

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112918\
 Data File : VN052582.D
 Acq On : 29 Nov 2018 23:44
 Operator : MD\SY
 Sample : J6144-01 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Quant Time: Nov 30 04:03:19 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	168683	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	977867	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	820947	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	342791	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%
60) 4-Bromofluorobenzene	12.40	95	338879	27.00	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.00%
63) Toluene-d8	10.09	98	1135828	29.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.47%

Target Compounds

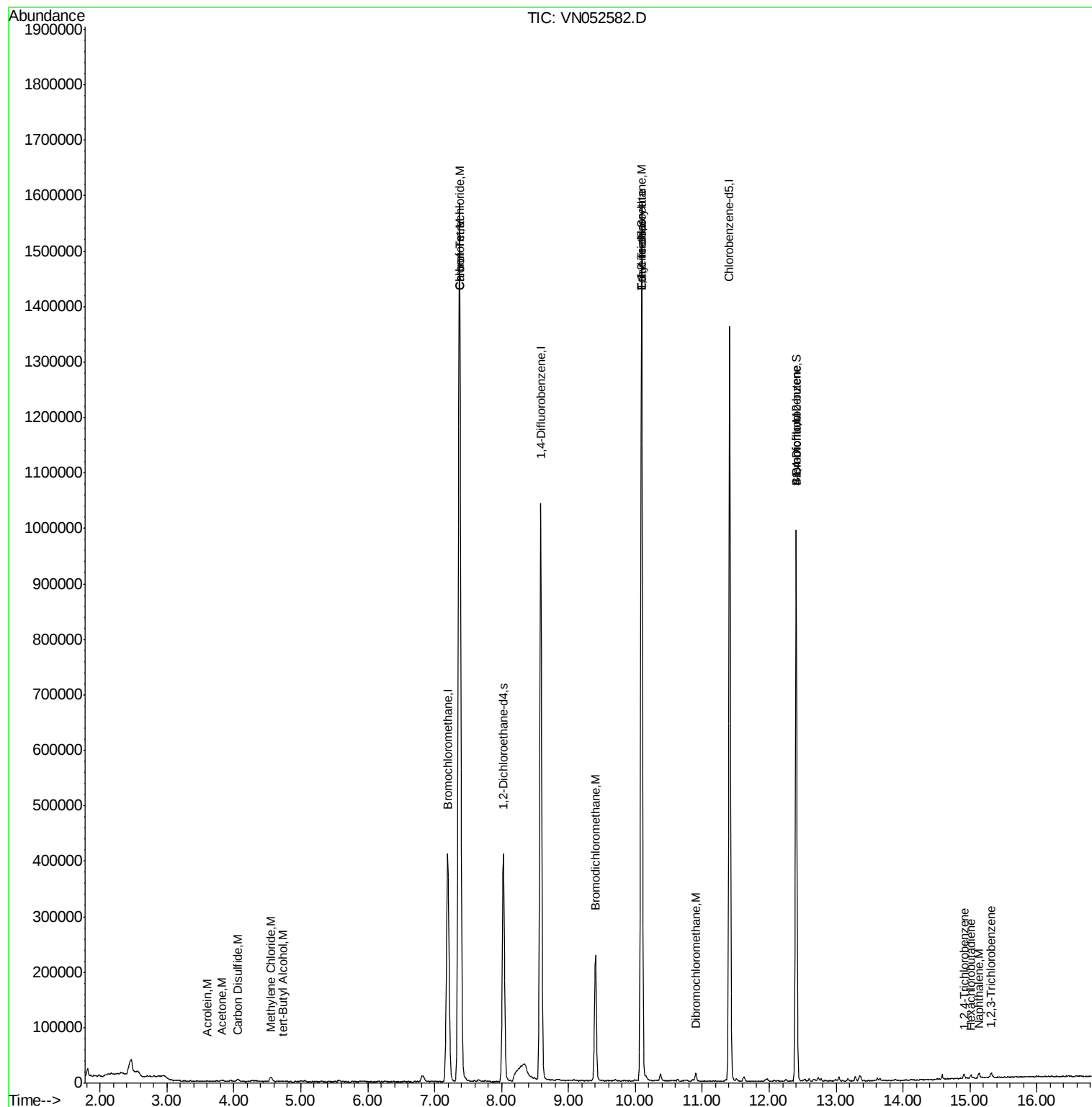
					Ovalue	
13) Acrolein	3.61	56	745	0.789	ug/l	# 79
15) Acetone	3.82	58	1231	1.388	ug/l	# 33
16) Carbon Disulfide	4.06	76	6879	0.230	ug/l	97
18) Methylene Chloride	4.56	84	5852	0.534	ug/l	# 80
23) tert-Butyl Alcohol	4.74	59	769	1.510	ug/l	# 100
25) Chloroform	7.37	83	1722718	90.373	ug/l	99
33) Carbon Tetrachloride	7.37	117	19348	1.423	ug/l	97
41) Bromodichloromethane	9.40	83	162394	11.302	ug/l	100
50) 1,1,2-Trichloroethane	10.10	97	33157	3.597	ug/l	# 1
51) Ethyl methacrylate	10.09	69	3698	0.319	ug/l	90
53) Dibromochloromethane	10.90	129	7449	0.734	ug/l	95
56) Bromoform	12.40	173	2284	0.344	ug/l	# 1
77) t-1,4-Dichloro-2-butene	12.40	75	161793	58.447	ug/l	# 11
89) 1,2,4-Trichlorobenzene	14.91	180	3110	0.332	ug/l	92
90) Hexachlorobutadiene	15.01	225	1586	0.258	ug/l	71
91) Naphthalene	15.14	128	8632	0.457	ug/l	# 94
92) 1,2,3-Trichlorobenzene	15.32	180	3281	0.380	ug/l	83

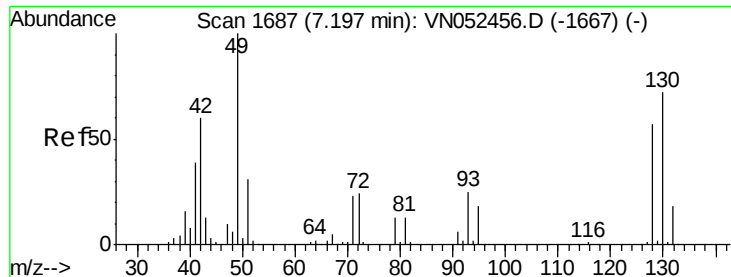
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1687

Delta R.T. 0.00 min

Lab File: VN052582.D

Acq: 29 Nov 2018 23:44

Instrument :

MSVOA_N

ClientSampled :

14B-1

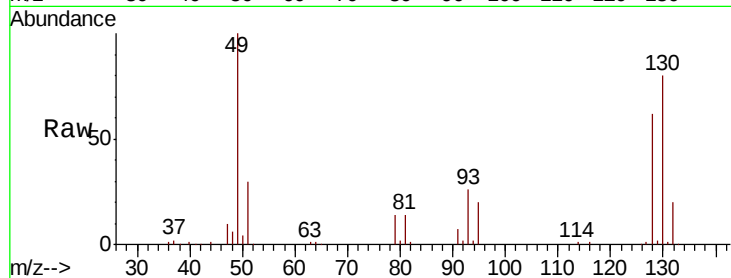
Tot Ion:128 Resp: 168683

Ion Ratio Lower Upper

128 100

49 160.6 0.0 431.8

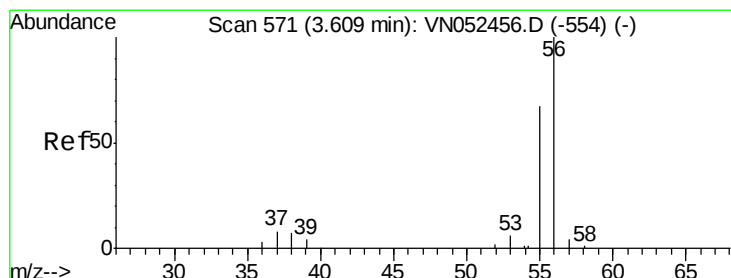
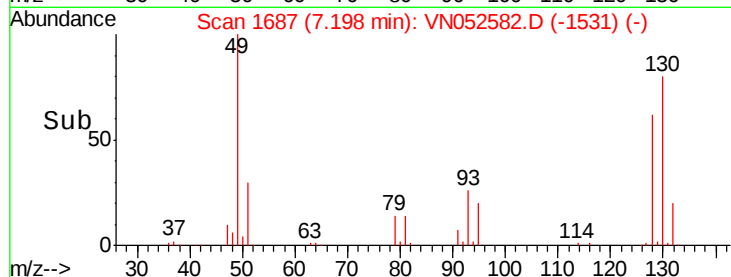
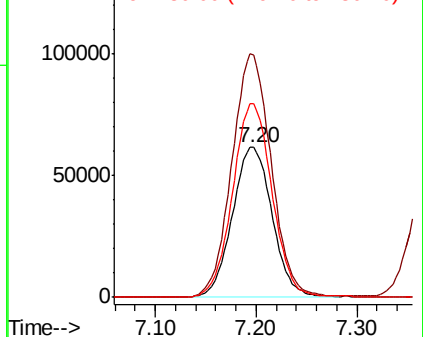
130 128.1 0.0 317.0



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: 0.789 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052582.D

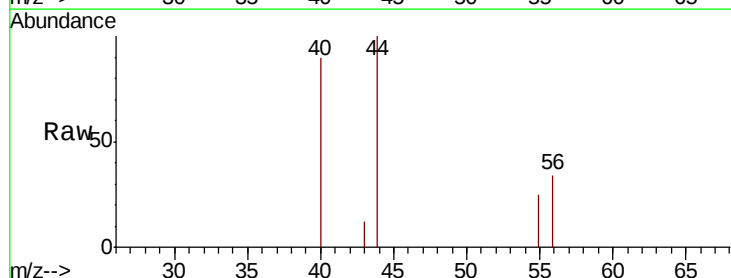
Acq: 29 Nov 2018 23:44

Tgt Ion: 56 Resp: 745

Ion Ratio Lower Upper

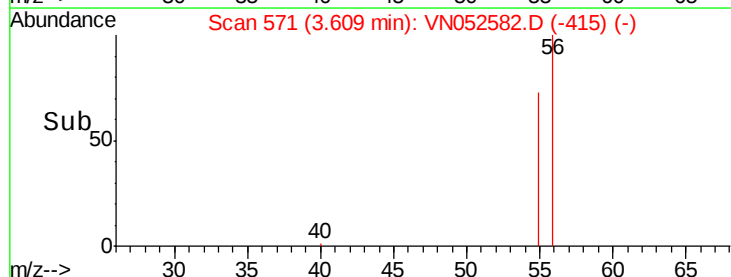
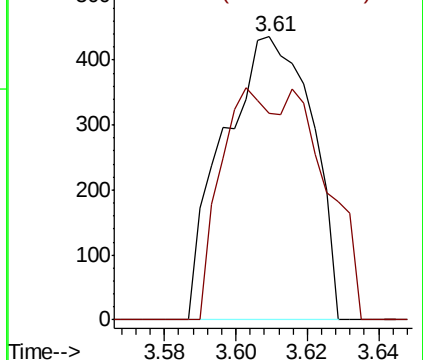
56 100

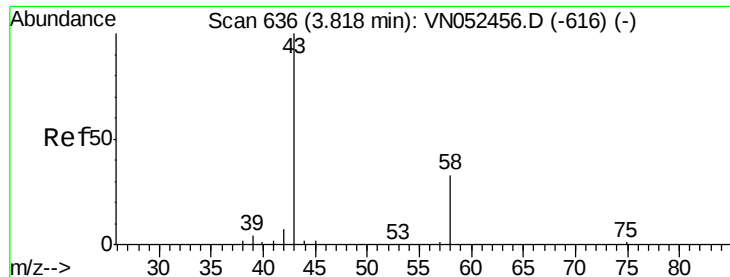
55 54.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 1.388 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052582.D

Acq: 29 Nov 2018 23:44

Instrument :

MSVOA_N

ClientSampleId :

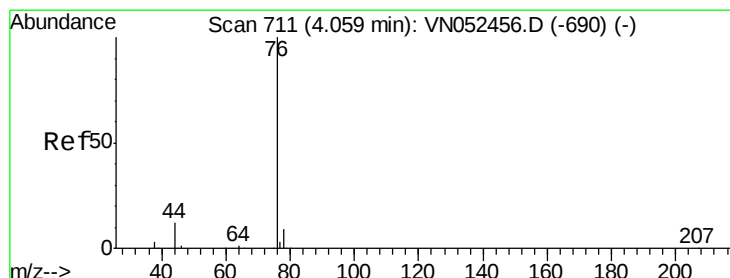
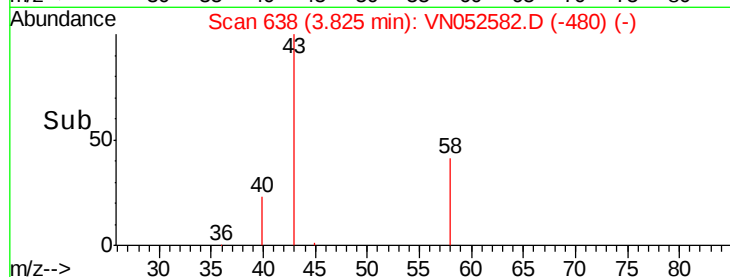
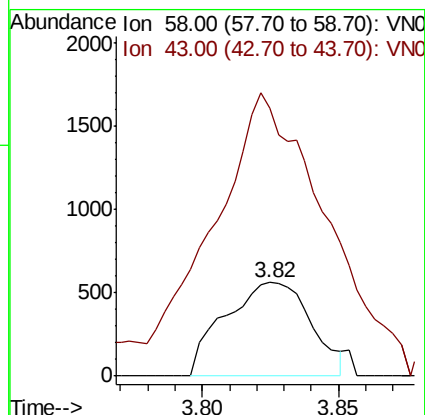
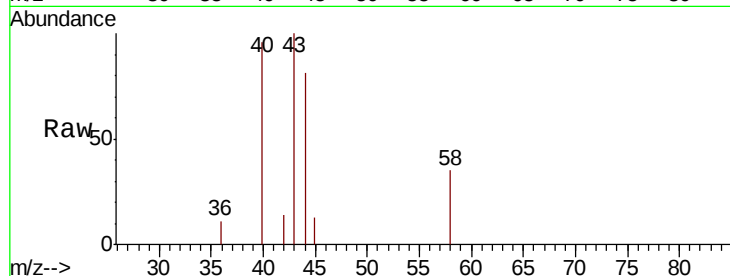
14B-1

Tot Ion: 58 Resp: 1231

Ion Ratio Lower Upper

58 100

43 172.6 243.6 365.4#



#16

Carbon Disulfide

Concen: 0.230 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052582.D

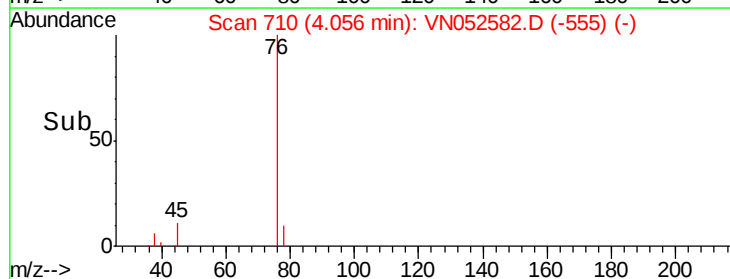
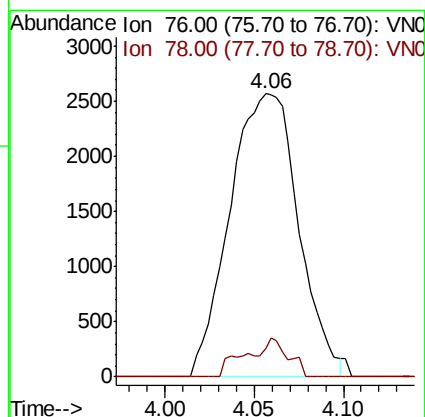
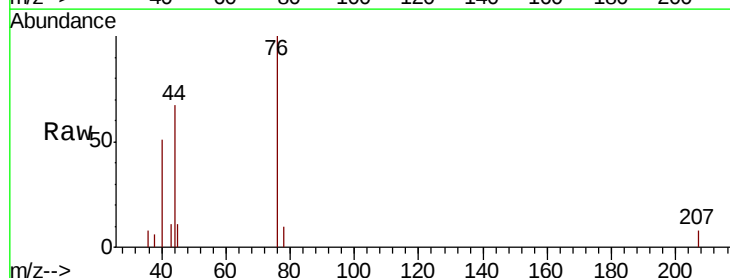
Acq: 29 Nov 2018 23:44

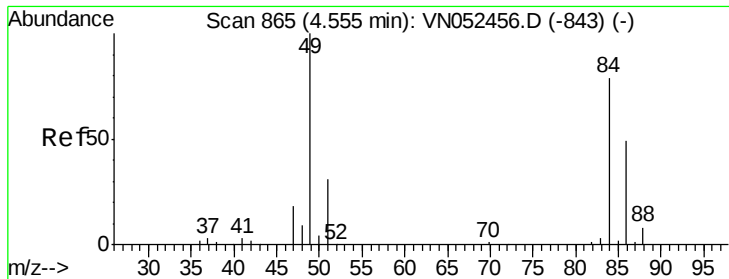
Tgt Ion: 76 Resp: 6879

Ion Ratio Lower Upper

76 100

78 10.1 7.3 10.9

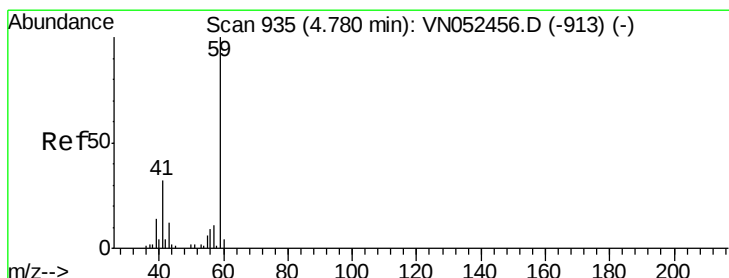
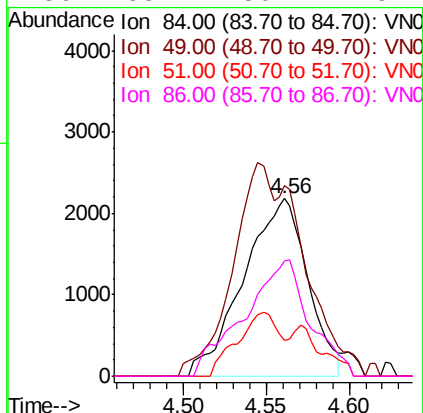
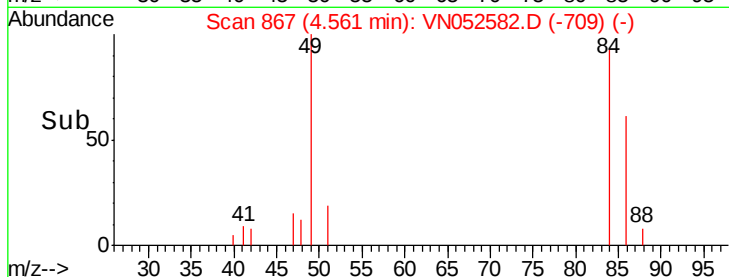
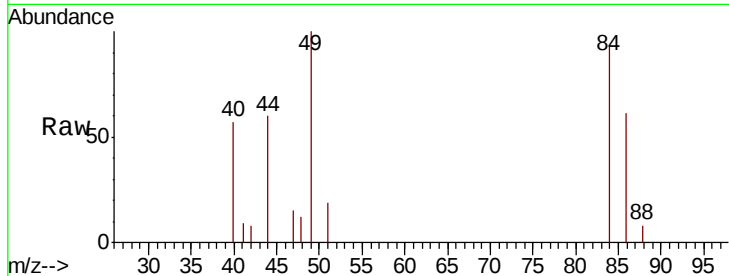




#18
Methvlene Chloride
Concen: 0.534 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052582.D
Acq: 29 Nov 2018 23:44

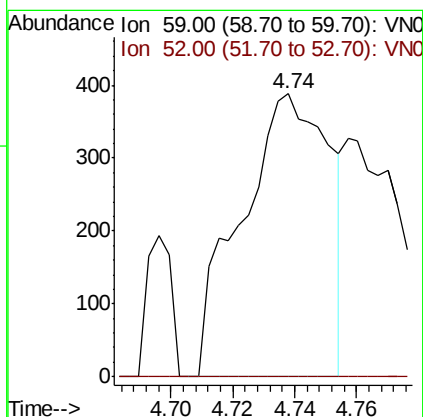
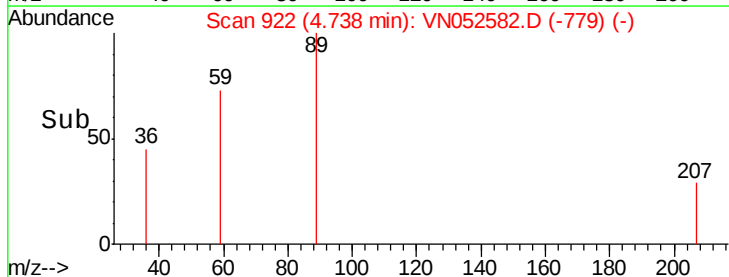
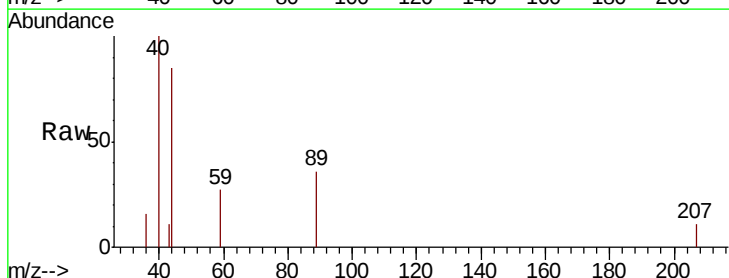
Instrument :
MSVOA_N
ClientSampled :
14B-1

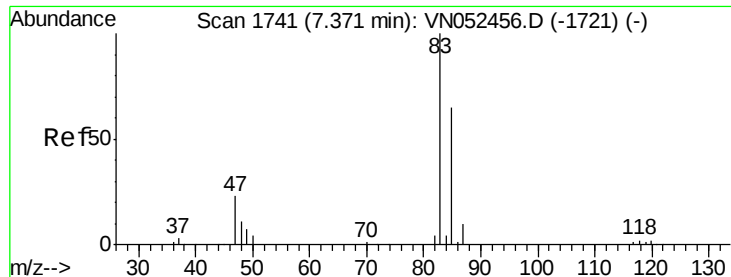
Tot Ion: 84 Resp: 5852
Ion Ratio Lower Upper
84 100
49 98.2 101.4 152.0#
51 20.2 31.7 47.5#
86 65.2 50.1 75.1



#23
tert-Butyl Alcohol
Concen: 1.510 ug/l
RT: 4.74 min Scan# 922
Delta R.T. -0.04 min
Lab File: VN052582.D
Acq: 29 Nov 2018 23:44

Tgt Ion: 59 Resp: 769
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

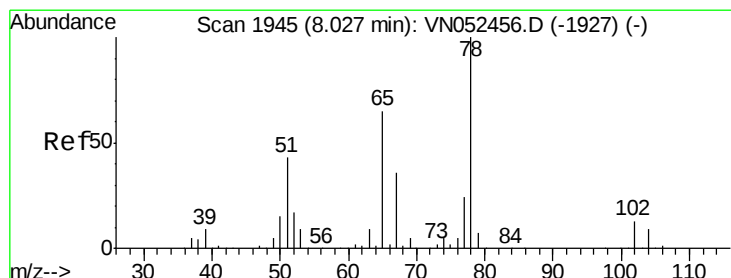
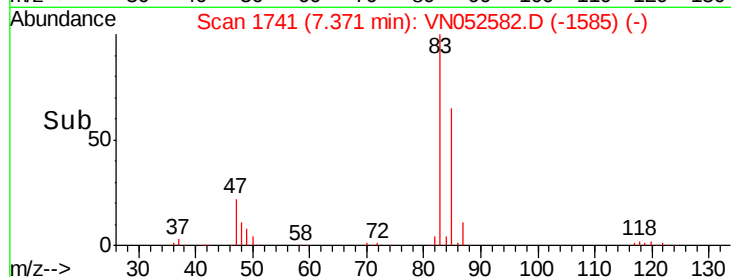
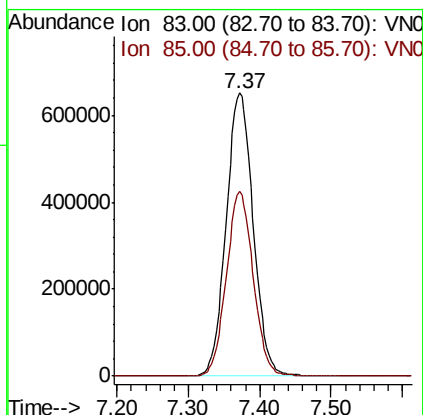
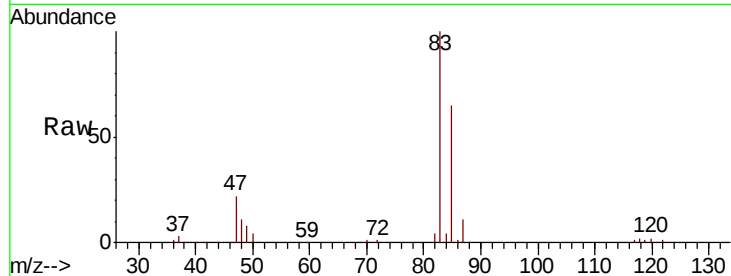




#25
Chloroform
Concen: 90.373 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN052582.D
Acq: 29 Nov 2018 23:44

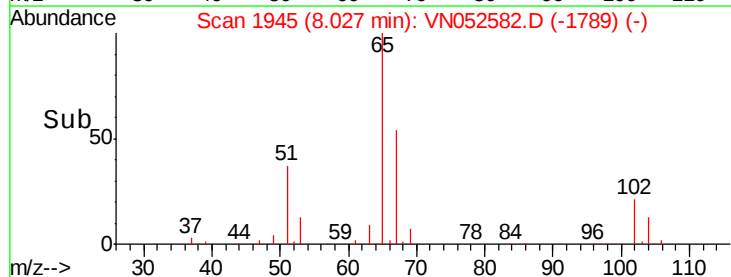
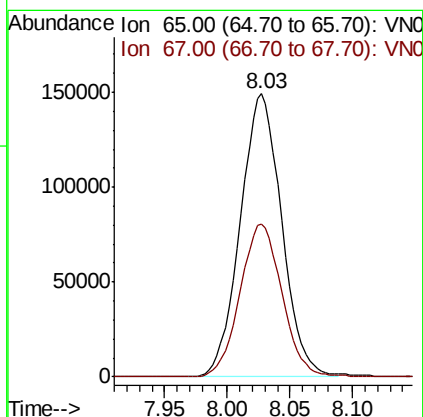
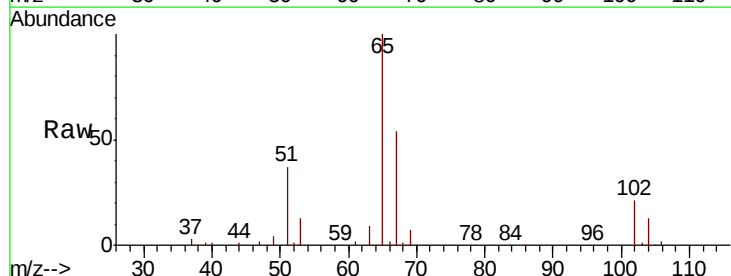
Instrument :
MSVOA_N
ClientSampled :
14B-1

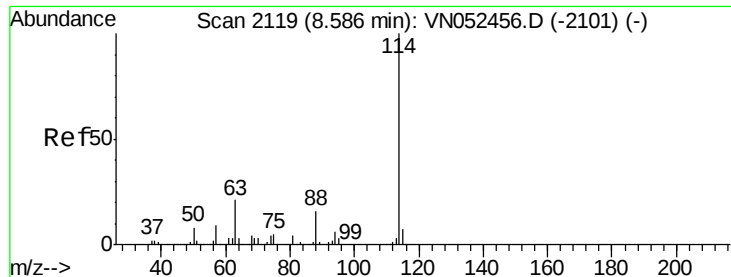
Tot Ion: 83 Resp: 1722718
Ion Ratio Lower Upper
83 100
85 65.2 51.7 77.5



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052582.D
Acq: 29 Nov 2018 23:44

Tgt Ion: 65 Resp: 342791
Ion Ratio Lower Upper
65 100
67 54.8 44.6 66.8

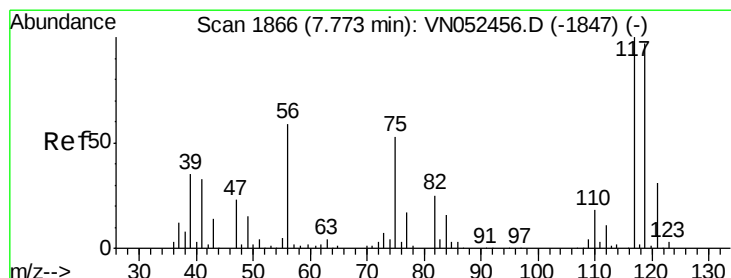
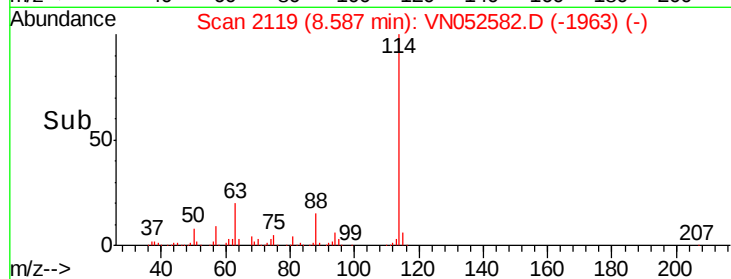
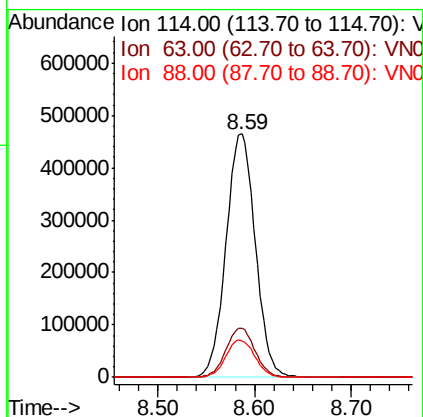
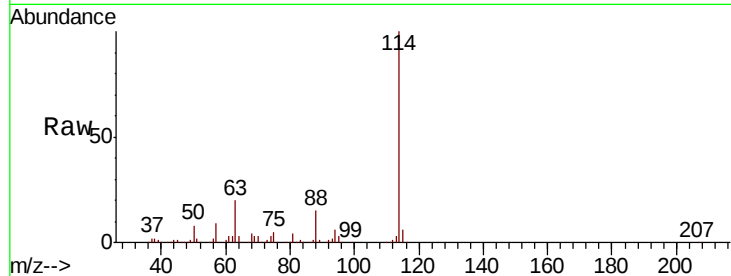




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052582.D
 Acq: 29 Nov 2018 23:44

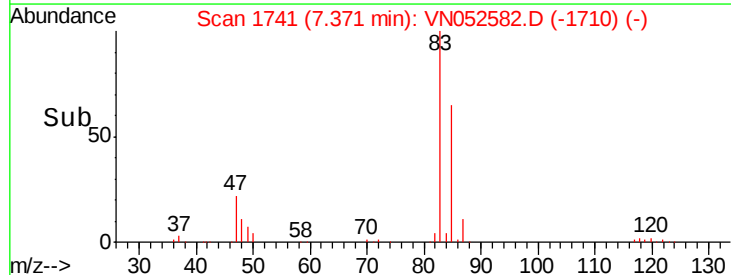
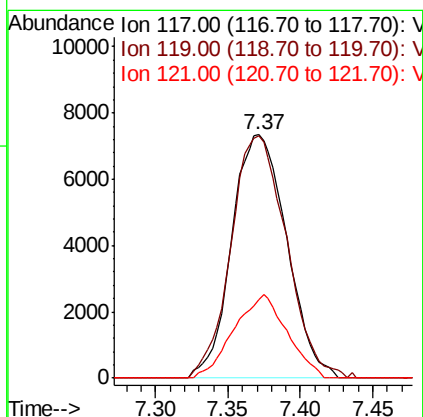
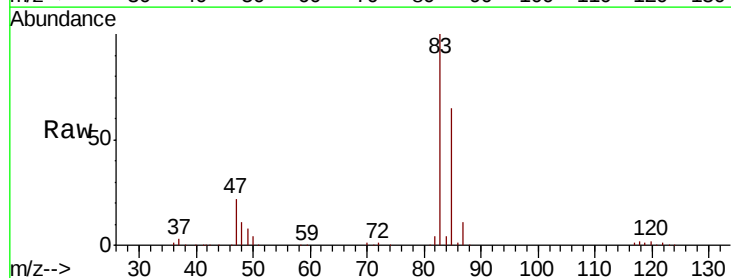
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

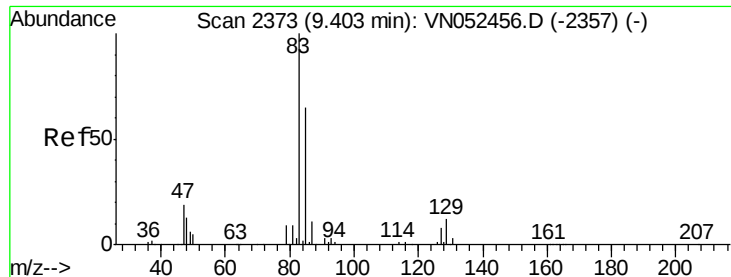
Tot Ion:114 Resp: 977867
 Ion Ratio Lower Upper
 114 100
 63 20.1 16.9 25.3
 88 15.3 12.8 19.2



#33
 Carbon Tetrachloride
 Concen: 1.423 ug/l
 RT: 7.37 min Scan# 1741
 Delta R.T. -0.40 min
 Lab File: VN052582.D
 Acq: 29 Nov 2018 23:44

Tgt Ion:117 Resp: 19348
 Ion Ratio Lower Upper
 117 100
 119 99.7 77.3 115.9
 121 32.2 24.9 37.3





#41

Bromodichloromethane

Concen: 11.302 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052582.D

Acq: 29 Nov 2018 23:44

Instrument :

MSVOA_N

ClientSampled :

14B-1

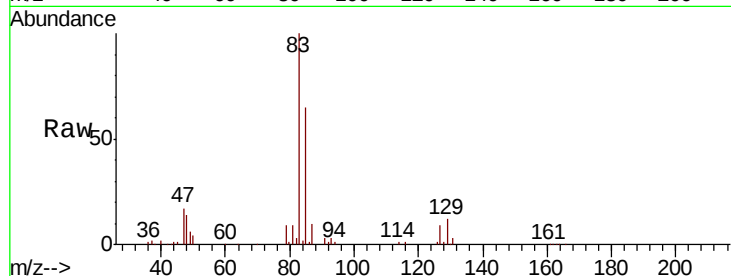
Tot Ion: 83 Resp: 162394

Ion Ratio Lower Upper

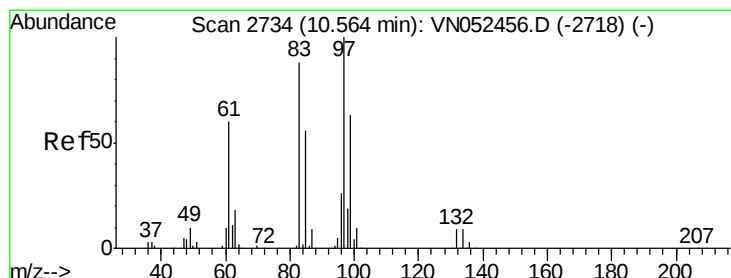
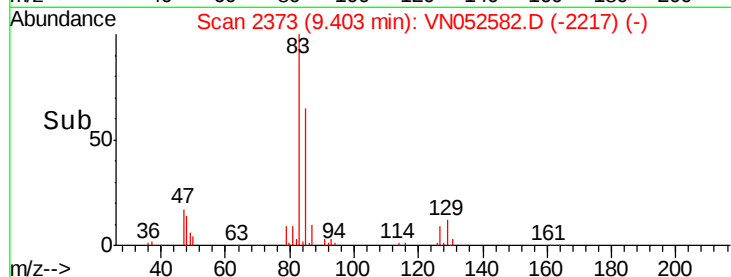
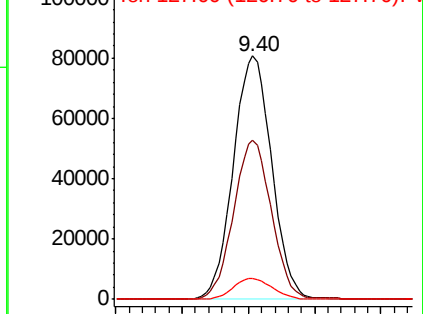
83 100

85 65.2 52.4 78.6

127 8.7 6.6 9.8



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: 3.597 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.47 min

Lab File: VN052582.D

Acq: 29 Nov 2018 23:44

Tgt Ion: 97 Resp: 33157

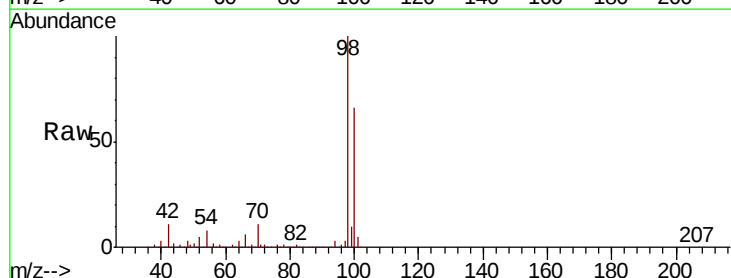
Ion Ratio Lower Upper

97 100

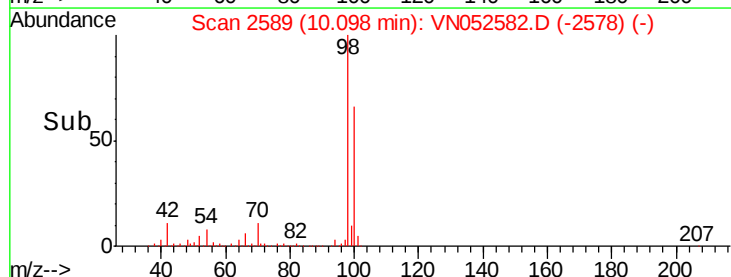
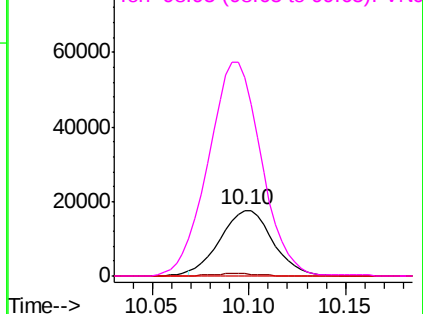
83 3.1 70.4 105.6#

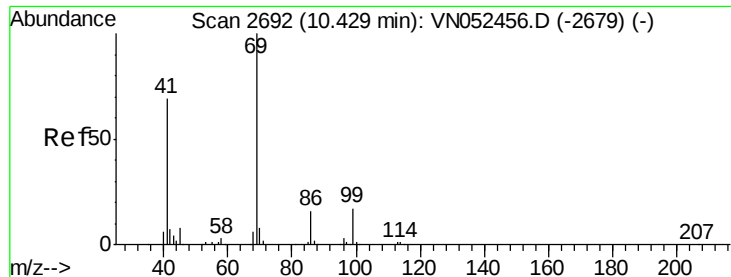
85 0.0 45.0 67.6#

99 301.4 50.2 75.2#



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: 0.319 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN052582.D

Acq: 29 Nov 2018 23:44

Instrument :

MSVOA_N

ClientSampled :

14B-1

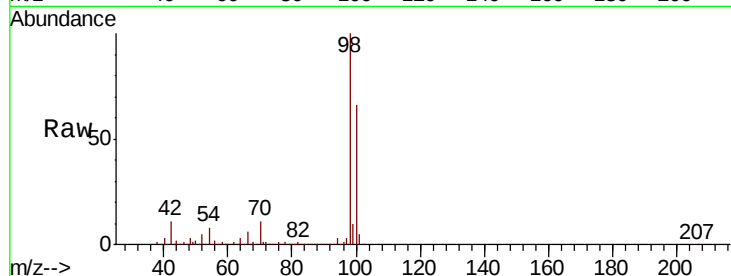
Tot Ion: 69 Resp: 3698

Ion Ratio Lower Upper

69 100

41 61.7 34.4 103.3

39 26.0 16.4 49.2

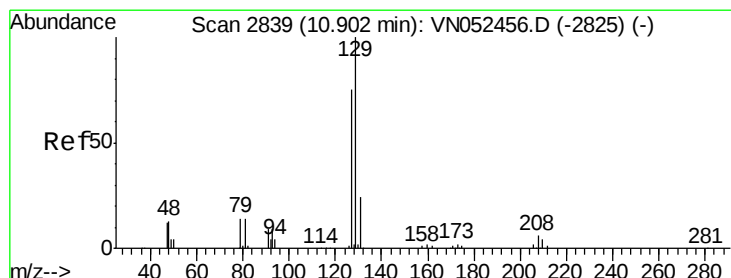
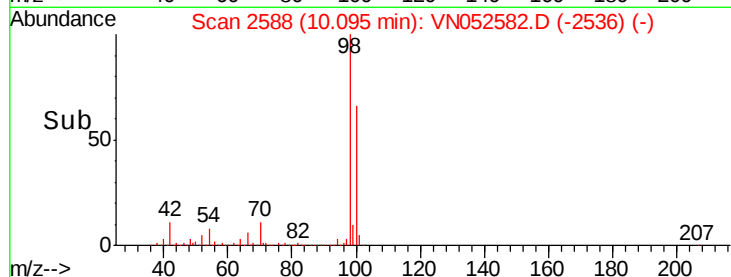
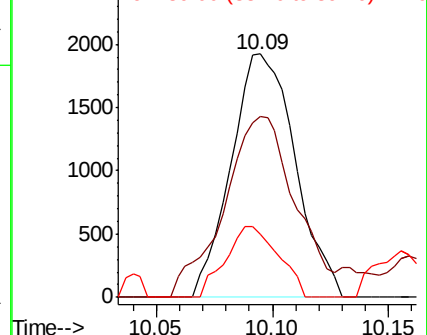


Abundance

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



#53

Dibromochloromethane

Concen: 0.734 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052582.D

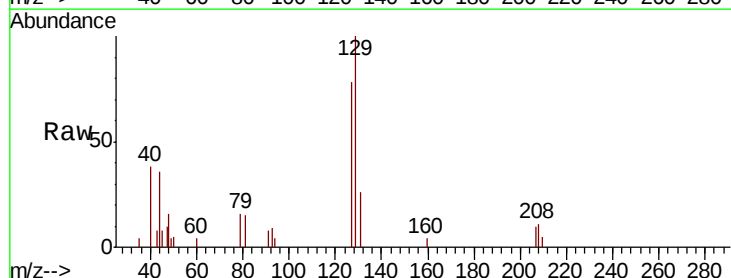
Acq: 29 Nov 2018 23:44

Tgt Ion: 129 Resp: 7449

Ion Ratio Lower Upper

129 100

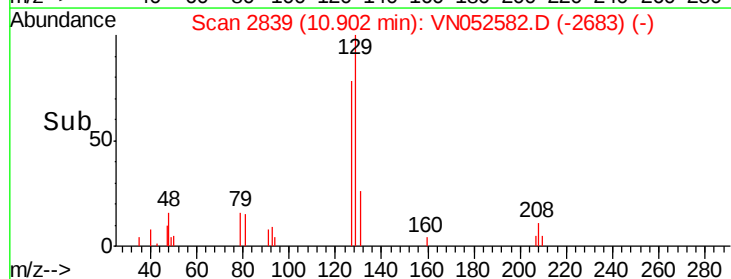
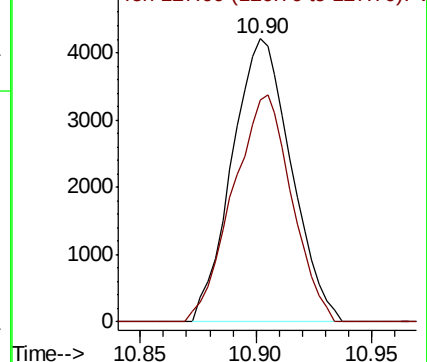
127 79.7 37.6 112.8

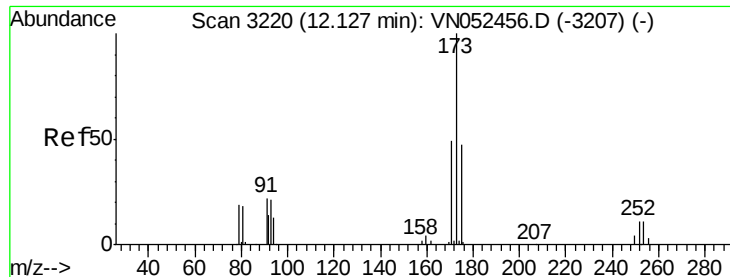


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

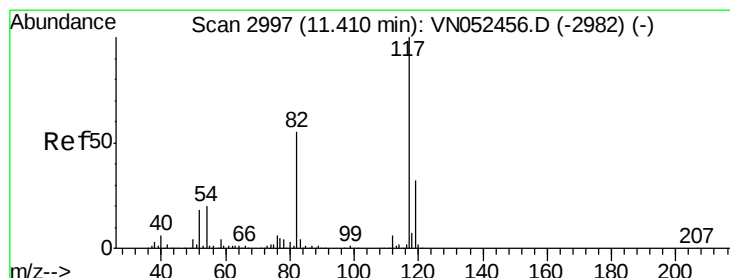
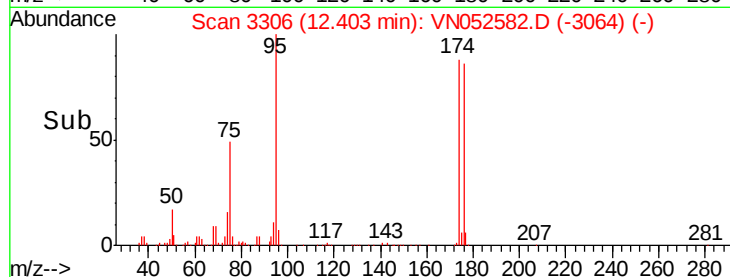
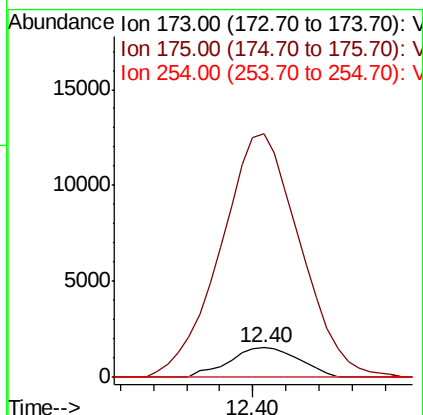
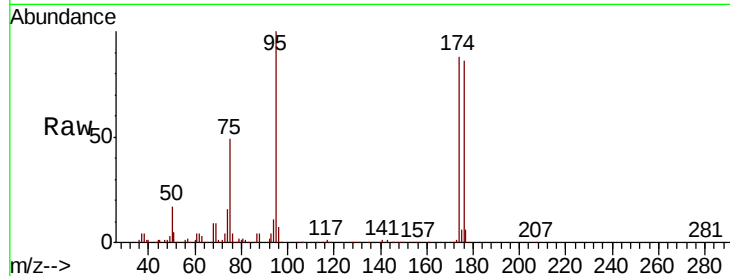




#56
Bromoform
Concen: 0.344 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052582.D
Acq: 29 Nov 2018 23:44

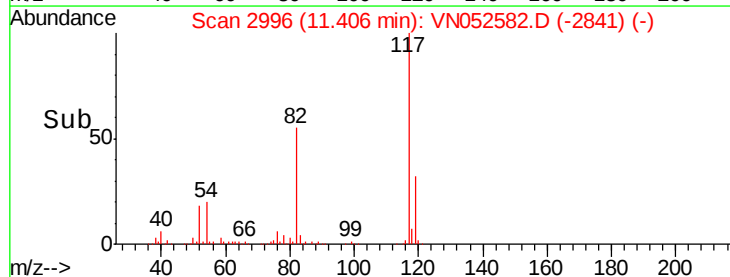
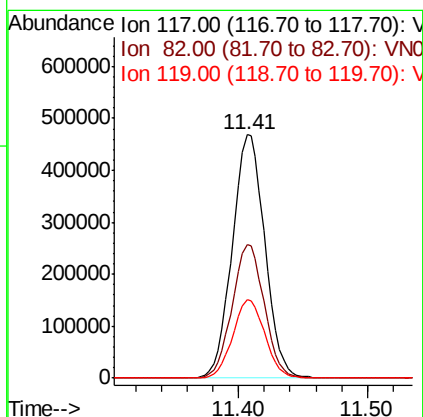
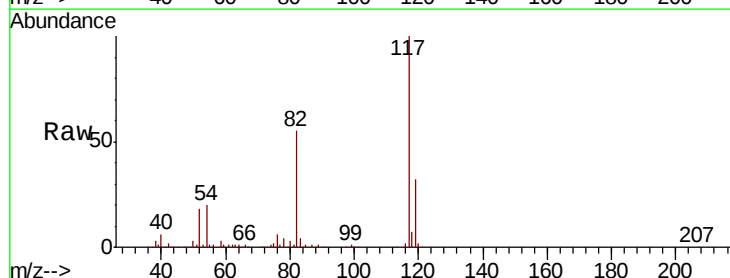
Instrument :
MSVOA_N
ClientSampleId :
14B-1

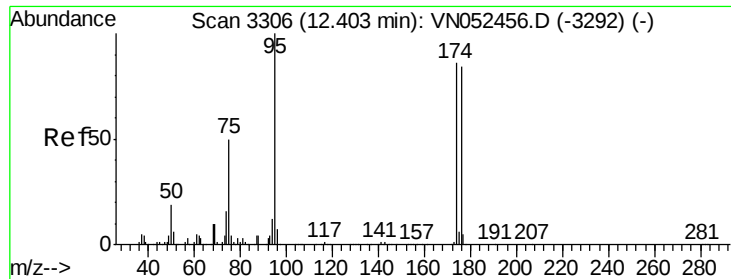
Tot Ion:173 Resp: 2284
Ion Ratio Lower Upper
173 100
175 927.9 38.7 58.1#
254 0.0 8.4 12.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052582.D
Acq: 29 Nov 2018 23:44

Tgt Ion:117 Resp: 820947
Ion Ratio Lower Upper
117 100
82 54.2 44.2 66.2
119 31.9 25.4 38.2

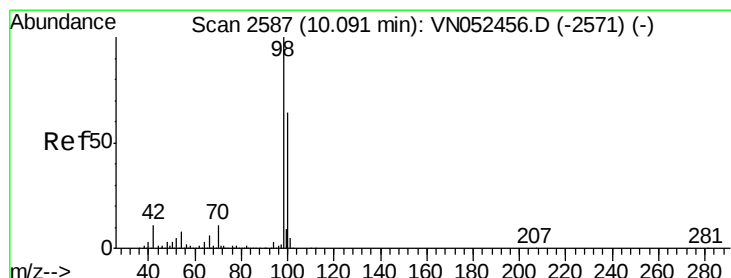
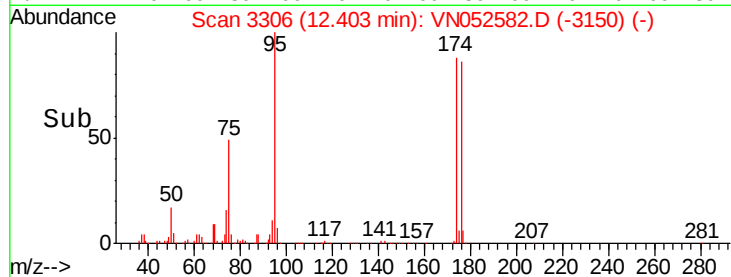
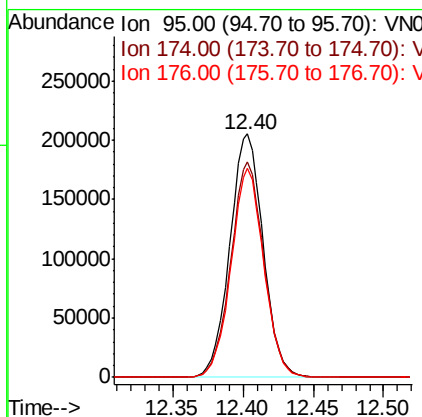
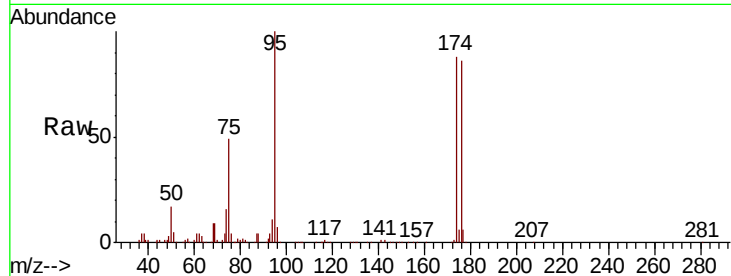




#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052582.D
Acq: 29 Nov 2018 23:44

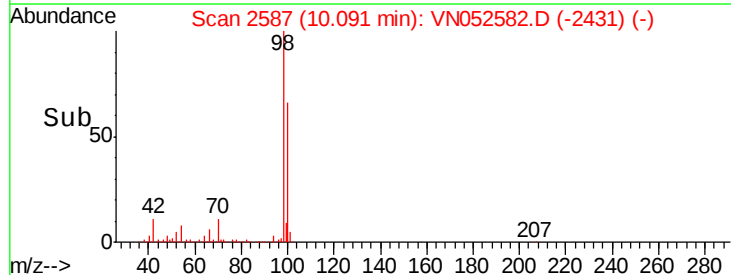
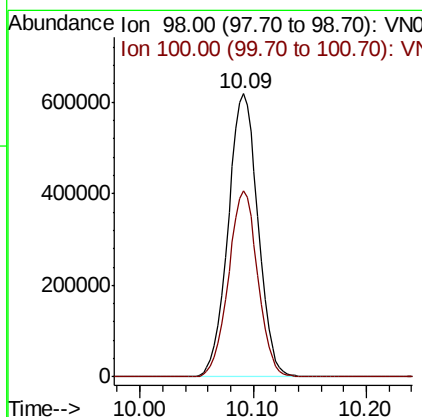
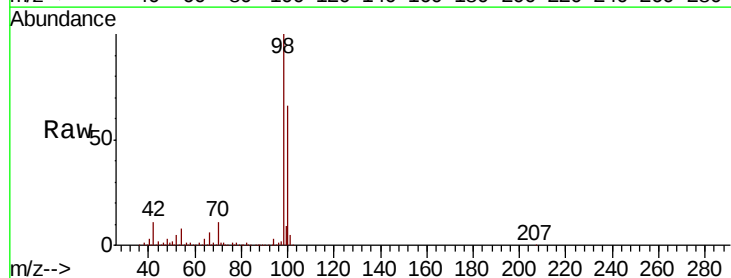
Instrument :
MSVOA_N
ClientSampled :
14B-1

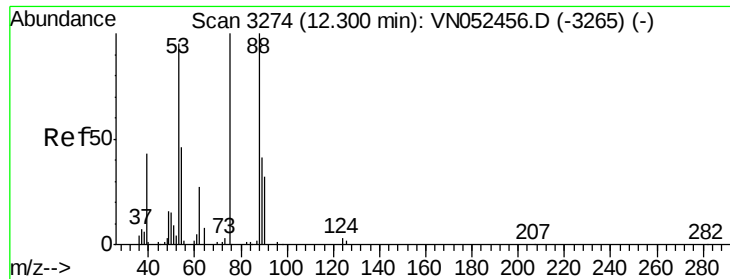
Tot Ion: 95 Resp: 338879
Ion Ratio Lower Upper
95 100
174 88.0 67.9 101.9
176 84.1 66.4 99.6



#63
Toluene-d8
Concen: Below ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052582.D
Acq: 29 Nov 2018 23:44

Tgt Ion: 98 Resp: 1135828
Ion Ratio Lower Upper
98 100
100 64.5 51.1 76.7

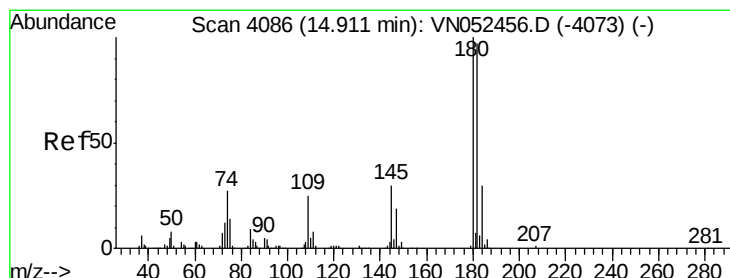
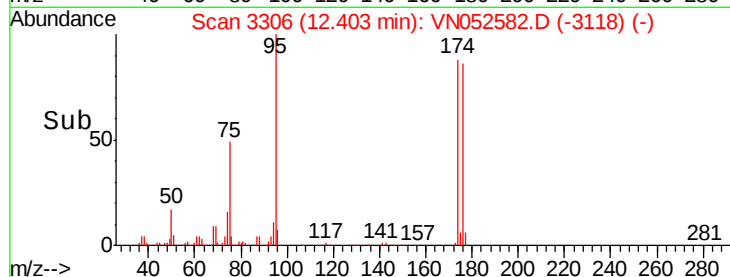
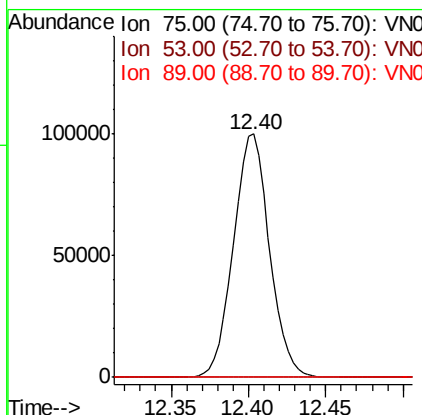
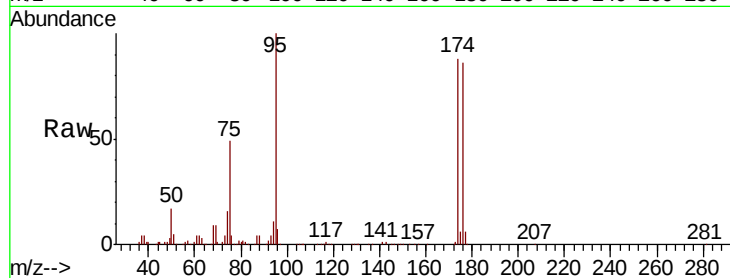




#77
 t-1,4-Dichloro-2-butene
 Concen: 58.447 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN052582.D
 Acq: 29 Nov 2018 23:44

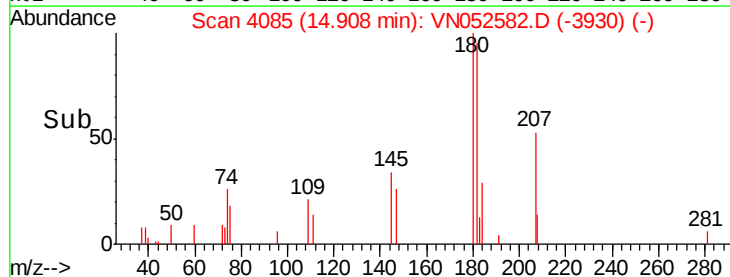
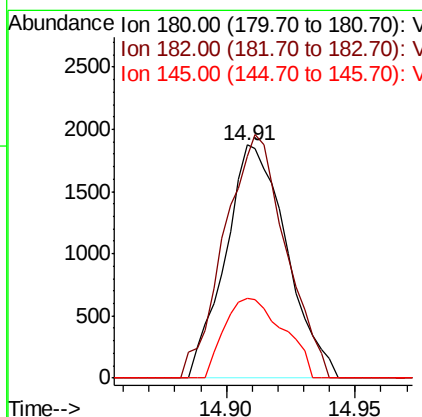
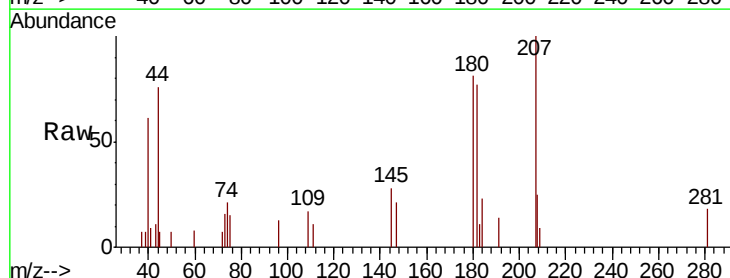
Instrument :
 MSVOA_N
 ClientSampled :
 14B-1

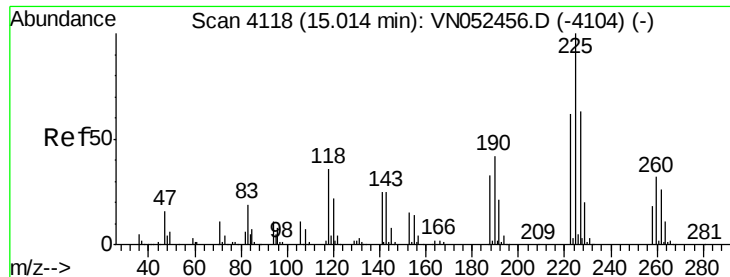
Tot Ion: 75 Resp: 161793
 Ion Ratio Lower Upper
 75 100
 53 0.0 48.5 145.6#
 89 0.0 21.7 65.1#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.332 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052582.D
 Acq: 29 Nov 2018 23:44

Tgt Ion: 180 Resp: 3110
 Ion Ratio Lower Upper
 180 100
 182 104.4 76.6 114.8
 145 32.8 23.6 35.4

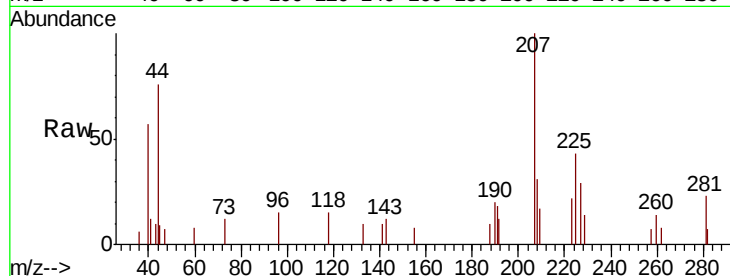




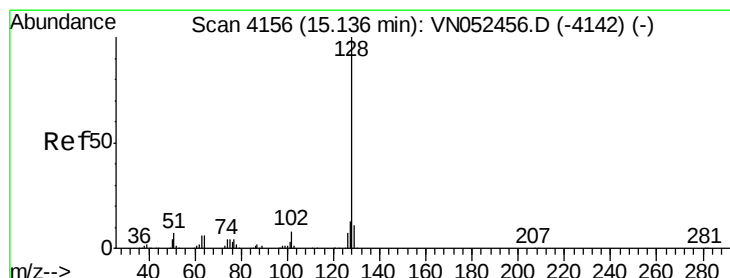
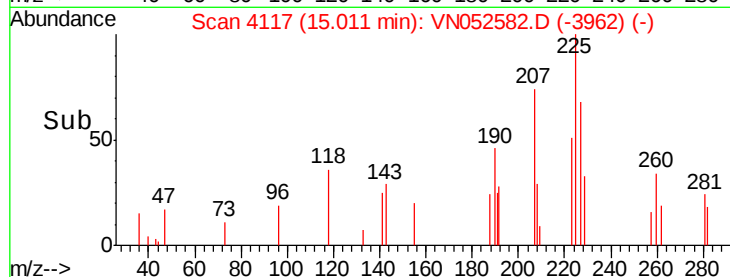
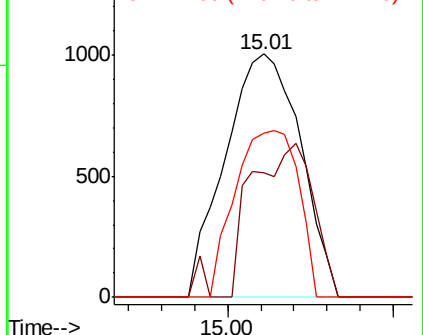
#90
Hexachlorobutadiene
Concen: 0.258 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. -0.00 min
Lab File: VN052582.D
Acq: 29 Nov 2018 23:44

Instrument :
MSVOA_N
ClientSampled :
14B-1

Tot Ion:225 Resp: 1586
Ion Ratio Lower Upper
225 100
223 24.3 0.0 125.6
227 57.4 0.0 127.8

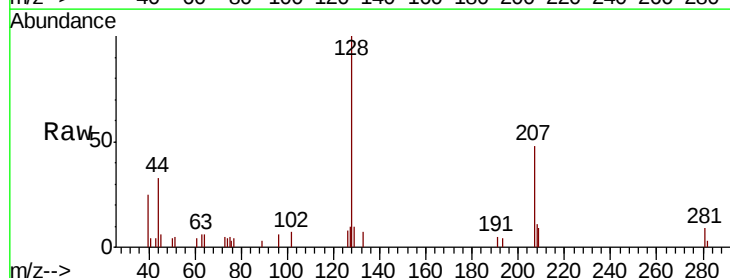


Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V

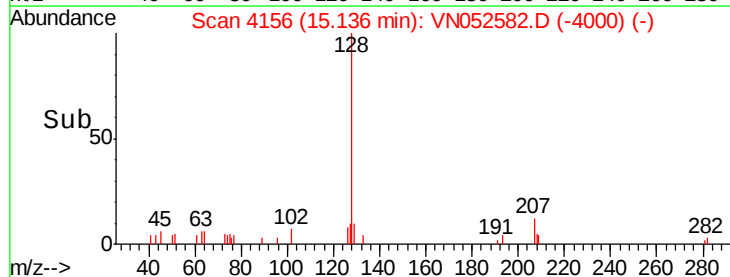
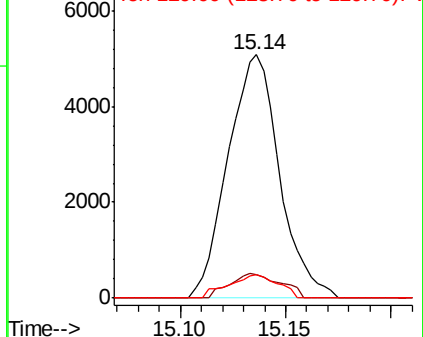


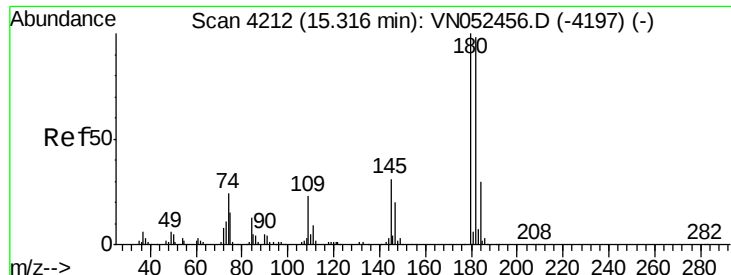
#91
Naphthalene
Concen: 0.457 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN052582.D
Acq: 29 Nov 2018 23:44

Tgt Ion:128 Resp: 8632
Ion Ratio Lower Upper
128 100
127 10.0 9.9 14.9
129 8.4 8.5 12.7#



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





#92
 1,2,3-Trichlorobenzene
 Concen: 0.380 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052582.D
 Acq: 29 Nov 2018 23:44

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Tot Ion	Ratio	Lower	Upper
180	100		
182	111.6	0.0	196.2
145	16.5	0.0	62.2

