

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\
 Data File : VX006627.D
 Acq On : 19 Dec 2018 05:11
 Operator : JC/MD
 Sample : J6449-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-16C_R1

Quant Time: Dec 19 06:08:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:23:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	625133	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1001283	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	919262	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	431896	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	350893	52.08	ug/l	0.00
Spiked Amount			Recovery	=	104.16%	
35) Dibromofluoromethane	5.51	113	296116	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	
50) Toluene-d8	8.71	98	1184322	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
62) 4-Bromofluorobenzene	11.13	95	429906	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	

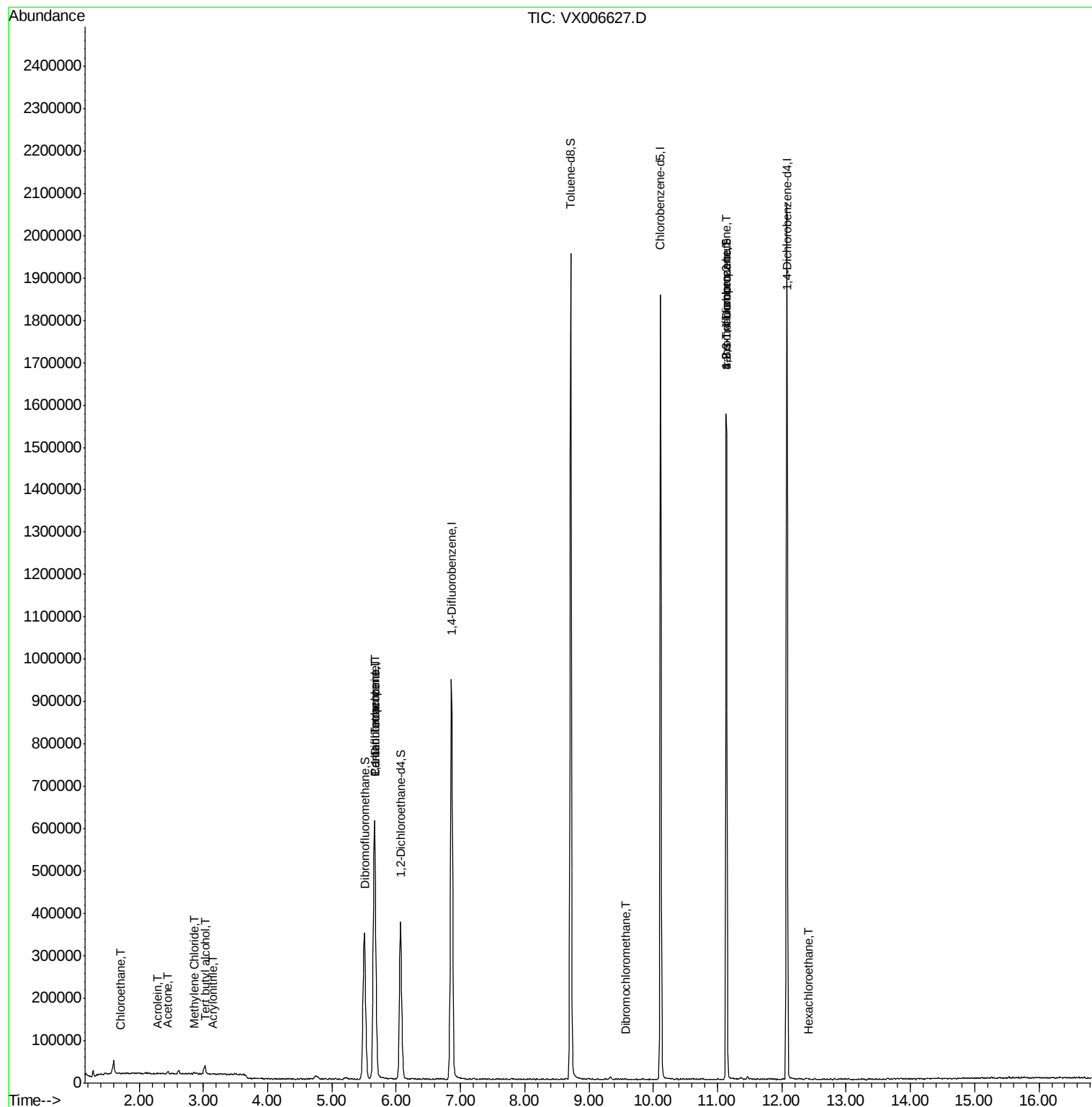
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	858	Below Cal	#	16
6) Chloroethane	1.71	64	1005	0.226	ug/l	89
11) Tert butyl alcohol	3.03	59	12211	8.121	ug/l #	80
13) Acrolein	2.29	56	357	0.352	ug/l #	46
15) Acrylonitrile	3.15	53	1184	0.355	ug/l #	33
16) Acetone	2.44	43	6133	1.981	ug/l	90
20) Methylene Chloride	2.86	84	1587	0.248	ug/l #	76
28) Bromochloromethane	5.04	49	471	Below Cal	#	3
36) 1,1-Dichloropropene	5.67	75	41720	5.031	ug/l #	48
38) Carbon Tetrachloride	5.66	117	58753	7.290	ug/l #	16
49) 1,4-Dioxane	7.74	88	169	Below Cal	#	1
60) Dibromochloromethane	9.57	129	56	2.332	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	198755	26.257	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	198755	73.213	ug/l #	15
90) Hexachloroethane	12.43	117	58	3.306	ug/l	62

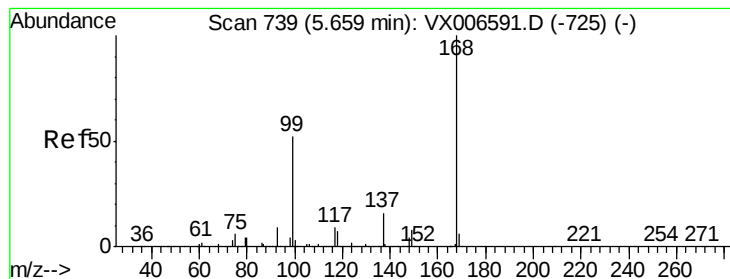
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:23:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

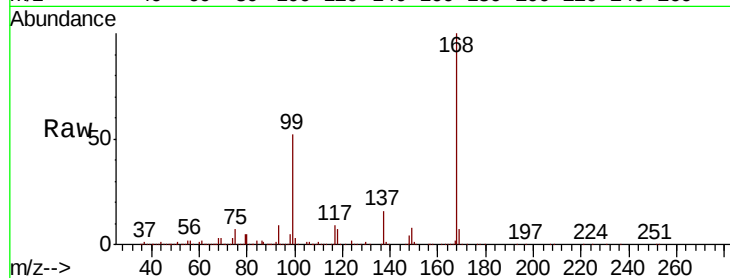
MW-16C_R1

Tot Ion:168 Resp: 625133

Ion Ratio Lower Upper

168 100

99 52.5 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): VX006627.D

Ion 98.90 (98.60 to 99.60): VX006627.D

5.67

250000

200000

150000

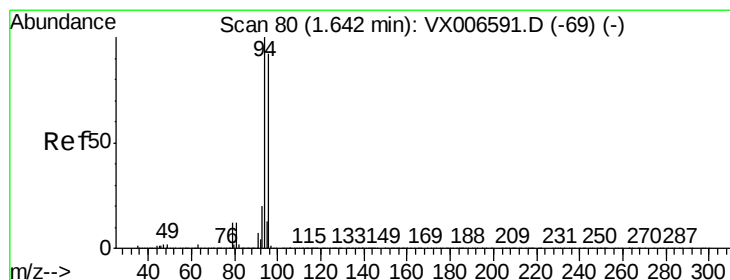
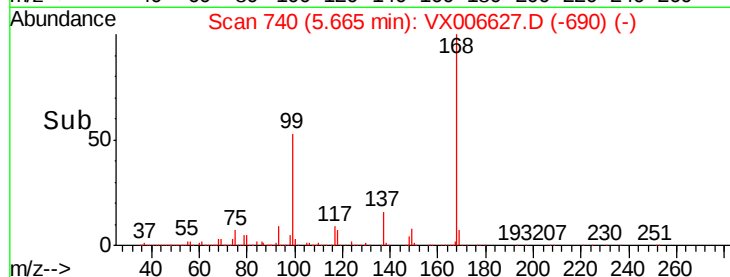
100000

50000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX006627.D

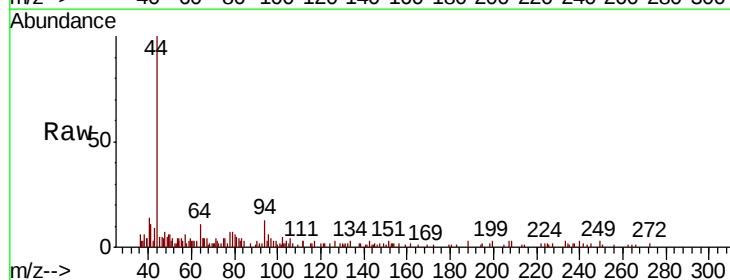
Acq: 19 Dec 2018 05:11

Tgt Ion: 94 Resp: 858

Ion Ratio Lower Upper

94 100

96 12.9 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX006627.D

Ion 95.90 (95.60 to 96.60): VX006627.D

1.65

600

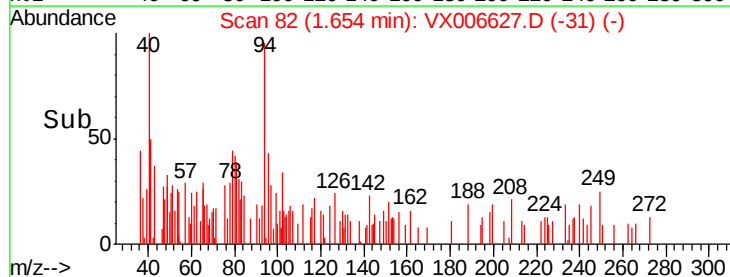
400

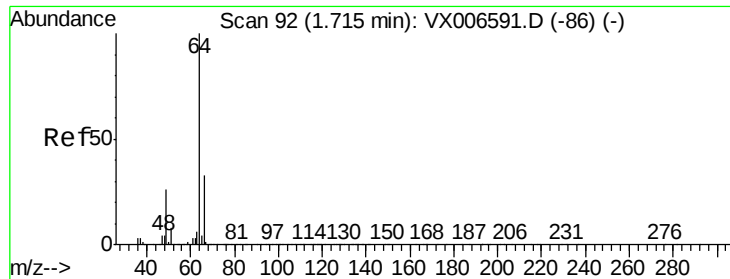
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.226 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.00 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

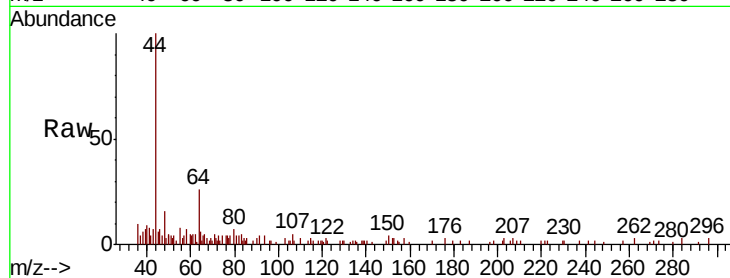
MW-16C_R1

Tot Ion: 64 Resp: 1005

Ion Ratio Lower Upper

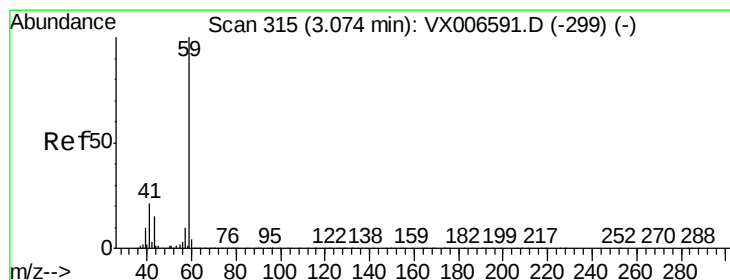
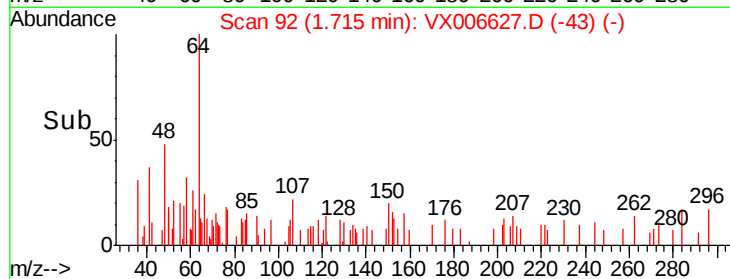
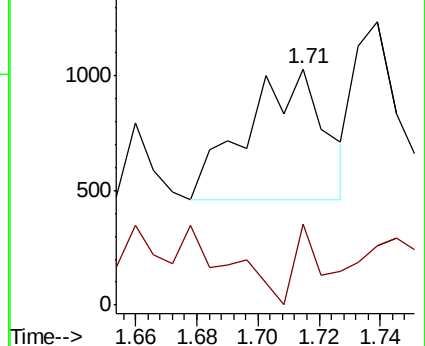
64 100

66 26.0 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 8.121 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006627.D

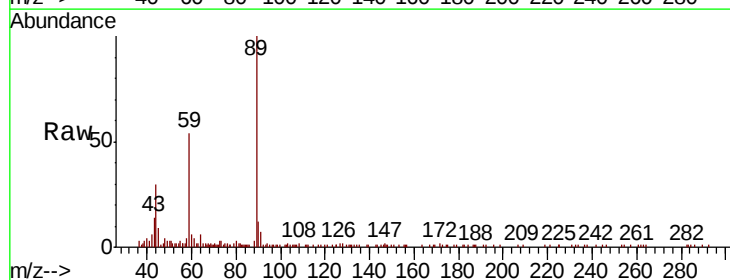
Acq: 19 Dec 2018 05:11

Tgt Ion: 59 Resp: 12211

Ion Ratio Lower Upper

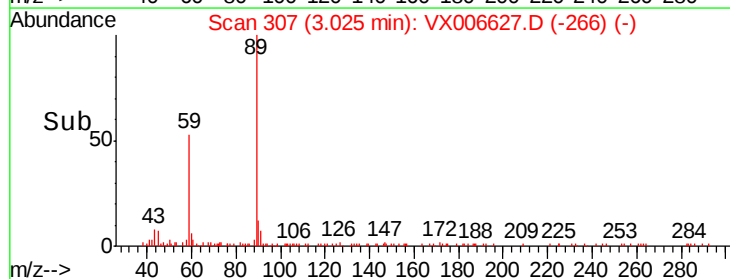
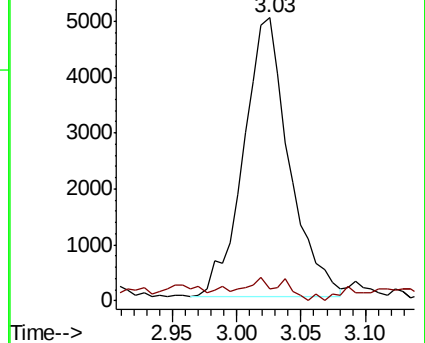
59 100

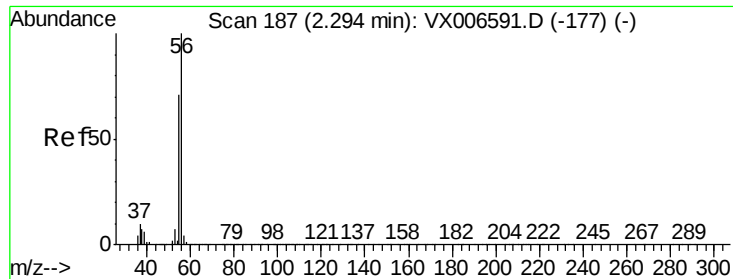
57 2.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.352 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

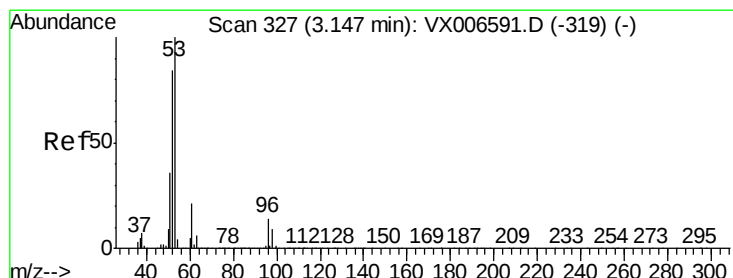
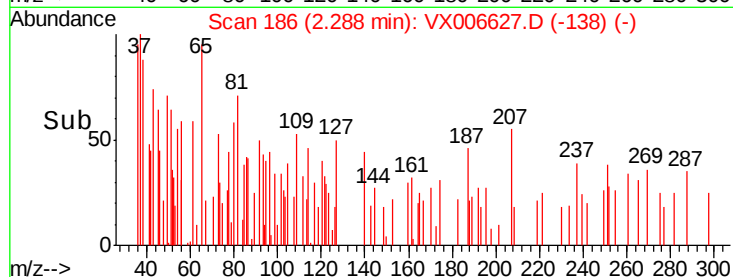
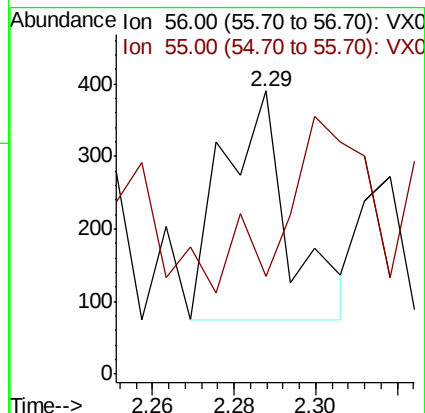
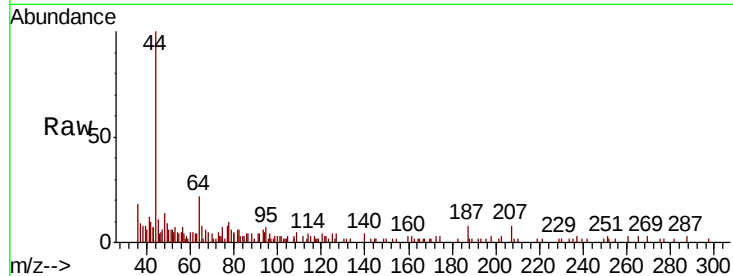
MW-16C_R1

Tot Ion: 56 Resp: 357

Ion Ratio Lower Upper

56 100

55 117.4 57.8 86.6#



#15

Acrylonitrile

Concen: 0.355 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

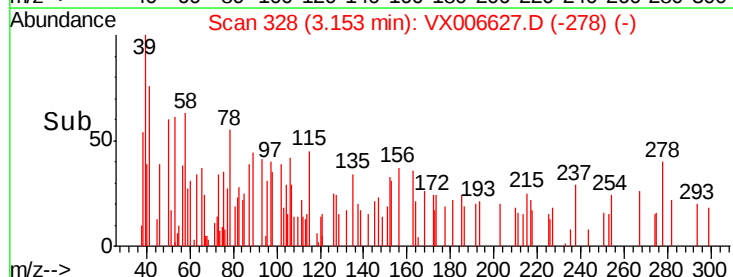
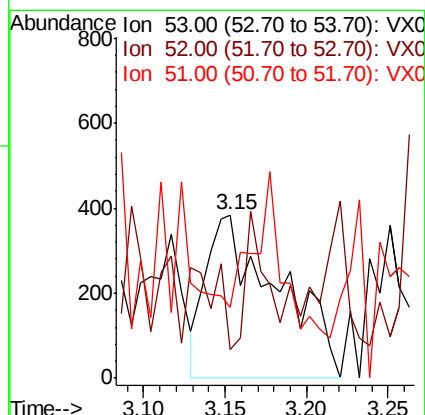
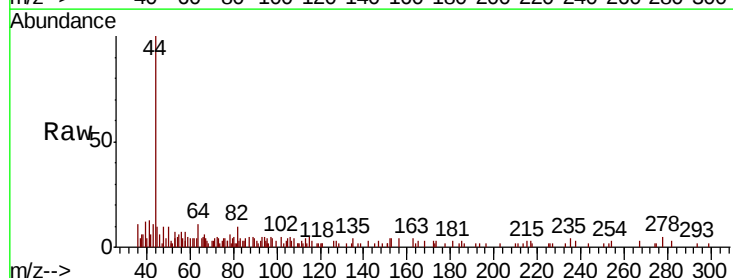
Tgt Ion: 53 Resp: 1184

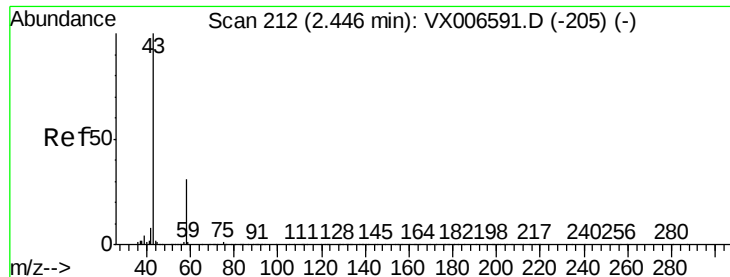
Ion Ratio Lower Upper

53 100

52 20.6 66.2 99.4#

51 0.0 28.7 43.1#





#16

Acetone

Concen: 1.981 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

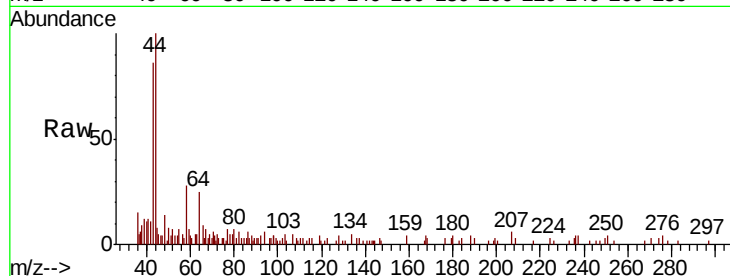
MW-16C_R1

Tot Ion: 43 Resp: 6133

Ion Ratio Lower Upper

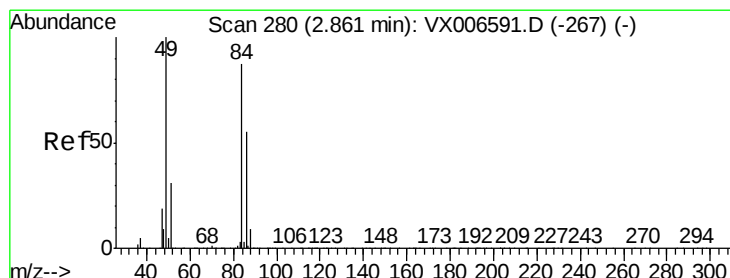
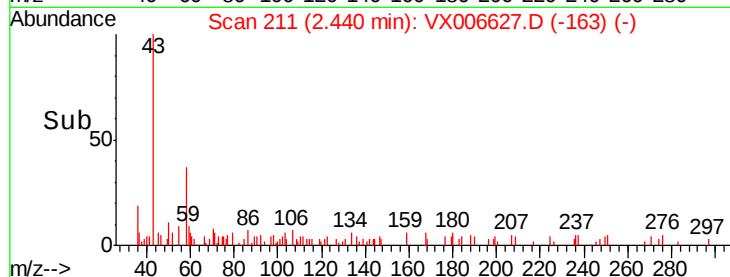
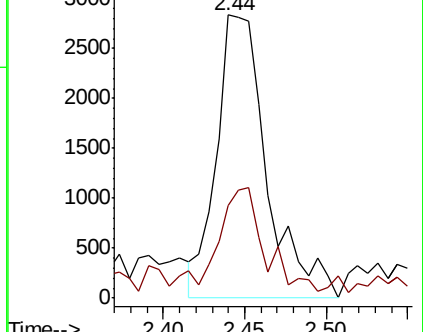
43 100

58 24.8 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.248 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Tgt Ion: 84 Resp: 1587

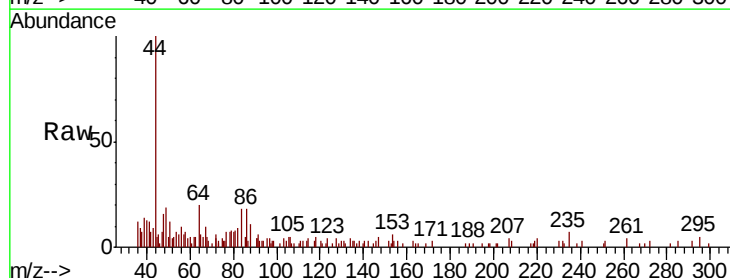
Ion Ratio Lower Upper

84 100

49 105.6 102.2 153.4

51 46.9 31.1 46.7#

86 98.1 53.7 80.5#

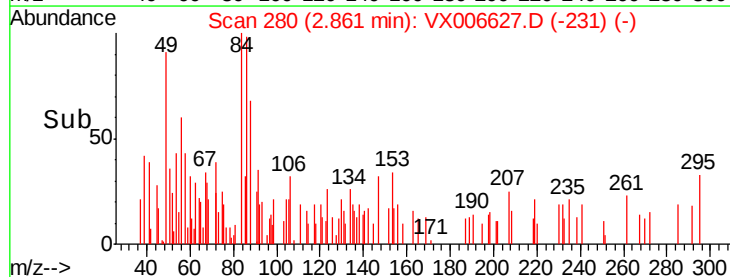
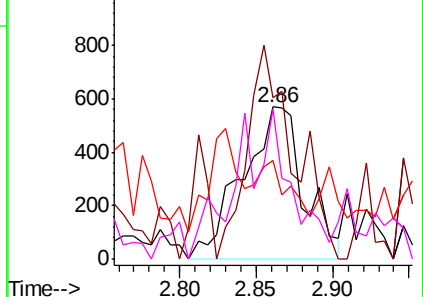


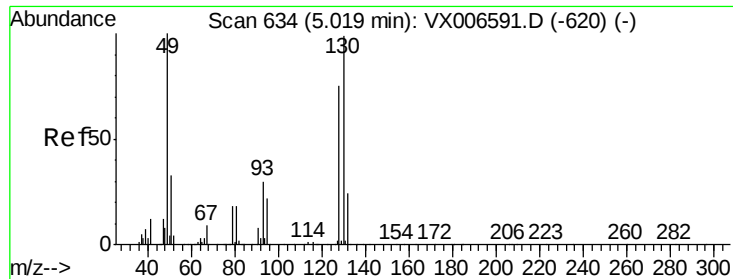
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

Delta R.T. 0.02 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Instrument :

MSVOA_X

ClientSampled :

MW-16C_R1

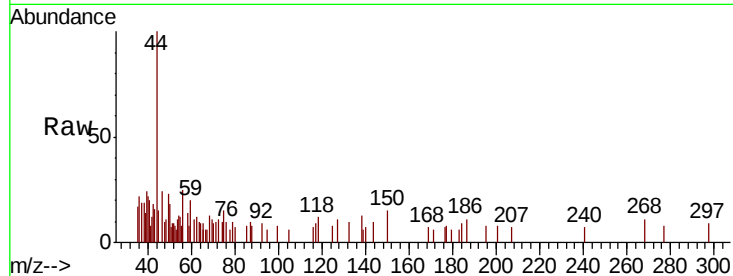
Tot Ion: 49 Resp: 471

Ion Ratio Lower Upper

49 100

129 6.8 0.0 5.0#

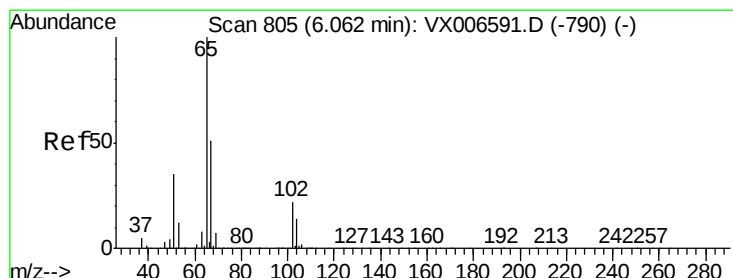
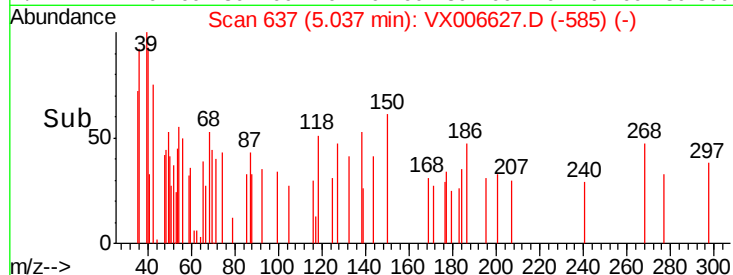
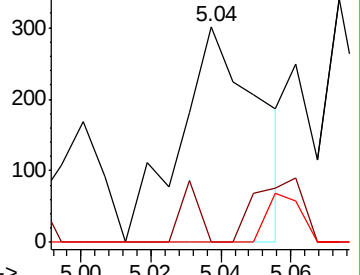
130 0.0 78.3 117.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 52.081 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006627.D

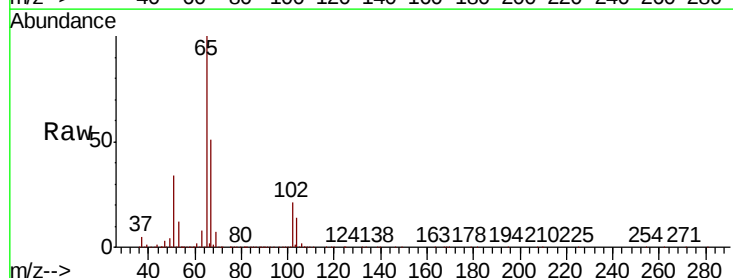
Acq: 19 Dec 2018 05:11

Tgt Ion: 65 Resp: 350893

Ion Ratio Lower Upper

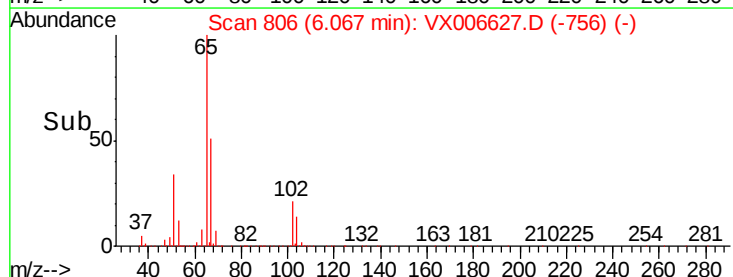
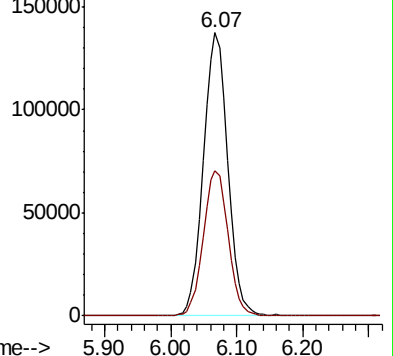
65 100

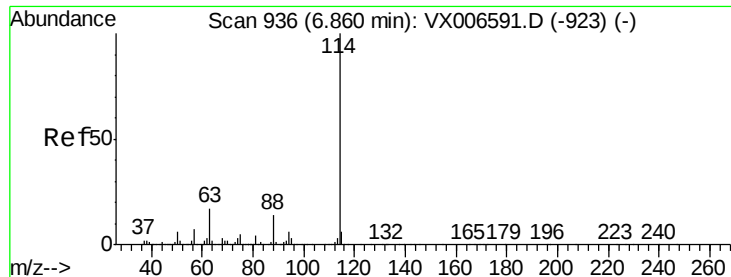
67 52.3 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

MW-16C_R1

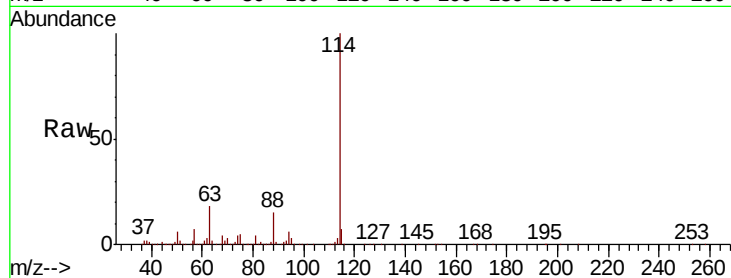
Tot Ion:114 Resp: 1001283

Ion Ratio Lower Upper

114 100

63 18.1 0.0 36.6

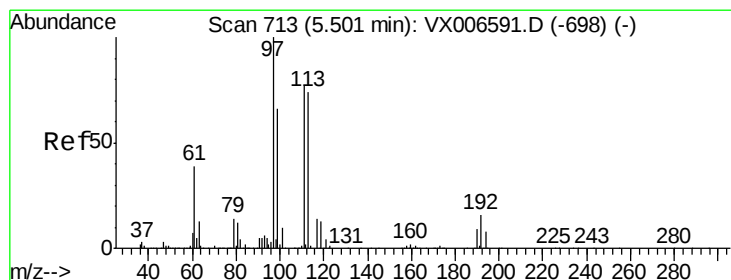
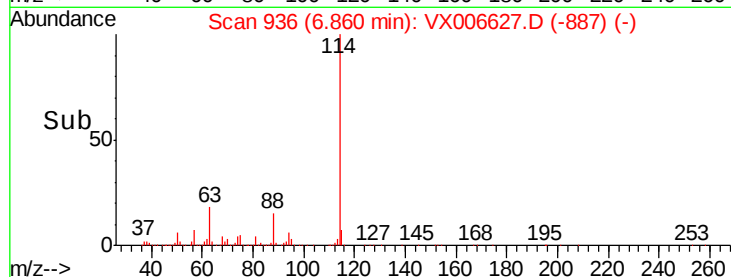
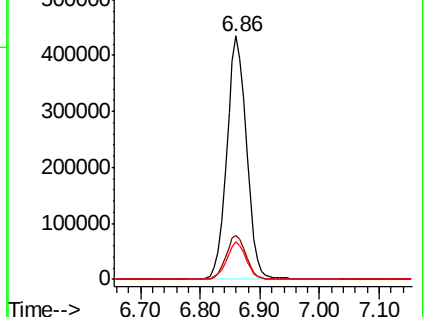
88 15.3 0.0 29.0



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: 46.766 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

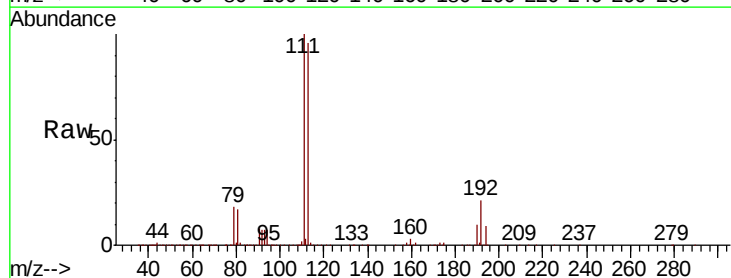
Tgt Ion:113 Resp: 296116

Ion Ratio Lower Upper

113 100

111 102.9 81.1 121.7

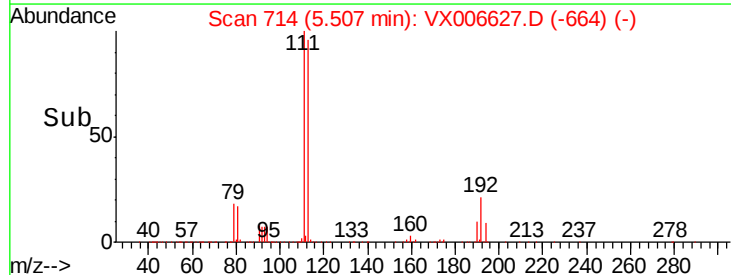
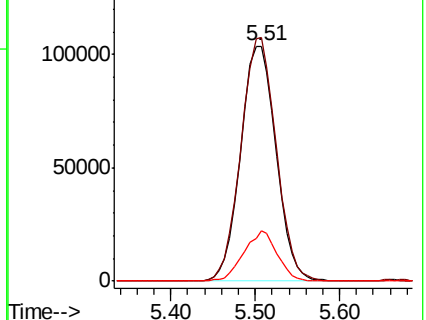
192 20.2 18.2 27.2

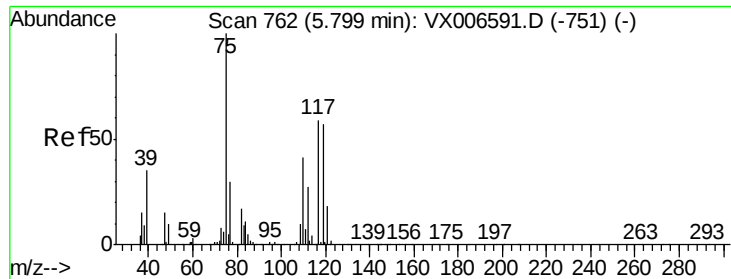


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.031 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.13 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

MW-16C_R1

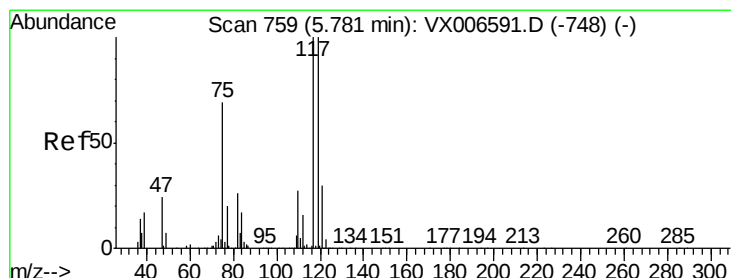
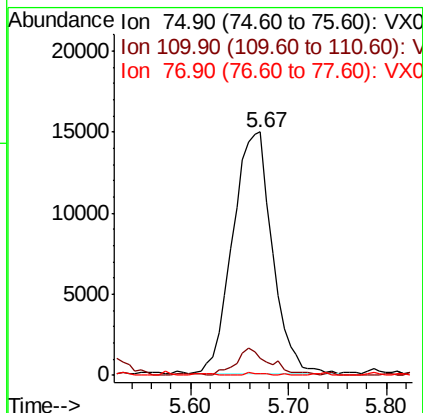
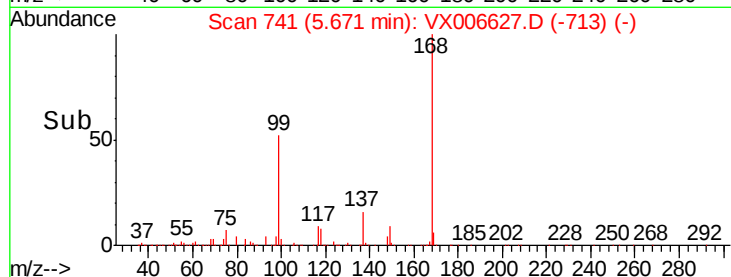
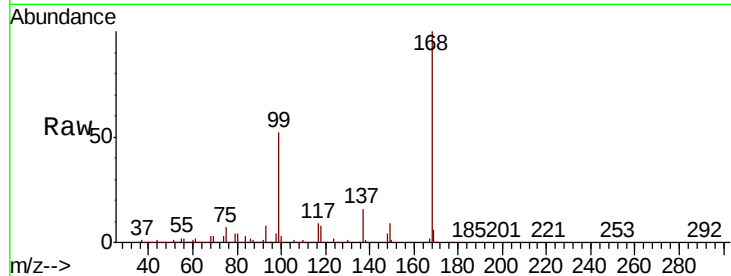
Tot Ion: 75 Resp: 41720

Ion Ratio Lower Upper

75 100

110 9.7 20.4 61.3#

77 0.4 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 7.290 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

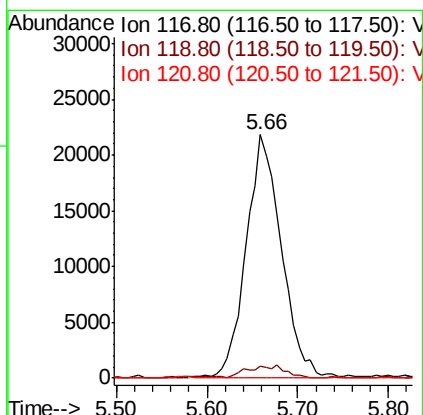
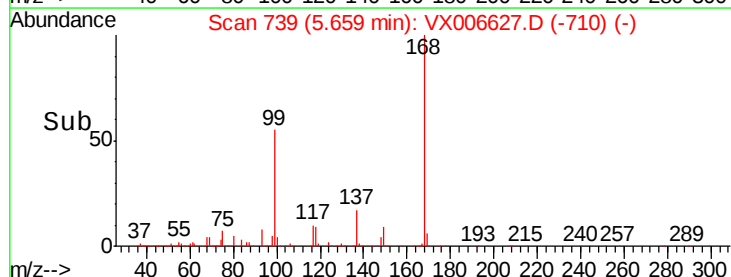
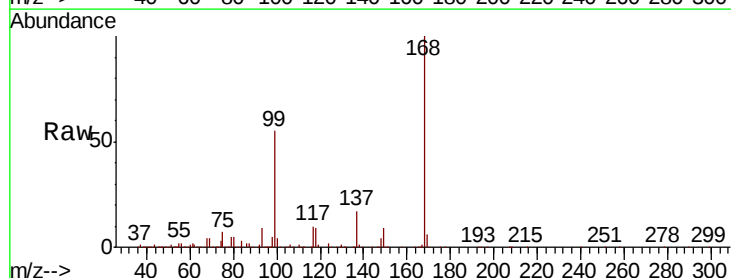
Tgt Ion: 117 Resp: 58753

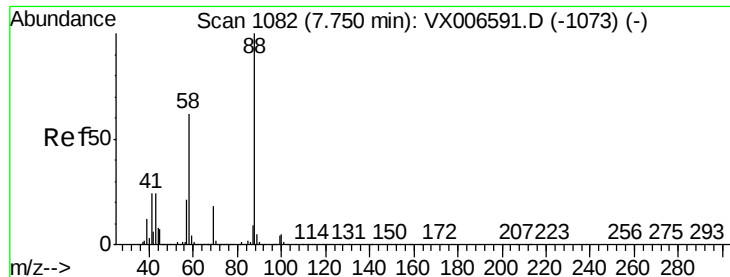
Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.8#

121 0.0 24.6 37.0#

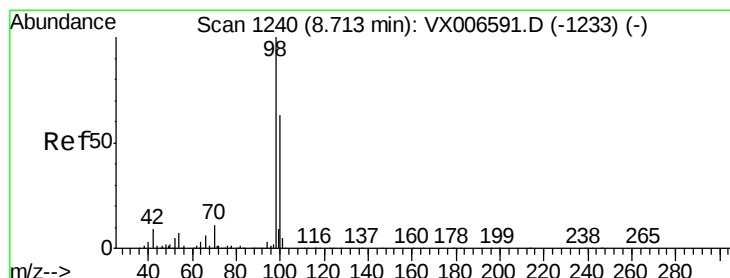
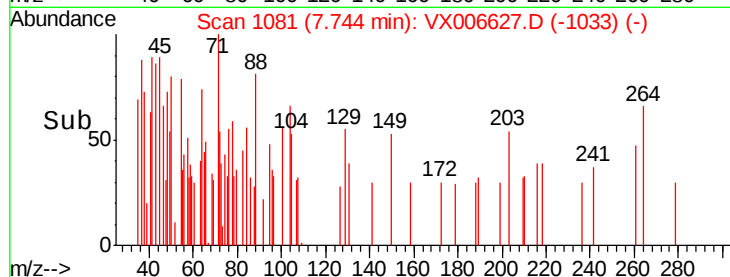
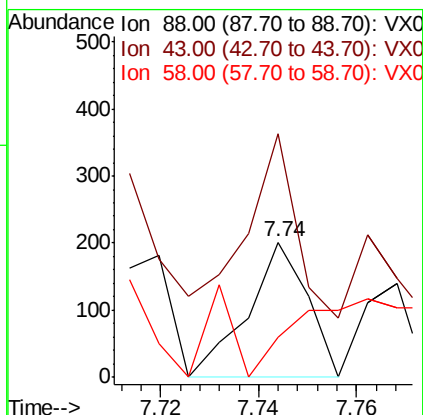
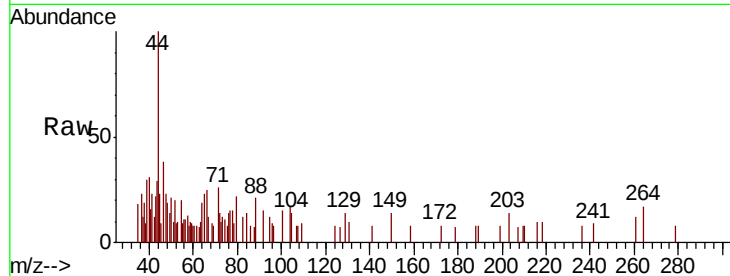




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006627.D
Acq: 19 Dec 2018 05:11

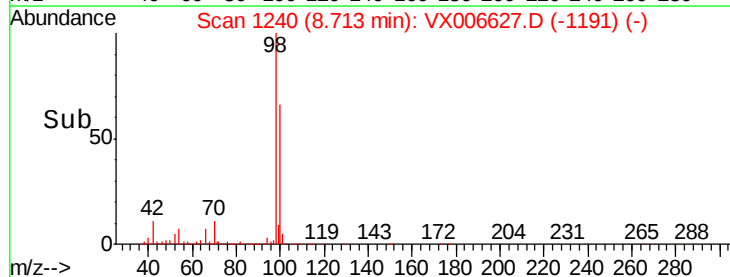
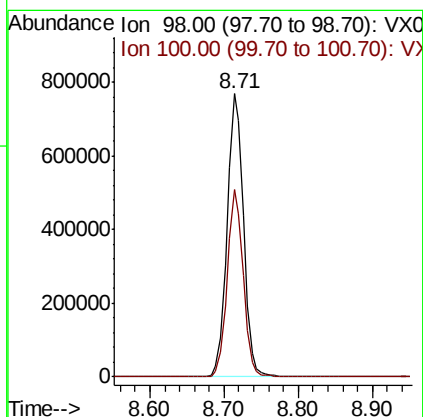
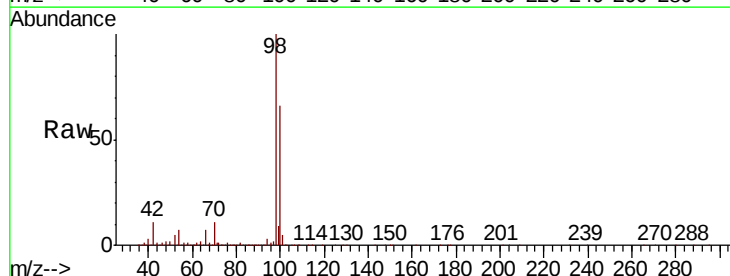
Instrument :
MSVOA_X
ClientSampleId :
MW-16C_R1

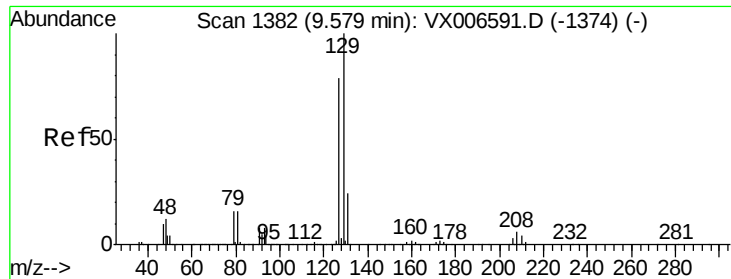
Tot Ion: 88 Resp: 169
Ion Ratio Lower Upper
88 100
43 206.5 23.2 34.8#
58 29.6 51.4 77.0#



#50
Toluene-d8
Concen: 49.612 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006627.D
Acq: 19 Dec 2018 05:11

Tgt Ion: 98 Resp: 1184322
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.2





#60

Dibromochloromethane

Concen: 2.332 ug/l

RT: 9.57 min Scan# 1381

Delta R.T. -0.01 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

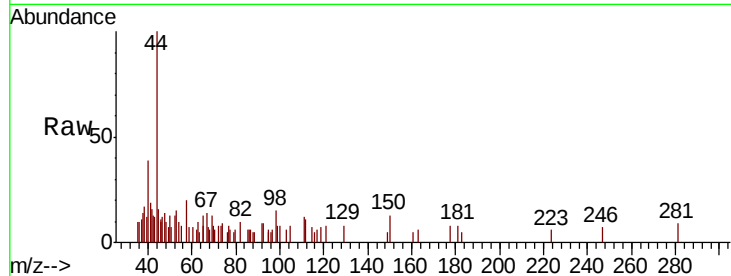
MW-16C_R1

Tot Ion:129 Resp: 56

Ion Ratio Lower Upper

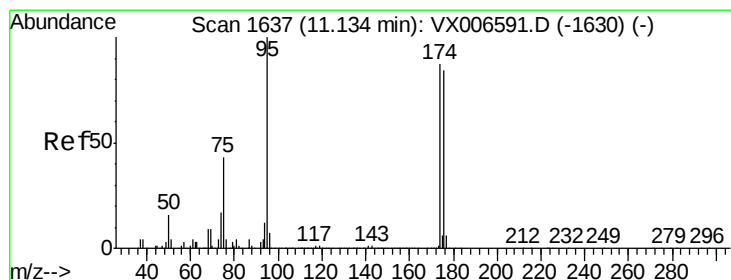
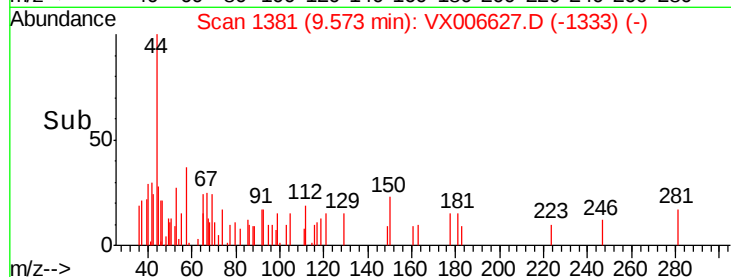
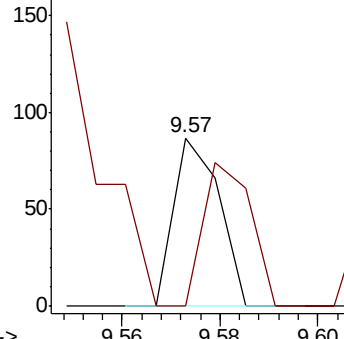
129 100

127 87.5 38.6 115.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 49.173 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

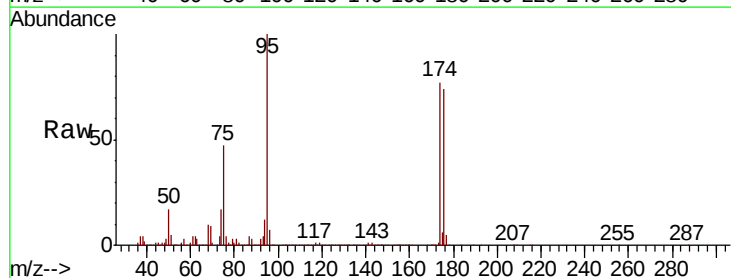
Tgt Ion: 95 Resp: 429906

Ion Ratio Lower Upper

95 100

174 84.0 0.0 187.0

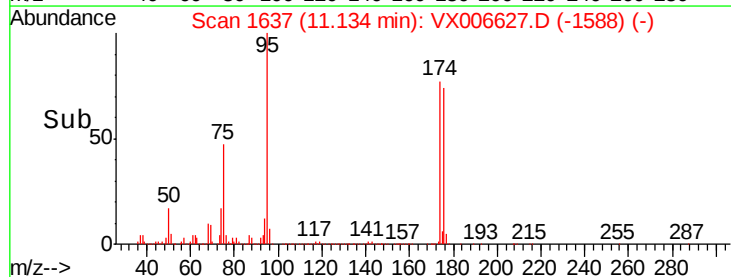
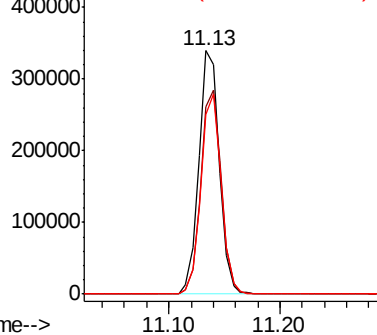
176 81.7 0.0 181.8

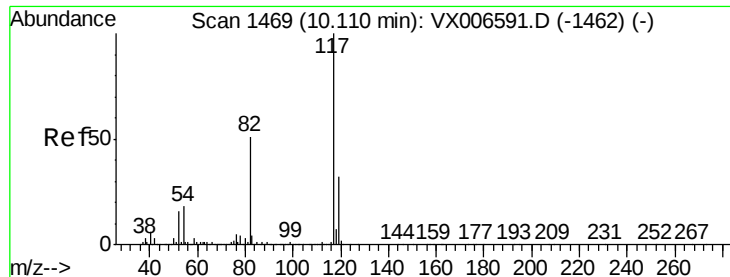


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

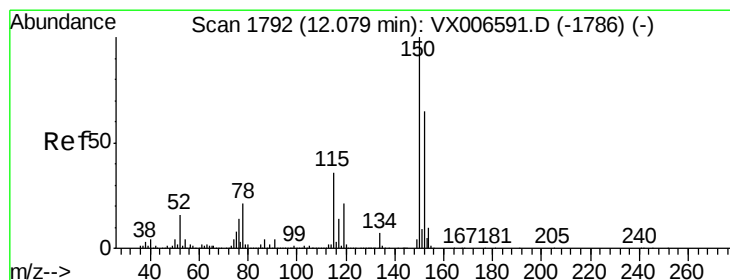
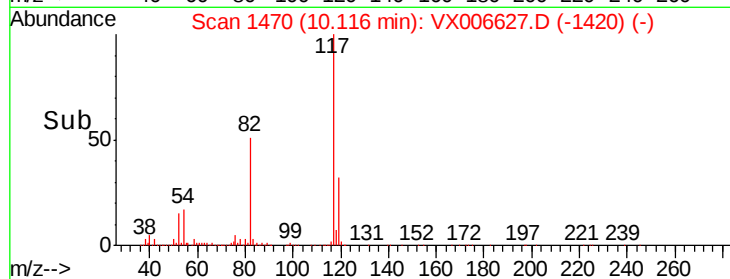
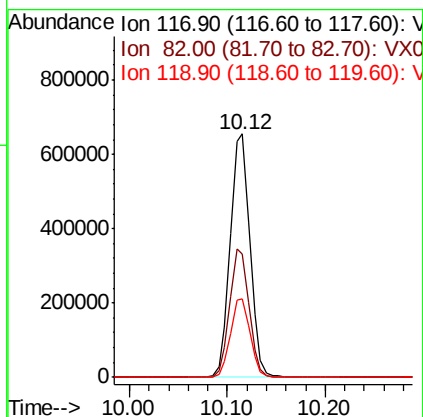
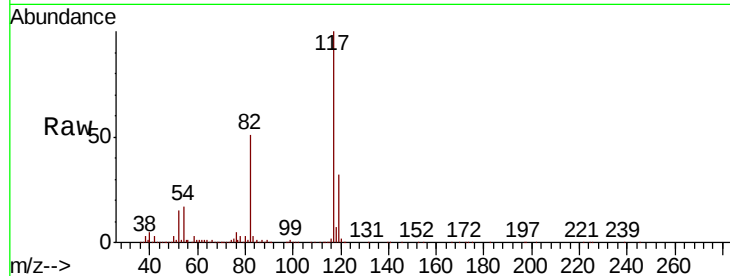




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006627.D
Acq: 19 Dec 2018 05:11

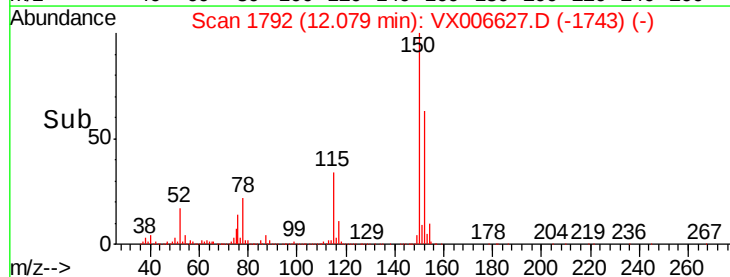
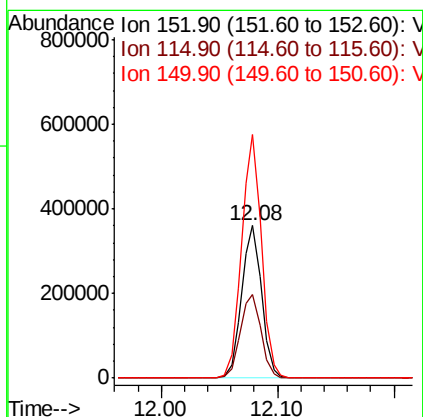
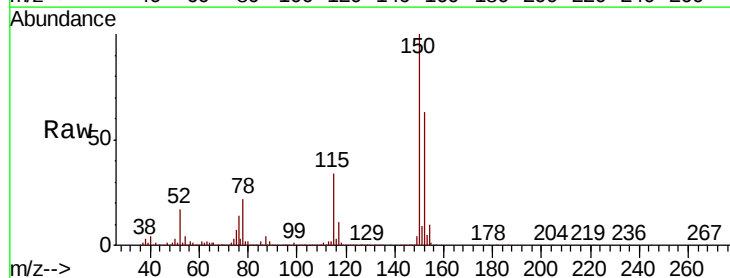
Instrument :
MSVOA_X
ClientSampleId :
MW-16C_R1

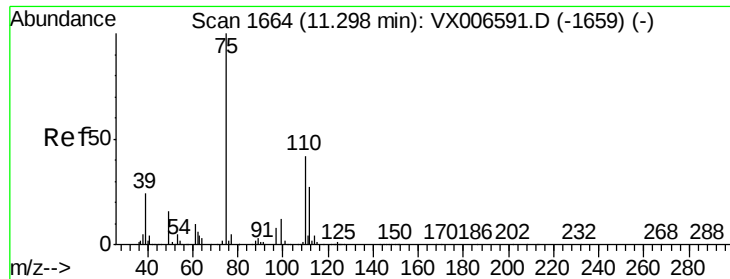
Tot Ion:117 Resp: 919262
Ion Ratio Lower Upper
117 100
82 50.7 39.6 59.4
119 32.2 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006627.D
Acq: 19 Dec 2018 05:11

Tgt Ion:152 Resp: 431896
Ion Ratio Lower Upper
152 100
115 56.9 39.0 116.9
150 158.4 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 26.257 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

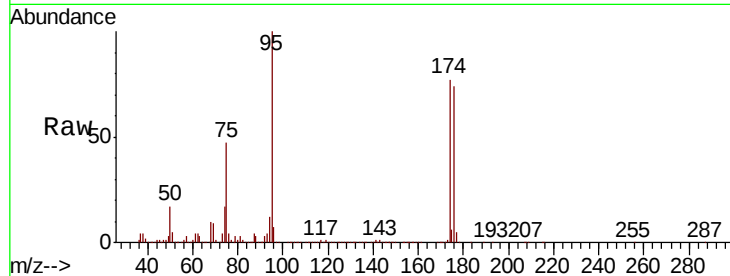
MW-16C_R1

Tot Ion: 75 Resp: 198755

Ion Ratio Lower Upper

75 100

77 1.4 19.9 59.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

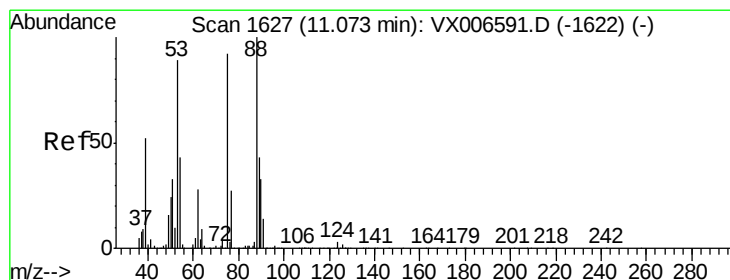
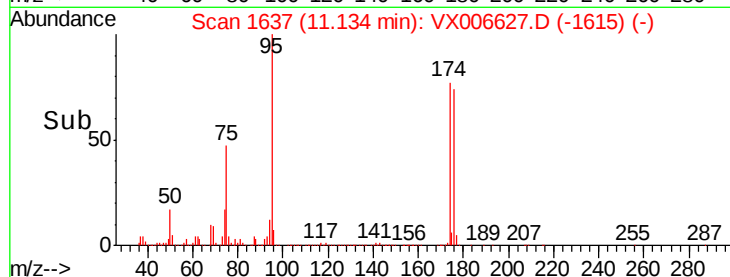
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 73.213 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

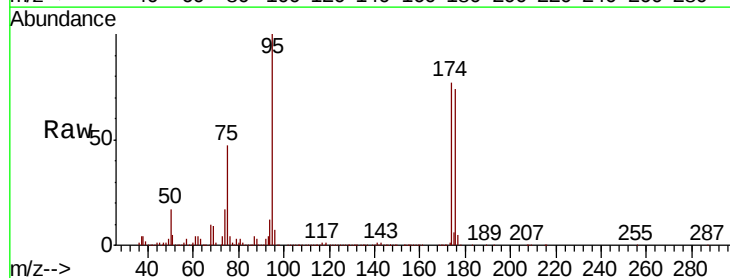
Tgt Ion: 75 Resp: 198755

Ion Ratio Lower Upper

75 100

53 0.1 64.4 96.6#

89 0.1 44.2 66.4#



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

11.13

200000

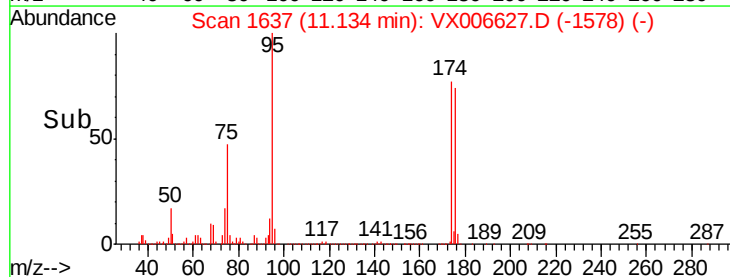
150000

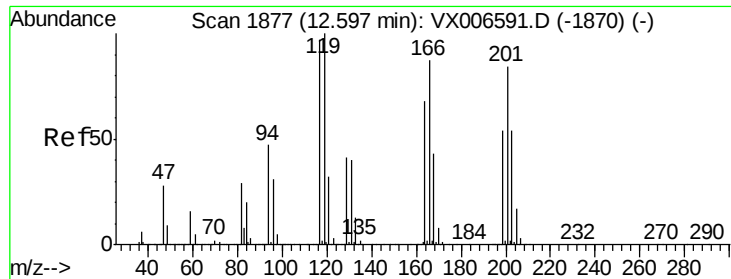
100000

50000

0

Time-->





#90

Hexachloroethane

Concen: 3.306 ug/l

RT: 12.43 min Scan# 1849

Delta R.T. -0.17 min

Lab File: VX006627.D

Acq: 19 Dec 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

MW-16C_R1

Tot Ion:117 Resp: 58

Ion Ratio Lower Upper

117 100

201 53.4 44.7 134.1

