

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101818\
 Data File : VX005431.D
 Acq On : 18 Oct 2018 15:43
 Operator : JC/MD
 Sample : J5588-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-6

Quant Time: Oct 19 03:33:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	317989	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	448625	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	391311	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190944	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	175380	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
35) Dibromofluoromethane	5.50	113	138464	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
50) Toluene-d8	8.72	98	524817	51.45	ug/l	0.00
Spiked Amount			Recovery	=	102.90%	
62) 4-Bromofluorobenzene	11.14	95	174804	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	

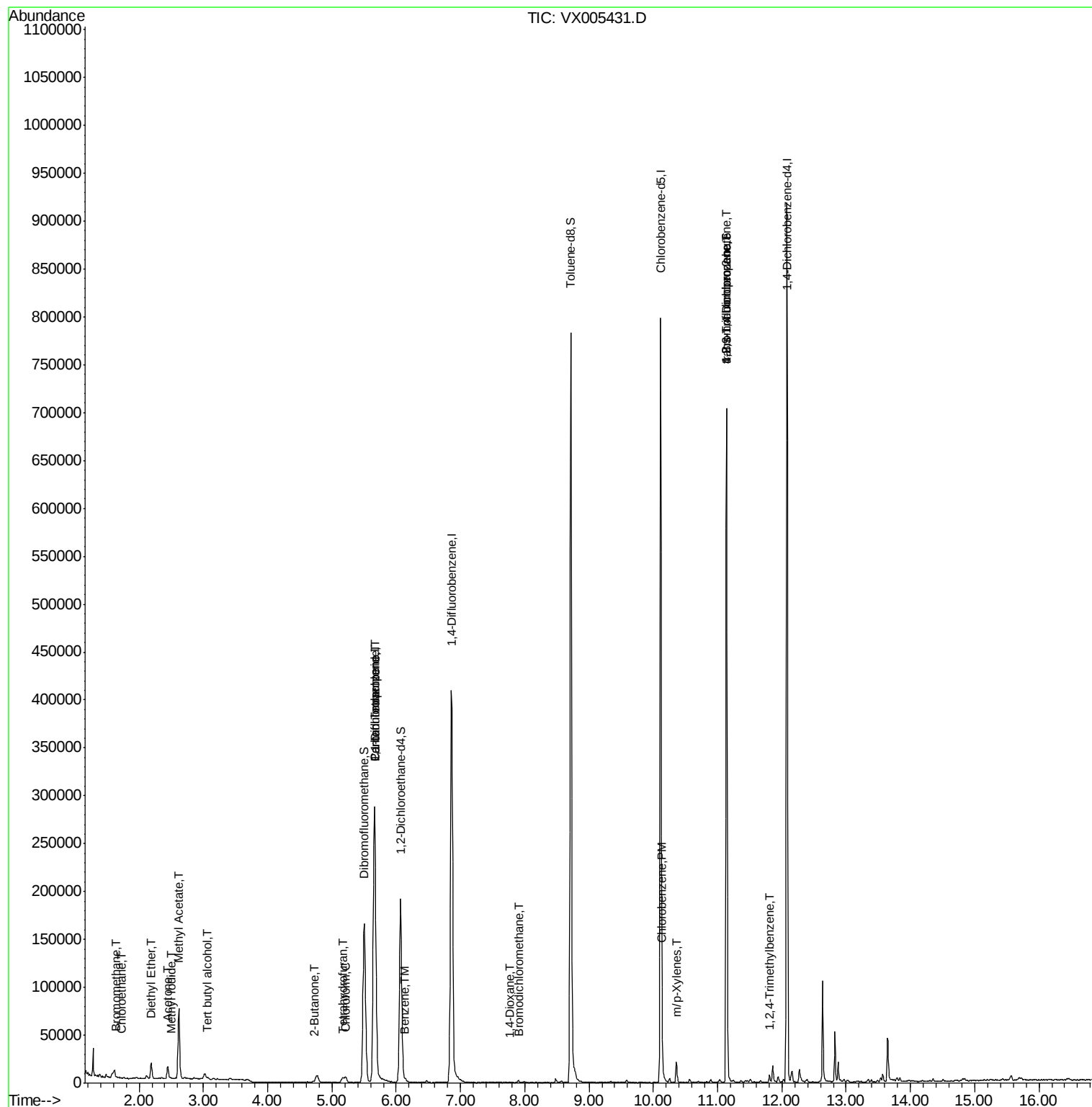
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	755	0.946	ug/l	91
6) Chloroethane	1.73	64	118	0.384	ug/l #	49
8) Diethyl Ether	2.19	74	4445	2.137	ug/l	95
10) Methyl Iodide	2.51	142	566	2.663	ug/l #	92
11) Tert butyl alcohol	3.07	59	1581	1.588	ug/l #	62
13) Acrolein	2.29	56	229	Below Cal	#	1
16) Acetone	2.45	43	13328	6.532	ug/l	99
18) Methyl Acetate	2.62	43	16818	2.897	ug/l #	51
20) Methylene Chloride	2.85	84	371	Below Cal	#	85
25) 2-Butanone	4.71	43	2130	0.713	ug/l #	89
29) Tetrahydrofuran	5.17	42	4262	2.238	ug/l	93
30) Chloroform	5.21	83	5844	1.070	ug/l	96
36) 1,1-Dichloropropene	5.66	75	20511	4.721	ug/l #	49
38) Carbon Tetrachloride	5.66	117	27048	6.196	ug/l #	15
40) Benzene	6.14	78	3185	0.244	ug/l	95
44) Trichloroethene	7.21	130	162	Below Cal		93
47) Bromodichloromethane	7.90	83	1371	0.351	ug/l #	92
49) 1,4-Dioxane	7.77	88	59	0.663	ug/l #	1
65) Chlorobenzene	10.14	112	4022	0.483	ug/l	95
68) m/p-Xylenes	10.36	106	5300	1.009	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	82999	22.409	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	82999	68.090	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	3784	0.378	ug/l	92

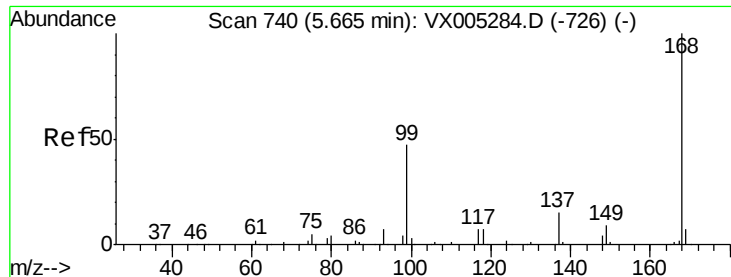
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

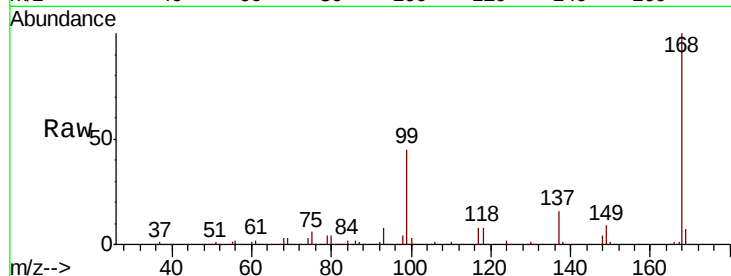
MH-6

Tot Ion:168 Resp: 317989

Ion Ratio Lower Upper

168 100

99 44.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

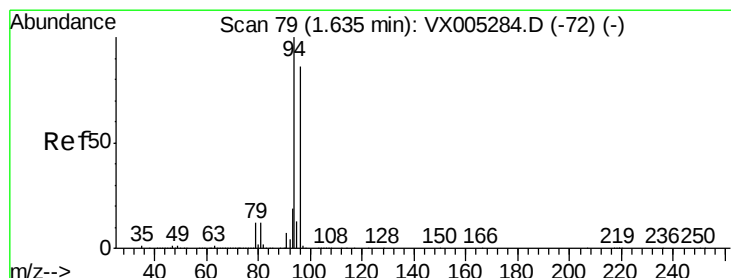
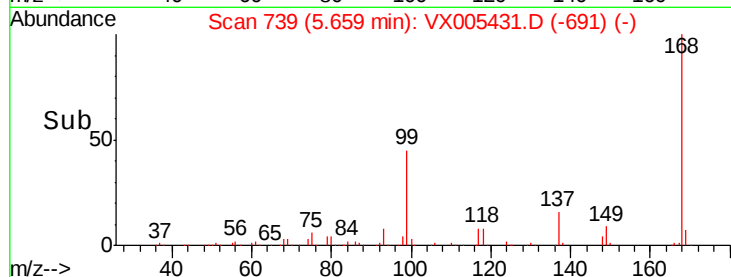
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.946 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005431.D

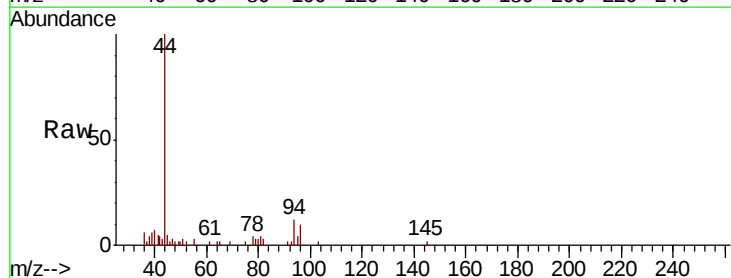
Acq: 18 Oct 2018 15:43

Tgt Ion: 94 Resp: 755

Ion Ratio Lower Upper

94 100

96 84.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

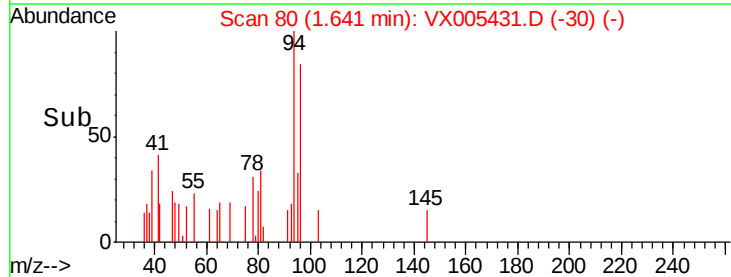
300

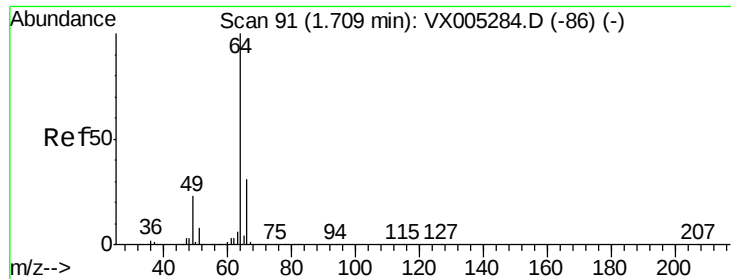
200

100

0

Time--> 1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: 0.384 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Instrument :

MSVOA_X

ClientSampled :

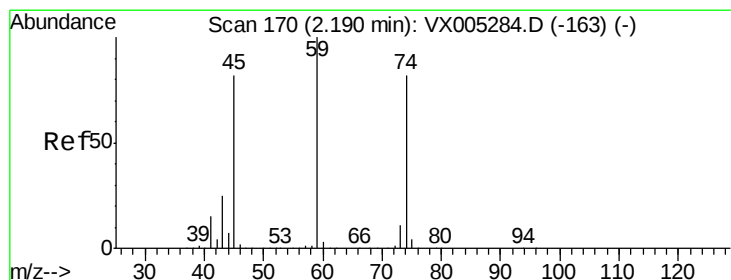
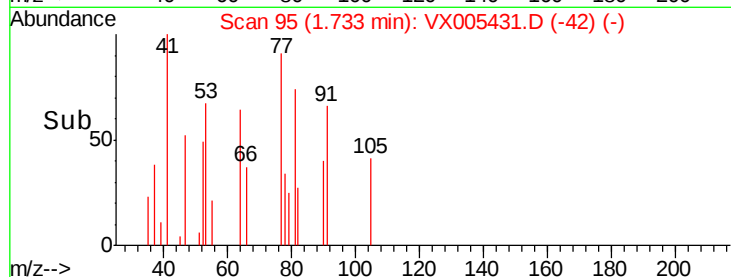
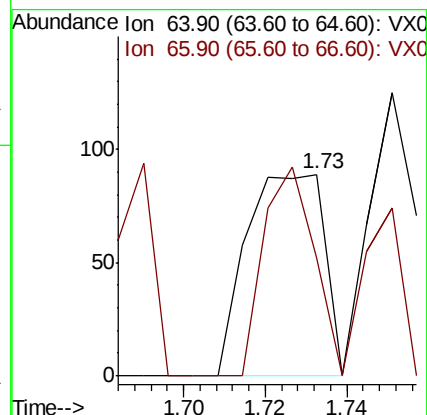
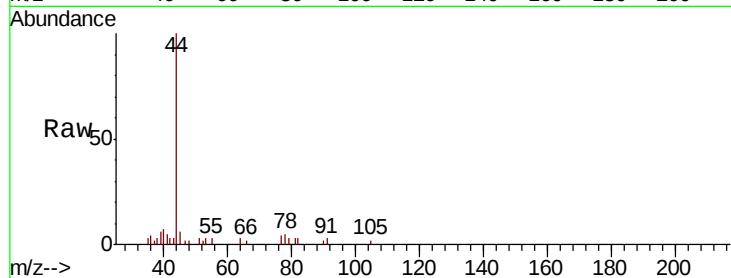
MH-6

Tot Ion: 64 Resp: 118

Ion Ratio Lower Upper

64 100

66 58.4 24.6 36.8#



#8

Diethyl Ether

Concen: 2.137 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005431.D

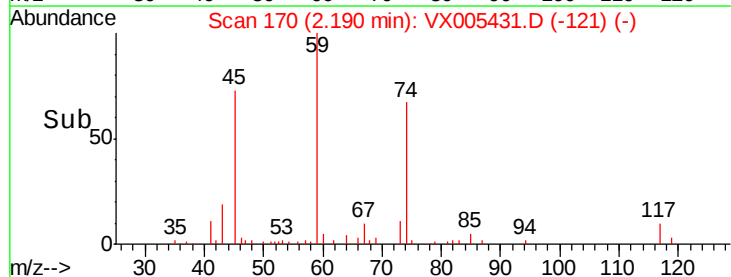
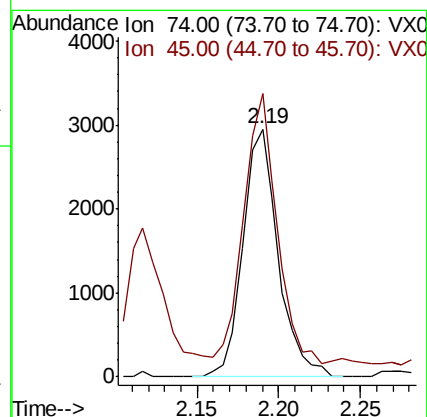
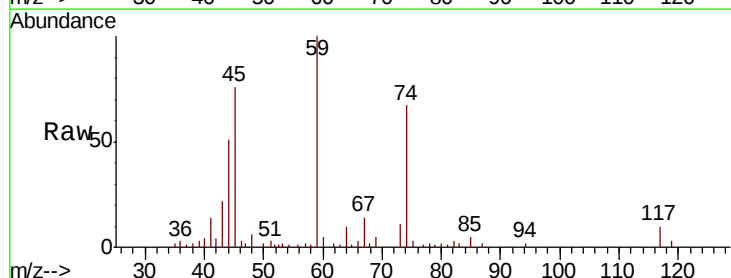
Acq: 18 Oct 2018 15:43

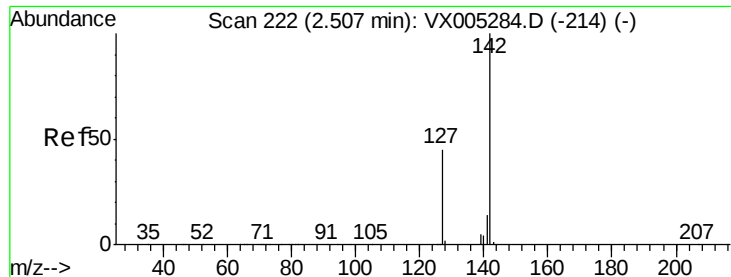
Tgt Ion: 74 Resp: 4445

Ion Ratio Lower Upper

74 100

45 101.0 48.3 144.8

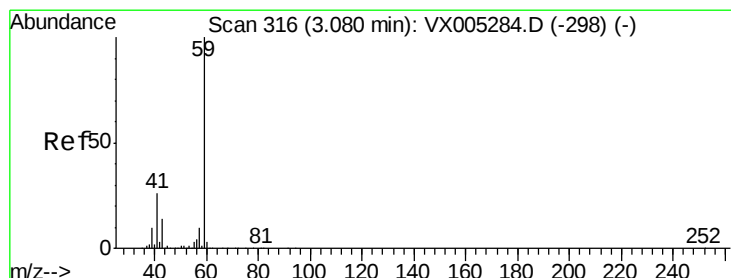
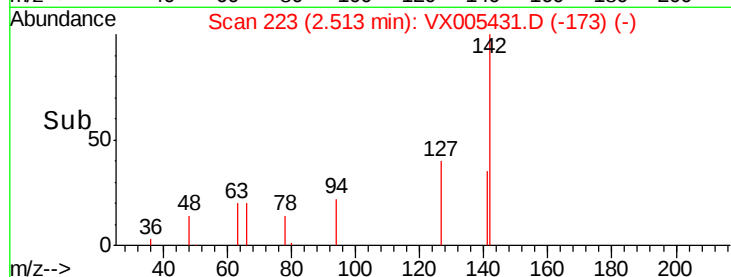
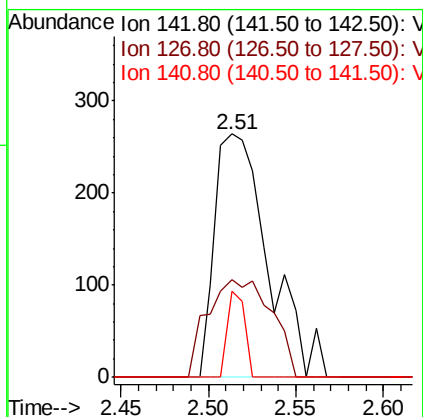
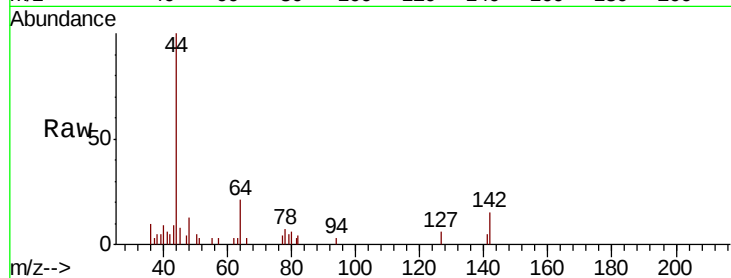




#10
Methvl Iodide
Concen: 2.663 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005431.D
Acq: 18 Oct 2018 15:43

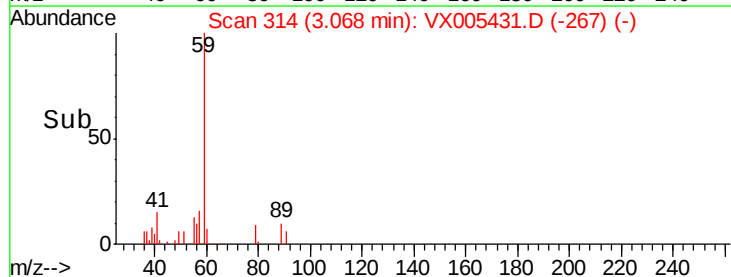
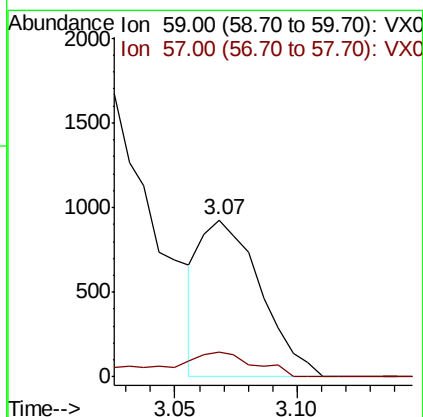
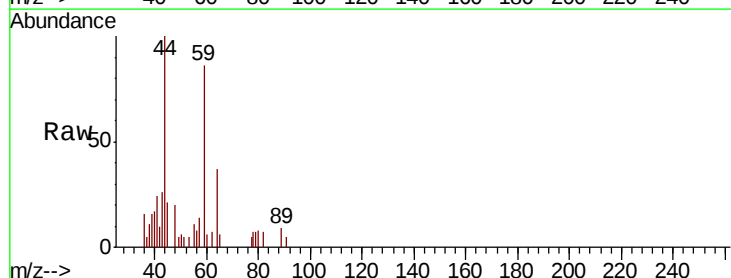
Instrument :
MSVOA_X
ClientSampleId :
MH-6

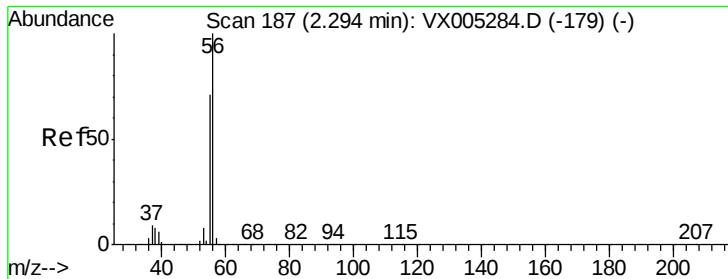
Tot Ion:142 Resp: 566
Ion Ratio Lower Upper
142 100
127 47.5 33.8 50.6
141 11.3 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.588 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX005431.D
Acq: 18 Oct 2018 15:43

Tgt Ion: 59 Resp: 1581
Ion Ratio Lower Upper
59 100
57 24.6 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

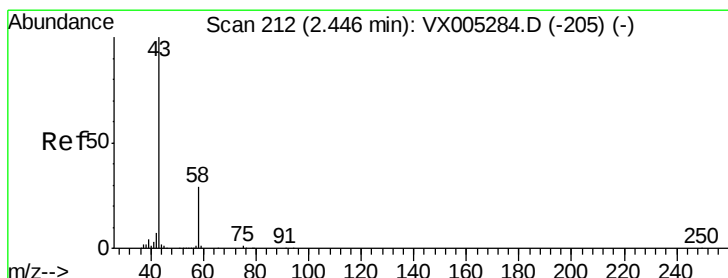
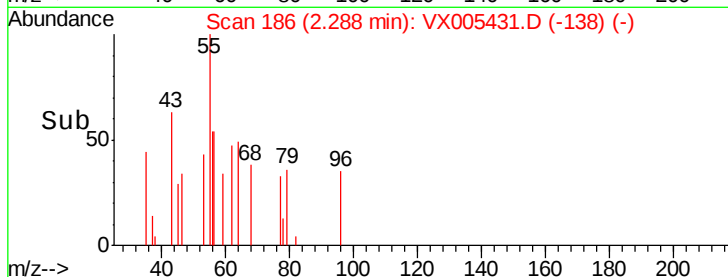
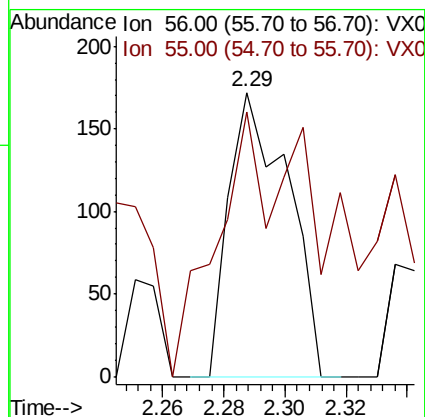
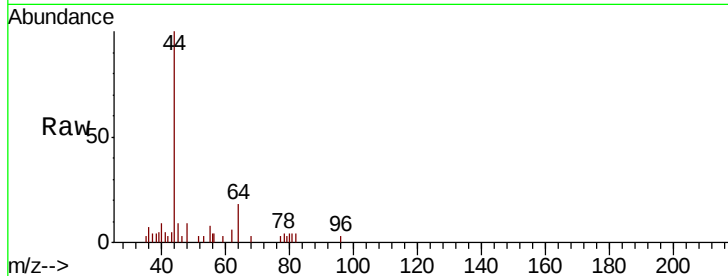
MH-6

Tot Ion: 56 Resp: 229

Ion Ratio Lower Upper

56 100

55 157.6 54.7 82.1#



#16

Acetone

Concen: 6.532 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005431.D

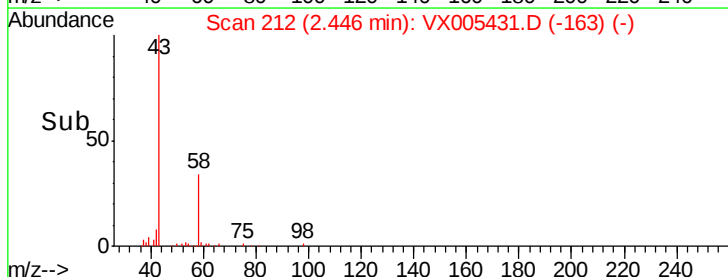
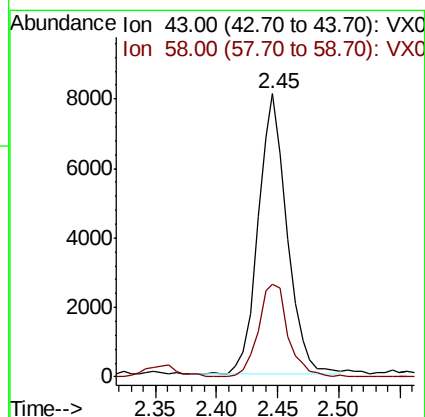
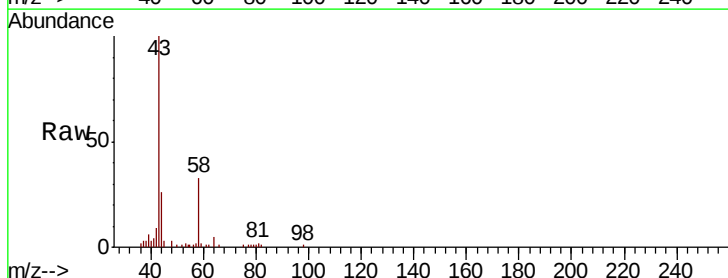
Acq: 18 Oct 2018 15:43

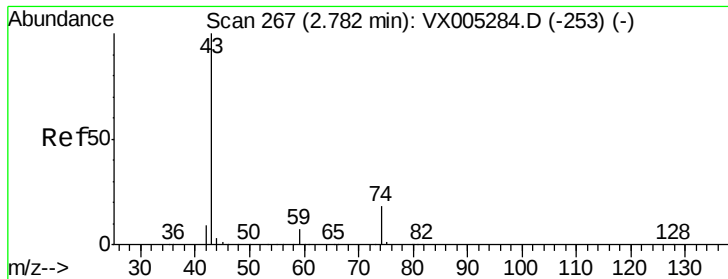
Tgt Ion: 43 Resp: 13328

Ion Ratio Lower Upper

43 100

58 32.3 26.2 39.4





#18

Methvl Acetate

Concen: 2.897 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.16 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Instrument :

MSVOA_X

ClientSampled :

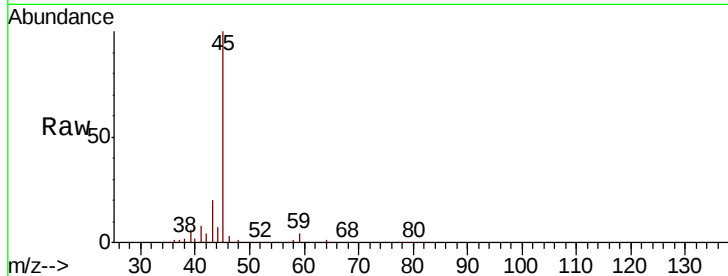
MH-6

Tot Ion: 43 Resp: 16818

Ion Ratio Lower Upper

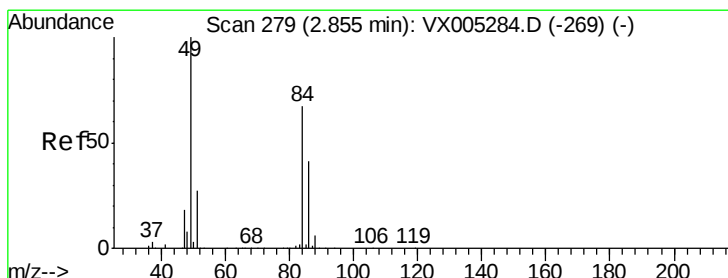
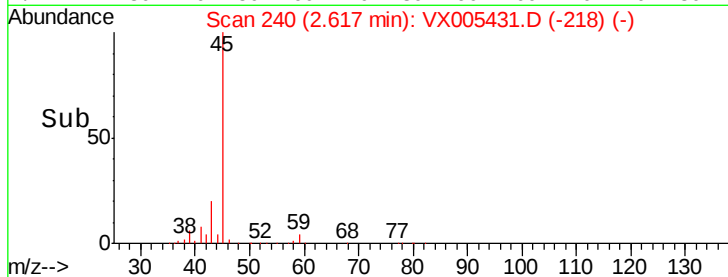
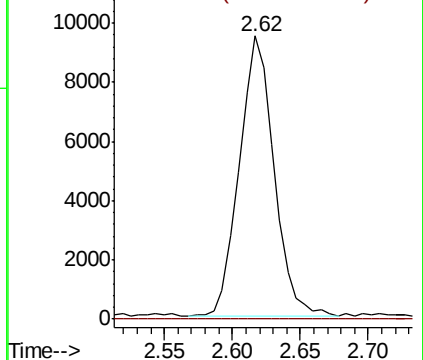
43 100

74 0.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Tgt Ion: 84 Resp: 371

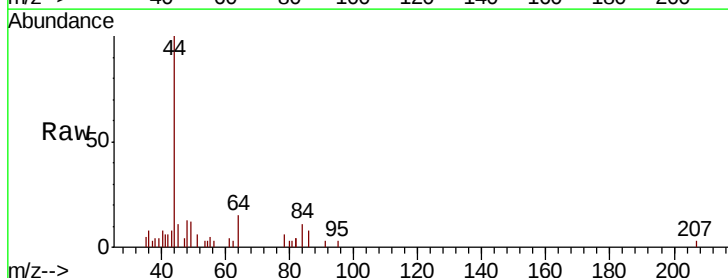
Ion Ratio Lower Upper

84 100

49 114.6 101.2 151.8

51 9.6 29.5 44.3#

86 71.7 52.3 78.5

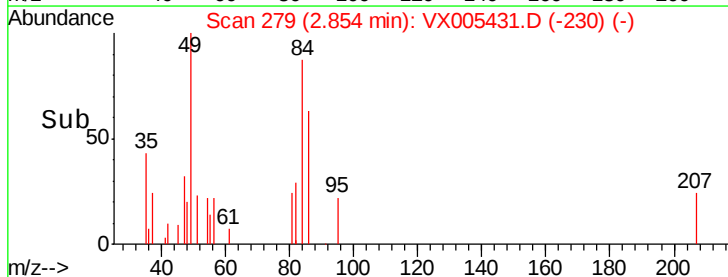
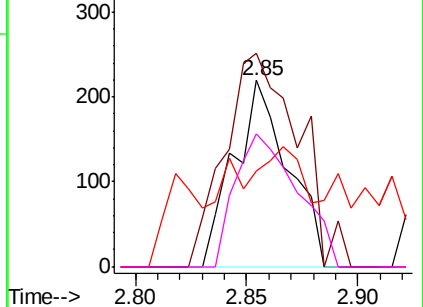


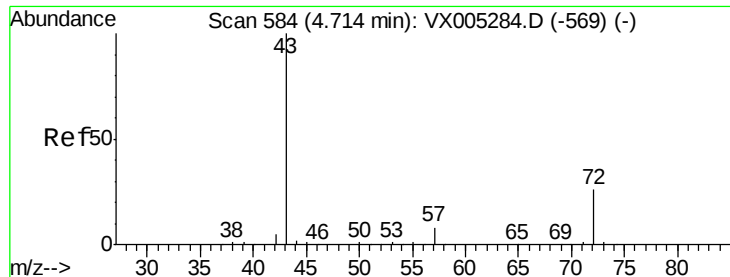
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.713 ug/l

RT: 4.71 min Scan# 584

Delta R.T. -0.00 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Instrument :

MSVOA_X

ClientSampled :

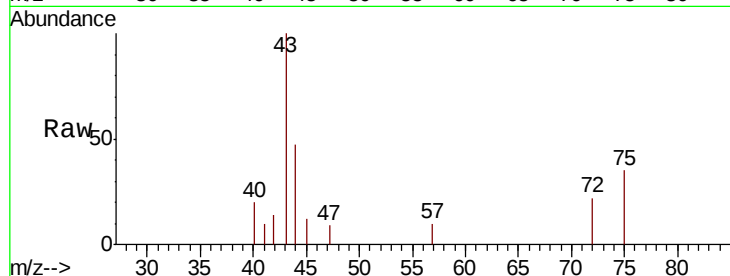
MH-6

Tot Ion: 43 Resp: 2130

Ion Ratio Lower Upper

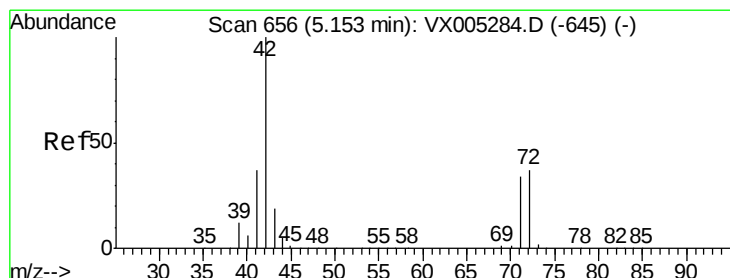
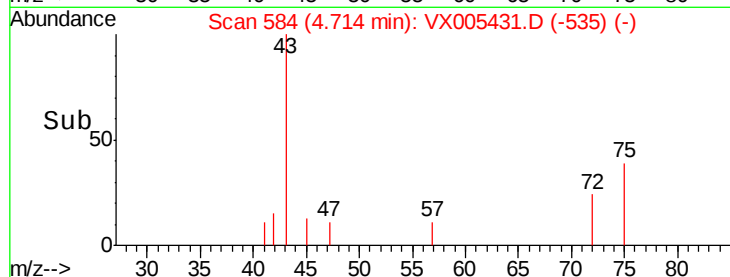
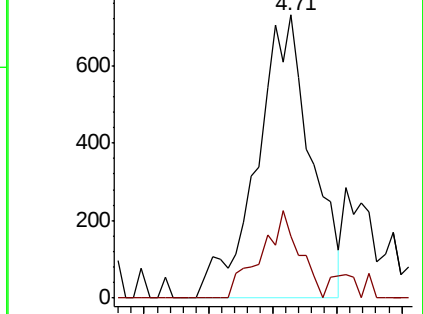
43 100

72 21.8 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 2.238 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

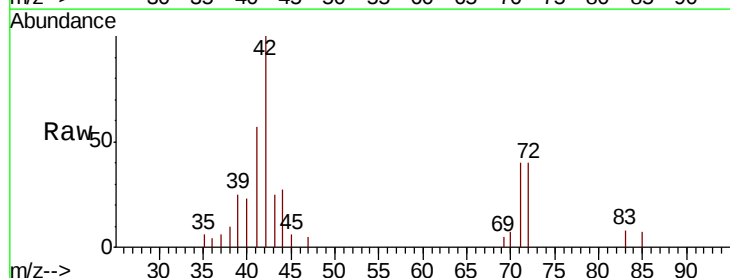
Tgt Ion: 42 Resp: 4262

Ion Ratio Lower Upper

42 100

72 42.3 37.4 56.0

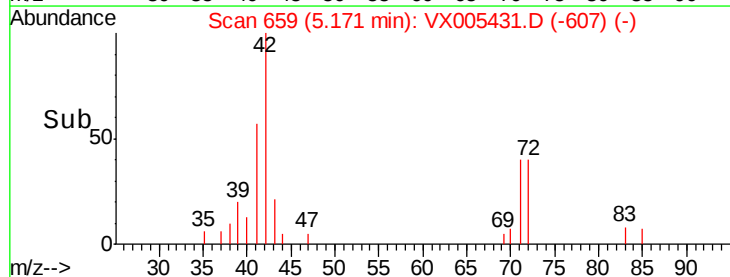
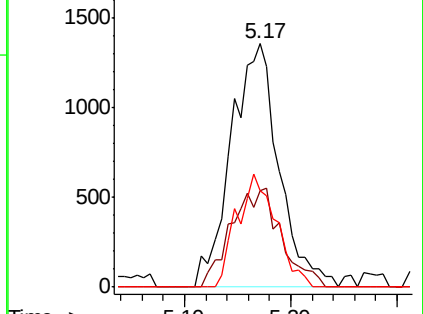
71 38.3 34.5 51.7

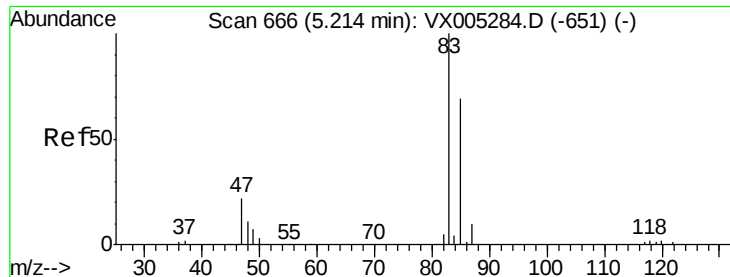


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

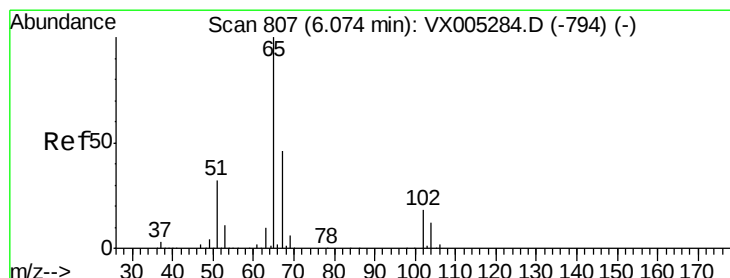
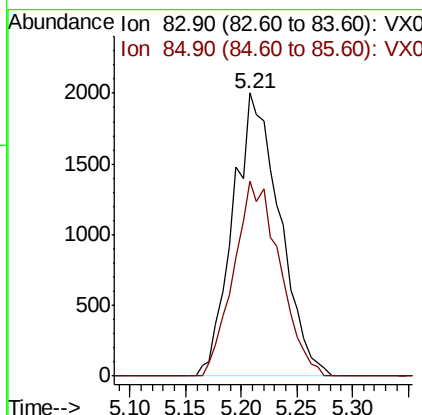
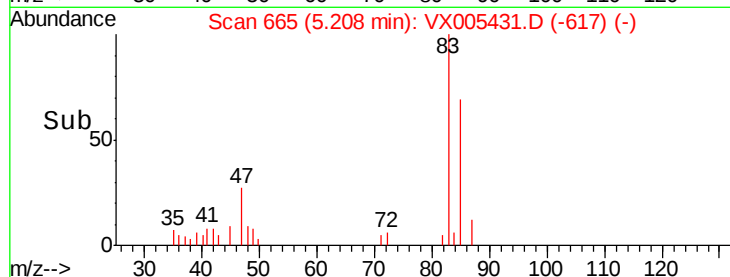
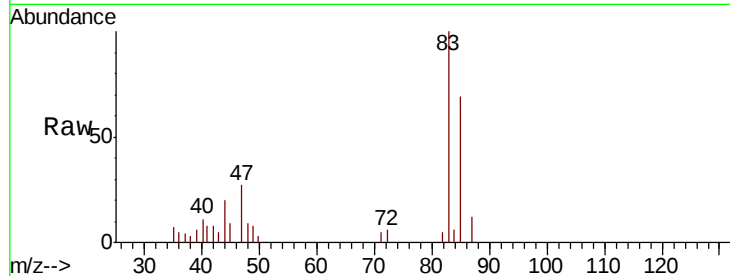




#30
 Chloroform
 Concen: 1.070 ug/l
 RT: 5.21 min Scan# 665
 Delta R.T. -0.01 min
 Lab File: VX005431.D
 Acq: 18 Oct 2018 15:43

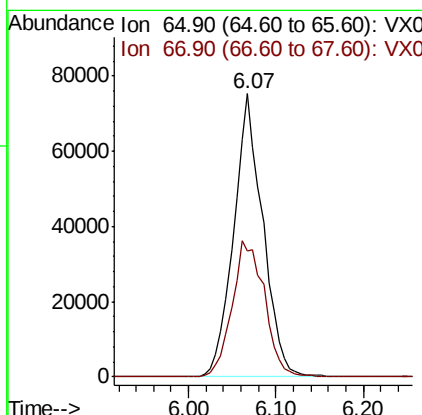
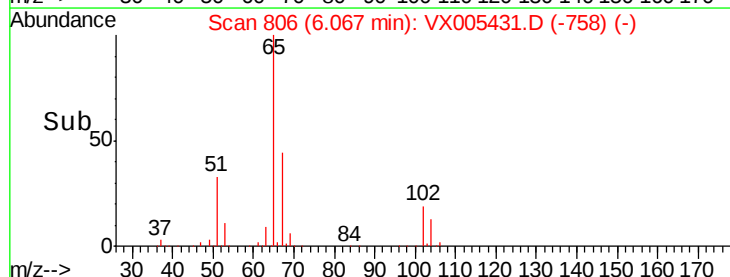
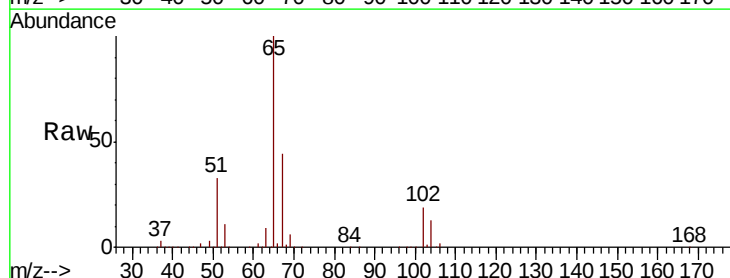
Instrument :
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 MH-6

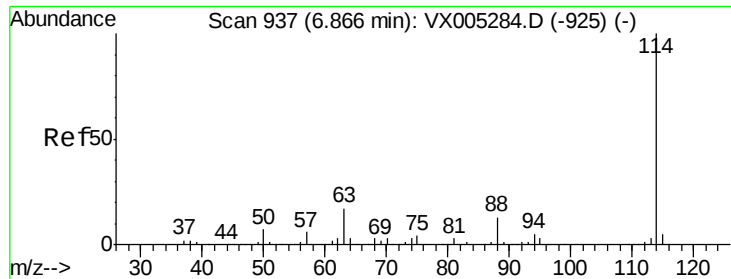
Tot Ion: 83 Resp: 5844
 Ion Ratio Lower Upper
 83 100
 85 68.9 52.6 79.0



#33
 1,2-Dichloroethane-d4
 Concen: 49.694 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005431.D
 Acq: 18 Oct 2018 15:43

Tgt Ion: 65 Resp: 175380
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.8

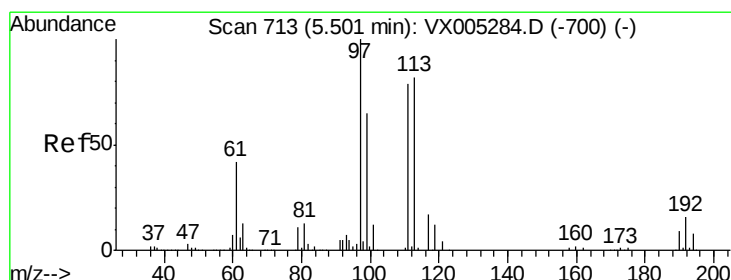
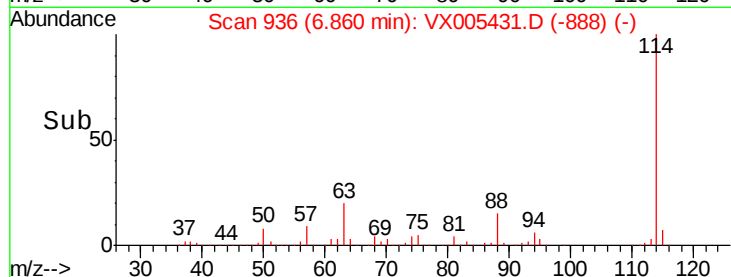
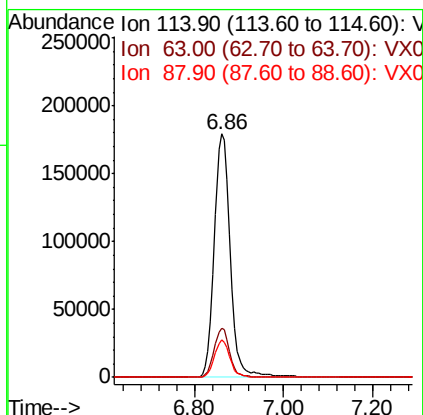
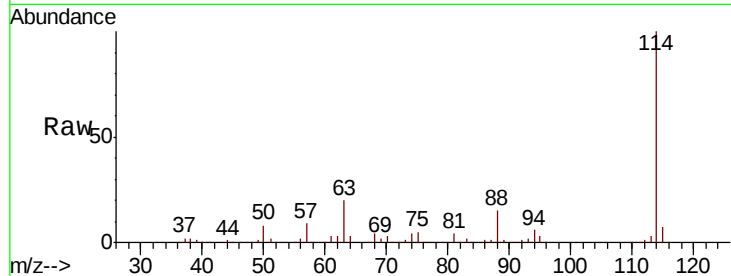




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005431.D
 Acq: 18 Oct 2018 15:43

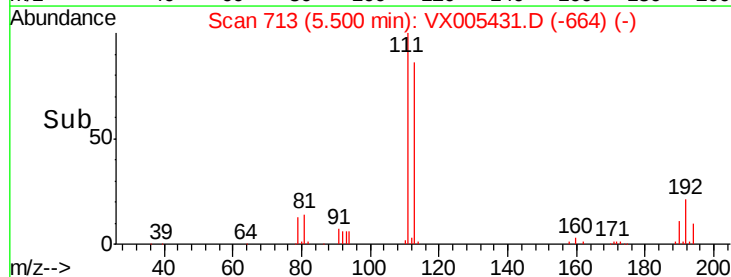
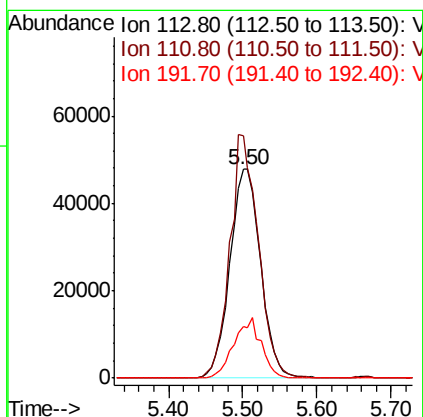
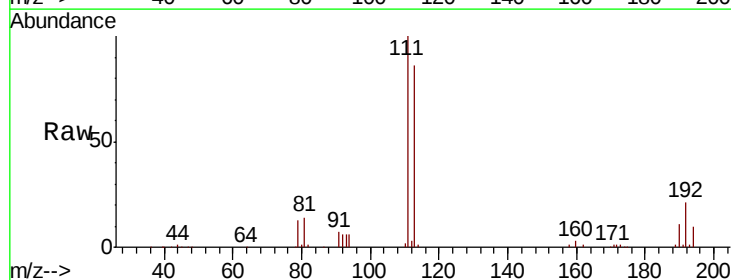
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-6

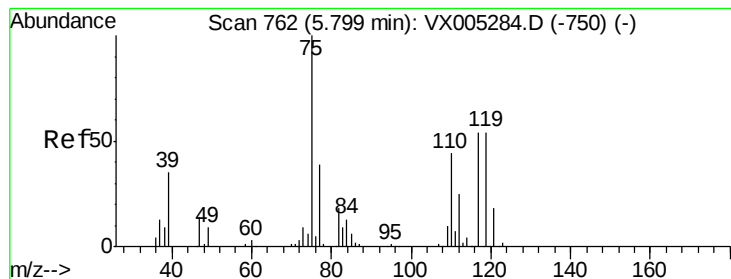
Tot Ion:114 Resp: 448625
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.0
 88 15.5 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 46.600 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005431.D
 Acq: 18 Oct 2018 15:43

Tgt Ion:113 Resp: 138464
 Ion Ratio Lower Upper
 113 100
 111 107.7 82.4 123.6
 192 25.9 19.4 29.2





#36

1,1-Dichloropropene

Concen: 4.721 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

MH-6

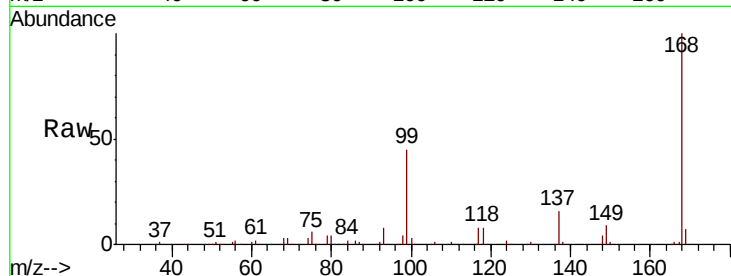
Tot Ion: 75 Resp: 20511

Ion Ratio Lower Upper

75 100

110 8.5 18.0 54.0#

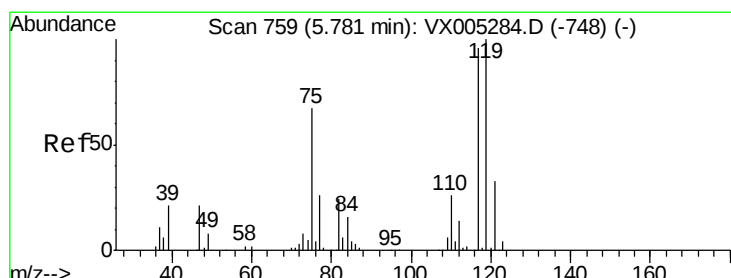
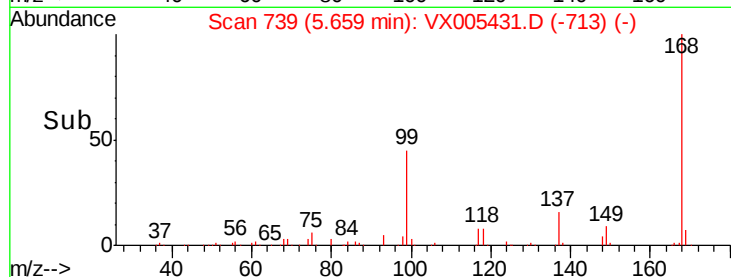
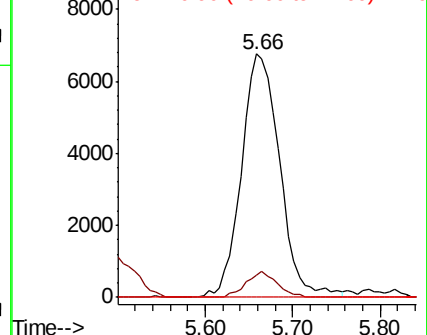
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.196 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

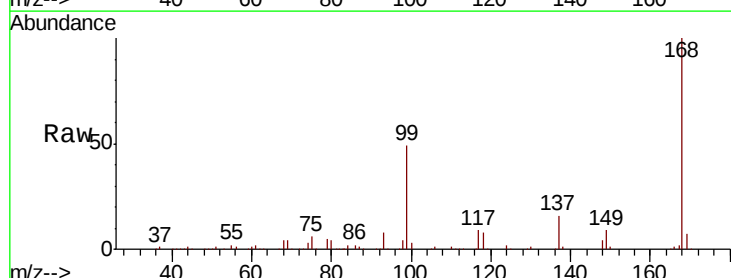
Tgt Ion:117 Resp: 27048

Ion Ratio Lower Upper

117 100

119 4.7 78.8 118.2#

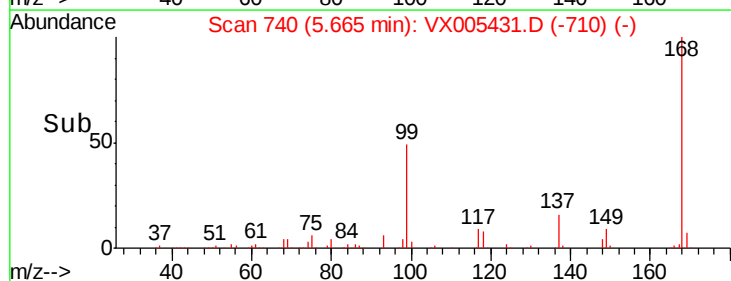
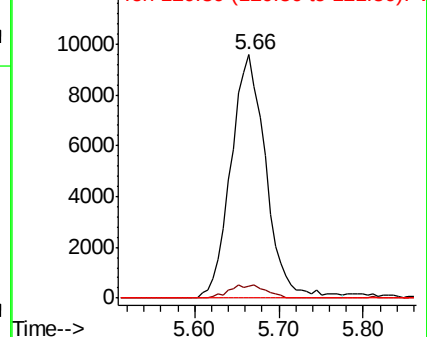
121 0.0 24.9 37.3#

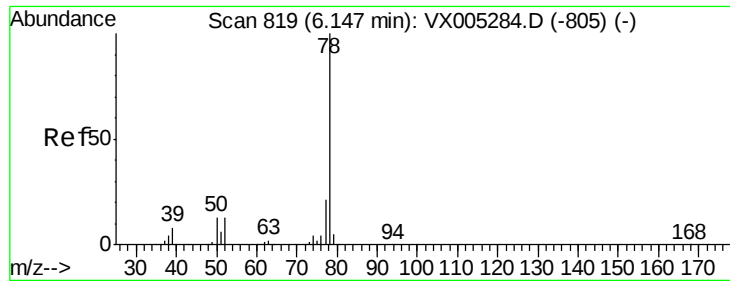


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.244 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.01 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Instrument :

MSVOA_X

ClientSampled :

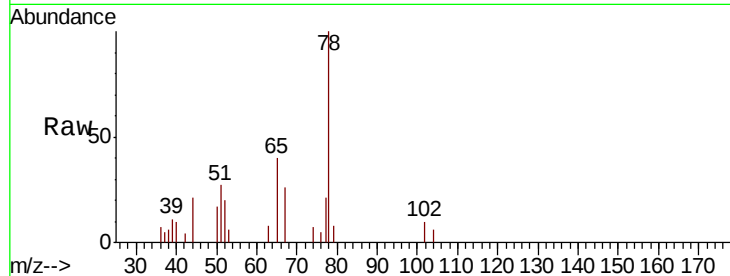
MH-6

Tot Ion: 78 Resp: 3185

Ion Ratio Lower Upper

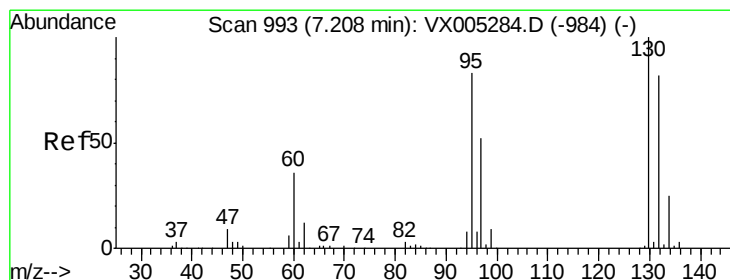
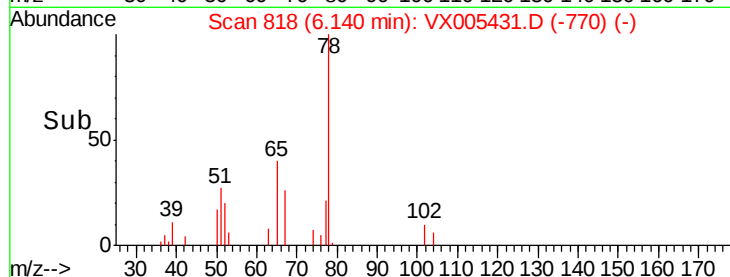
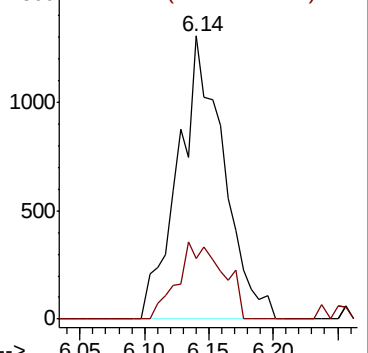
78 100

77 21.2 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005431.D

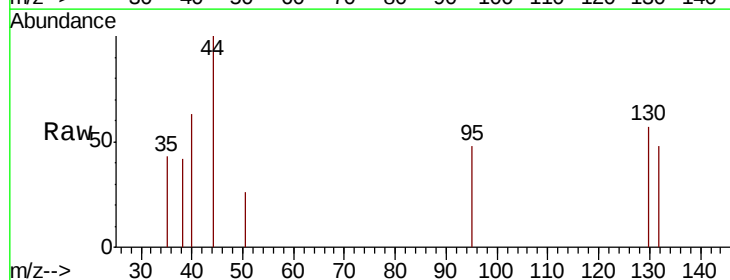
Acq: 18 Oct 2018 15:43

Tgt Ion:130 Resp: 162

Ion Ratio Lower Upper

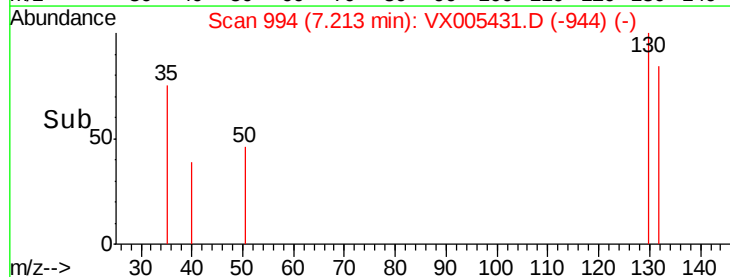
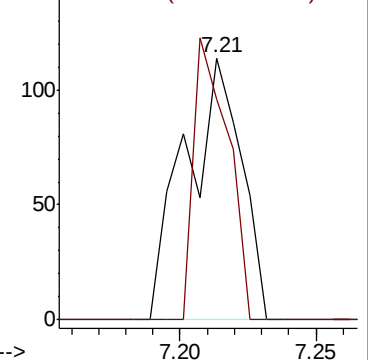
130 100

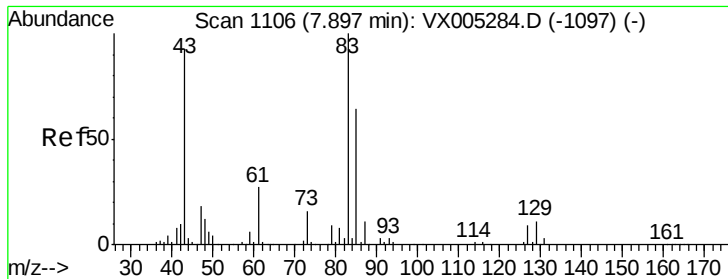
95 84.2 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#47

Bromodichloromethane

Concen: 0.351 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Instrument :

MSVOA_X

ClientSampled :

MH-6

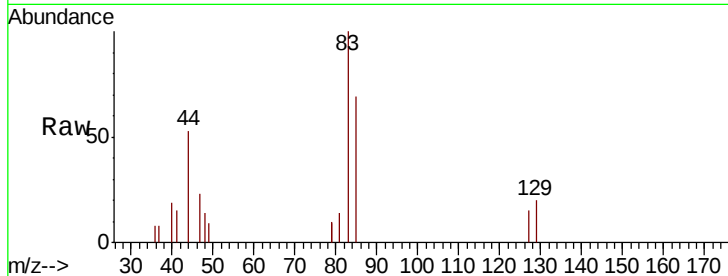
Tot Ion: 83 Resp: 1371

Ion Ratio Lower Upper

83 100

85 68.6 50.9 76.3

127 15.0 7.3 10.9#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

7.90

600

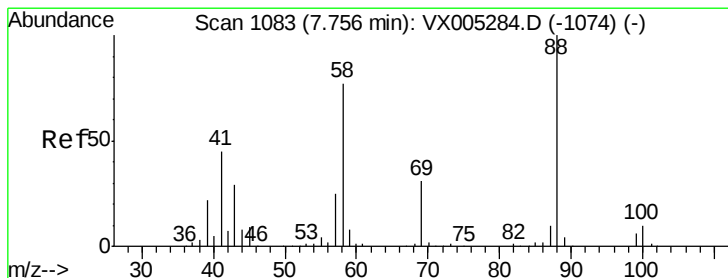
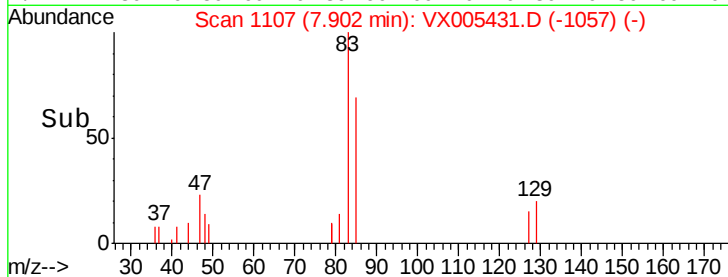
400

200

0

7.85 7.90 7.95

Time-->



#49

1,4-Dioxane

Concen: 0.663 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

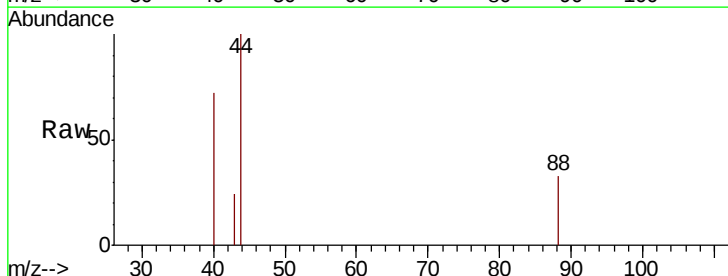
Tgt Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 261.0 24.7 37.1#

58 32.2 55.3 82.9#



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

150

100

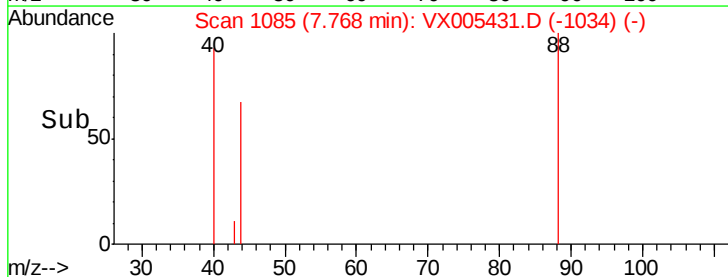
7.77

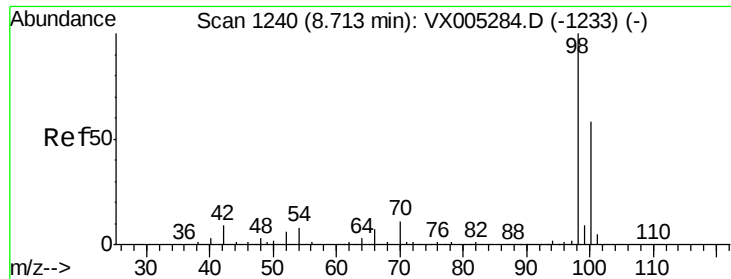
50

0

7.74 7.76 7.78

Time-->





#50

Toluene-d8

Concen: 51.448 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

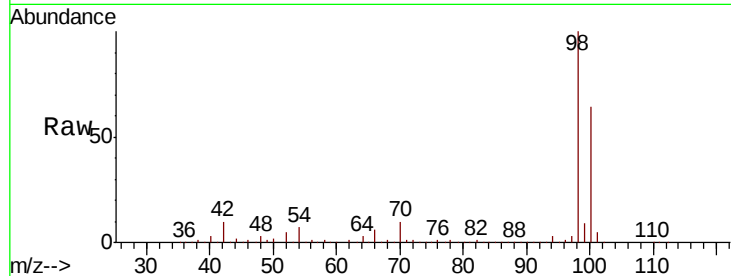
MH-6

Tot Ion: 98 Resp: 524817

Ion Ratio Lower Upper

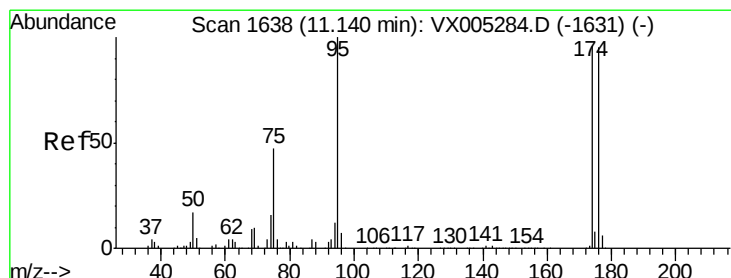
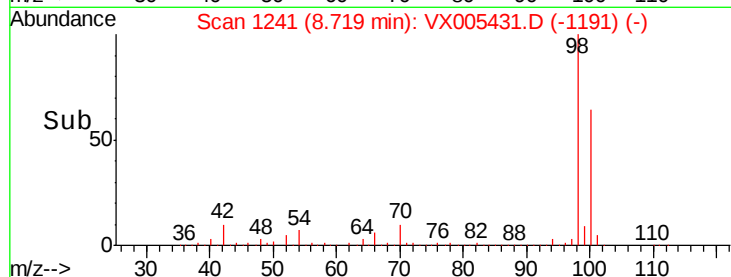
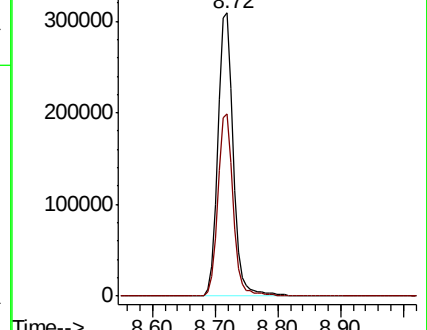
98 100

100 64.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 45.616 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

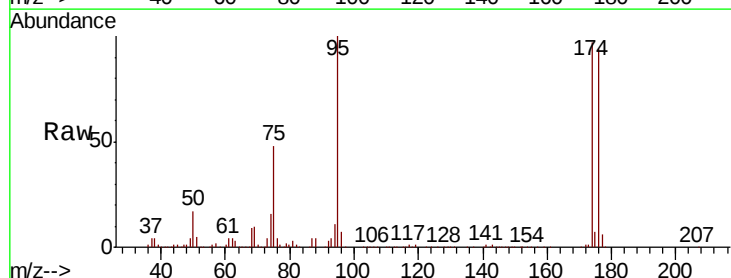
Tgt Ion: 95 Resp: 174804

Ion Ratio Lower Upper

95 100

174 94.8 0.0 185.2

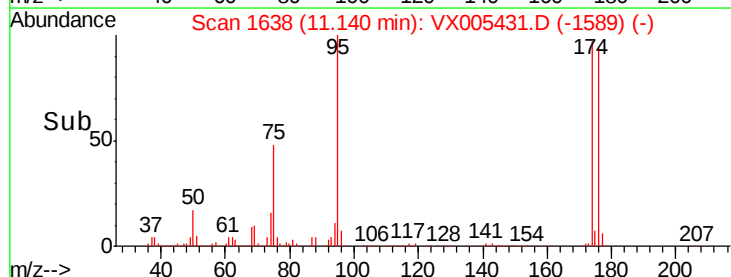
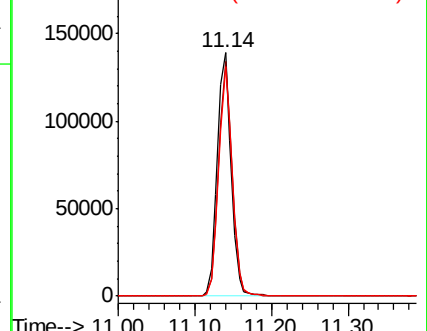
176 92.5 0.0 178.6

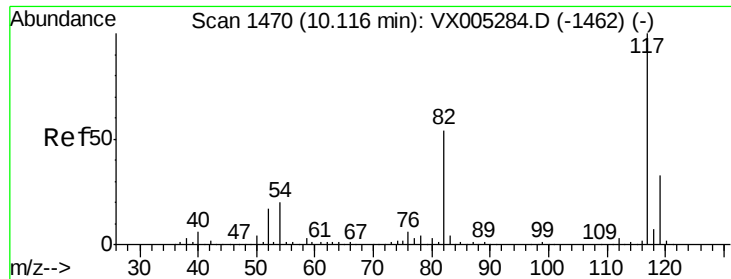


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

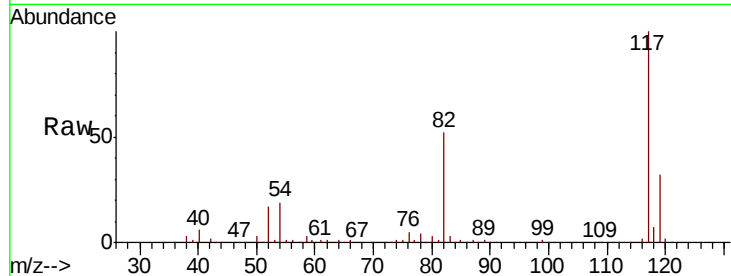




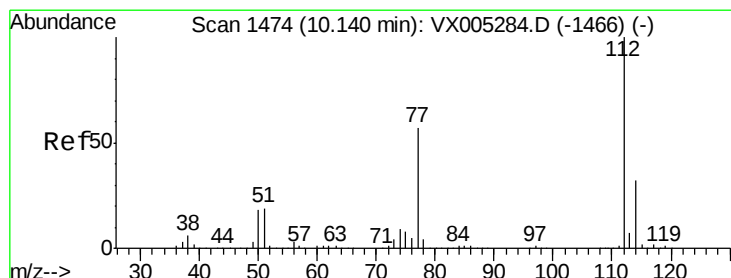
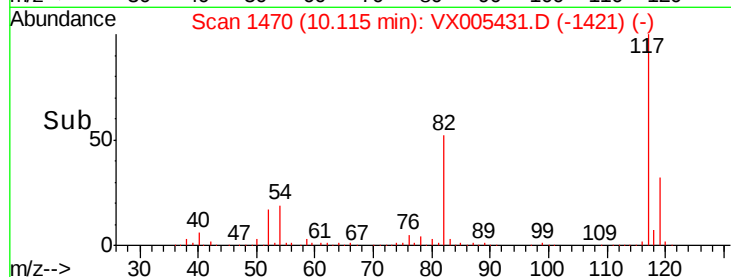
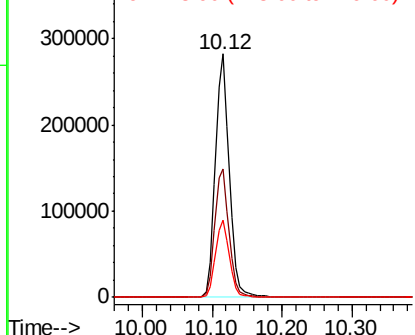
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005431.D
Acq: 18 Oct 2018 15:43

Instrument :
MSVOA_X
ClientSampleId :
MH-6

Tot Ion:117 Resp: 391311
Ion Ratio Lower Upper
117 100
82 52.5 47.8 71.6
119 31.8 29.3 43.9

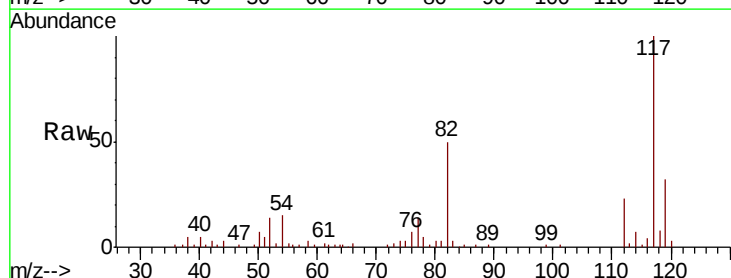


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

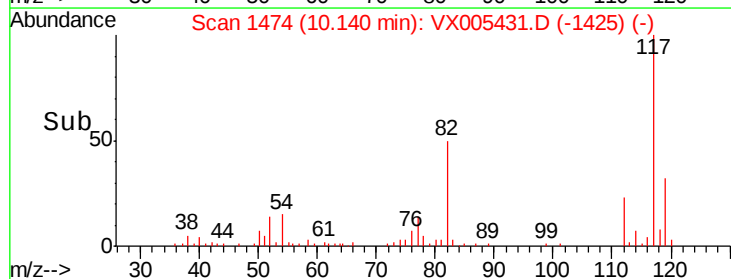
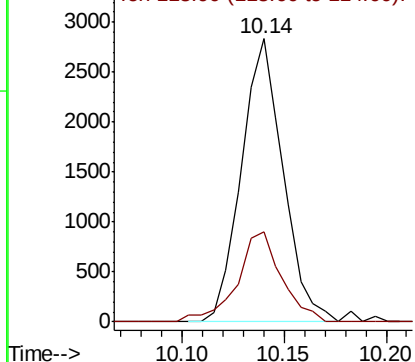


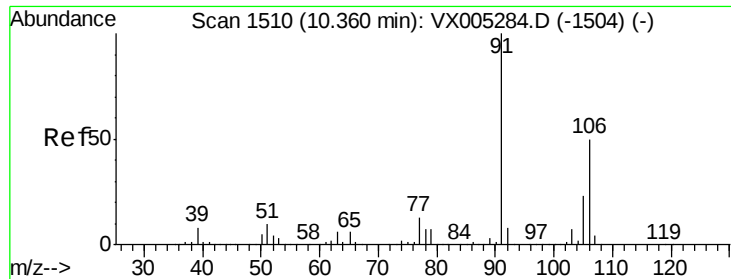
#65
Chlorobenzene
Concen: 0.483 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX005431.D
Acq: 18 Oct 2018 15:43

Tgt Ion:112 Resp: 4022
Ion Ratio Lower Upper
112 100
114 31.7 27.8 41.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

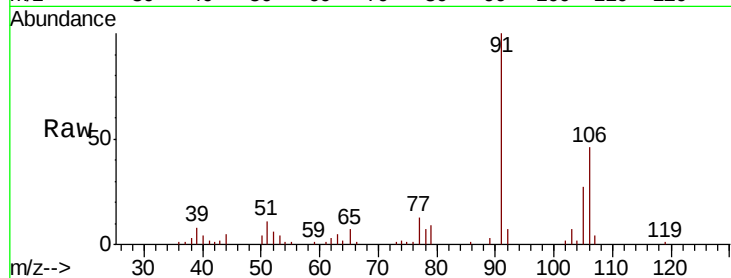




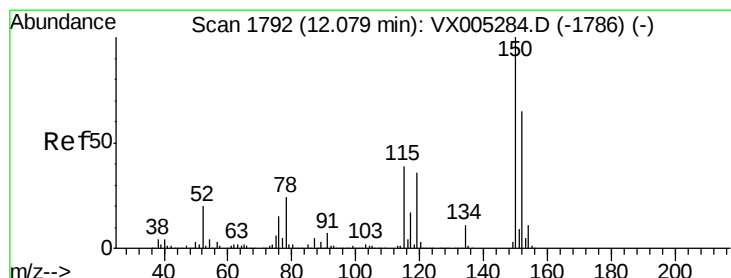
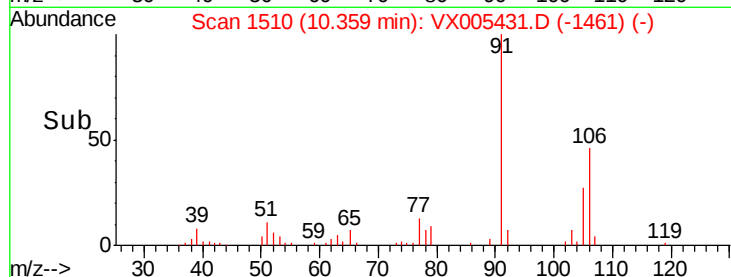
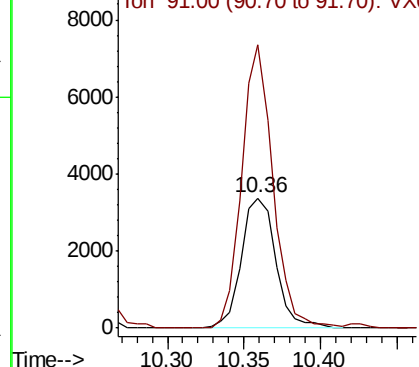
#68
m/p-Xvlenes
Concen: 1.009 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX005431.D
Acq: 18 Oct 2018 15:43

Instrument :
MSVOA_X
ClientSampled :
MH-6

Tot Ion:106 Resp: 5300
Ion Ratio Lower Upper
106 100
91 196.0 157.1 235.7

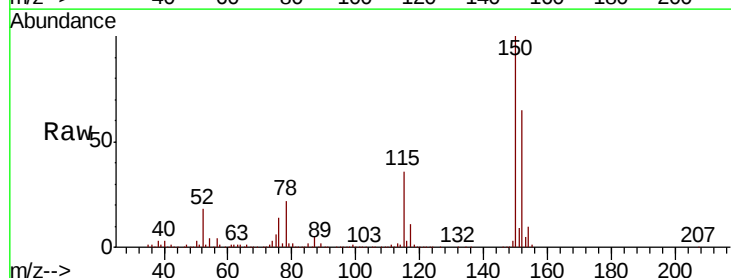


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

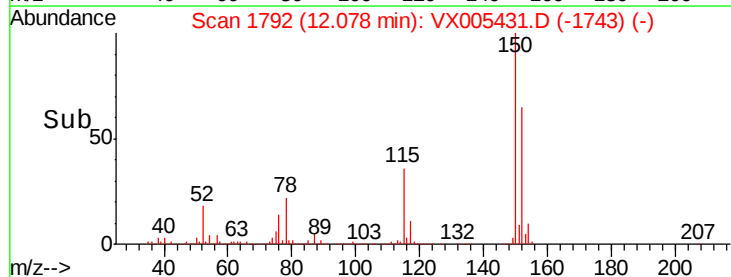
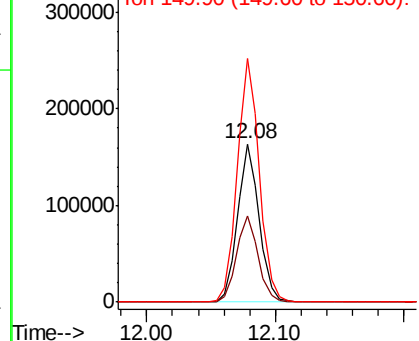


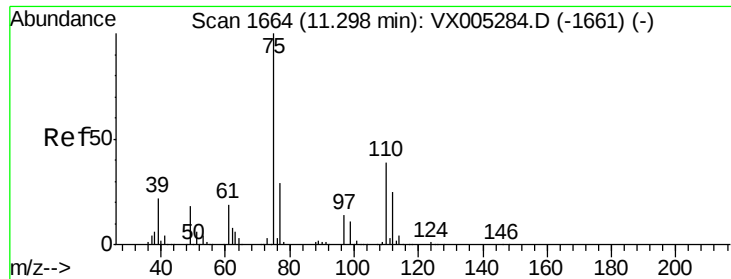
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005431.D
Acq: 18 Oct 2018 15:43

Tgt Ion:152 Resp: 190944
Ion Ratio Lower Upper
152 100
115 55.0 39.0 117.0
150 157.4 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.409 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

Instrument :

MSVOA_X

ClientSampleId :

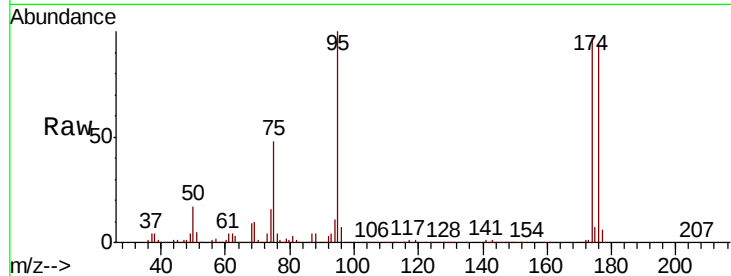
MH-6

Tot Ion: 75 Resp: 82999

Ion Ratio Lower Upper

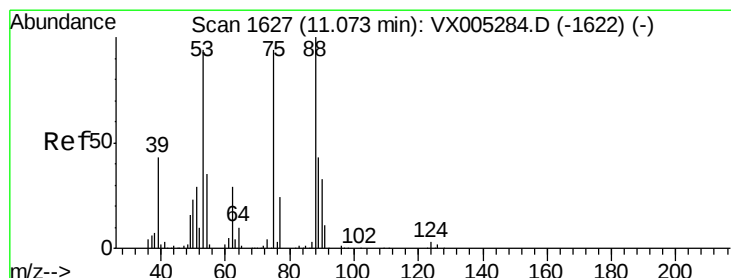
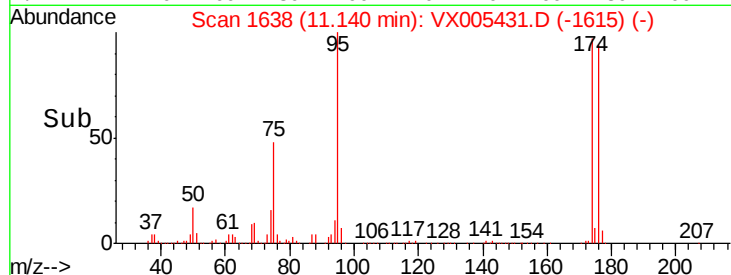
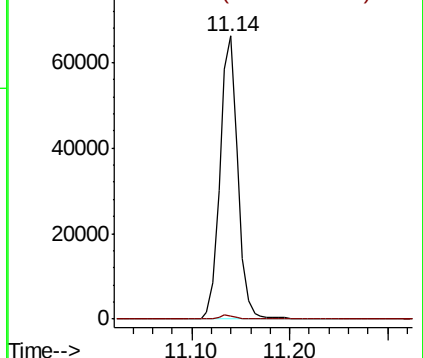
75 100

77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 68.090 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005431.D

Acq: 18 Oct 2018 15:43

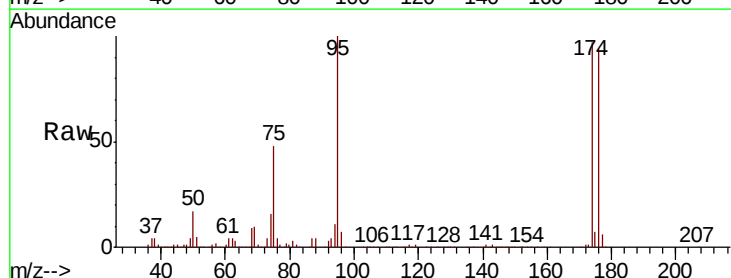
Tgt Ion: 75 Resp: 82999

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

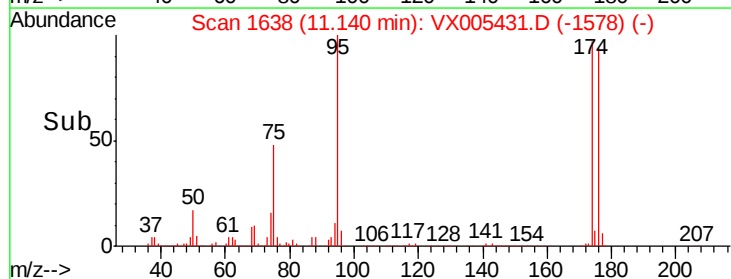
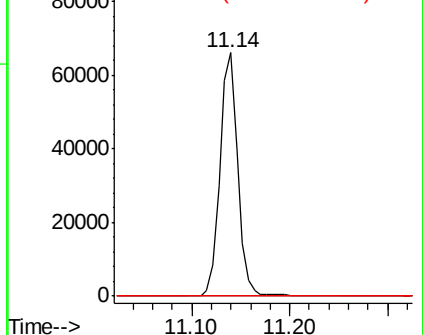
89 0.0 37.2 55.8#

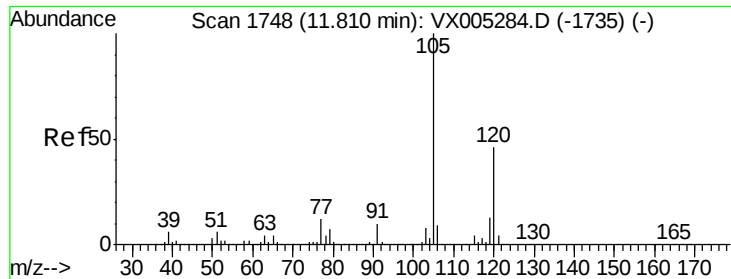


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84
 1,2,4-Trimethylbenzene
 Concen: 0.378 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.01 min
 Lab File: VX005431.D
 Acq: 18 Oct 2018 15:43

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-6

Tot Ion:105 Resp: 3784
 Ion Ratio Lower Upper
 105 100
 120 41.0 23.2 69.6

