

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012819\
 Data File : VX007266.D
 Acq On : 28 Jan 2019 17:45
 Operator : JC/SP
 Sample : K1230-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-6

Quant Time: Jan 29 00:19:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	534035	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	812742	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	776338	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	377309	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	286048	51.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.50%	
35) Dibromofluoromethane	5.51	113	258945	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
50) Toluene-d8	8.71	98	982115	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
62) 4-Bromofluorobenzene	11.13	95	340666	51.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.58%	

Target Compounds

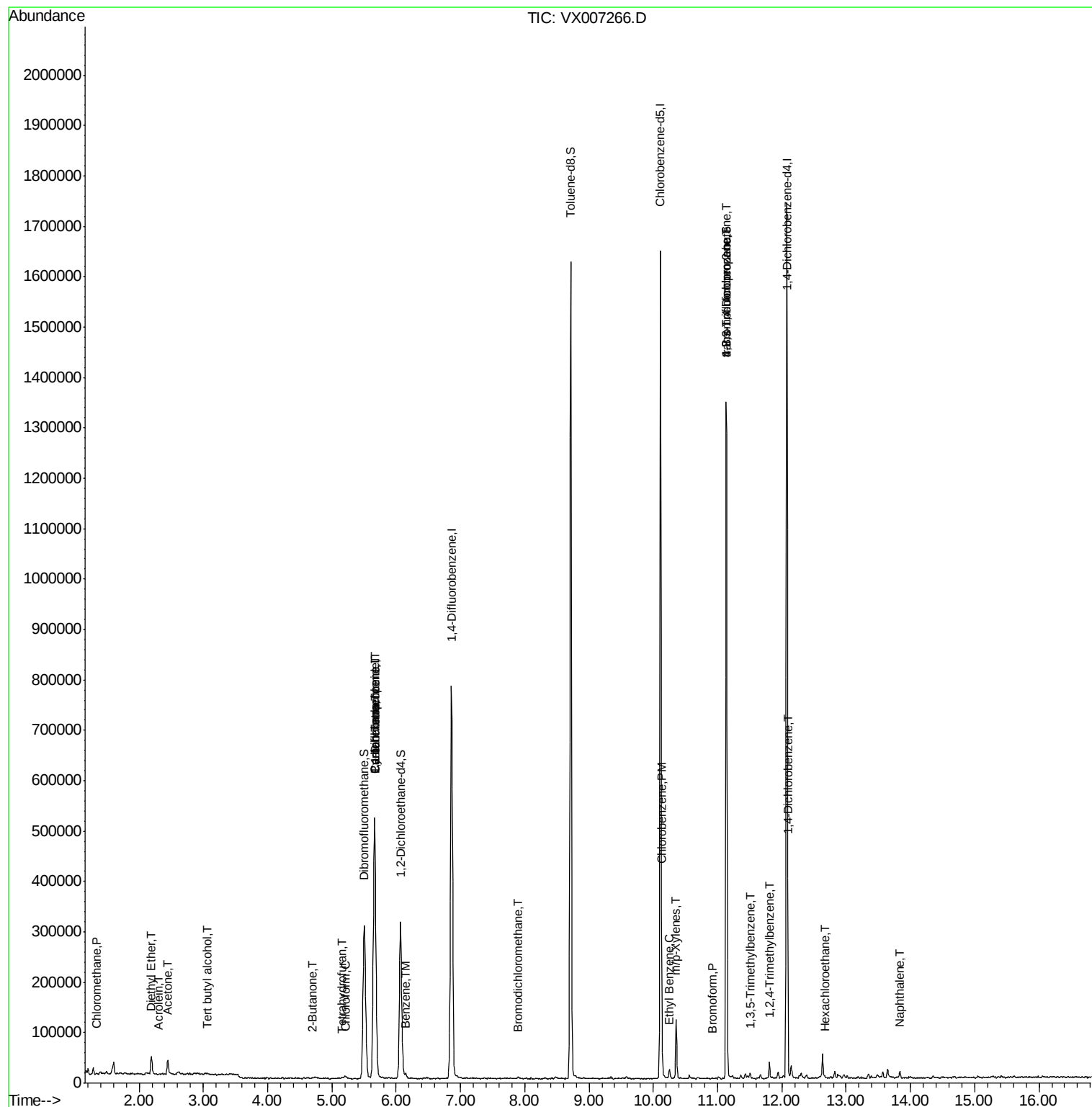
						Qvalue
3) Chloromethane	1.33	50	1115	0.218	ug/l	95
8) Diethyl Ether	2.19	74	11004	3.117	ug/l	96
11) Tert butyl alcohol	3.06	59	2736	2.078	ug/l #	63
13) Acrolein	2.29	56	496	3.947	ug/l	98
16) Acetone	2.45	43	30873	11.189	ug/l	99
20) Methylene Chloride	2.87	84	1831	Below Cal	#	79
25) 2-Butanone	4.69	43	1134	0.287	ug/l #	59
29) Tetrahydrofuran	5.15	42	3591	1.400	ug/l #	75
30) Chloroform	5.22	83	5798	0.626	ug/l #	80
31) Cyclohexane	5.66	56	9631	1.224	ug/l #	2
36) 1,1-Dichloropropene	5.67	75	33885	4.795	ug/l #	49
38) Carbon Tetrachloride	5.67	117	48294	6.793	ug/l #	15
40) Benzene	6.15	78	9297	0.431	ug/l	98
47) Bromodichloromethane	7.90	83	2497	0.385	ug/l #	73
49) 1,4-Dioxane	7.71	88	138	Below Cal	#	29
65) Chlorobenzene	10.13	112	16438	0.971	ug/l	100
67) Ethyl Benzene	10.25	91	10149	0.363	ug/l	91
68) m/p-Xylenes	10.36	106	28909	2.625	ug/l	97
71) Bromoform	10.91	173	130	4.751	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	164292	21.487	ug/l #	41
80) 1,3,5-Trimethylbenzene	11.51	105	4712	0.212	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	164292	63.722	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	14906	0.667	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	6867	0.690	ug/l #	29
90) Hexachloroethane	12.67	117	233	2.966	ug/l	59
95) Naphthalene	13.83	128	8507	0.313	ug/l #	90

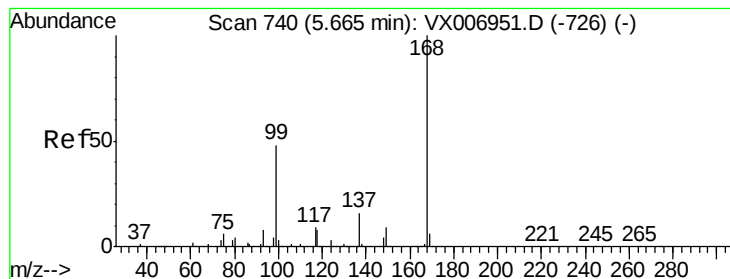
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampled :
MH-6

Quant Time: Jan 29 00:19:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

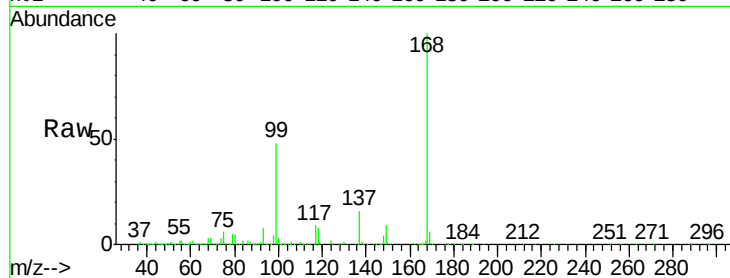
MH-6

Tot Ion:168 Resp: 534035

Ion Ratio Lower Upper

168 100

99 48.4 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

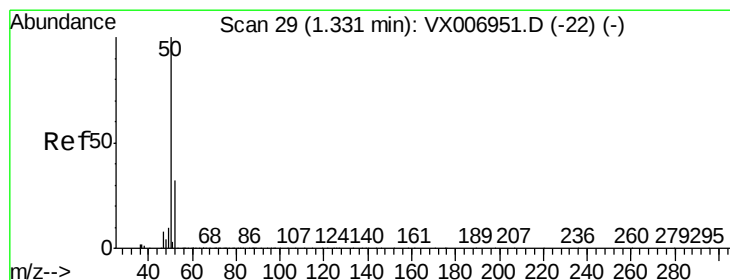
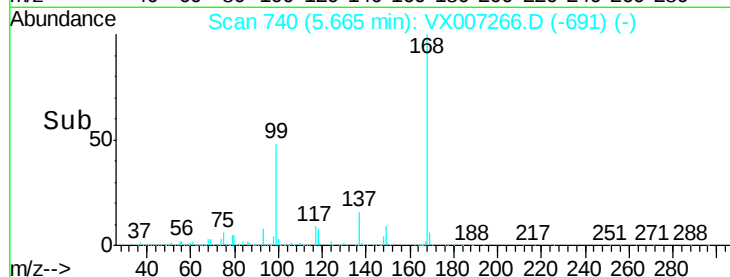
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.218 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007266.D

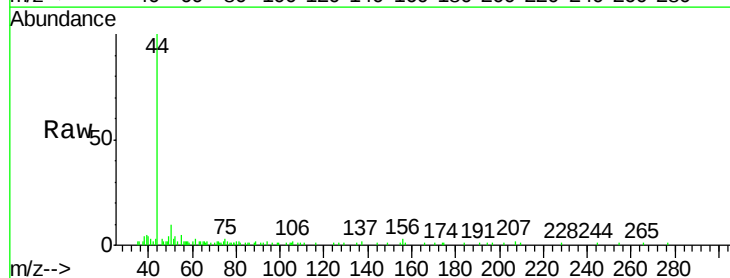
Acq: 28 Jan 2019 17:45

Tgt Ion: 50 Resp: 1115

Ion Ratio Lower Upper

50 100

52 28.9 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

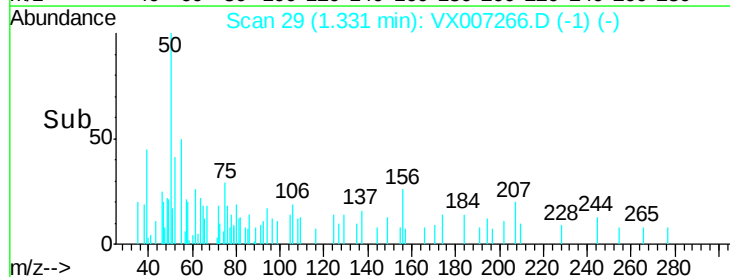
600

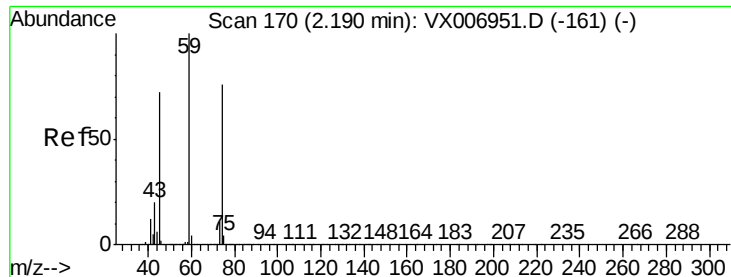
400

200

0

Time-->





#8

Diethyl Ether

Concen: 3.117 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

Instrument :

MSVOA_X

ClientSampleId :

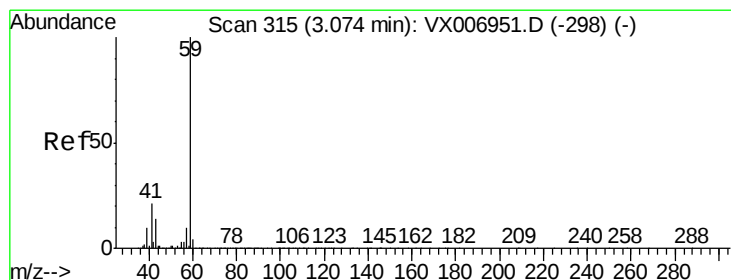
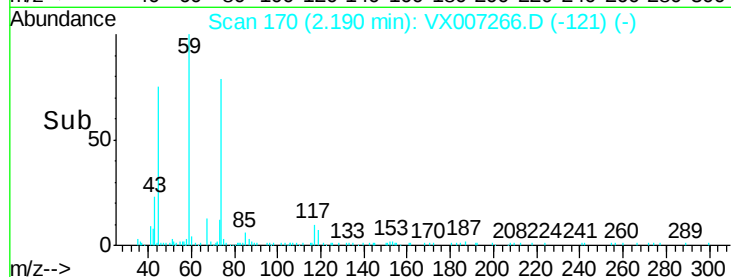
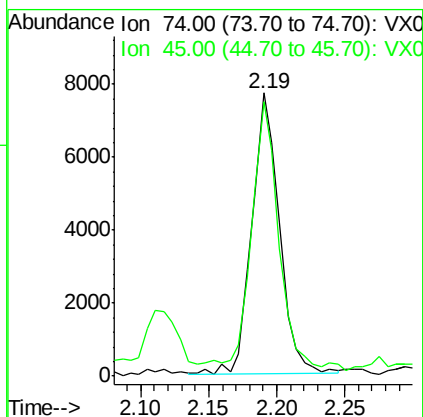
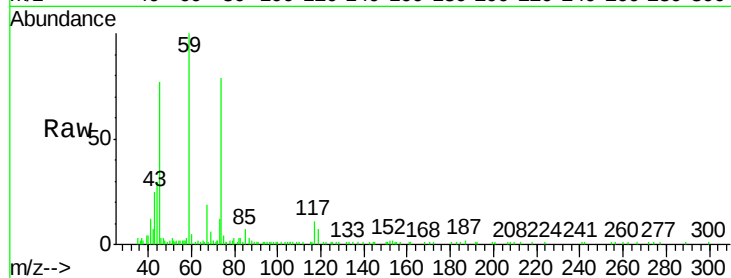
MH-6

Tot Ion: 74 Resp: 11004

Ion Ratio Lower Upper

74 100

45 88.9 46.3 138.9



#11

Tert butyl alcohol

Concen: 2.078 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX007266.D

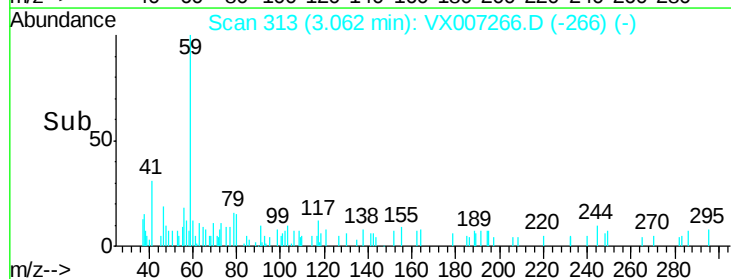
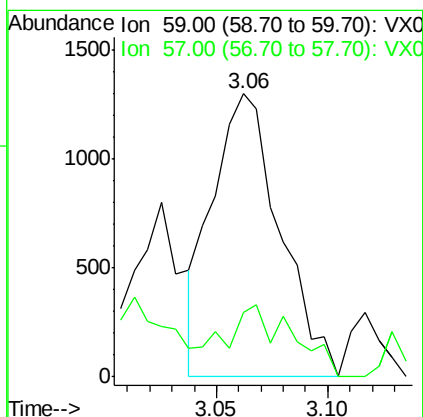
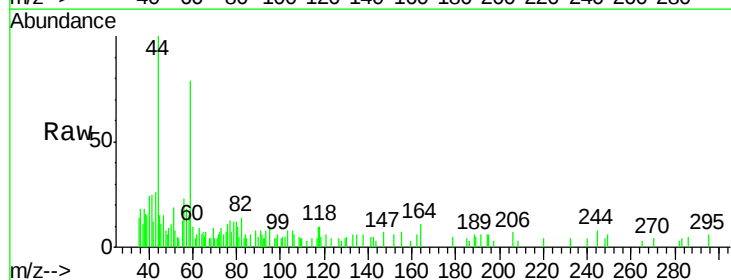
Acq: 28 Jan 2019 17:45

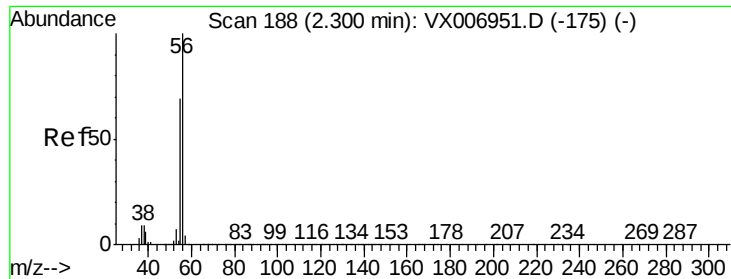
Tgt Ion: 59 Resp: 2736

Ion Ratio Lower Upper

59 100

57 24.5 8.5 12.7#





#13

Acrolein

Concen: 3.947 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

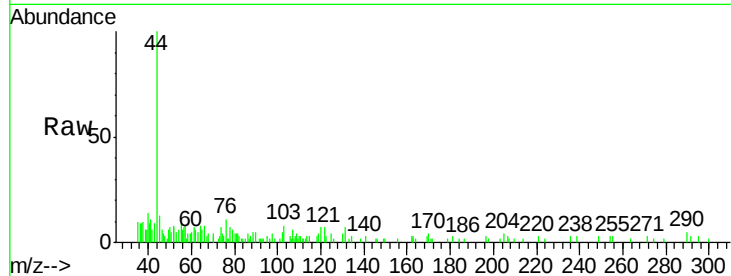
MH-6

Tot Ion: 56 Resp: 496

Ion Ratio Lower Upper

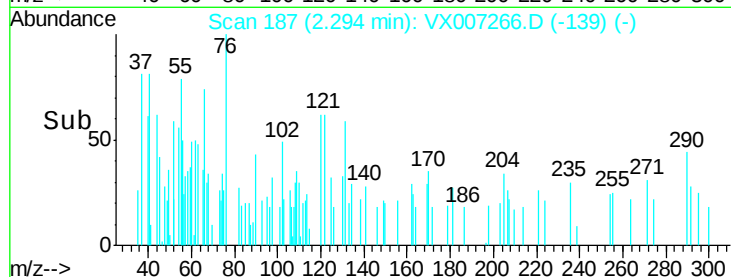
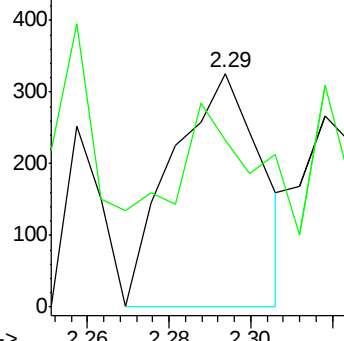
56 100

55 71.2 58.2 87.4

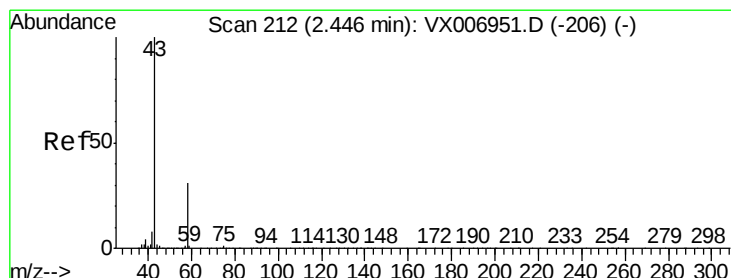


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 11.189 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007266.D

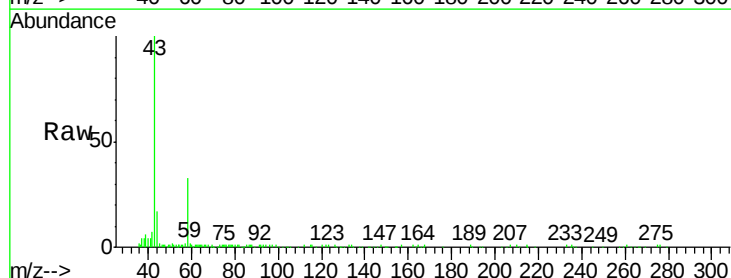
Acq: 28 Jan 2019 17:45

Tgt Ion: 43 Resp: 30873

Ion Ratio Lower Upper

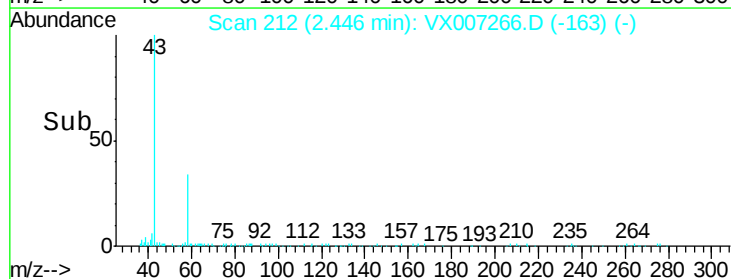
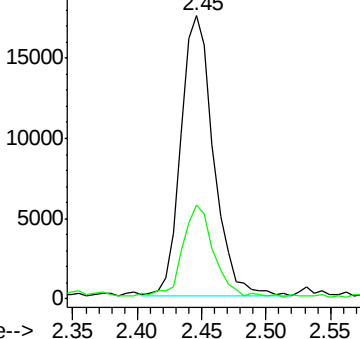
43 100

58 31.9 25.0 37.6

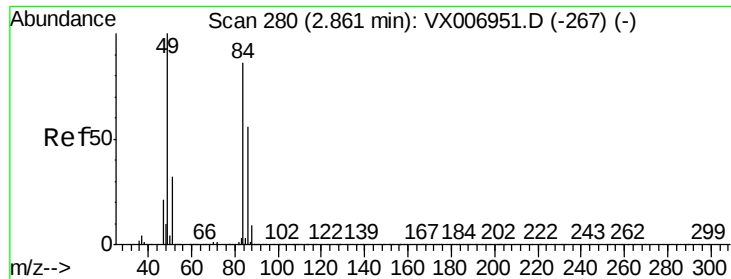


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



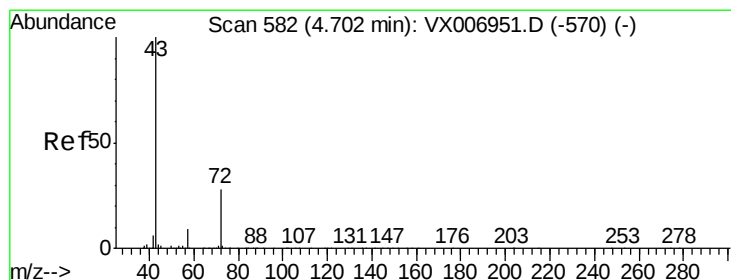
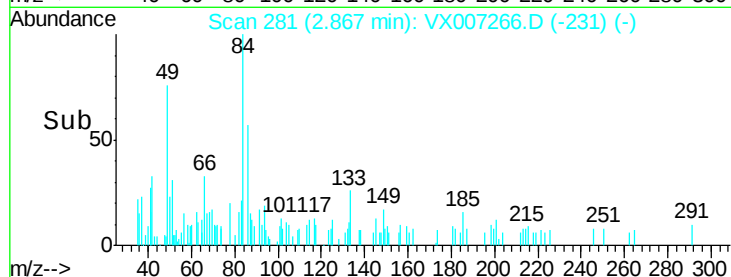
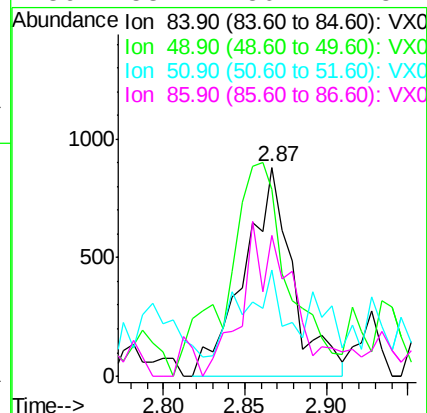
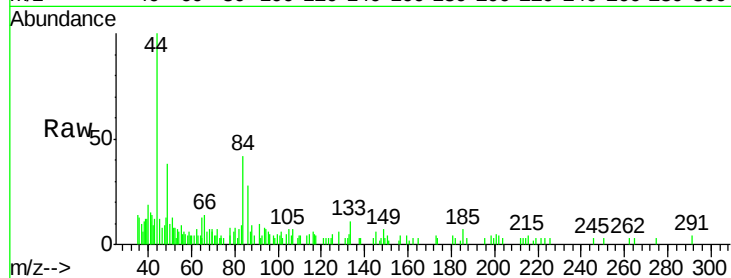
Time-->



#20
Methvlene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

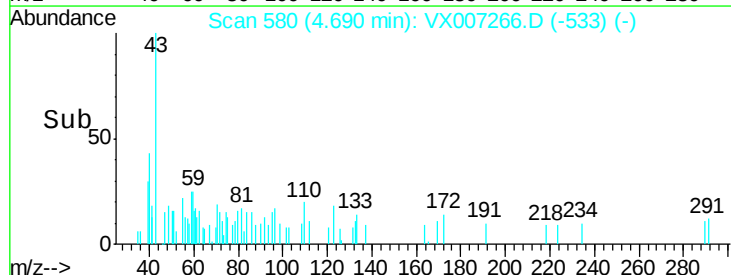
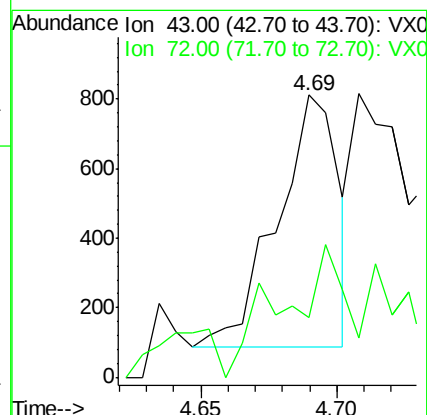
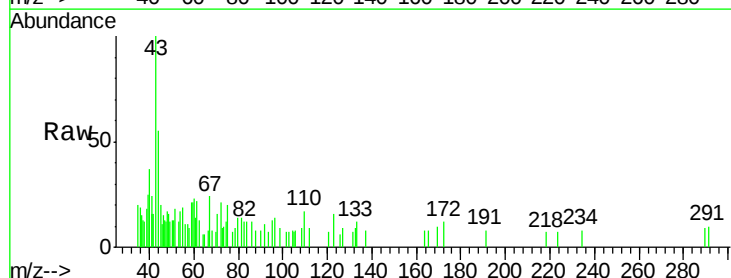
Instrument :
MSVOA_X
ClientSampled :
MH-6

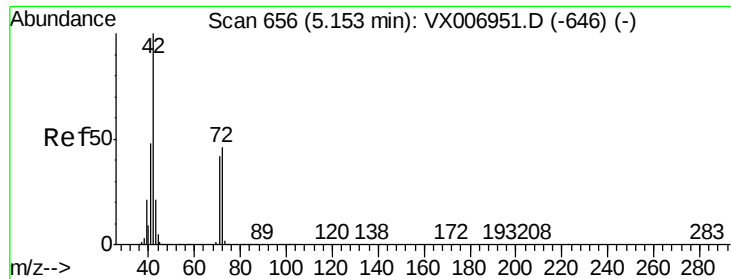
Tot Ion: 84 Resp: 1831
Ion Ratio Lower Upper
84 100
49 79.3 91.8 137.6#
51 37.2 28.5 42.7
86 53.7 50.2 75.2



#25
2-Butanone
Concen: 0.287 ug/l
RT: 4.69 min Scan# 580
Delta R.T. -0.01 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

Tgt Ion: 43 Resp: 1134
Ion Ratio Lower Upper
43 100
72 6.2 22.4 33.6#





#29

Tetrahydrofuran

Concen: 1.400 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

MH-6

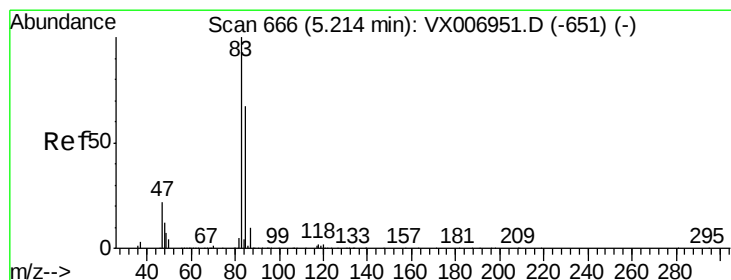
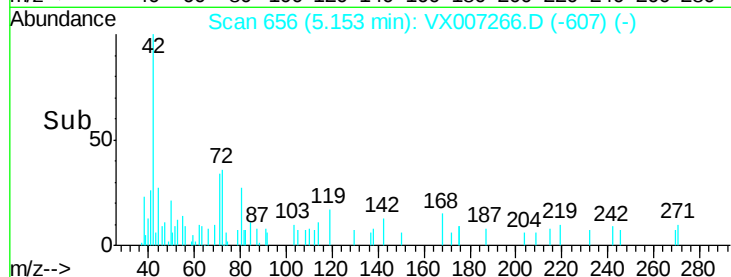
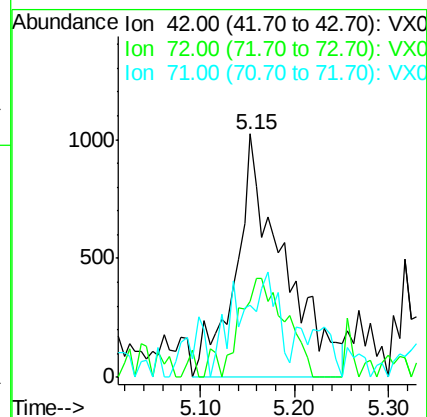
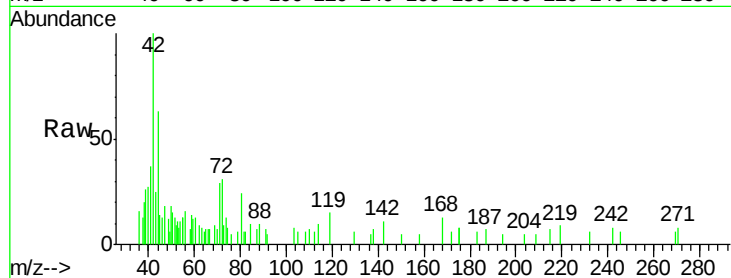
Tot Ion: 42 Resp: 3591

Ion Ratio Lower Upper

42 100

72 38.3 38.9 58.3#

71 22.6 36.2 54.4#



#30

Chloroform

Concen: 0.626 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX007266.D

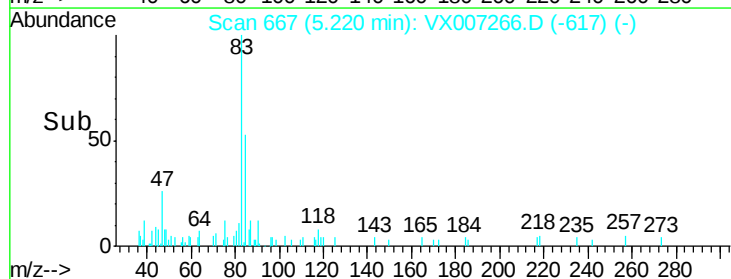
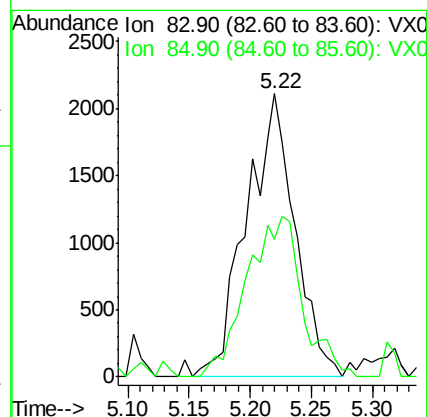
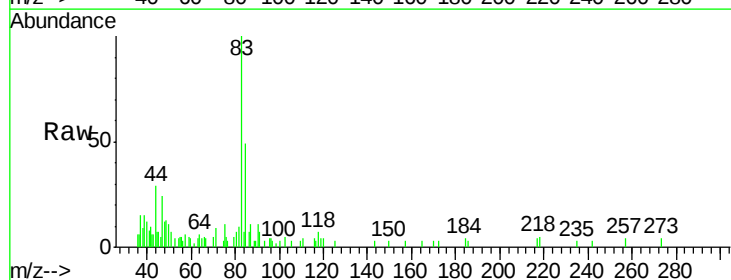
Acq: 28 Jan 2019 17:45

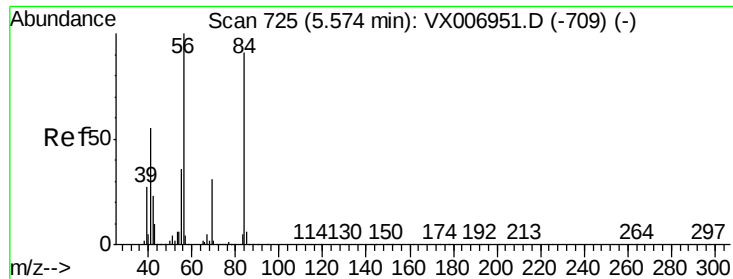
Tgt Ion: 83 Resp: 5798

Ion Ratio Lower Upper

83 100

85 48.6 51.2 76.8#

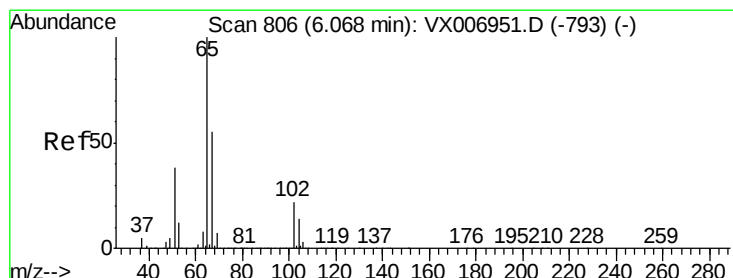
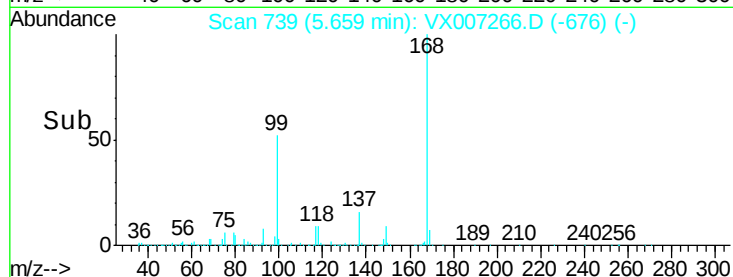
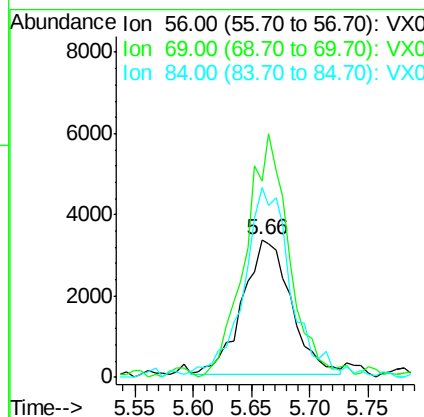
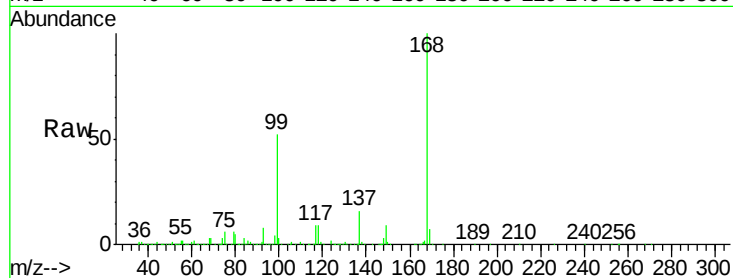




#31
Cyclohexane
Concen: 1.224 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

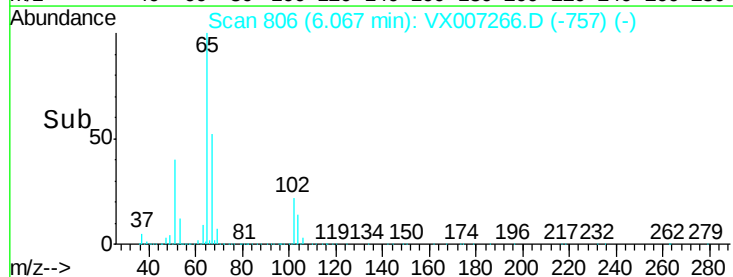
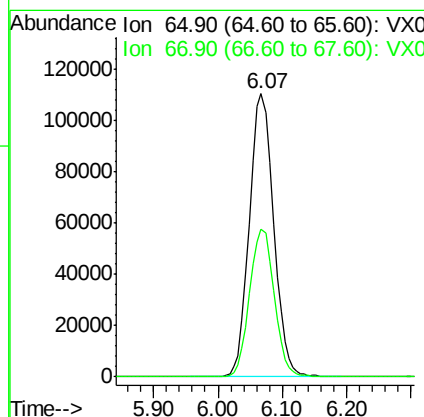
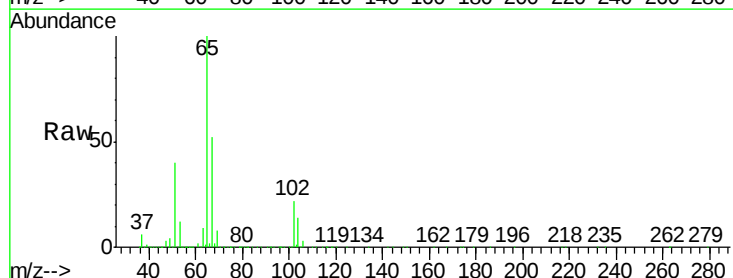
Instrument :
MSVOA_X
ClientSampleId :
MH-6

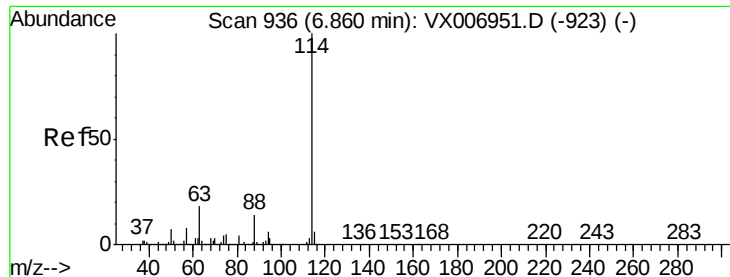
Tot Ion: 56 Resp: 9631
Ion Ratio Lower Upper
56 100
69 143.1 24.4 36.6#
84 142.9 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 51.253 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

Tgt Ion: 65 Resp: 286048
Ion Ratio Lower Upper
65 100
67 52.7 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

Instrument :

MSVOA_X

ClientSampleId :

MH-6

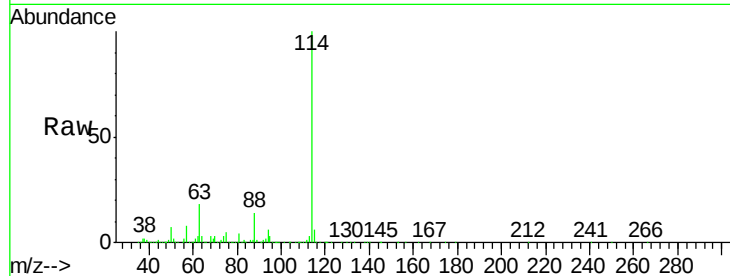
Tot Ion:114 Resp: 812742

Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.8

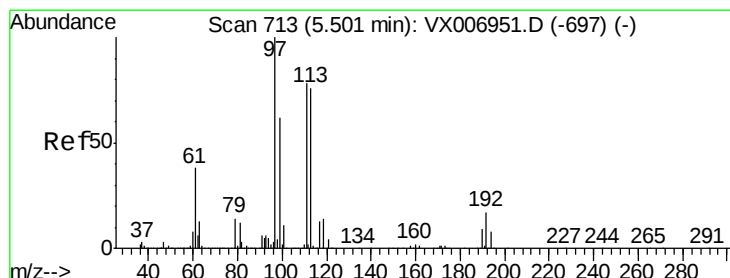
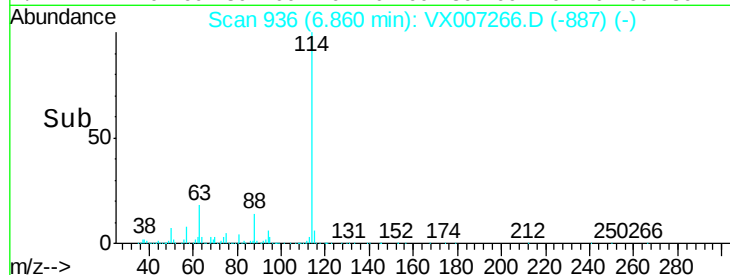
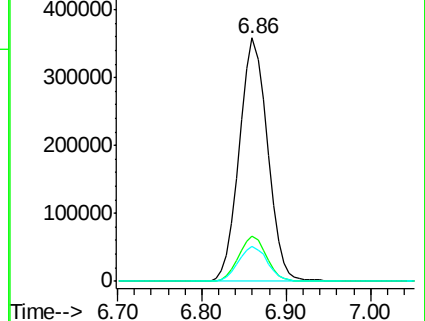
88 14.1 0.0 28.8



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: 49.752 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

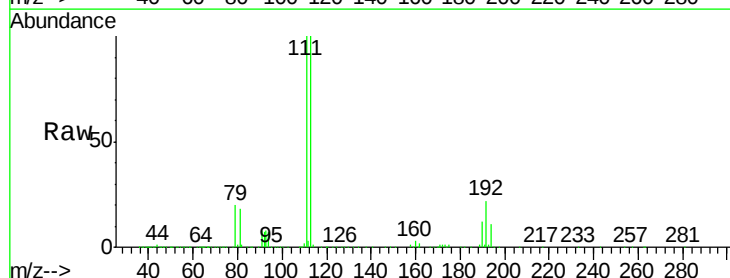
Tgt Ion:113 Resp: 258945

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

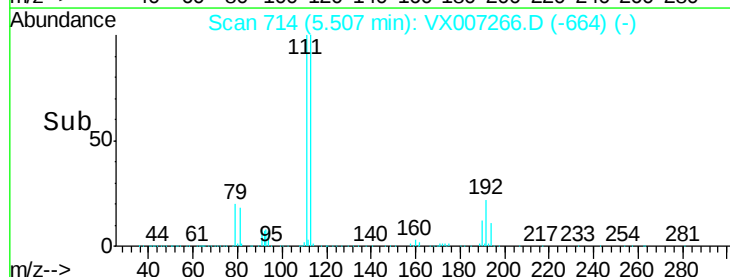
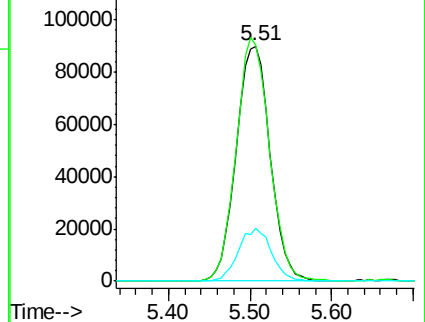
192 22.1 16.7 25.1

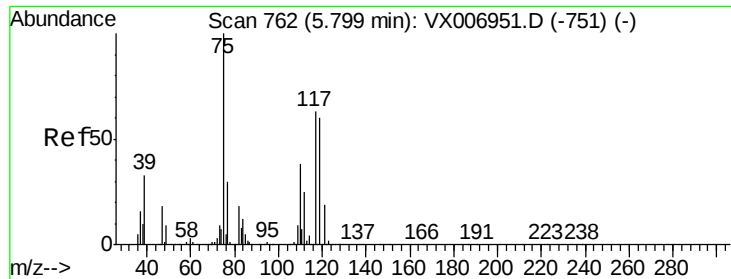


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

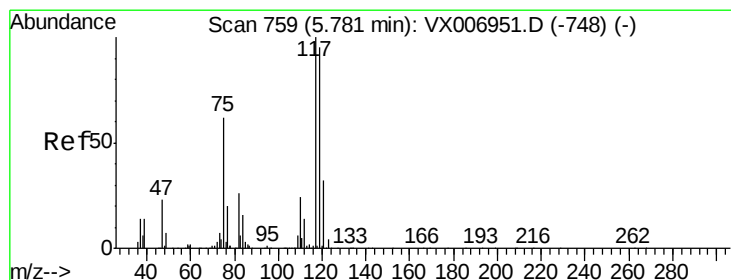
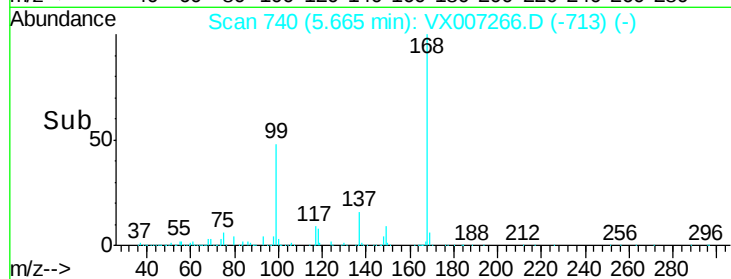
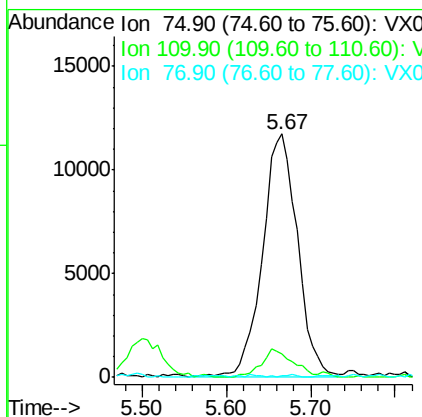
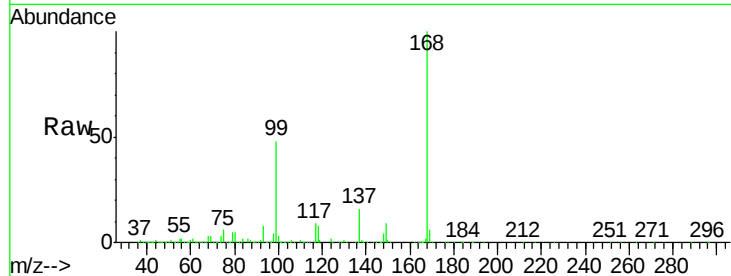




#36
 1,1-Dichloropropene
 Concen: 4.795 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007266.D
 Acq: 28 Jan 2019 17:45

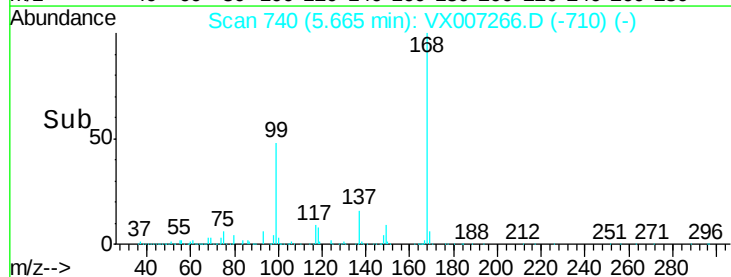
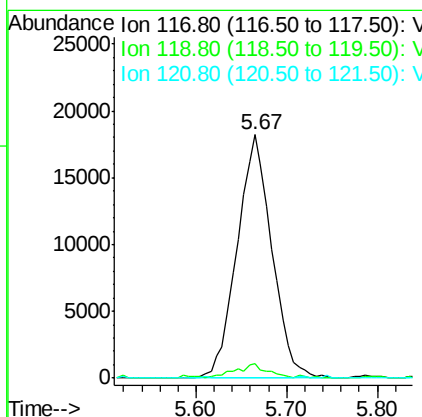
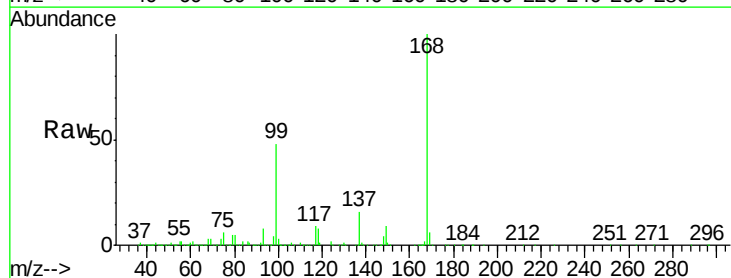
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-6

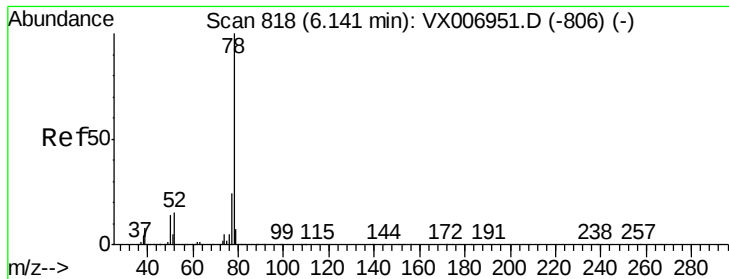
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	20.2	60.5#
77	0.1	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.793 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007266.D
 Acq: 28 Jan 2019 17:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	79.4	119.2#
121	0.0	24.0	36.0#





#40

Benzene

Concen: 0.431 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

Instrument :

MSVOA_X

ClientSampleId :

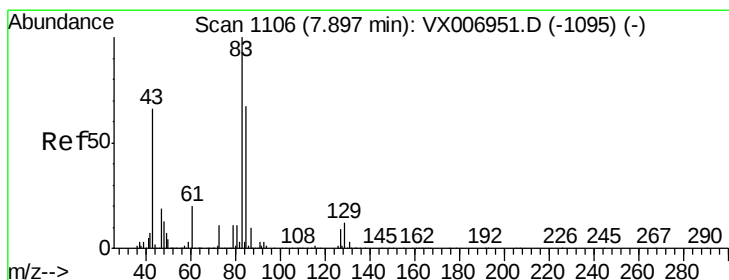
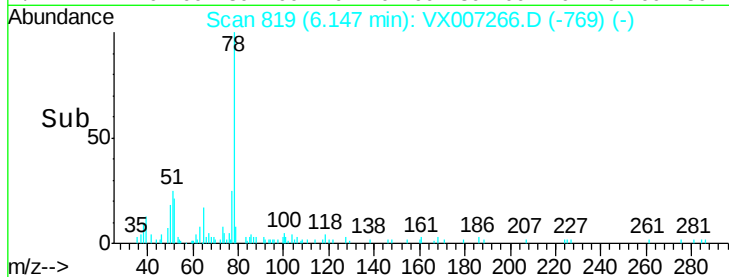
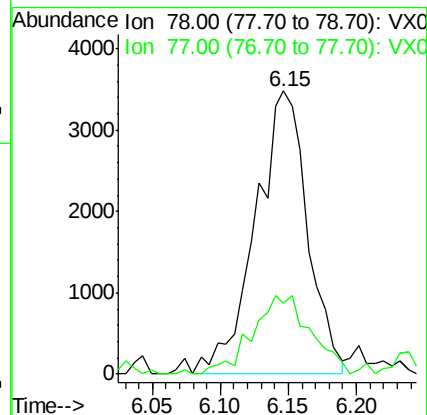
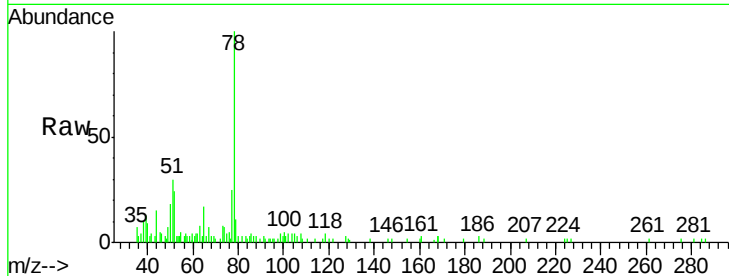
MH-6

Tot Ion: 78 Resp: 9297

Ion Ratio Lower Upper

78 100

77 25.1 19.2 28.8



#47

Bromodichloromethane

Concen: 0.385 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

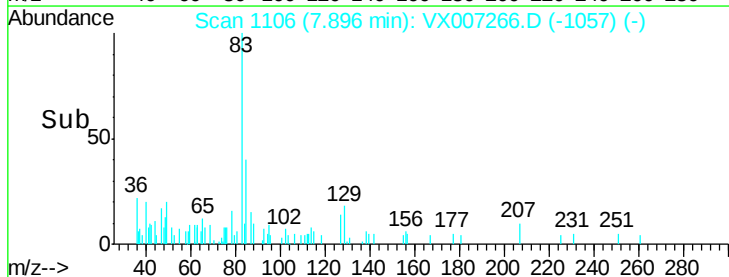
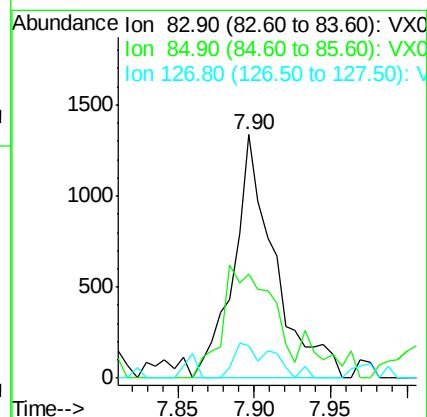
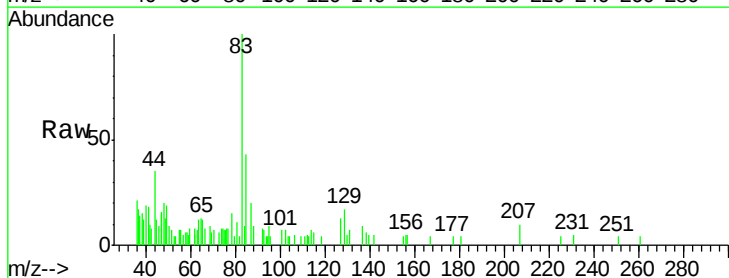
Tgt Ion: 83 Resp: 2497

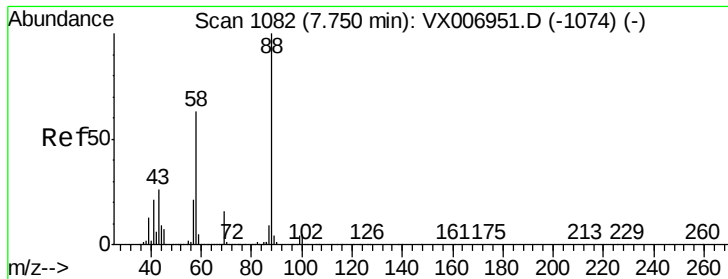
Ion Ratio Lower Upper

83 100

85 42.6 53.2 79.8#

127 13.2 7.8 11.6#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.71 min Scan# 1076

Delta R.T. -0.04 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

MH-6

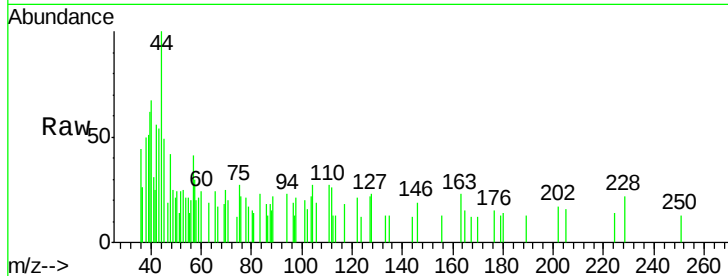
Tot Ion: 88 Resp: 138

Ion Ratio Lower Upper

88 100

43 67.4 22.2 33.4#

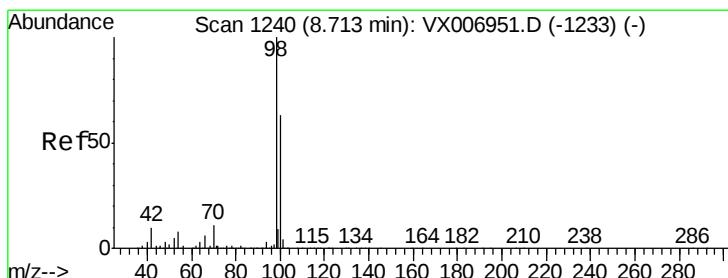
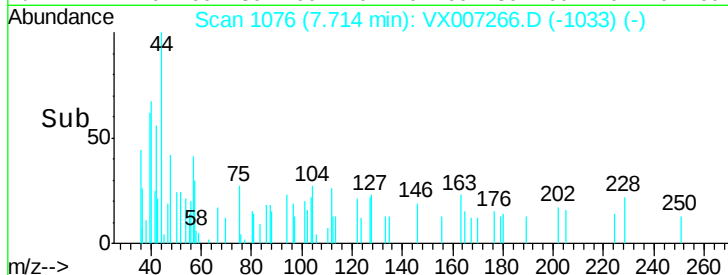
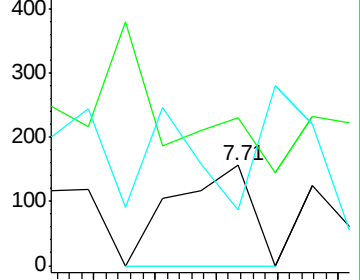
58 118.1 51.0 76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 51.552 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007266.D

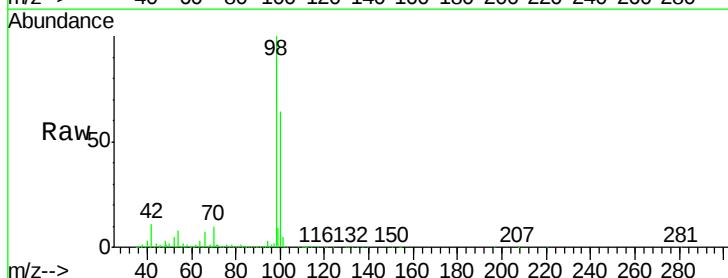
Acq: 28 Jan 2019 17:45

Tgt Ion: 98 Resp: 982115

Ion Ratio Lower Upper

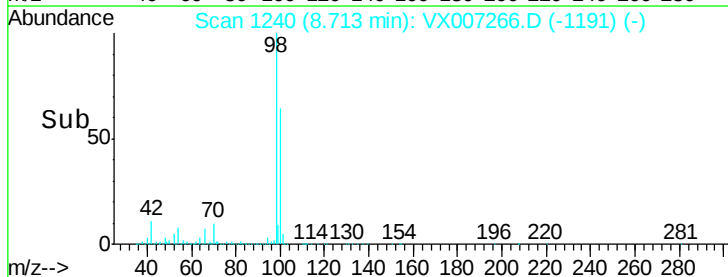
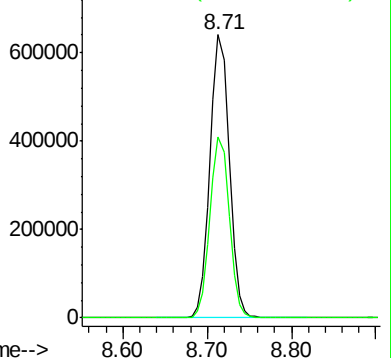
98 100

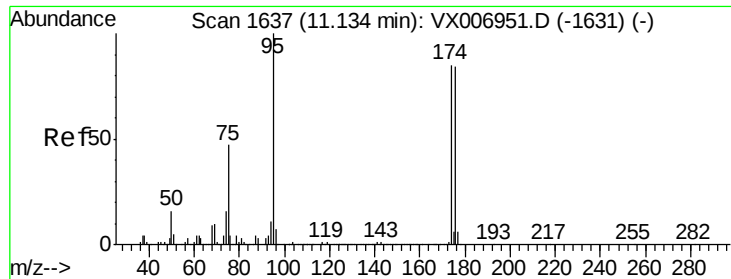
100 64.2 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

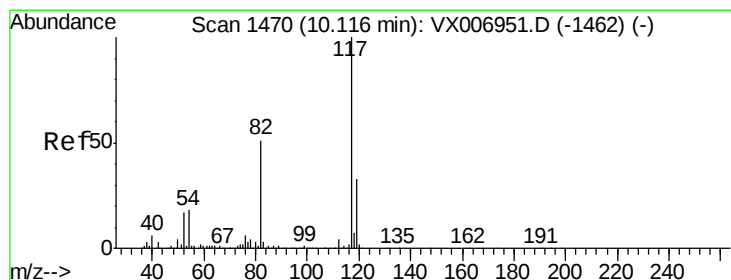
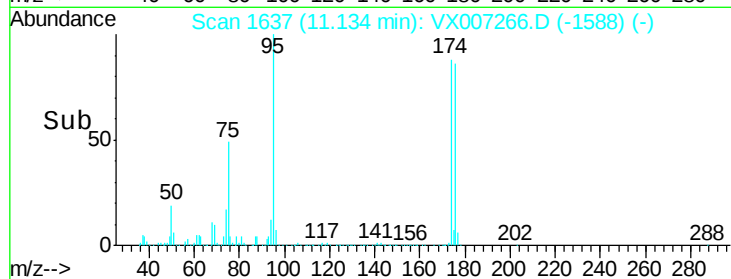
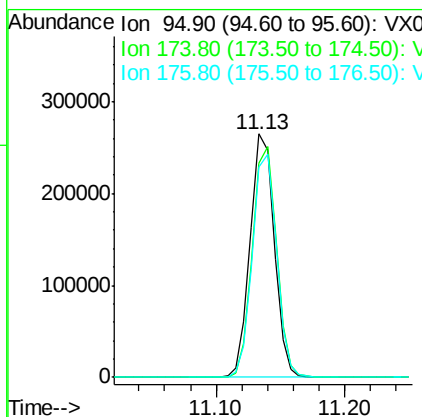
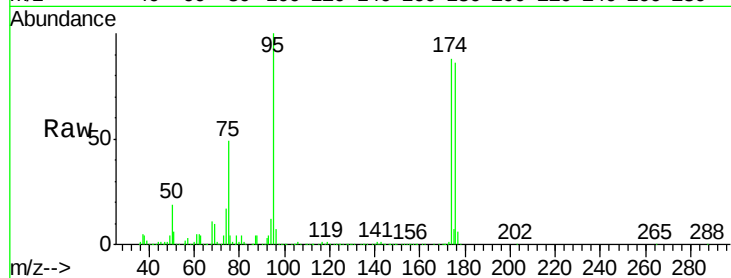




#62
4-Bromofluorobenzene
Concen: 51.292 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

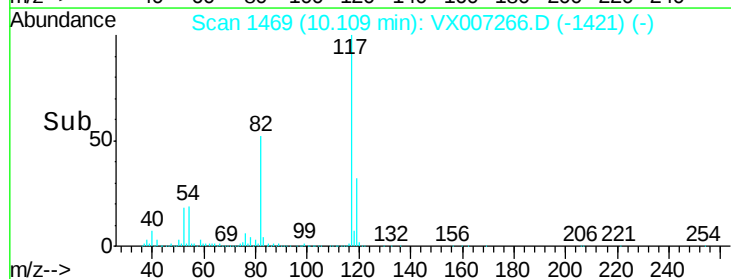
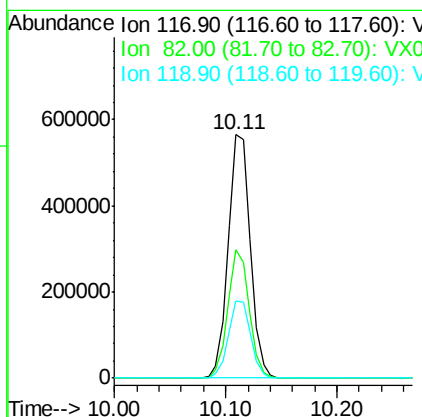
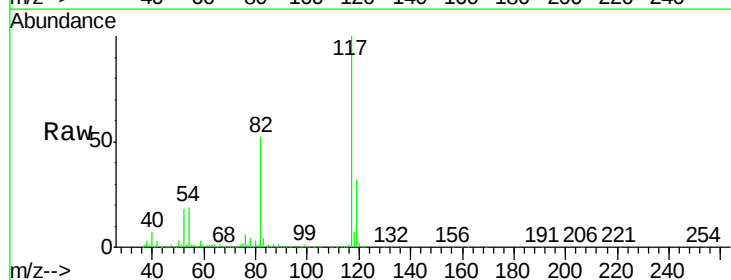
Instrument :
MSVOA_X
ClientSampleId :
MH-6

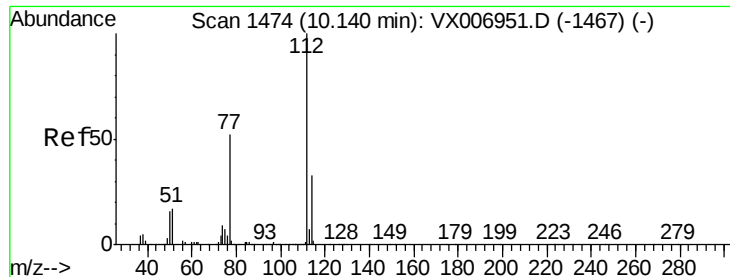
Tot Ion	95	Resp	340666
Ion	Ratio	Lower	Upper
95	100		
174	95.0	0.0	182.2
176	92.1	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

Tgt Ion	117	Resp	776338
Ion	Ratio	Lower	Upper
117	100		
82	52.5	41.0	61.6
119	31.8	25.4	38.0

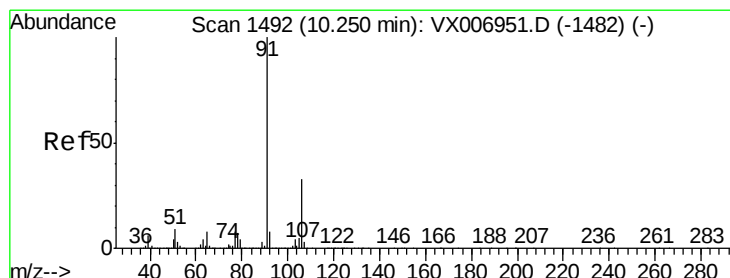
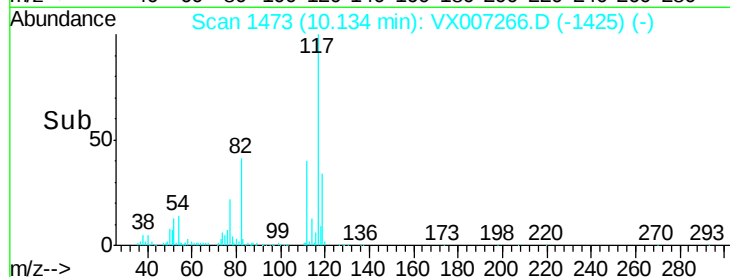
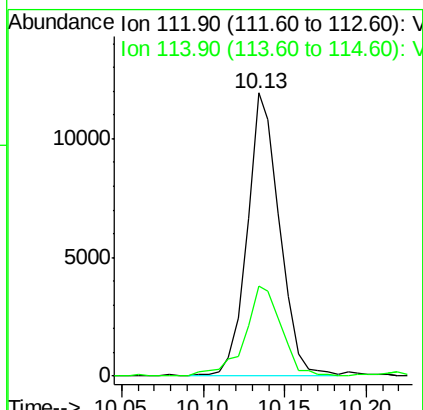
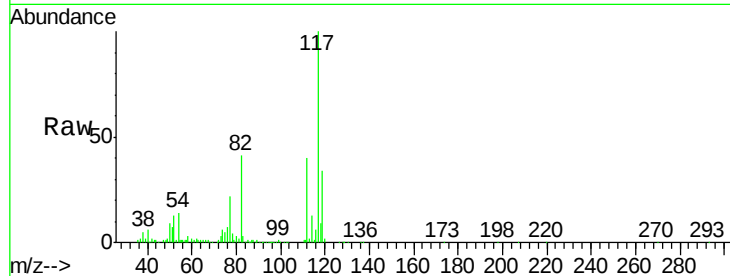




#65
Chlorobenzene
Concen: 0.971 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

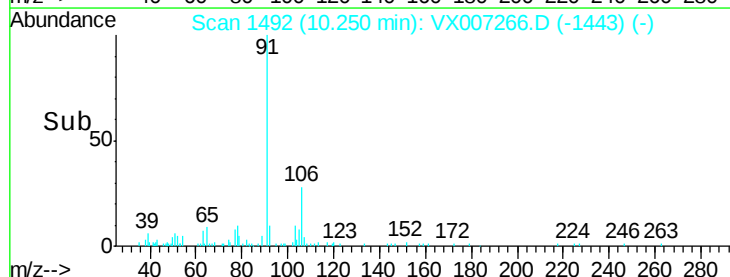
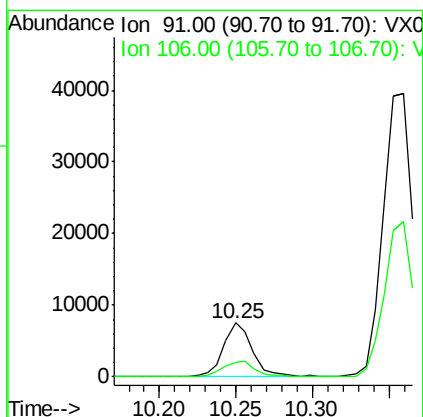
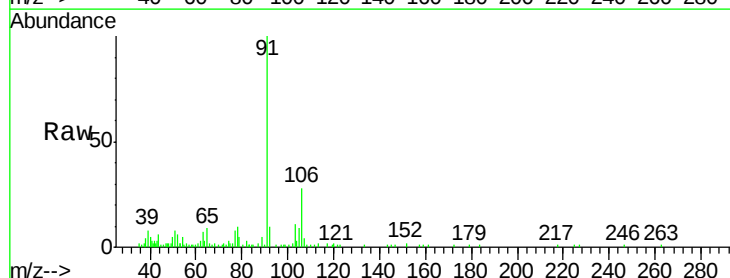
Instrument :
MSVOA_X
ClientSampled :
MH-6

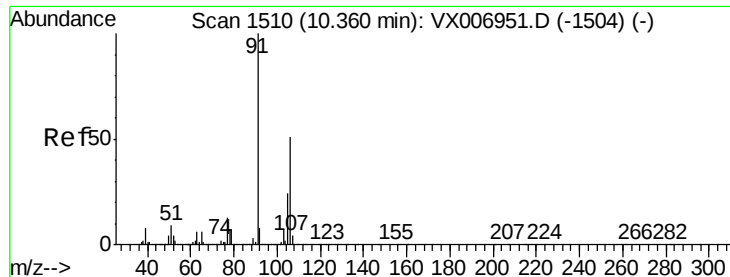
Tot Ion:112 Resp: 16438
Ion Ratio Lower Upper
112 100
114 31.9 25.7 38.5



#67
Ethyl Benzene
Concen: 0.363 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

Tgt Ion: 91 Resp: 10149
Ion Ratio Lower Upper
91 100
106 27.8 26.4 39.6

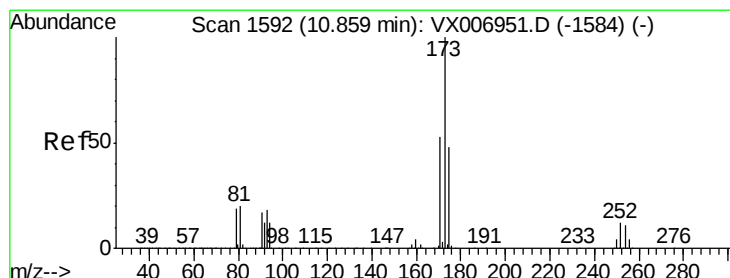
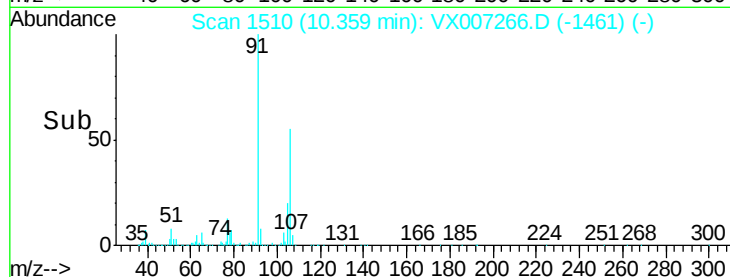
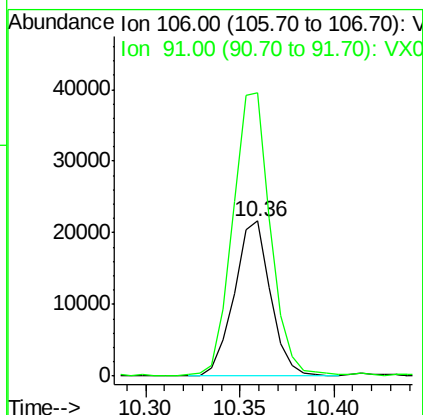
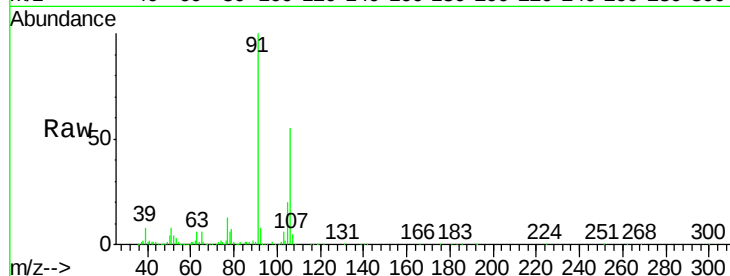




#68
m/p-Xvlenes
Concen: 2.625 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

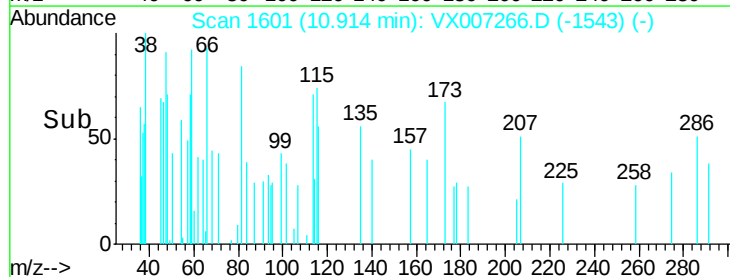
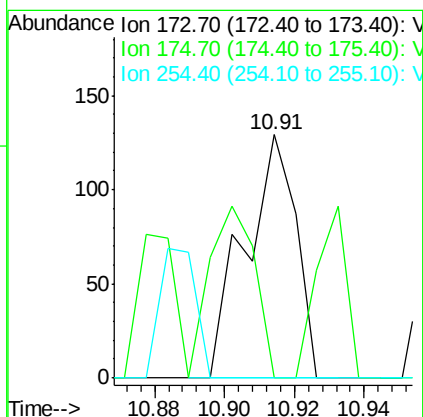
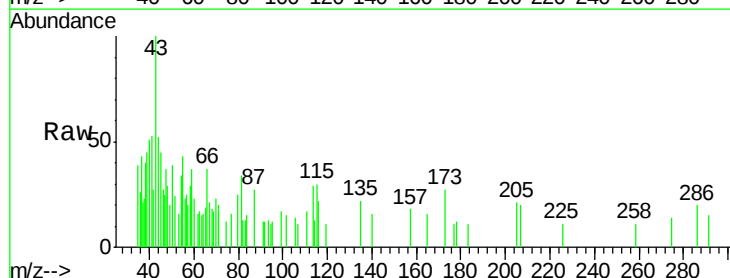
Instrument :
MSVOA_X
ClientSampled :
MH-6

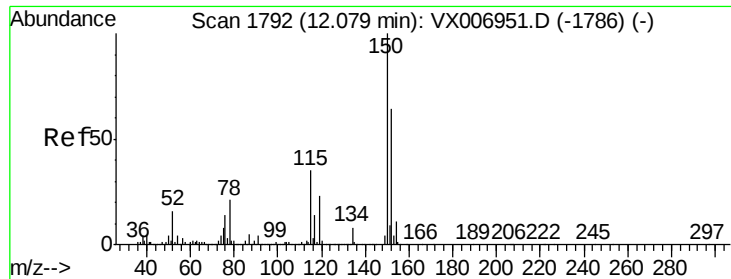
Tot Ion:106 Resp: 28909
Ion Ratio Lower Upper
106 100
91 189.6 155.8 233.6



#71
Bromoform
Concen: 4.751 ug/l
RT: 10.91 min Scan# 1601
Delta R.T. 0.06 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

Tgt Ion:173 Resp: 130
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#



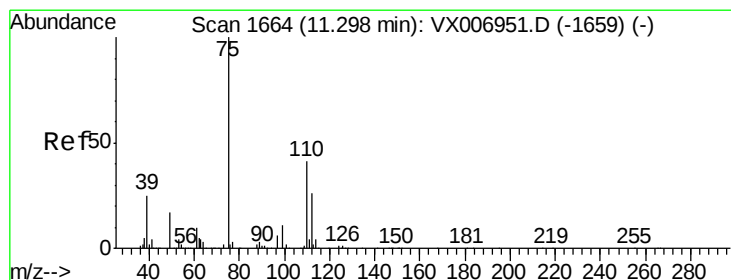
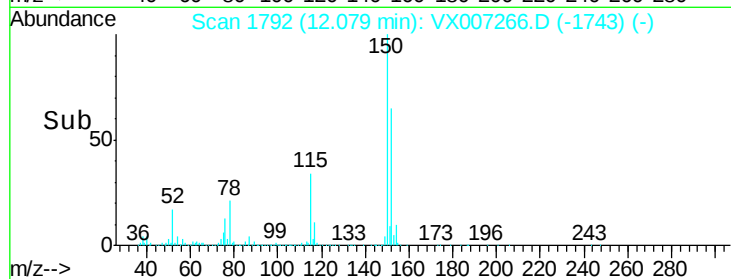
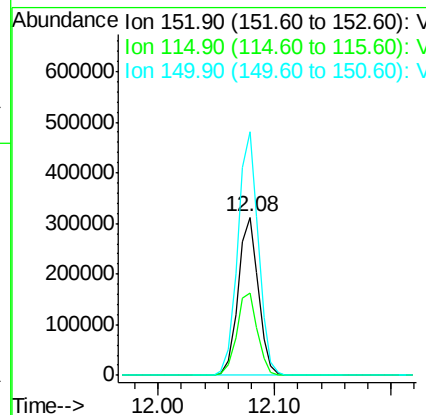
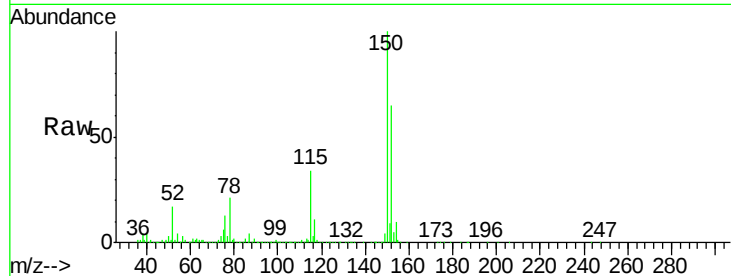


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

Instrument :
MSVOA_X
ClientSampled :
MH-6

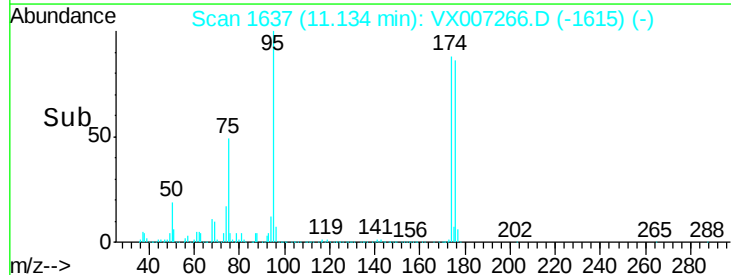
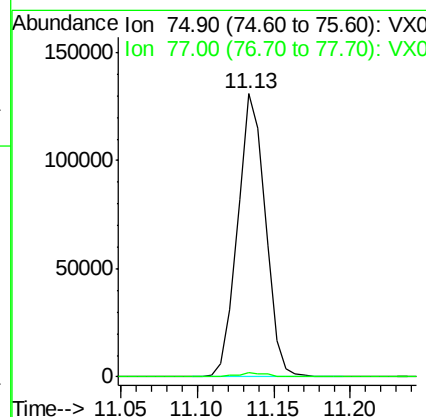
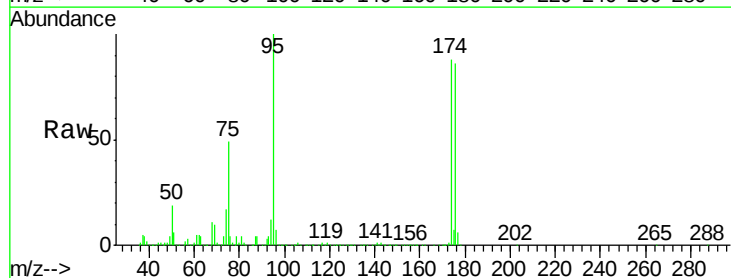
Tot Ion:152 Resp: 377309
Ion Ratio Lower Upper
152 100
115 53.7 39.1 117.2
150 156.7 0.0 344.8

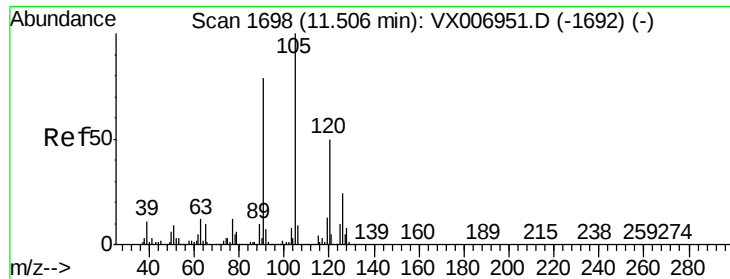


#76

1,2,3-Trichloropropane
Concen: 21.487 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007266.D
Acq: 28 Jan 2019 17:45

Tgt Ion: 75 Resp: 164292
Ion Ratio Lower Upper
75 100
77 1.7 18.5 55.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.212 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

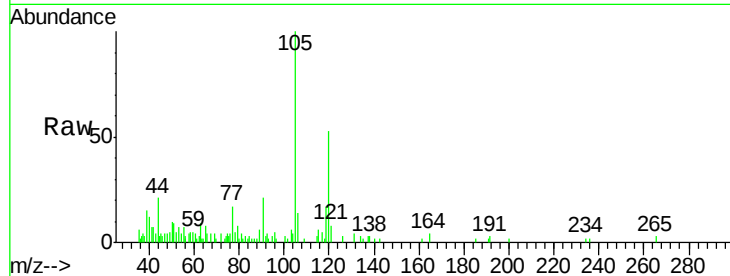
MH-6

Tot Ion:105 Resp: 4712

Ion Ratio Lower Upper

105 100

120 51.0 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

4000

3000

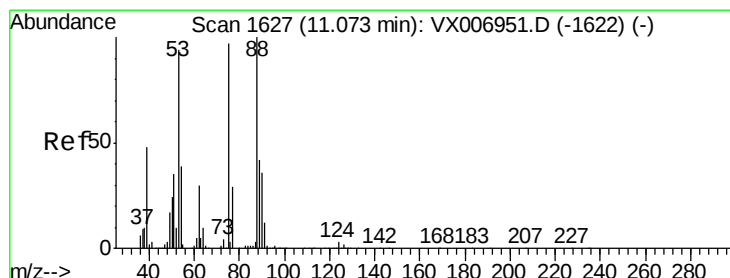
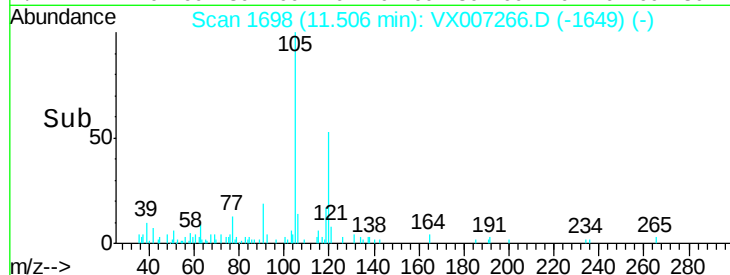
2000

1000

0

11.45 11.50 11.55

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 63.722 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

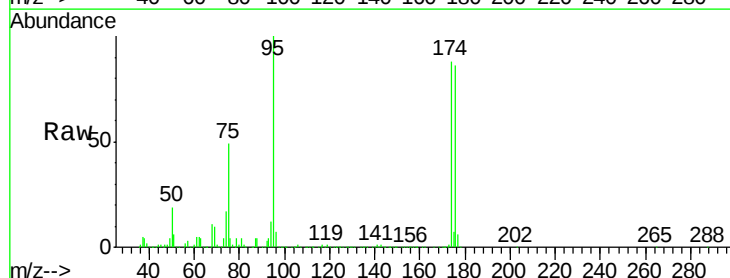
Tgt Ion: 75 Resp: 164292

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#



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

150000

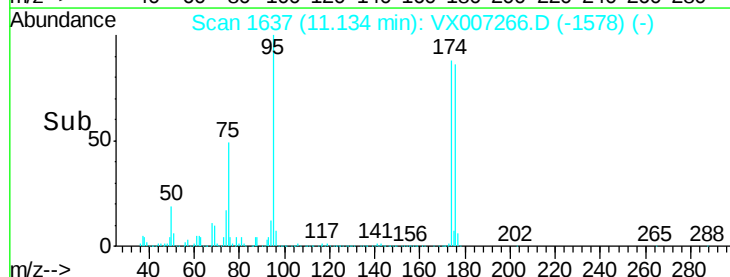
100000

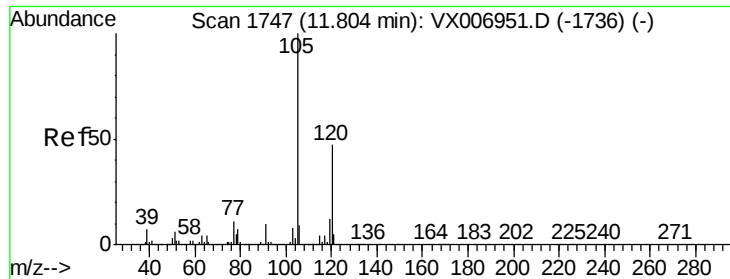
50000

0

11.05 11.10 11.15 11.20

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 0.667 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

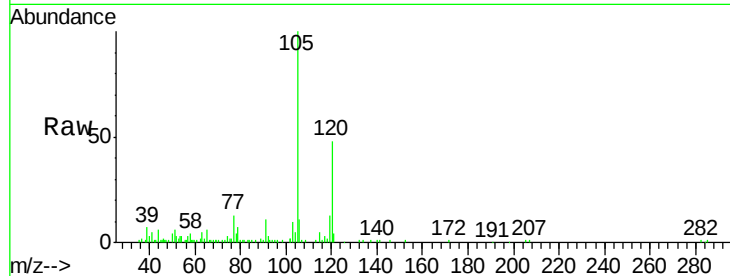
MH-6

Tot Ion:105 Resp: 14906

Ion Ratio Lower Upper

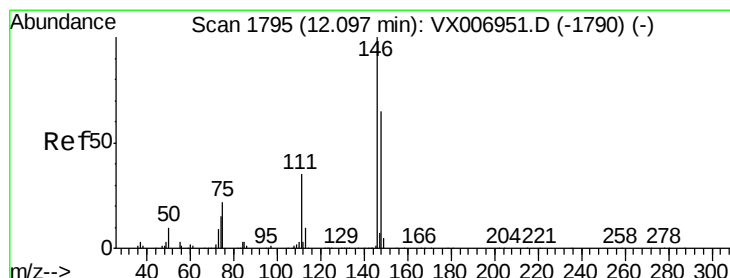
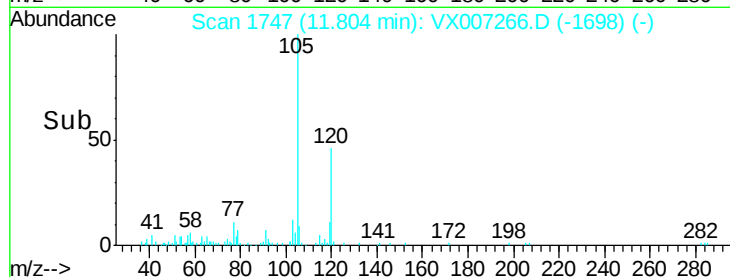
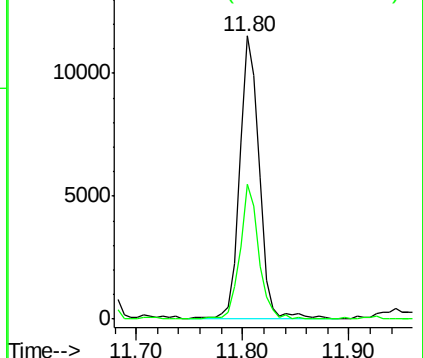
105 100

120 45.8 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#88

1,4-Dichlorobenzene

Concen: 0.690 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

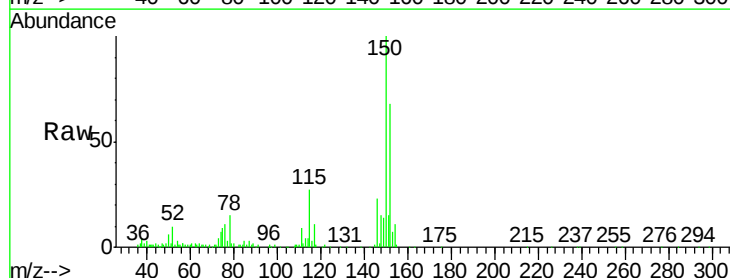
Tgt Ion:146 Resp: 6867

Ion Ratio Lower Upper

146 100

111 105.6 18.1 54.1#

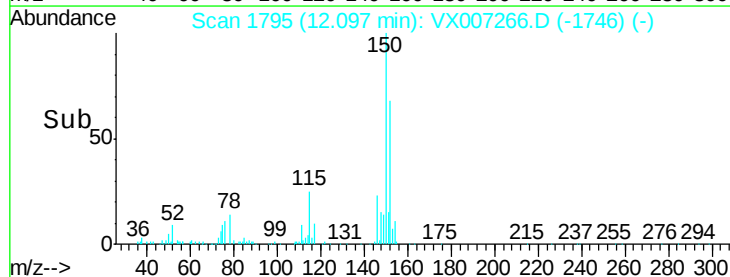
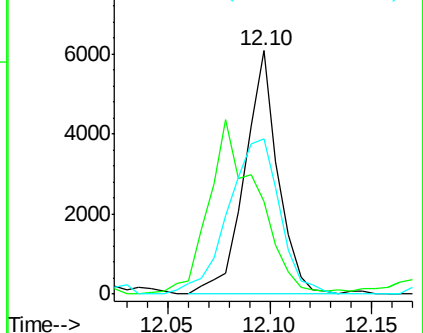
148 99.1 31.9 95.9#

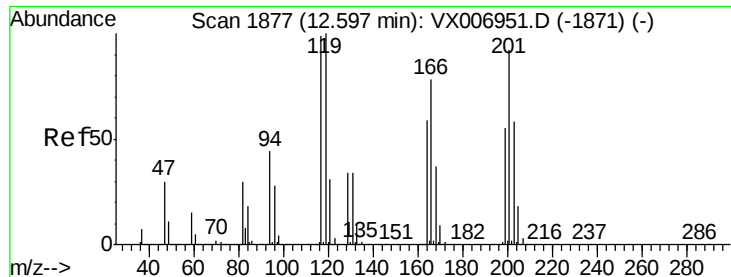


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#90

Hexachloroethane

Concen: 2.966 ug/l

RT: 12.67 min Scan# 1889

Delta R.T. 0.07 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

Instrument :

MSVOA_X

ClientSampled :

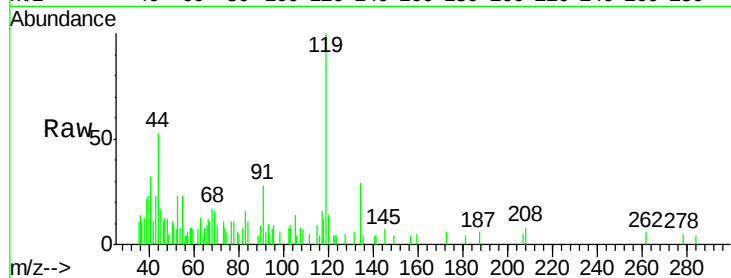
MH-6

Tot Ion:117 Resp: 233

Ion Ratio Lower Upper

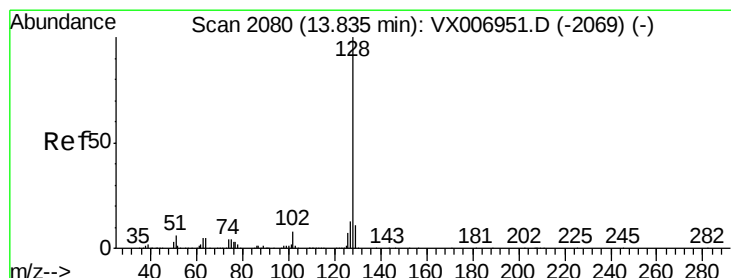
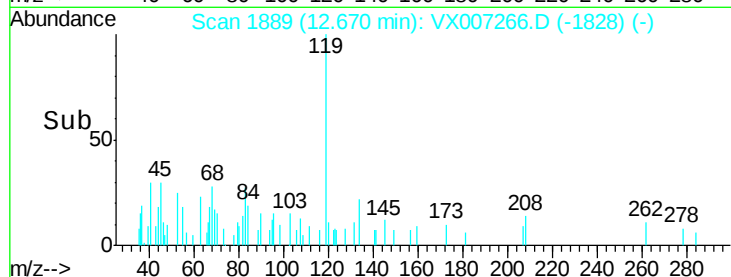
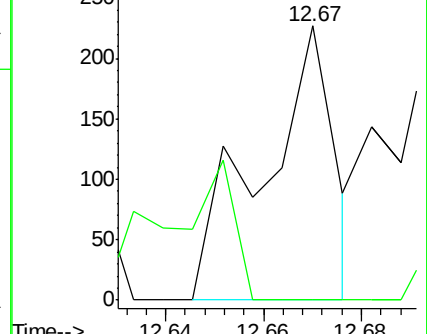
117 100

201 48.5 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.313 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007266.D

Acq: 28 Jan 2019 17:45

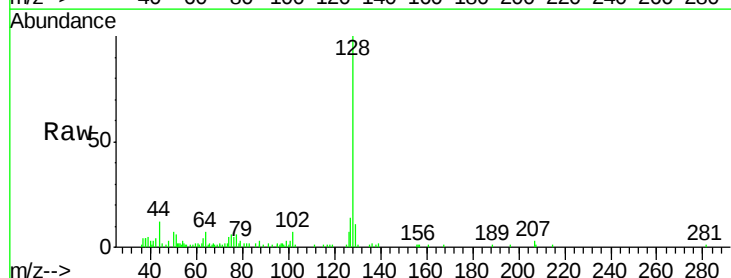
Tgt Ion:128 Resp: 8507

Ion Ratio Lower Upper

128 100

127 18.1 10.1 15.1#

129 12.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

