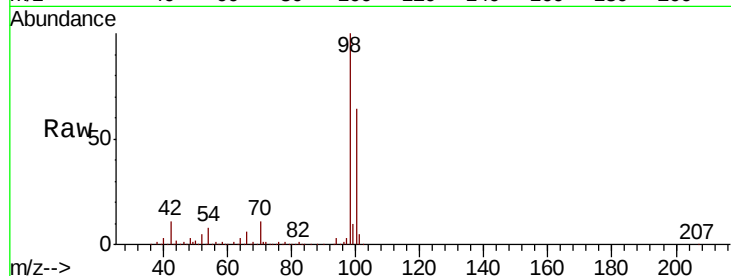
Tot Ion: 69 Resp: 3216

Ion Ratio Lower Upper

69 100

41 69.3 34.4 103.3

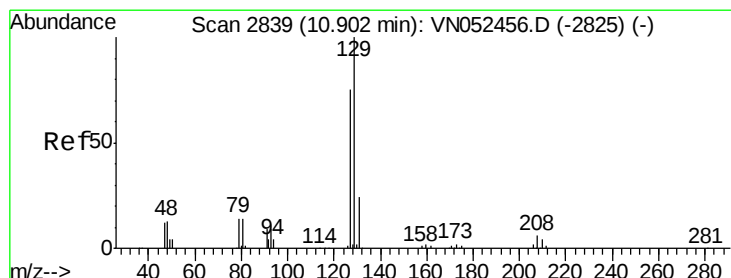
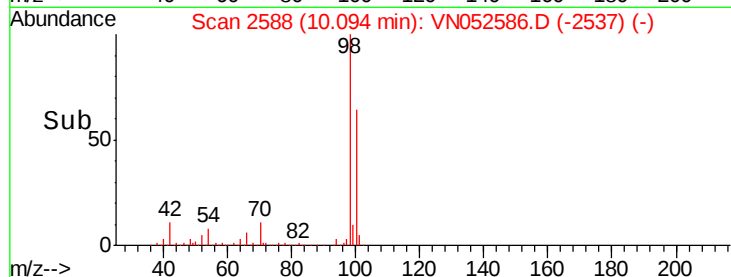
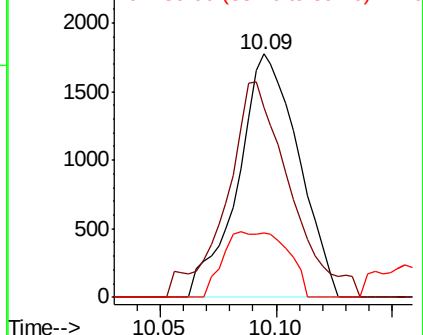
39 26.5 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN052586.D (-2537) (-)

Ion 41.00 (40.70 to 41.70): VN052586.D (-2537) (-)

Ion 39.00 (38.70 to 39.70): VN052586.D (-2537) (-)



#53

Dibromochloromethane

Concen: 0.679 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN052586.D

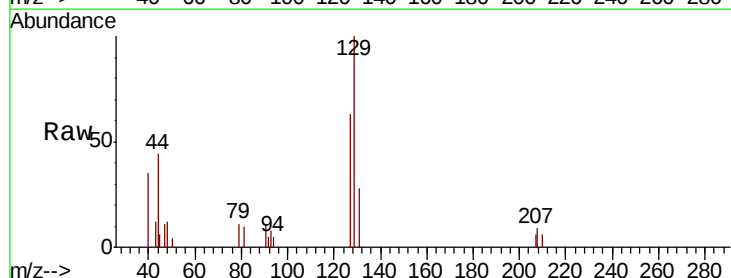
Acq: 30 Nov 2018 1:30

Tgt Ion: 129 Resp: 6740

Ion Ratio Lower Upper

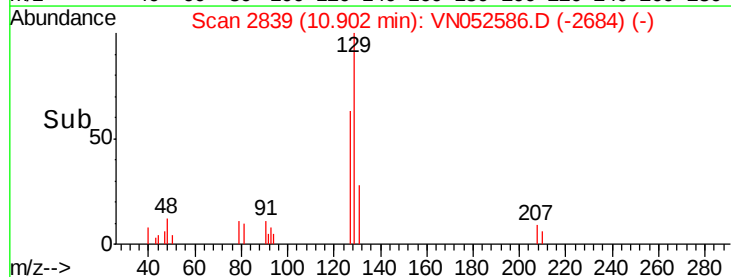
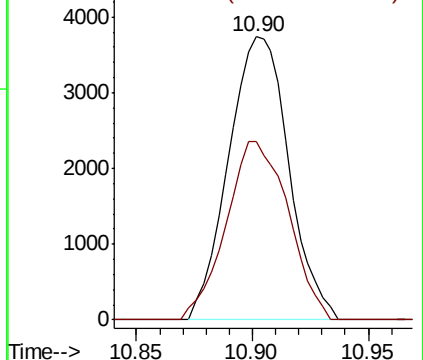
129 100

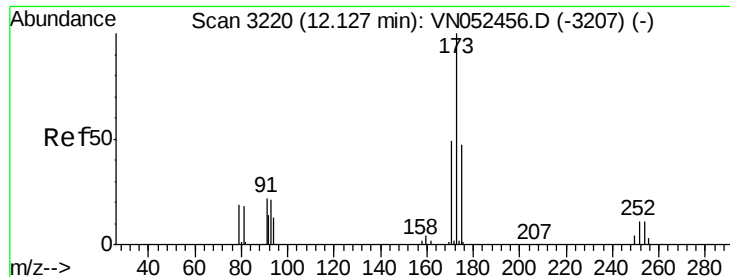
127 65.2 37.6 112.8



Abundance Ion 129.00 (128.70 to 129.70): VN052586.D (-2684) (-)

Ion 127.00 (126.70 to 127.70): VN052586.D (-2684) (-)

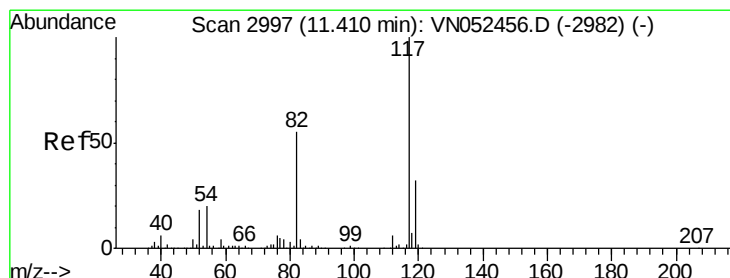
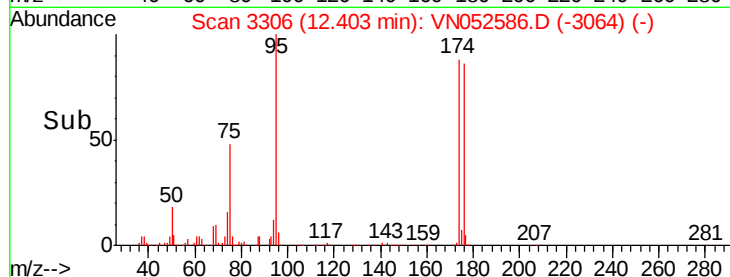
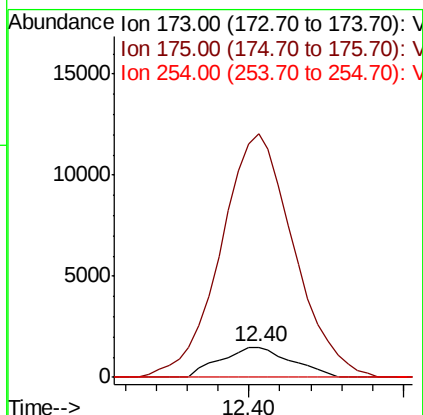
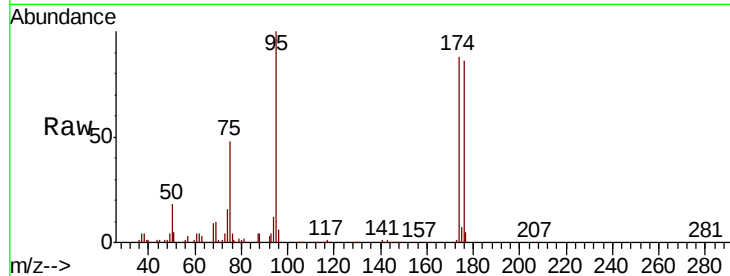




#56
Bromoform
Concen: 0.363 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052586.D
Acq: 30 Nov 2018 1:30

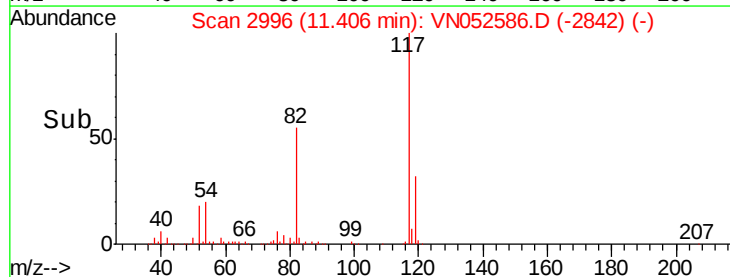
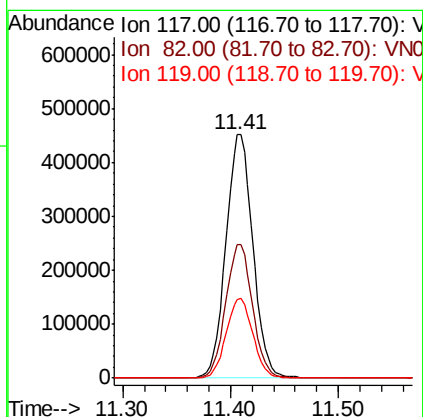
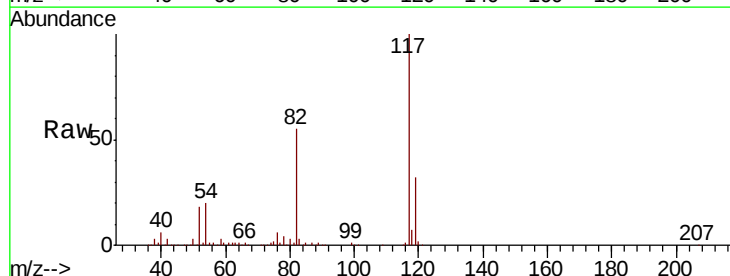
Instrument :
MSVOA_N
ClientSampleId :
14B-3

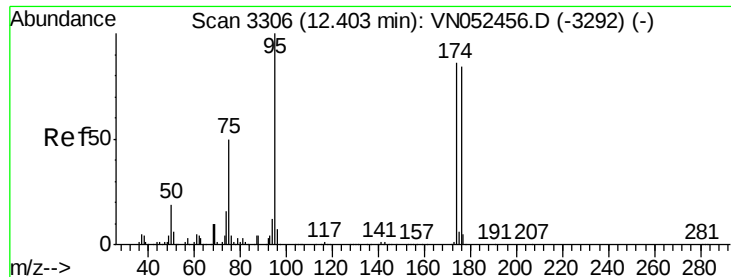
Tot Ion:173 Resp: 2357
Ion Ratio Lower Upper
173 100
175 839.4 38.7 58.1#
254 0.0 8.4 12.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052586.D
Acq: 30 Nov 2018 1:30

Tgt Ion:117 Resp: 787798
Ion Ratio Lower Upper
117 100
82 54.5 44.2 66.2
119 32.4 25.4 38.2





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN052586.D

Acq: 30 Nov 2018 1:30

Instrument :

MSVOA_N

ClientSampled :

14B-3

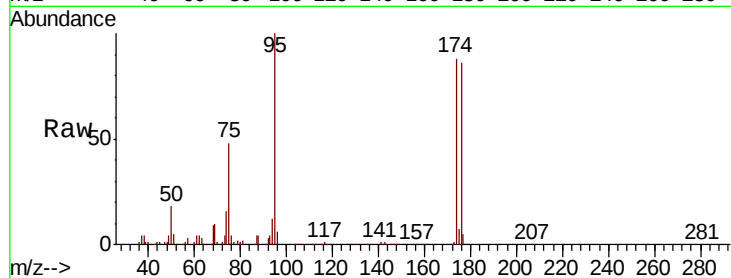
Tot Ion: 95 Resp: 310931

Ion Ratio Lower Upper

95 100

174 88.8 67.9 101.9

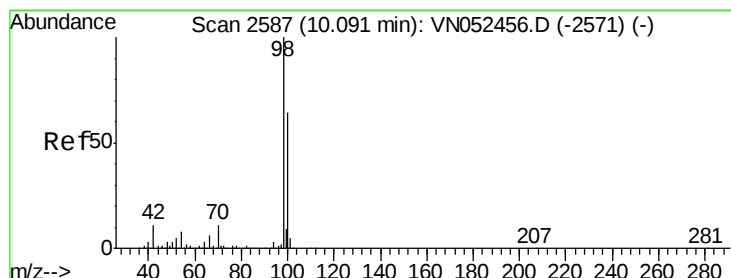
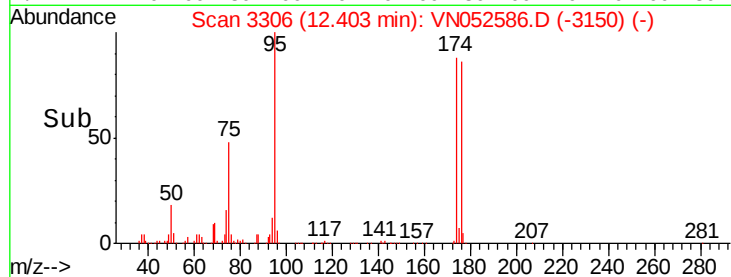
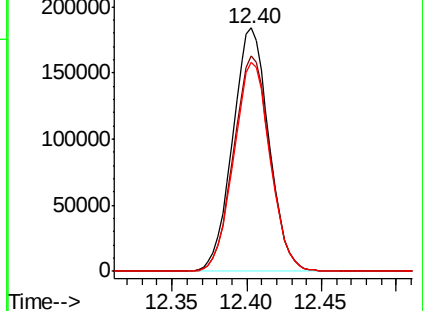
176 86.0 66.4 99.6



Abundance Ion 95.00 (94.70 to 95.70): VN052456.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN052456.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN052456.D (-3292) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052586.D

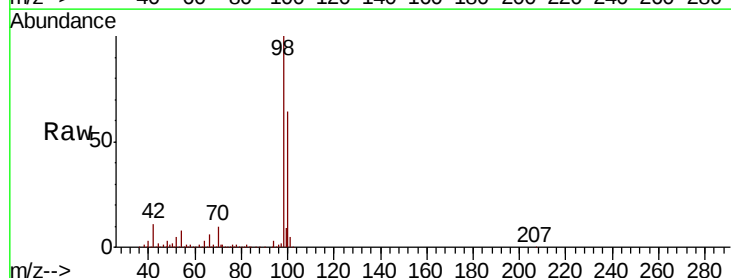
Acq: 30 Nov 2018 1:30

Tgt Ion: 98 Resp: 1110489

Ion Ratio Lower Upper

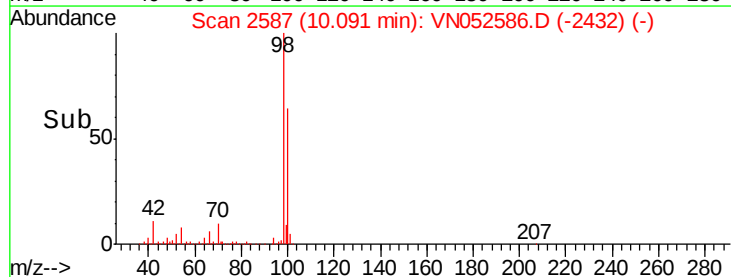
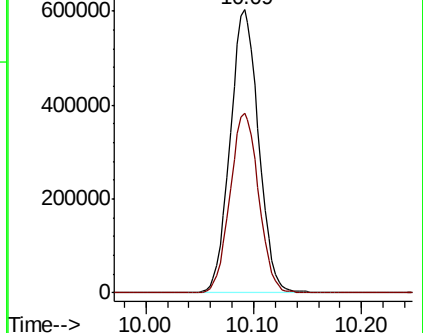
98 100

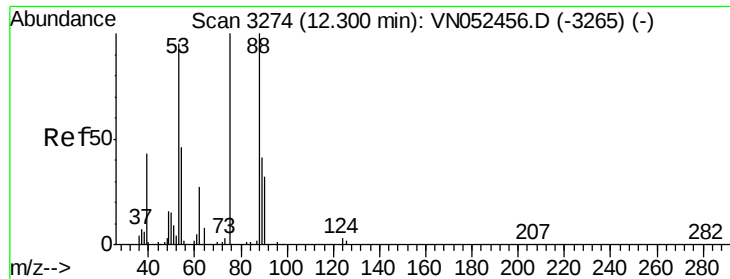
100 64.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN052456.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN052456.D (-2571) (-)





#77
t-1,4-Dichloro-2-butene
Concen: 57.076 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN052586.D
Acq: 30 Nov 2018 1:30

Instrument :
MSVOA_N
ClientSampleId :
14B-3

Tot Ion: 75 Resp: 151619
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.6#
89 0.0 21.7 65.1#

