

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122319\
 Data File : VX014202.D
 Acq On : 23 Dec 2019 15:13
 Operator : JC/SP
 Sample : K6393-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-BNM-1

Quant Time: Dec 24 01:30:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	576416	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	888260	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	806384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	373438	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	316285	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
35) Dibromofluoromethane	5.49	113	267336	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
50) Toluene-d8	8.71	98	1051906	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
62) 4-Bromofluorobenzene	11.13	95	361434	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	

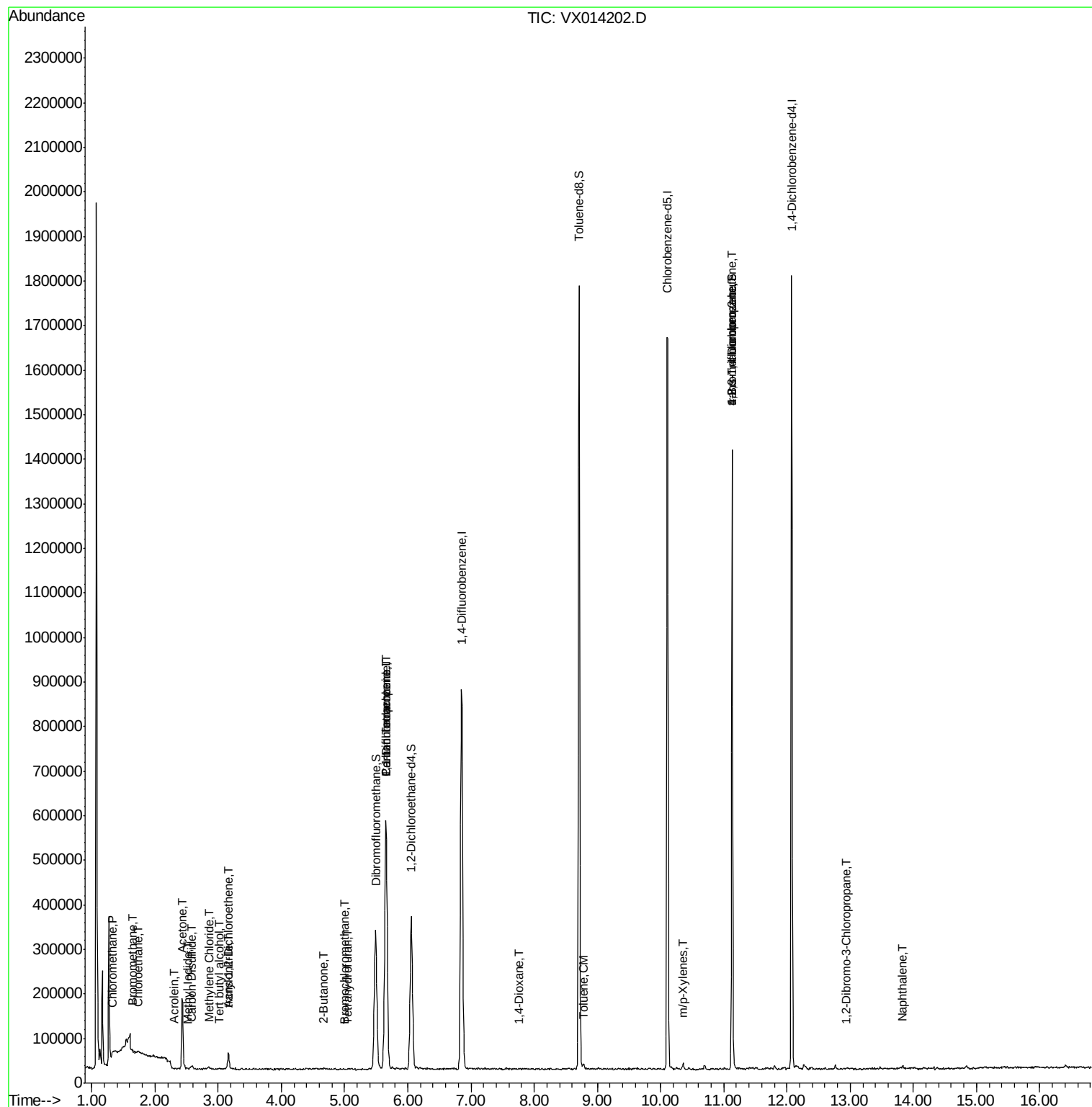
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2163	0.313	ug/l #	58
5) Bromomethane	1.65	94	1695	0.327	ug/l #	53
6) Chloroethane	1.74	64	5074	1.126	ug/l #	45
10) Methyl Iodide	2.51	142	1387	2.804	ug/l #	77
11) Tert butyl alcohol	3.02	59	2052	1.454	ug/l #	1
13) Acrolein	2.31	56	421	0.521	ug/l #	57
15) Acrylonitrile	3.16	53	663	0.201	ug/l #	80
16) Acetone	2.43	43	171180	40.361	ug/l	99
17) Carbon Disulfide	2.57	76	4444	1.035	ug/l #	94
20) Methylene Chloride	2.85	84	2063	0.309	ug/l #	91
21) trans-1,2-Dichloroethene	3.15	96	16082	2.633	ug/l	89
25) 2-Butanone	4.67	43	1651	0.316	ug/l #	49
28) Bromochloromethane	5.00	49	1281	0.754	ug/l #	34
29) Tetrahydrofuran	5.05	42	745	0.255	ug/l	92
36) 1,1-Dichloropropene	5.65	75	40677	4.991	ug/l #	51
38) Carbon Tetrachloride	5.65	117	51355	6.917	ug/l #	17
49) 1,4-Dioxane	7.75	88	289	1.947	ug/l #	1
52) Toluene	8.78	92	4879	0.308	ug/l	88
68) m/p-Xylenes	10.36	106	3792	0.334	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	179142	22.096	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	179142	62.368	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.93	75	473	0.234	ug/l	59
95) Naphthalene	13.83	128	5189	0.213	ug/l #	84

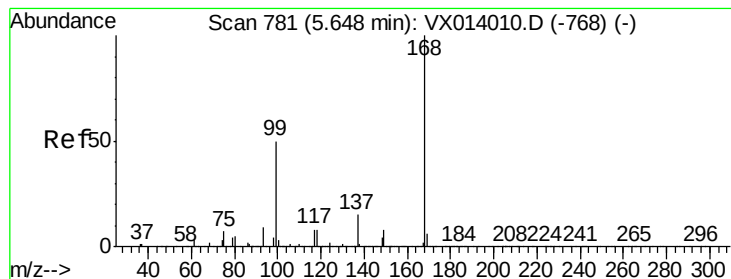
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

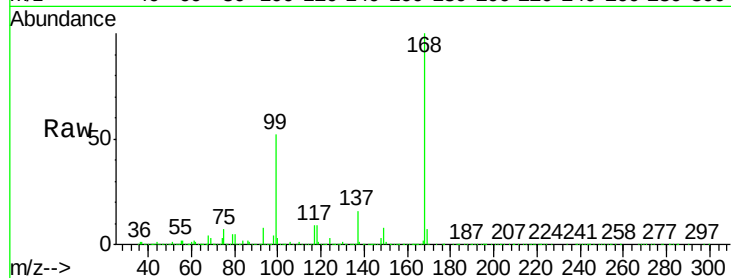
MH-BNM-1

Tgt Ion:168 Resp: 576416

Ion Ratio Lower Upper

168 100

99 51.6 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

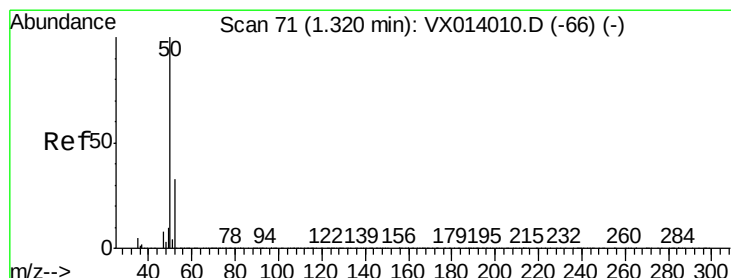
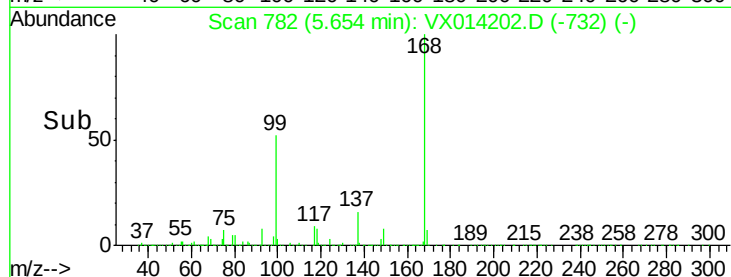
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.313 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX014202.D

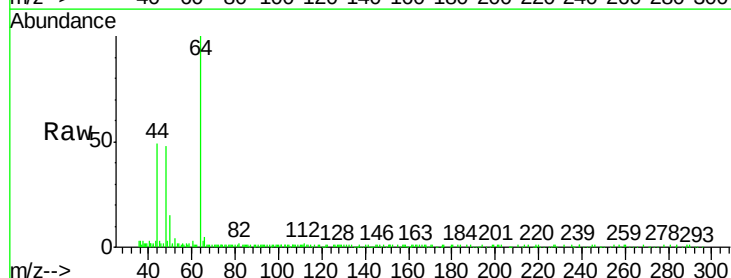
Acq: 23 Dec 2019 15:13

Tgt Ion: 50 Resp: 2163

Ion Ratio Lower Upper

50 100

52 9.3 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2500

2000

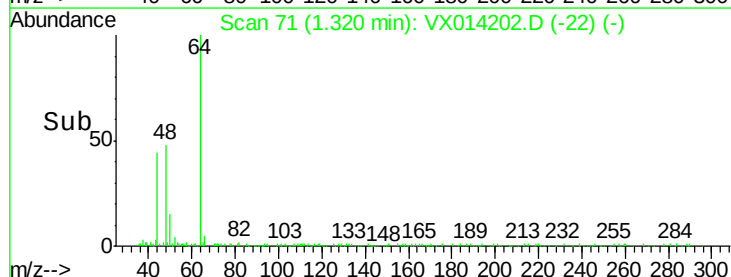
1500

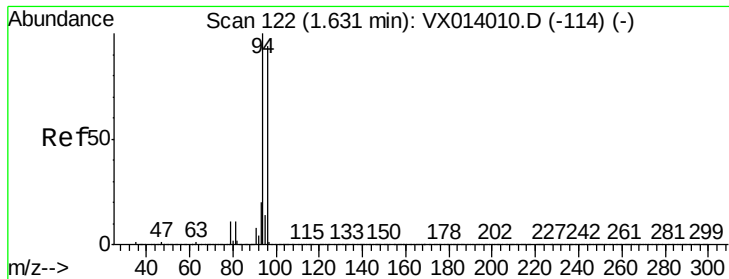
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.327 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

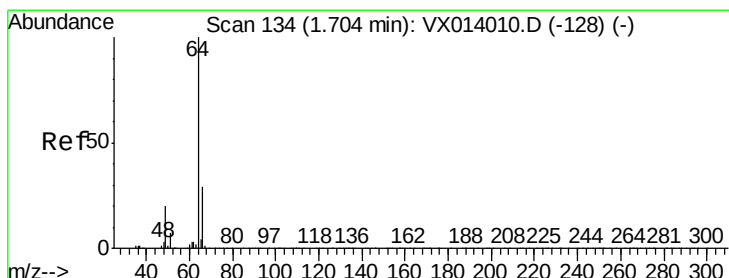
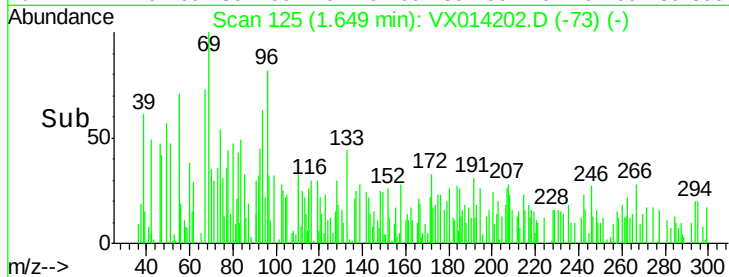
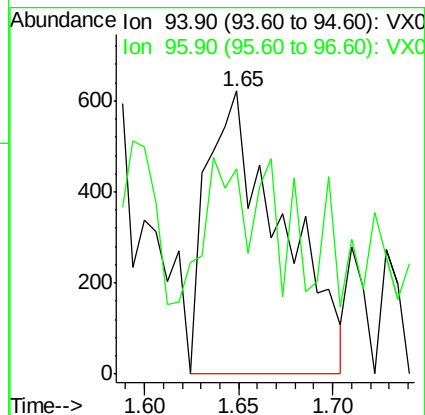
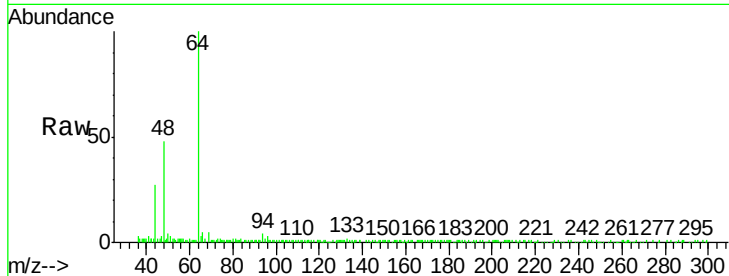
MH-BNM-1

Tgt Ion: 94 Resp: 1695

Ion Ratio Lower Upper

94 100

96 48.7 75.2 112.8#



#6

Chloroethane

Concen: 1.126 ug/l

RT: 1.74 min Scan# 140

Delta R.T. 0.04 min

Lab File: VX014202.D

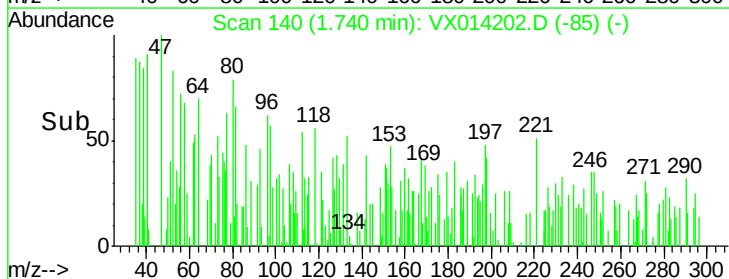
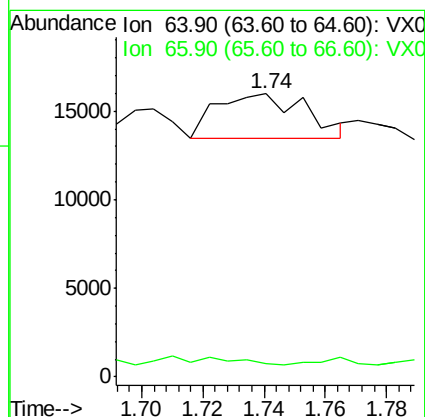
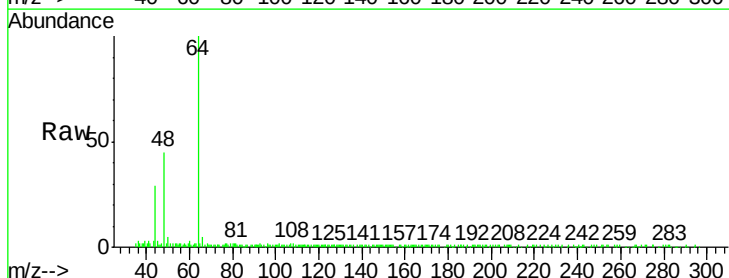
Acq: 23 Dec 2019 15:13

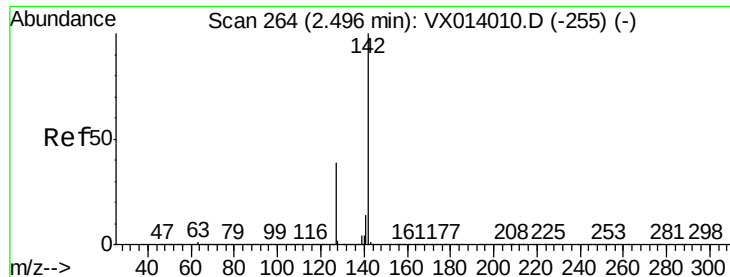
Tgt Ion: 64 Resp: 5074

Ion Ratio Lower Upper

64 100

66 0.0 23.4 35.2#

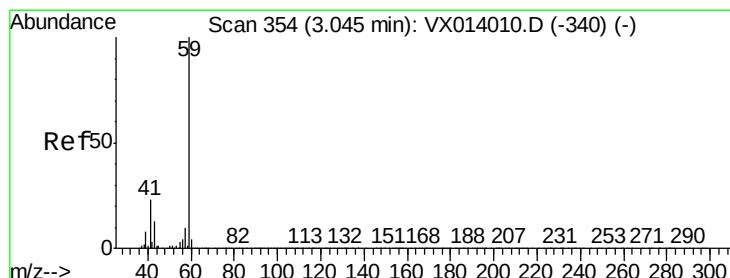
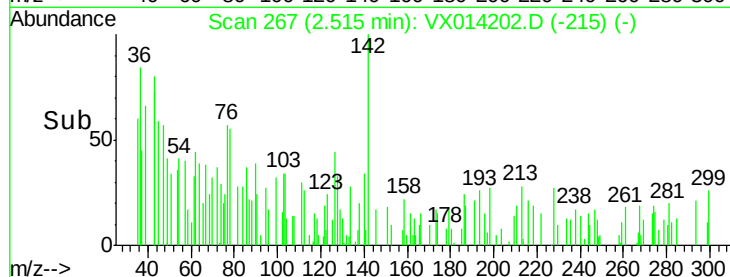
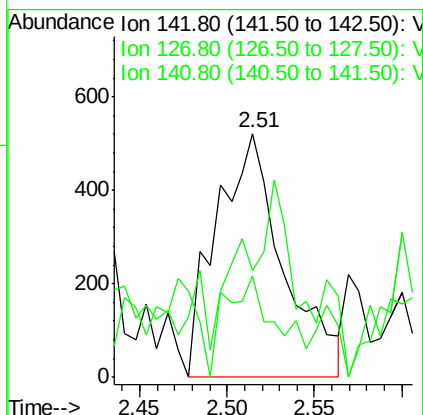
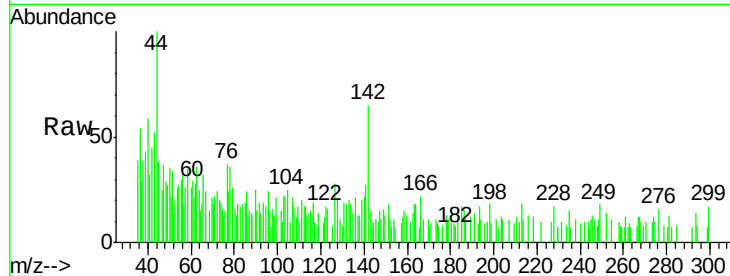




#10
Methyl Iodide
Concen: 2.804 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.02 min
Lab File: VX014202.D
Acq: 23 Dec 2019 15:13

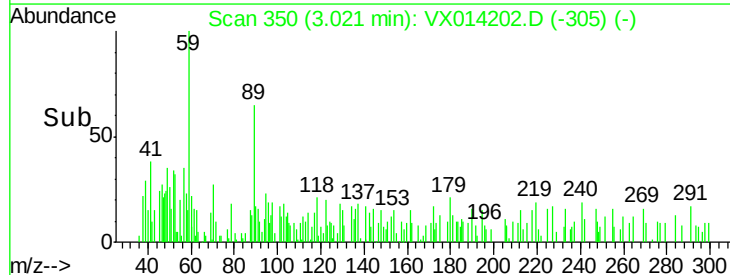
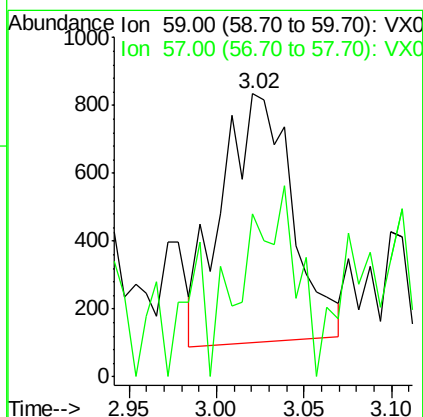
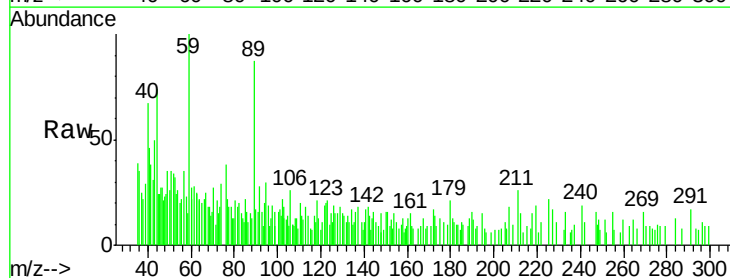
Instrument :
MSVOA_X
ClientSampleId :
MH-BNM-1

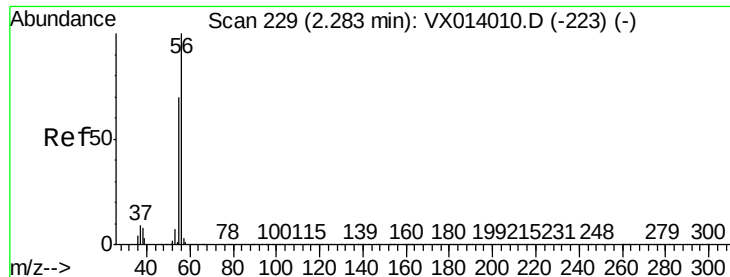
Tgt Ion: 142 Resp: 1387
Ion Ratio Lower Upper
142 100
127 49.1 31.6 47.4#
141 32.3 11.6 17.4#



#11
Tert butyl alcohol
Concen: 1.454 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014202.D
Acq: 23 Dec 2019 15:13

Tgt Ion: 59 Resp: 2052
Ion Ratio Lower Upper
59 100
57 56.6 8.4 12.6#





#13

Acrolein

Concen: 0.521 ug/l

RT: 2.31 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampled :

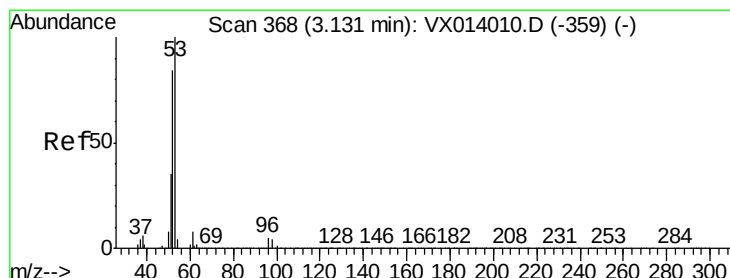
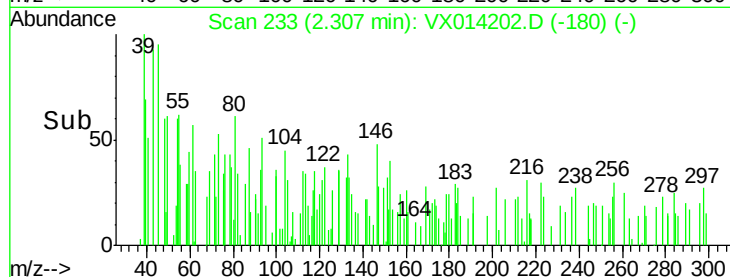
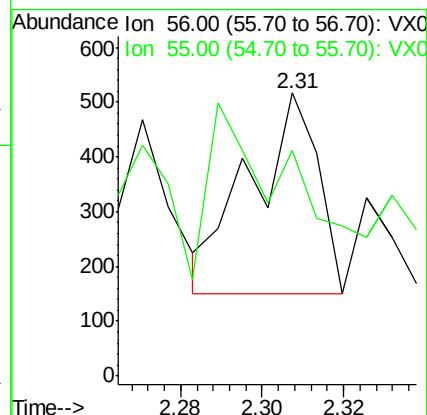
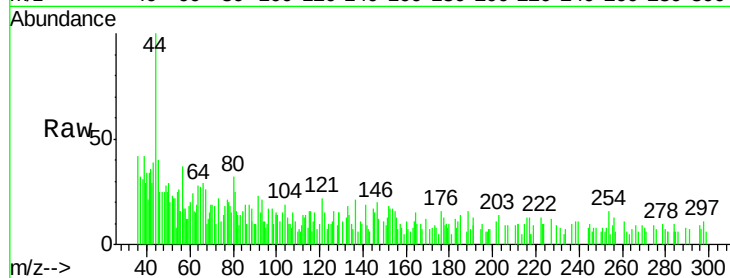
MH-BNM-1

Tgt Ion: 56 Resp: 421

Ion Ratio Lower Upper

56 100

55 106.7 56.9 85.3#



#15

Acrylonitrile

Concen: 0.201 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.03 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

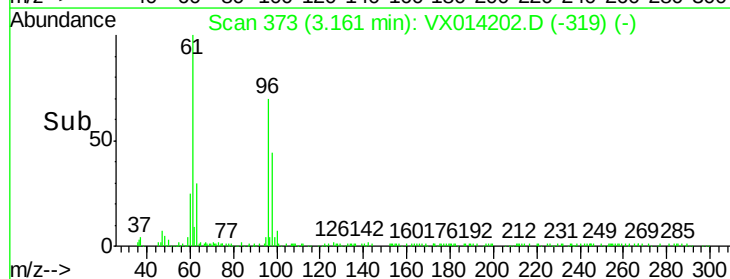
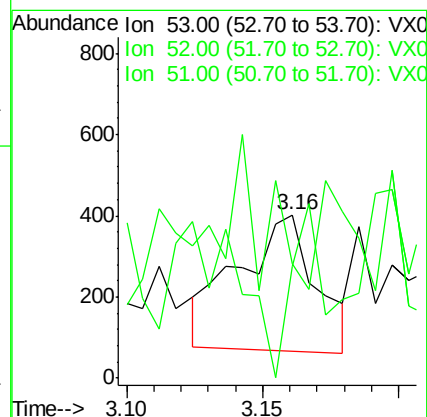
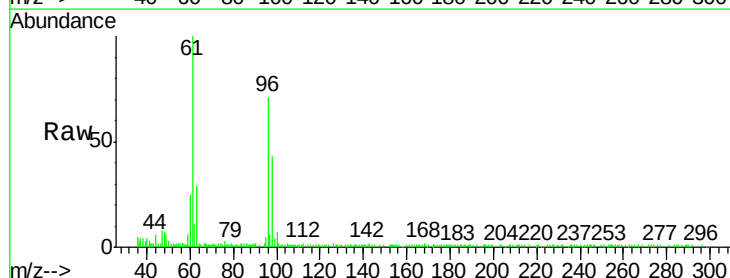
Tgt Ion: 53 Resp: 663

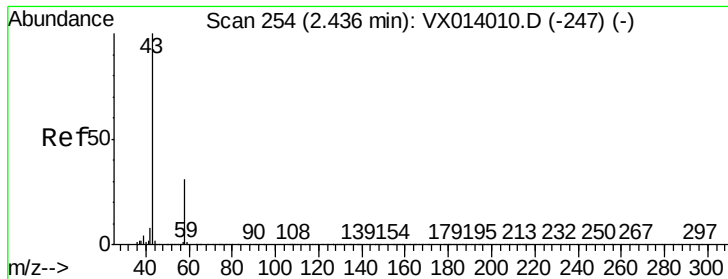
Ion Ratio Lower Upper

53 100

52 58.2 66.5 99.7#

51 33.0 28.1 42.1





#16

Acetone

Concen: 40.361 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

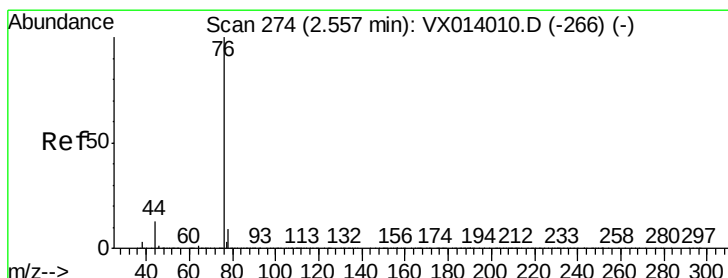
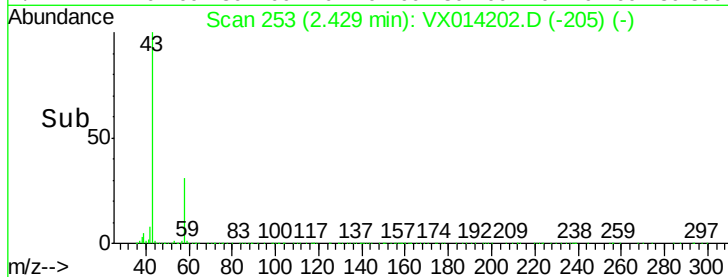
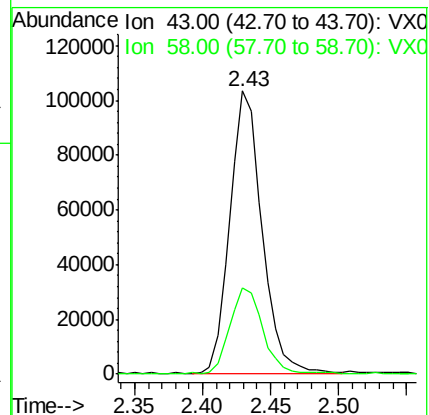
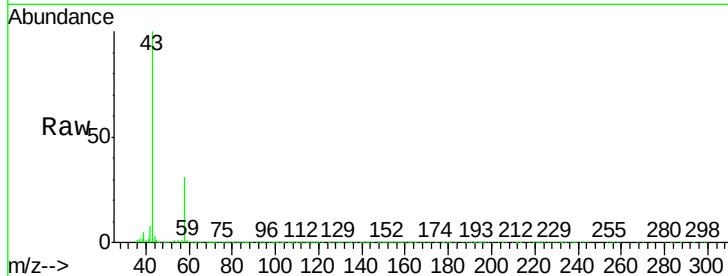
MH-BNM-1

Tgt Ion: 43 Resp: 171180

Ion Ratio Lower Upper

43 100

58 30.4 24.9 37.3



#17

Carbon Disulfide

Concen: 1.035 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014202.D

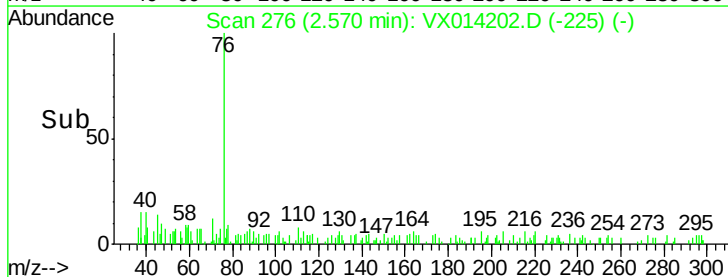
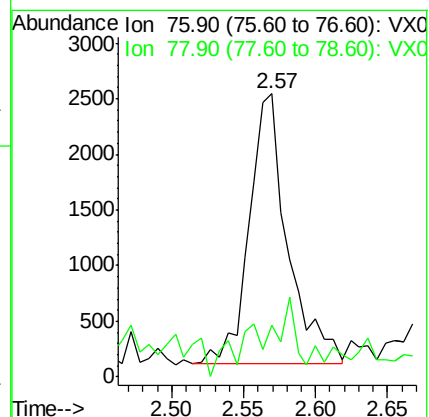
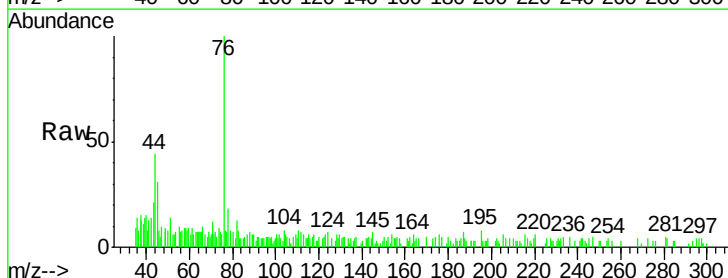
Acq: 23 Dec 2019 15:13

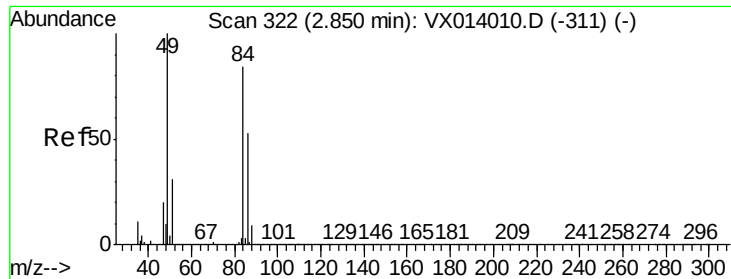
Tgt Ion: 76 Resp: 4444

Ion Ratio Lower Upper

76 100

78 11.2 7.2 10.8#





#20

Methylene Chloride

Concen: 0.309 ug/l

RT: 2.85 min Scan# 322

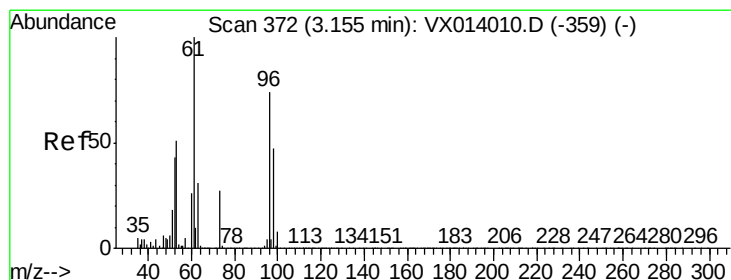
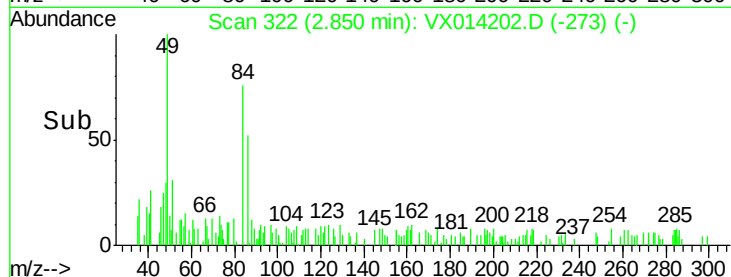
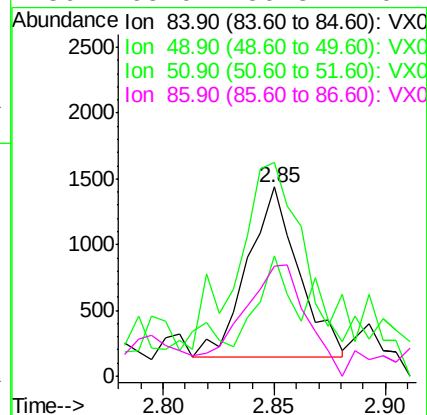
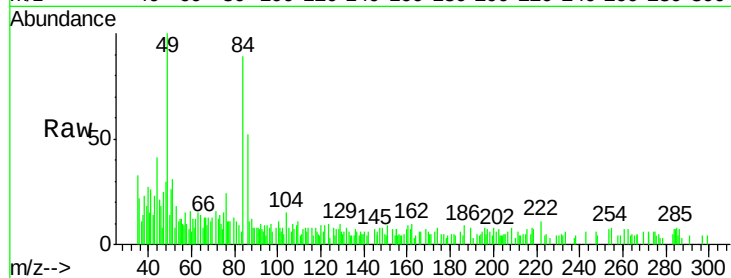
Delta R.T. -0.00 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :
MSVOA_X
ClientSampleId :
MH-BNM-1

Tgt Ion:	84	Resp:	2063
Ion	Ratio	Lower	Upper
84	100		
49	110.2	95.8	143.6
51	50.9	29.8	44.8#
86	65.0	50.8	76.2



#21

trans-1,2-Dichloroethene

Concen: 2.633 ug/l

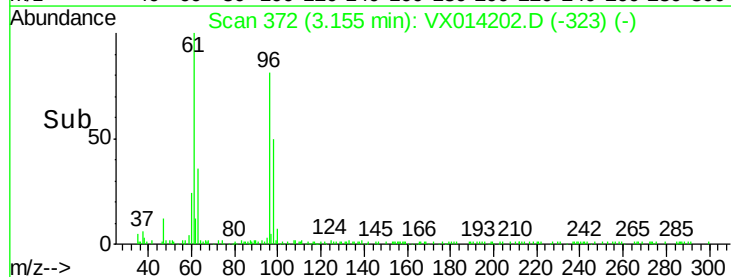
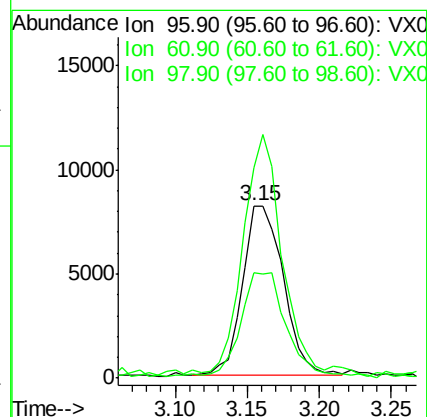
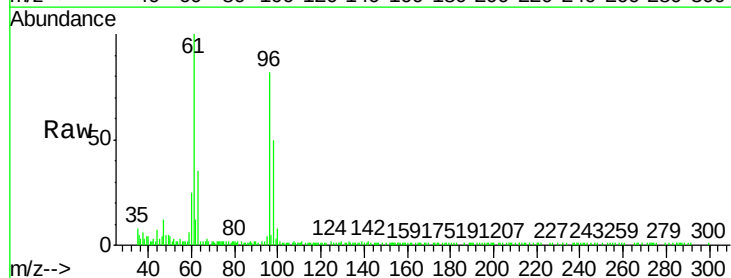
RT: 3.15 min Scan# 372

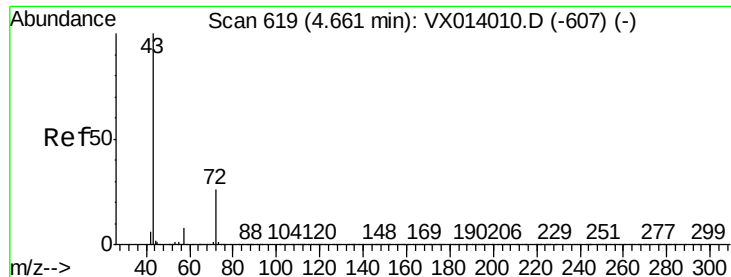
Delta R.T. -0.00 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Tgt Ion:	96	Resp:	16082
Ion	Ratio	Lower	Upper
96	100		
61	119.2	108.3	162.5
98	59.9	50.8	76.2





#25

2-Butanone

Concen: 0.316 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampled :

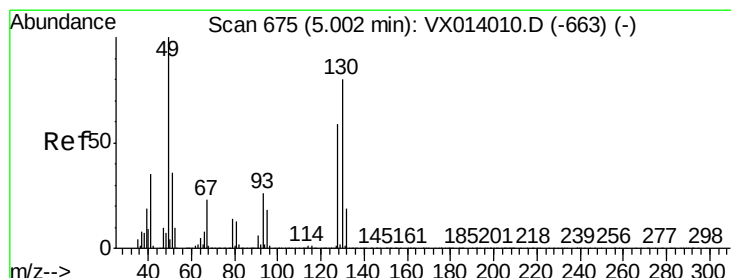
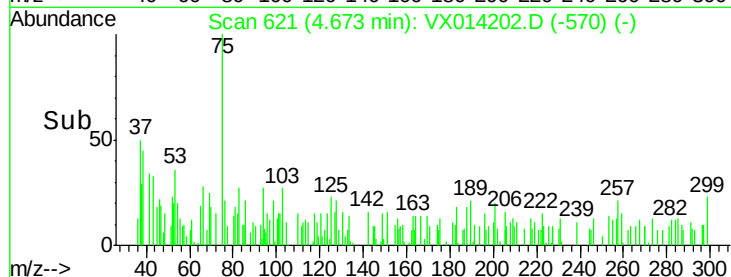
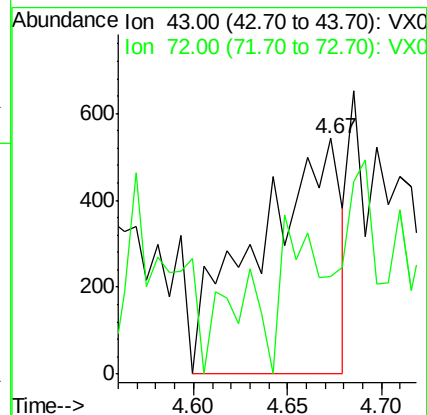
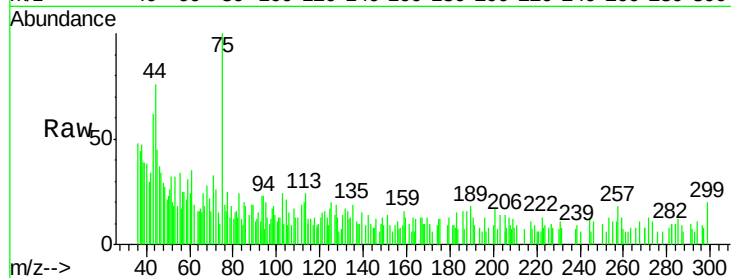
MH-BNM-1

Tgt Ion: 43 Resp: 1651

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.4#



#28

Bromochloromethane

Concen: 0.754 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

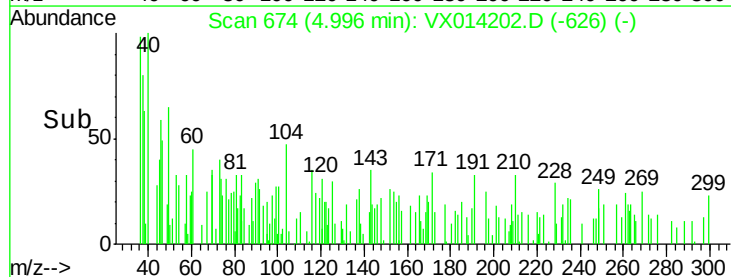
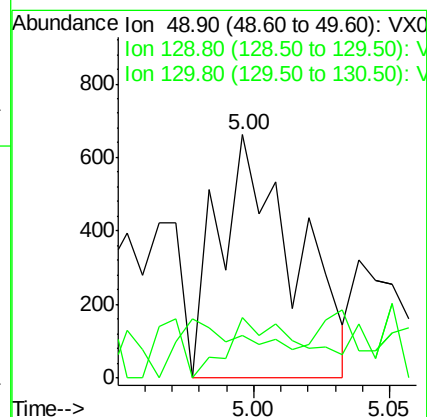
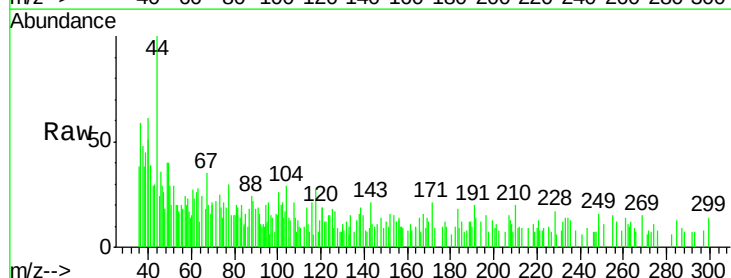
Tgt Ion: 49 Resp: 1281

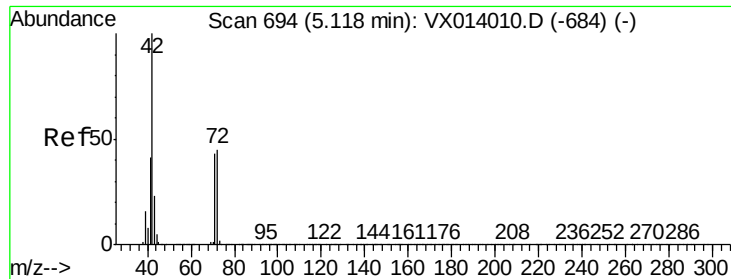
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 20.6 64.6 97.0#

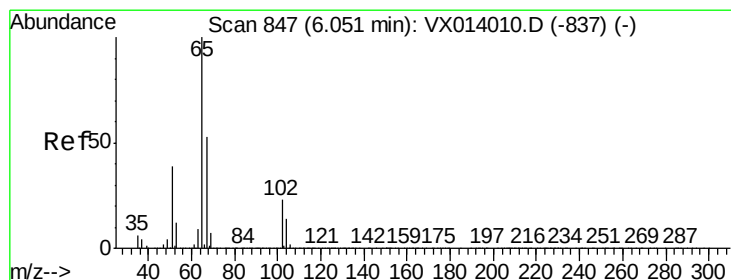
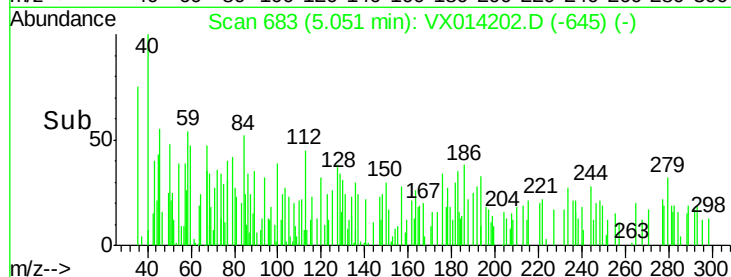
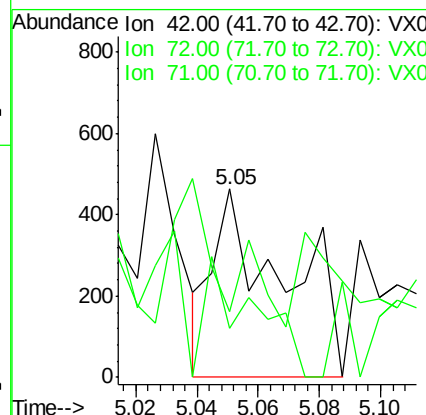
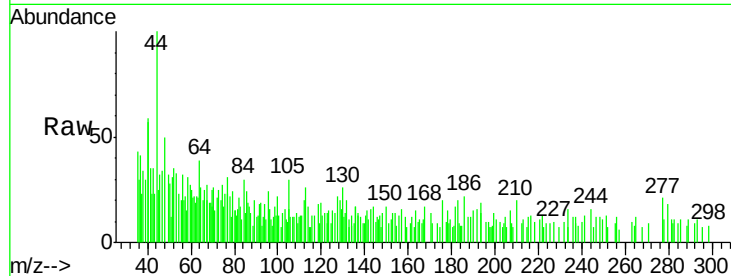




#29
Tetrahydrofuran
Concen: 0.255 ug/l
RT: 5.05 min Scan# 683
Delta R.T. -0.07 min
Lab File: VX014202.D
Acq: 23 Dec 2019 15:13

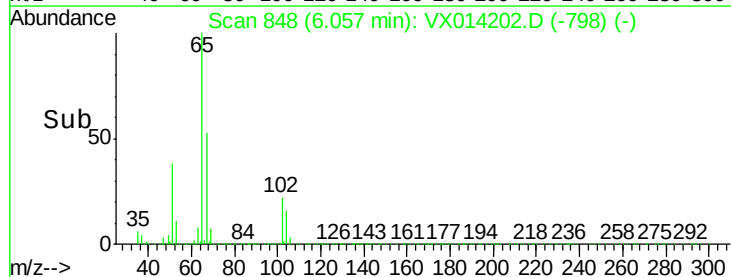
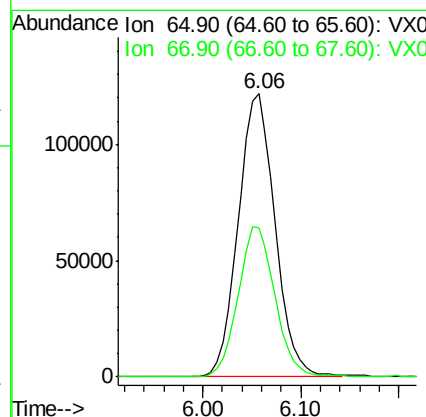
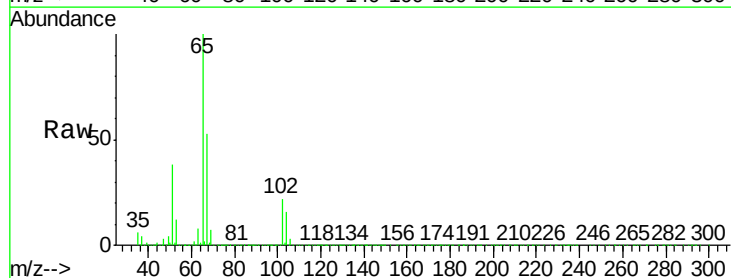
Instrument :
MSVOA_X
ClientSampleId :
MH-BNM-1

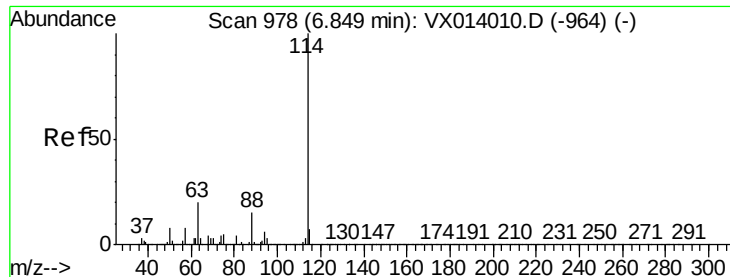
Tgt Ion: 42 Resp: 745
Ion Ratio Lower Upper
42 100
72 51.9 35.8 53.8
71 45.1 33.6 50.4



#33
1,2-Dichloroethane-d4
Concen: 48.414 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX014202.D
Acq: 23 Dec 2019 15:13

Tgt Ion: 65 Resp: 316285
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

MH-BNM-1

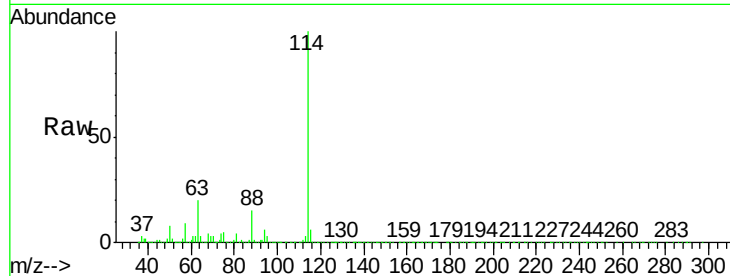
Tgt Ion:114 Resp: 888260

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

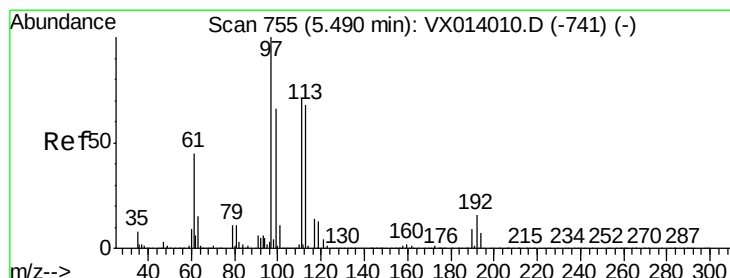
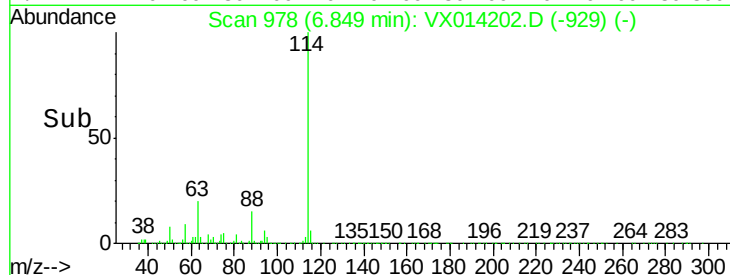
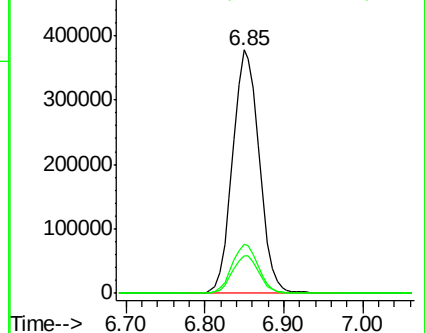
88 15.4 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.510 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

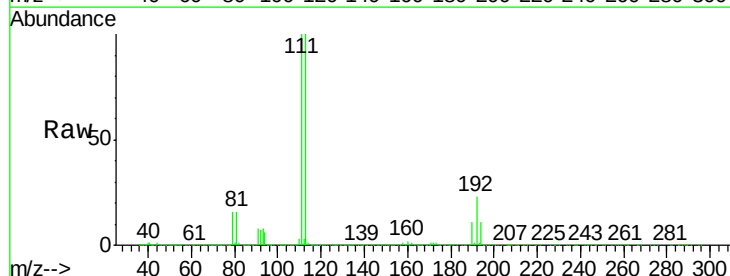
Tgt Ion:113 Resp: 267336

Ion Ratio Lower Upper

113 100

111 100.8 82.0 123.0

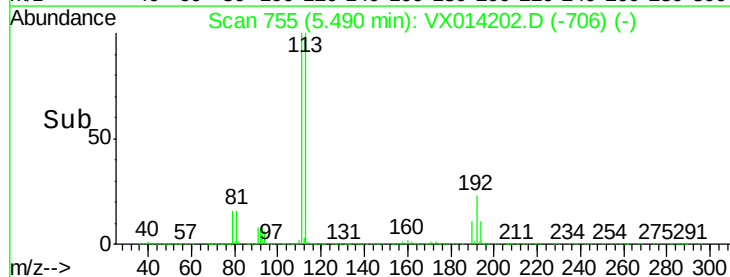
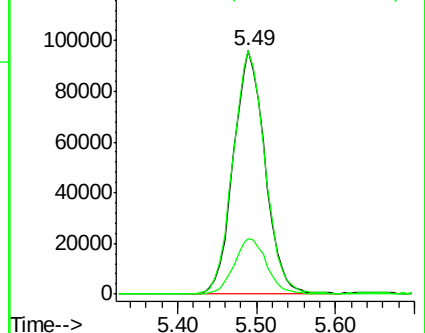
192 23.5 19.3 28.9

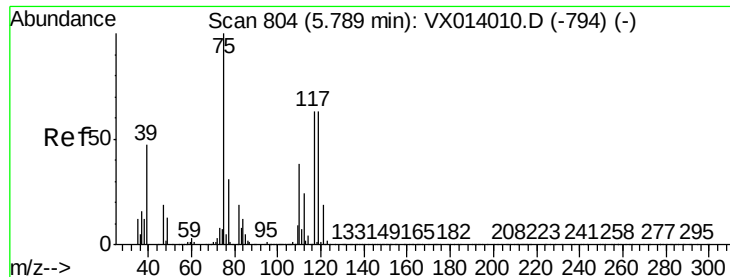


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

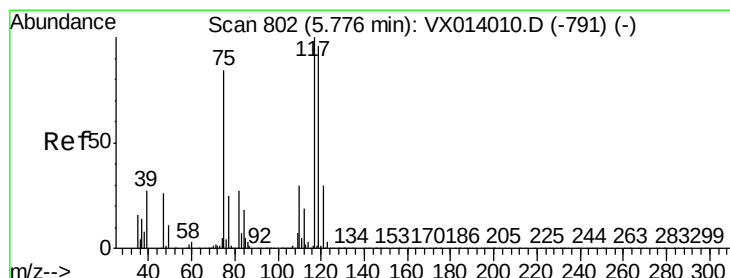
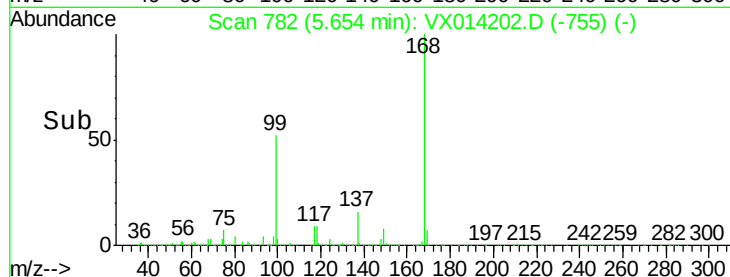
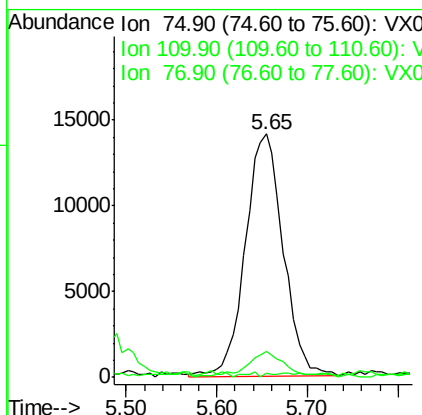
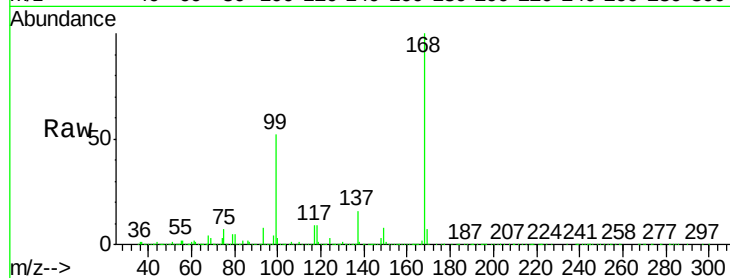




#36
 1,1-Dichloropropene
 Concen: 4.991 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014202.D
 Acq: 23 Dec 2019 15:13

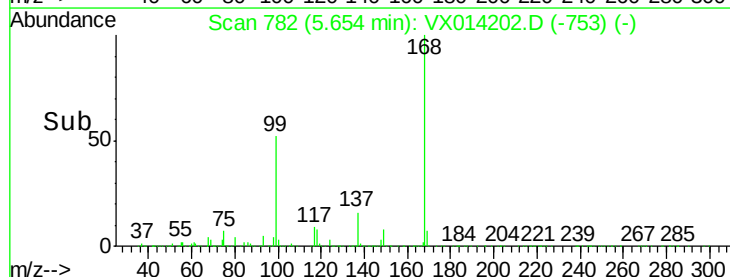
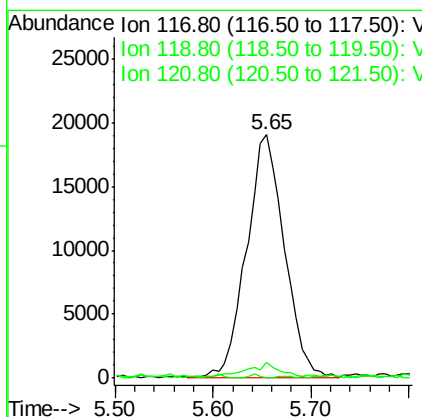
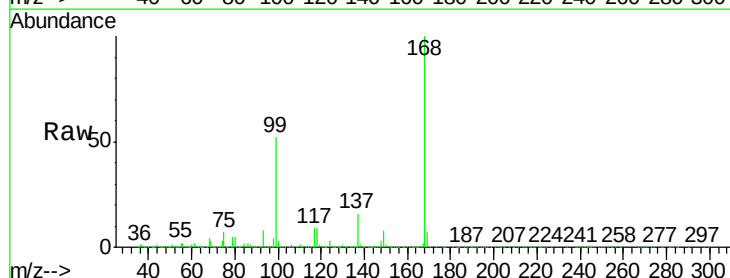
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-BNM-1

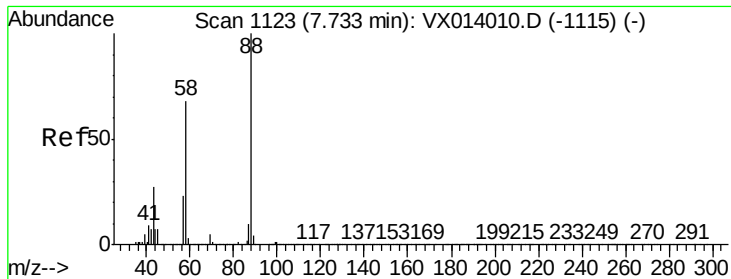
Tgt Ion: 75 Resp: 40677
 Ion Ratio Lower Upper
 75 100
 110 10.7 18.3 54.9#
 77 0.8 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.917 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014202.D
 Acq: 23 Dec 2019 15:13

Tgt Ion: 117 Resp: 51355
 Ion Ratio Lower Upper
 117 100
 119 5.8 76.2 114.4#
 121 0.0 23.6 35.4#





#49

1,4-Dioxane

Concen: 1.947 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampled :

MH-BNM-1

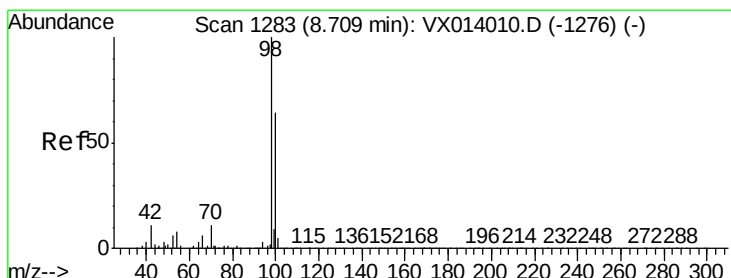
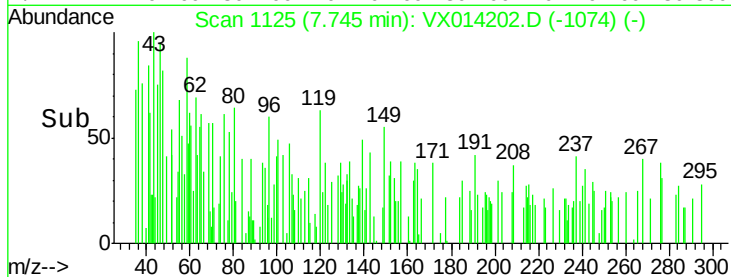
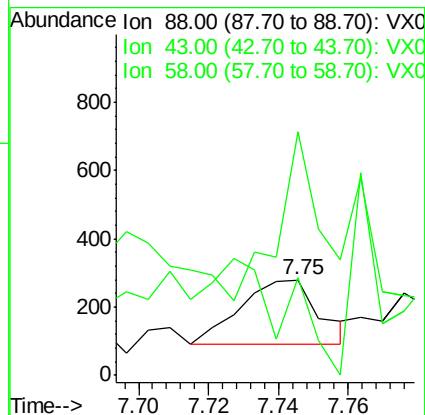
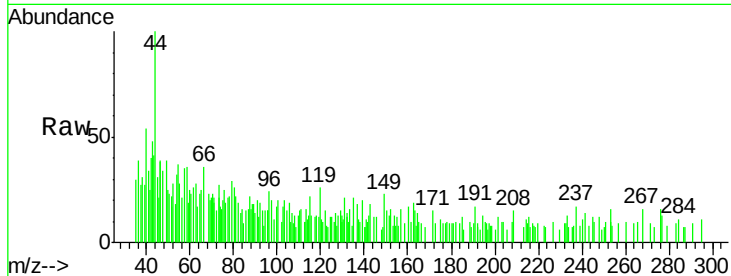
Tgt Ion: 88 Resp: 289

Ion Ratio Lower Upper

88 100

43 244.3 26.5 39.7#

58 118.3 56.8 85.2#



#50

Toluene-d8

Concen: 50.038 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014202.D

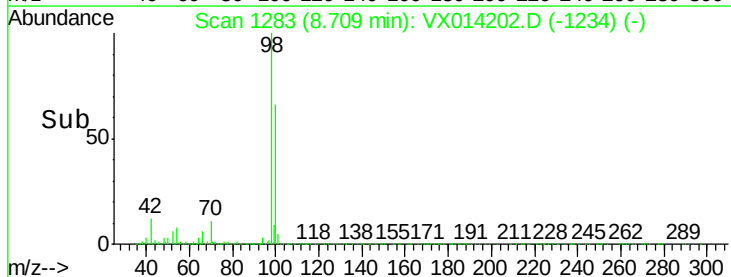
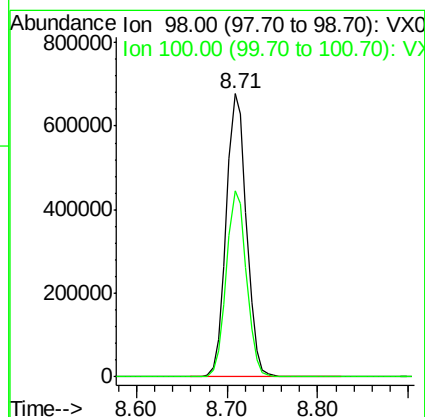
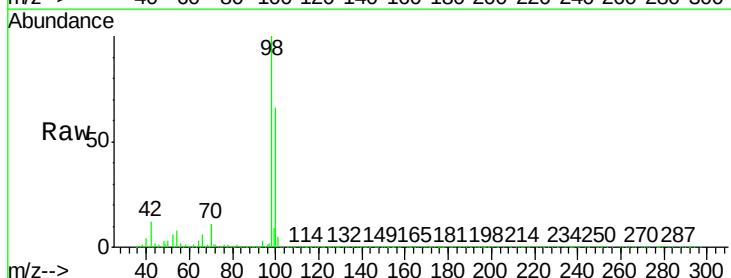
Acq: 23 Dec 2019 15:13

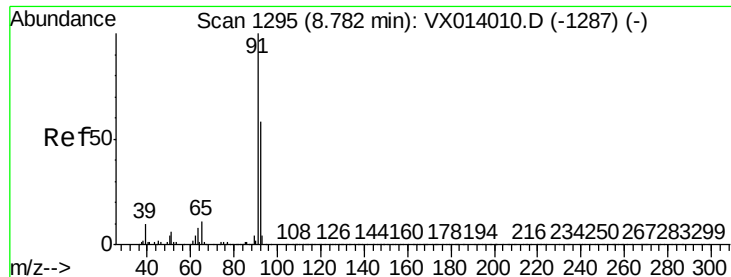
Tgt Ion: 98 Resp: 1051906

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3





#52

Toluene

Concen: 0.308 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

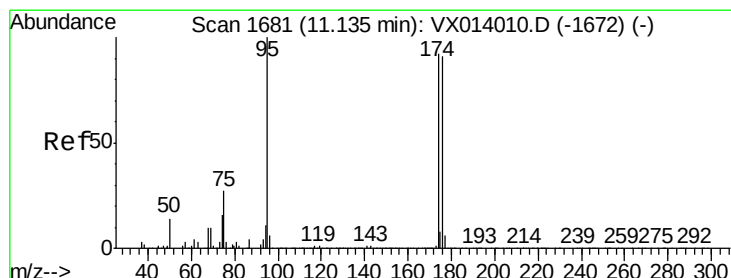
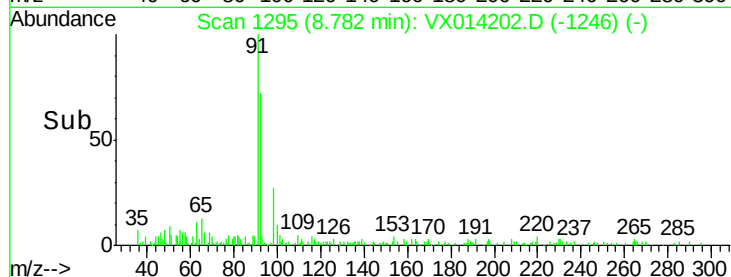
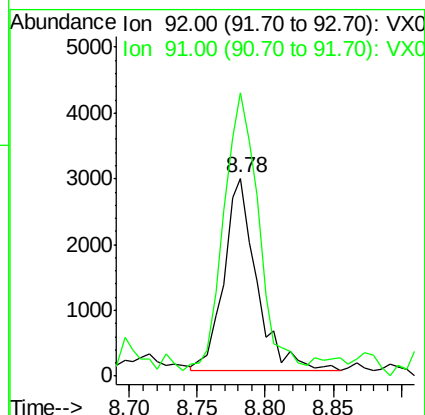
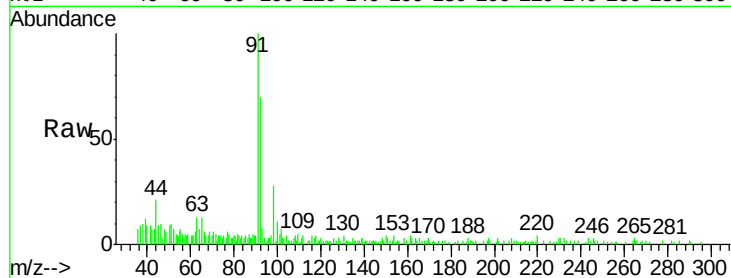
MH-BNM-1

Tgt Ion: 92 Resp: 4879

Ion Ratio Lower Upper

92 100

91 153.6 136.2 204.4



#62

4-Bromofluorobenzene

Concen: 47.034 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

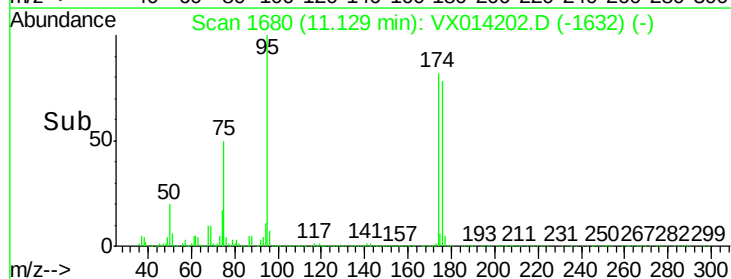
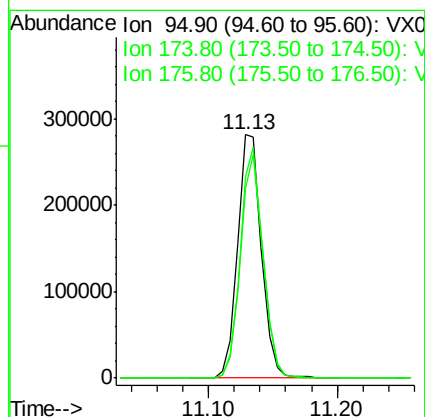
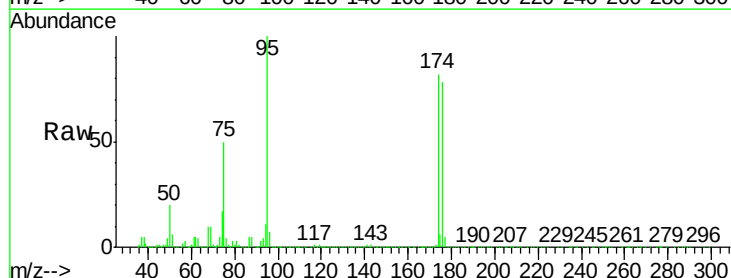
Tgt Ion: 95 Resp: 361434

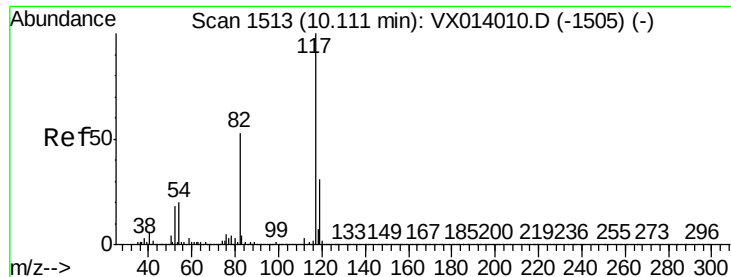
Ion Ratio Lower Upper

95 100

174 91.0 0.0 175.8

176 86.7 0.0 173.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

MH-BNM-1

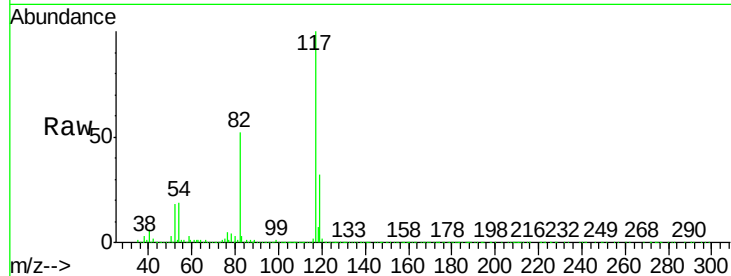
Tgt Ion:117 Resp: 806384

Ion Ratio Lower Upper

117 100

82 52.0 42.2 63.4

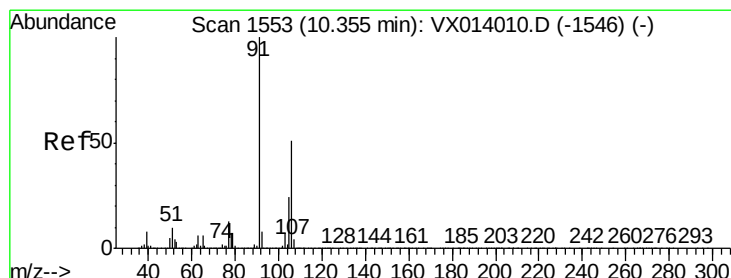
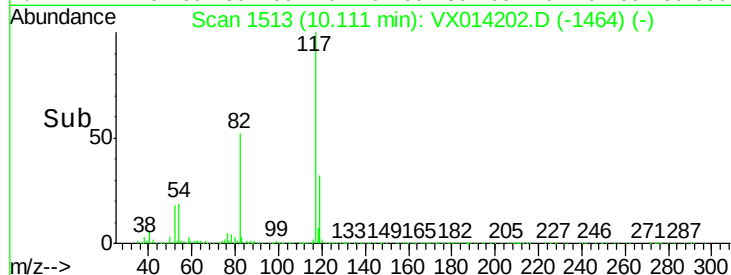
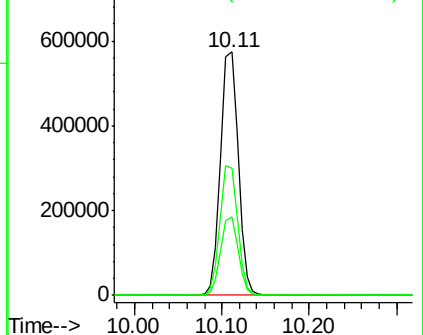
119 32.1 25.1 37.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#68

m/p-Xylenes

Concen: 0.334 ug/l

RT: 10.36 min Scan# 1554

Delta R.T. 0.01 min

Lab File: VX014202.D

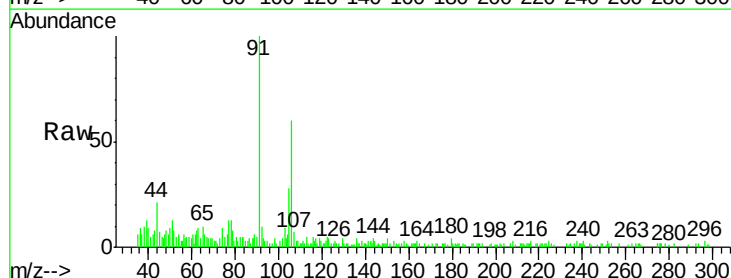
Acq: 23 Dec 2019 15:13

Tgt Ion:106 Resp: 3792

Ion Ratio Lower Upper

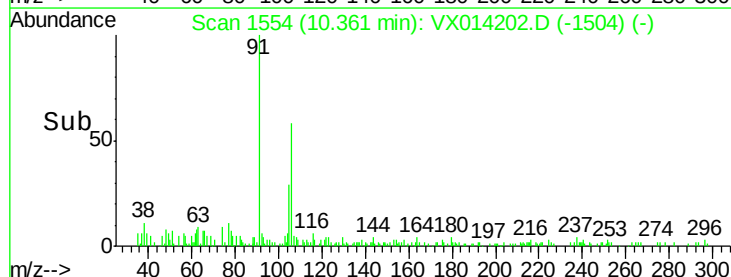
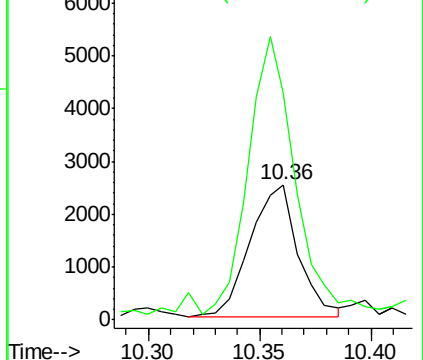
106 100

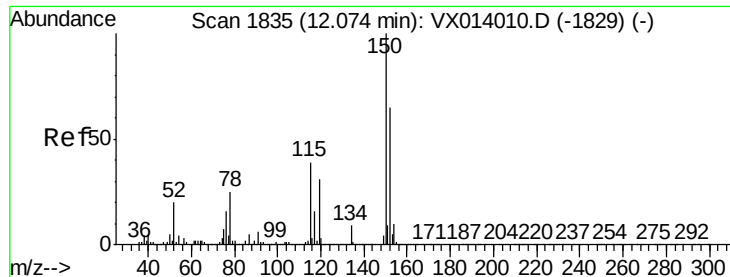
91 203.6 158.6 238.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

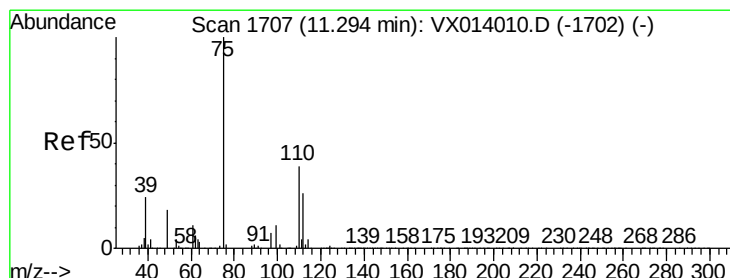
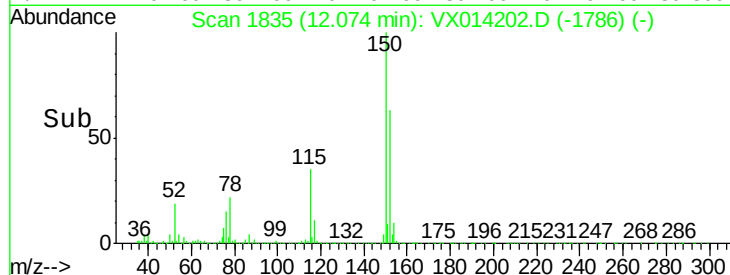
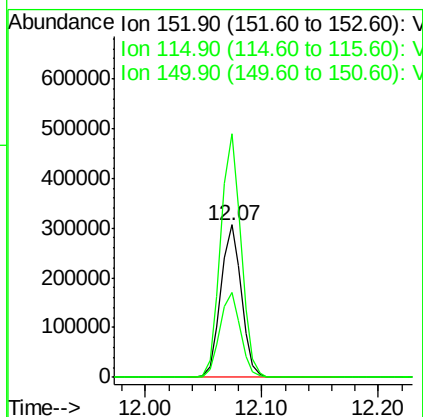
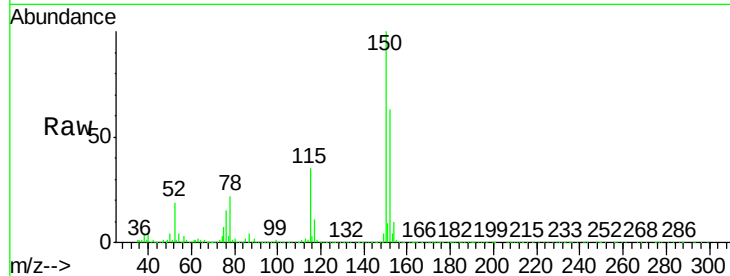




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX014202.D
 Acq: 23 Dec 2019 15:13

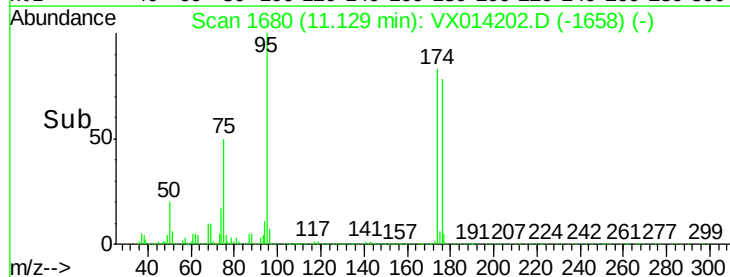
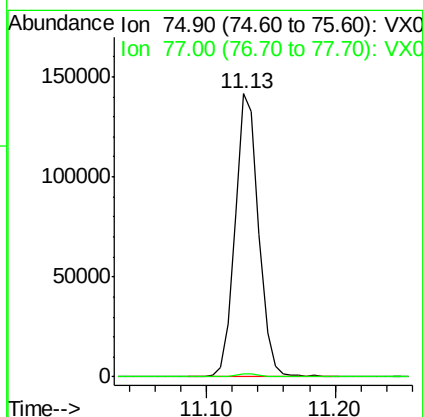
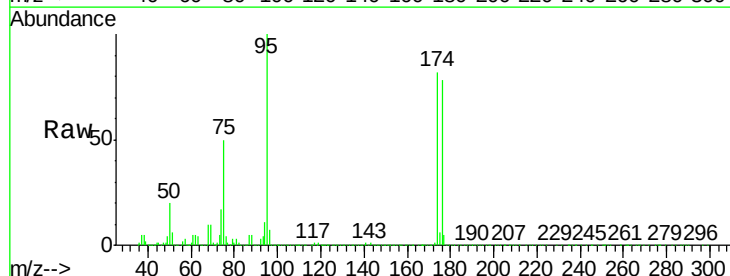
Instrument :
 MSVOA_X
 ClientSampled :
 MH-BNM-1

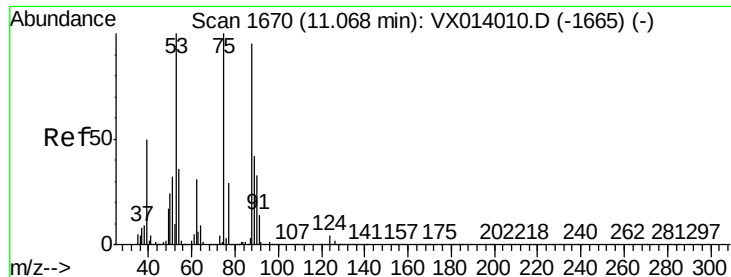
Tgt Ion: 152 Resp: 373438
 Ion Ratio Lower Upper
 152 100
 115 55.3 38.3 114.9
 150 157.9 0.0 345.4



#76
 1,2,3-Trichloropropane
 Concen: 22.096 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014202.D
 Acq: 23 Dec 2019 15:13

Tgt Ion: 75 Resp: 179142
 Ion Ratio Lower Upper
 75 100
 77 1.2 19.3 57.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.368 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

MH-BNM-1

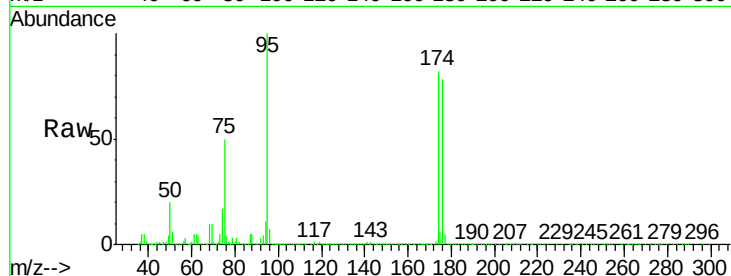
Tgt Ion: 75 Resp: 179142

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

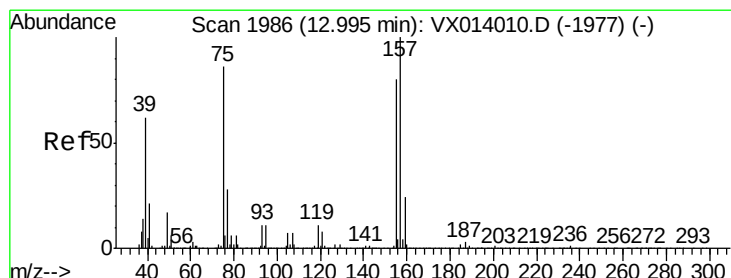
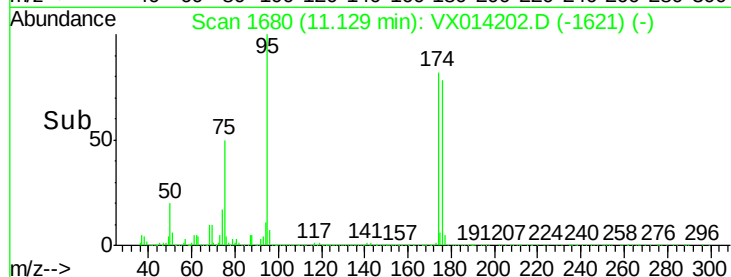
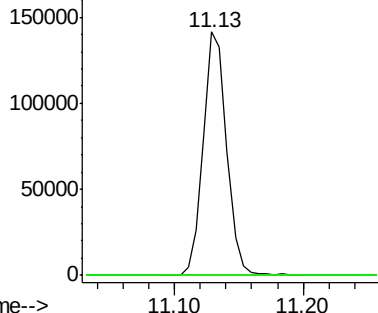
89 0.0 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.234 ug/l

RT: 12.93 min Scan# 1976

Delta R.T. -0.06 min

Lab File: VX014202.D

Acq: 23 Dec 2019 15:13

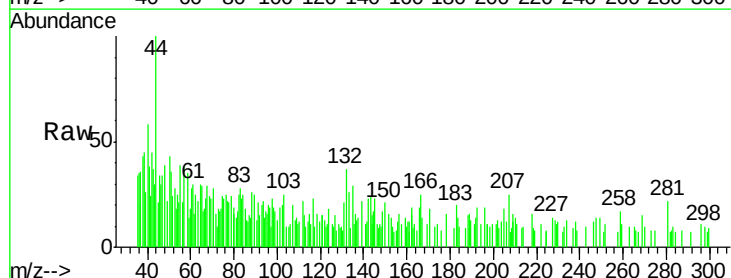
Tgt Ion: 75 Resp: 473

Ion Ratio Lower Upper

75 100

155 61.3 46.9 140.6

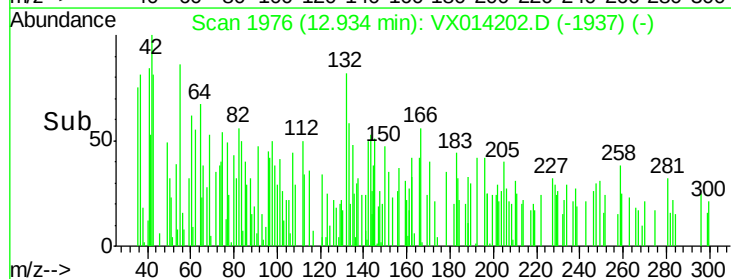
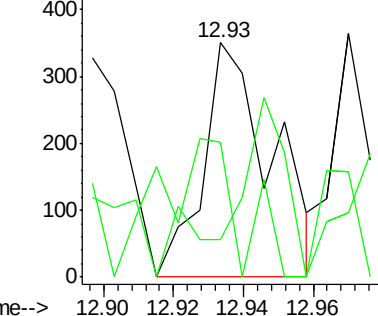
157 69.1 60.8 182.4

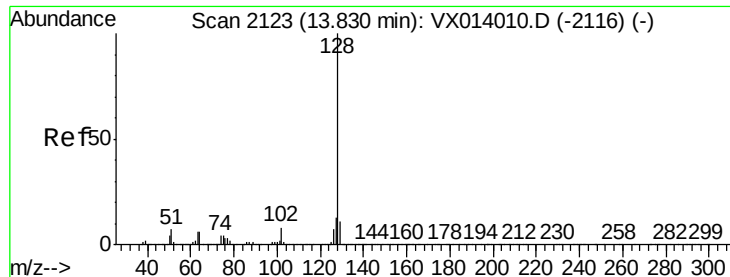


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 0.213 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX014202.D
Acq: 23 Dec 2019 15:13

Instrument :
MSVOA_X
ClientSampleId :
MH-BNM-1

Tgt Ion	Ratio	Lower	Upper
128	100		
127	20.3	10.2	15.4#
129	15.7	8.7	13.1#

