

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081619\
 Data File : VX011590.D
 Acq On : 16 Aug 2019 18:45
 Operator : JC/SP
 Sample : K4397-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

Quant Time: Aug 19 01:12:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	463650	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	638573	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	562353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	289208	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	218741	50.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.74%	
35) Dibromofluoromethane	5.49	113	187007	44.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.54%	
50) Toluene-d8	8.71	98	721015	55.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.80%	
62) 4-Bromofluorobenzene	11.13	95	261076	47.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.06%	

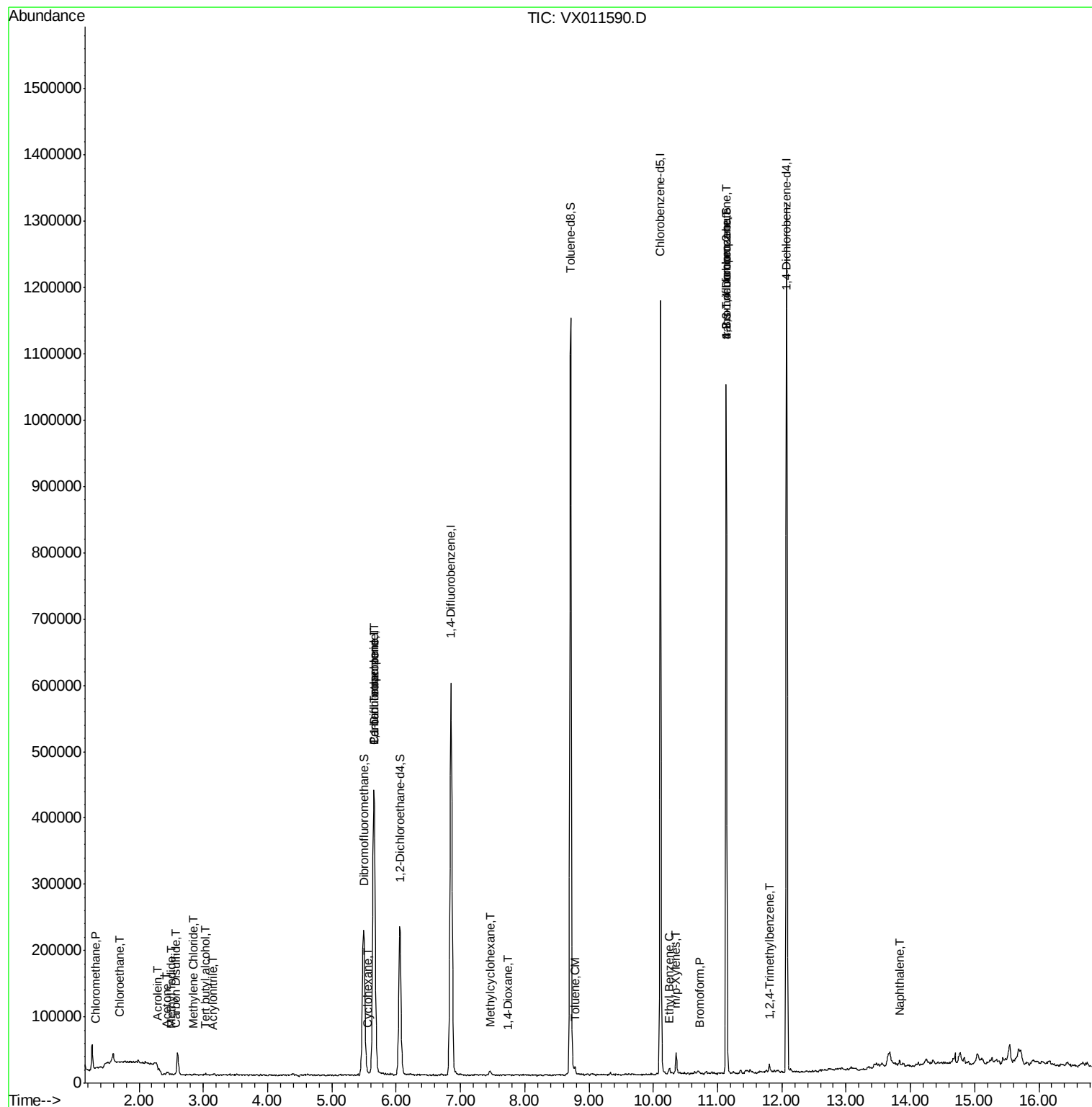
Target Compounds						Qvalue
3) Chloromethane	1.32	50	1238	0.262	ug/l	100
6) Chloroethane	1.70	64	465	0.230	ug/l #	70
10) Methyl Iodide	2.50	142	1393	0.239	ug/l #	89
11) Tert butyl alcohol	3.04	59	1817	1.723	ug/l #	87
13) Acrolein	2.29	56	378	13.292	ug/l #	57
15) Acrylonitrile	3.15	53	611	0.253	ug/l #	78
16) Acetone	2.43	43	5979	2.766	ug/l #	79
17) Carbon Disulfide	2.57	76	1941	0.208	ug/l #	92
20) Methylene Chloride	2.85	84	993	0.219	ug/l #	65
31) Cyclohexane	5.57	56	1408	0.221	ug/l	95
36) 1,1-Dichloropropene	5.65	75	26679	4.887	ug/l #	50
38) Carbon Tetrachloride	5.65	117	40443	6.724	ug/l #	16
39) Methylcyclohexane	7.46	83	3496	0.519	ug/l #	83
49) 1,4-Dioxane	7.74	88	230	1.782	ug/l #	8
52) Toluene	8.79	92	3451	0.319	ug/l	94
67) Ethyl Benzene	10.25	91	5691	0.284	ug/l	99
68) m/p-Xylenes	10.35	106	9058	1.179	ug/l	89
71) Bromoform	10.73	173	72	3.307	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	120871	22.040	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	120871	58.835	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	6076	0.384	ug/l	97
95) Naphthalene	13.83	128	4937	0.243	ug/l #	85

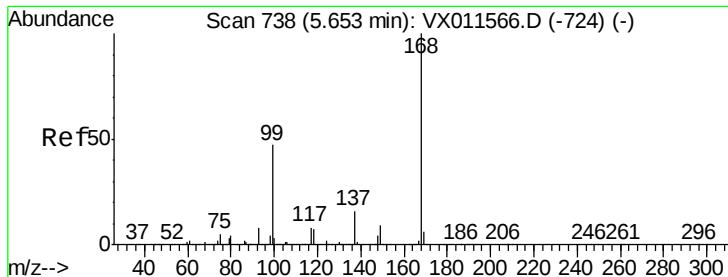
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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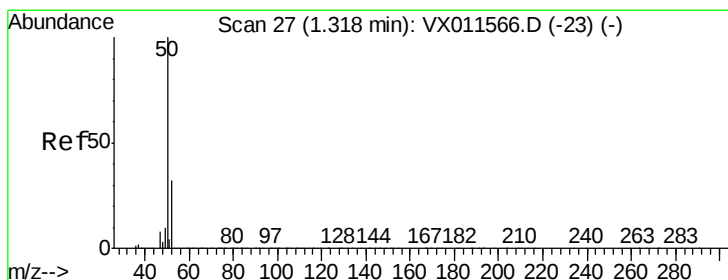
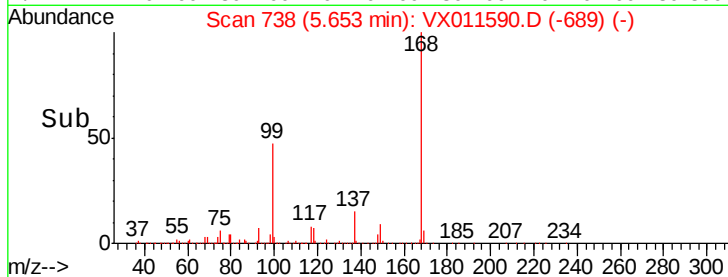
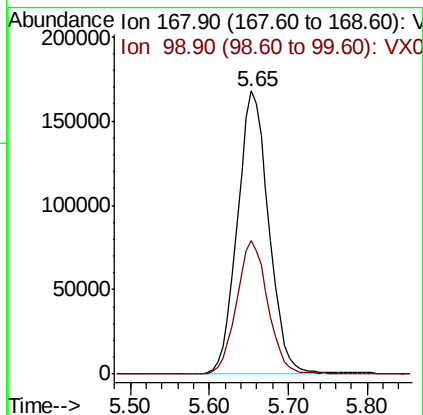
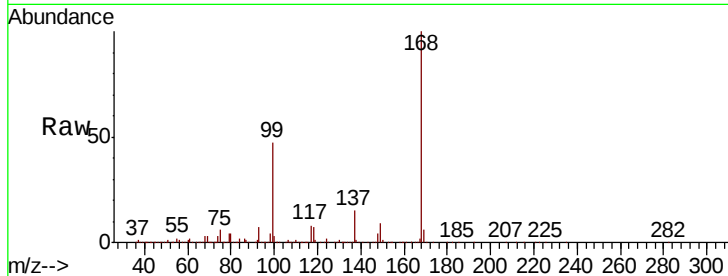


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. 0.00 min
 Lab File: VX011590.D
 Acq: 16 Aug 2019 18:45

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 ClientSampleId :
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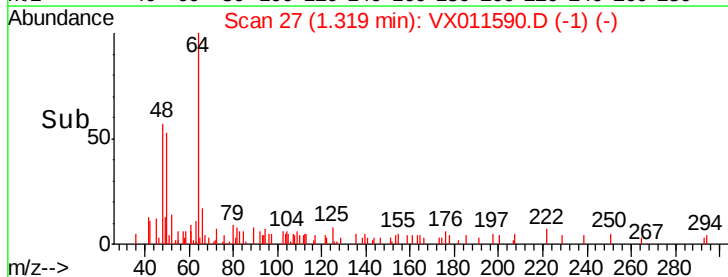
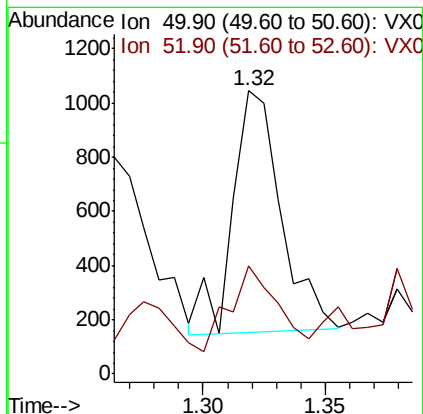
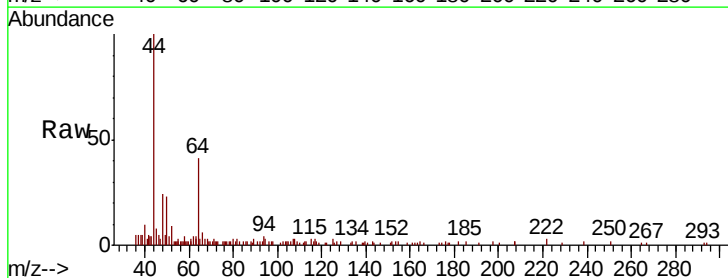
Tgt Ion:168 Resp: 463650
 Ion Ratio Lower Upper
 168 100
 99 47.3 37.3 55.9

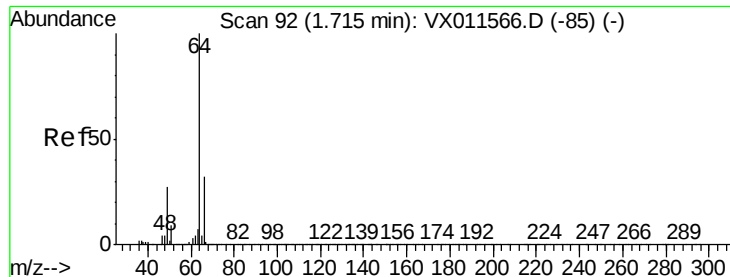


#3

Chloromethane
 Concen: 0.262 ug/l
 RT: 1.32 min Scan# 27
 Delta R.T. 0.00 min
 Lab File: VX011590.D
 Acq: 16 Aug 2019 18:45

Tgt Ion: 50 Resp: 1238
 Ion Ratio Lower Upper
 50 100
 52 32.3 26.0 39.0





#6

Chloroethane

Concen: 0.230 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

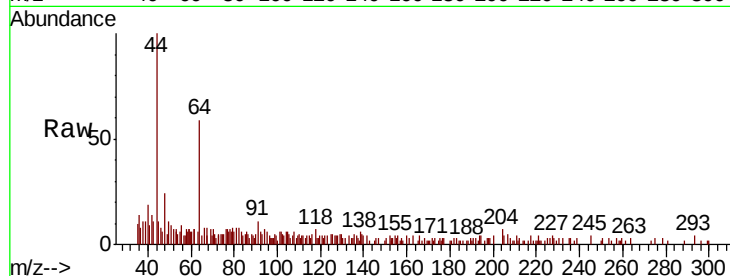
STORAGE-BLANK-WATER-REF-5

Tgt Ion: 64 Resp: 465

Ion Ratio Lower Upper

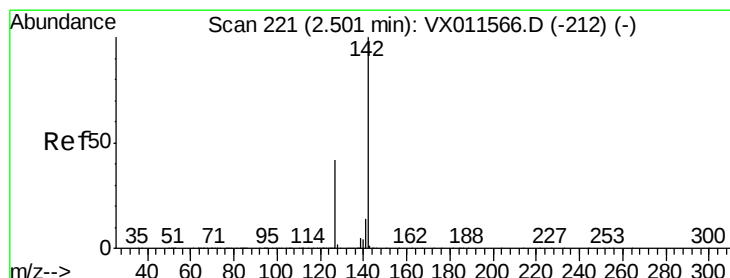
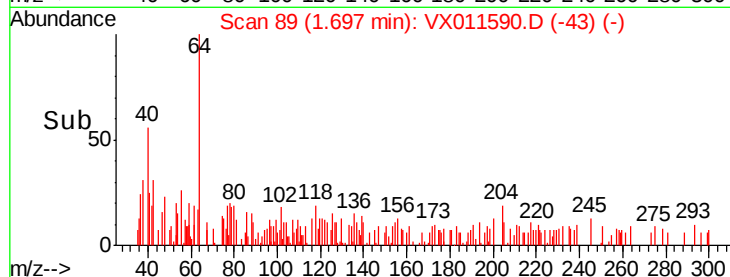
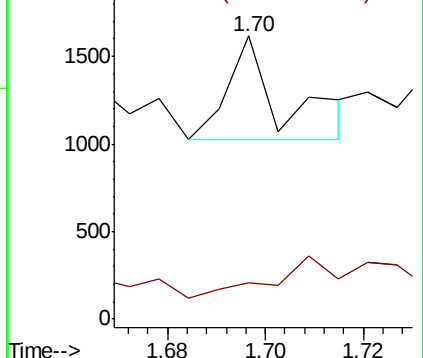
64 100

66 14.8 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.239 ug/l

RT: 2.50 min Scan# 221

Delta R.T. 0.00 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

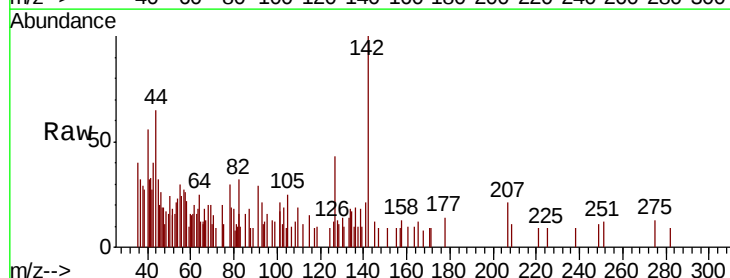
Tgt Ion: 142 Resp: 1393

Ion Ratio Lower Upper

142 100

127 44.9 32.8 49.2

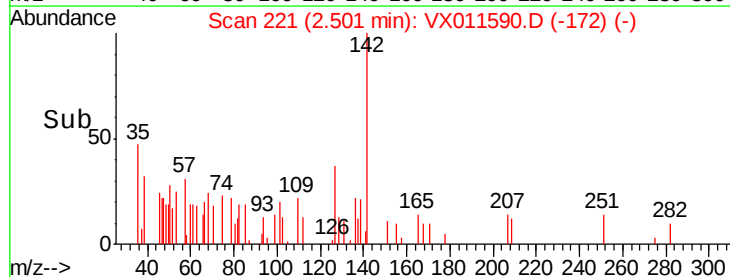
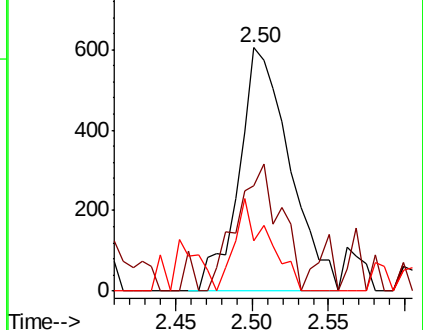
141 25.1 11.4 17.2#

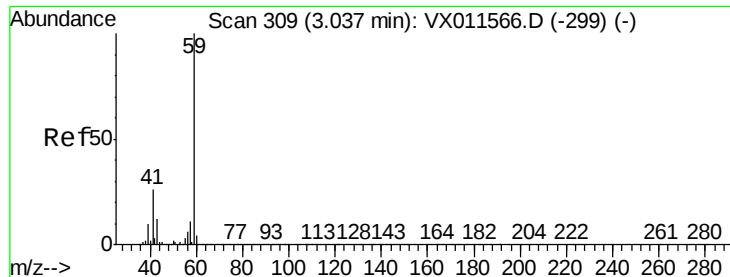


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

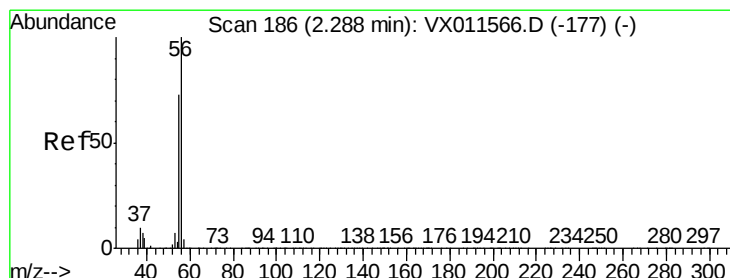
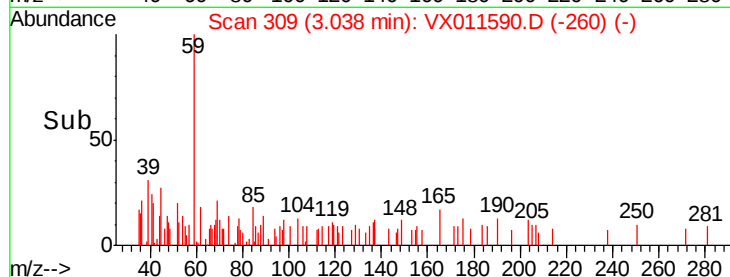
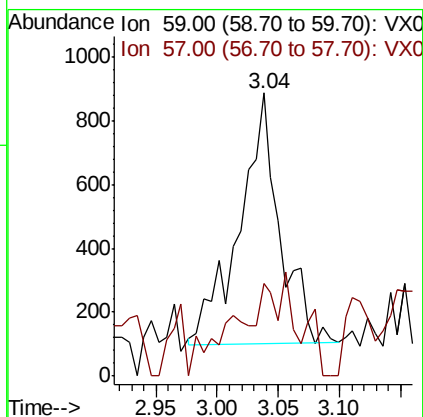
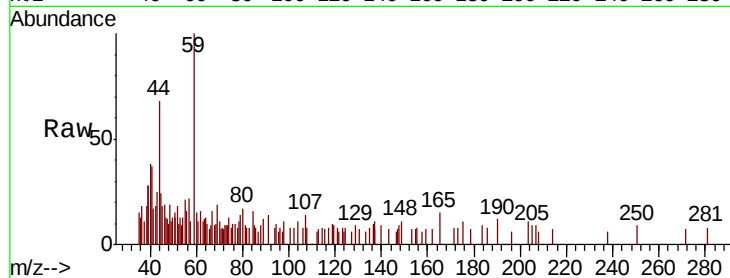




#11
Tert butyl alcohol
Concen: 1.723 ug/l
RT: 3.04 min Scan# 309
Delta R.T. 0.00 min
Lab File: VX011590.D
Acq: 16 Aug 2019 18:45

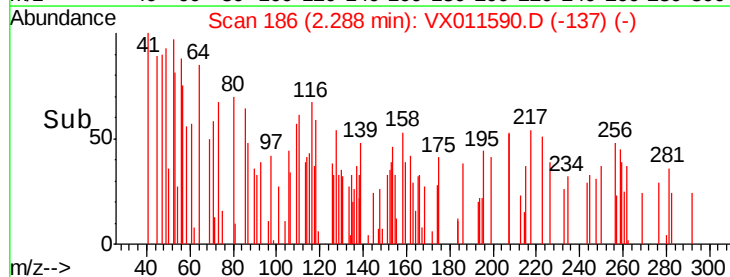
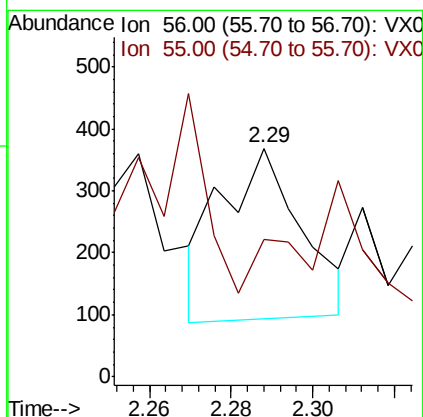
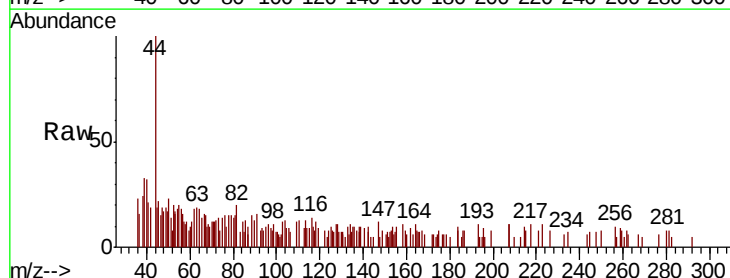
Instrument :
MSVOA_X
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STORAGE-BLANK-WATER-REF-5

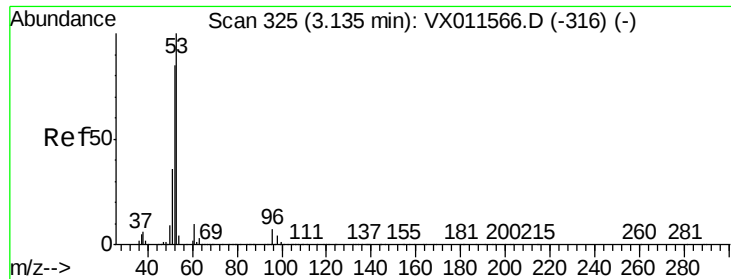
Tgt Ion: 59 Resp: 1817
Ion Ratio Lower Upper
59 100
57 15.9 8.7 13.1#



#13
Acrolein
Concen: 13.292 ug/l
RT: 2.29 min Scan# 186
Delta R.T. 0.00 min
Lab File: VX011590.D
Acq: 16 Aug 2019 18:45

Tgt Ion: 56 Resp: 378
Ion Ratio Lower Upper
56 100
55 34.1 55.5 83.3#

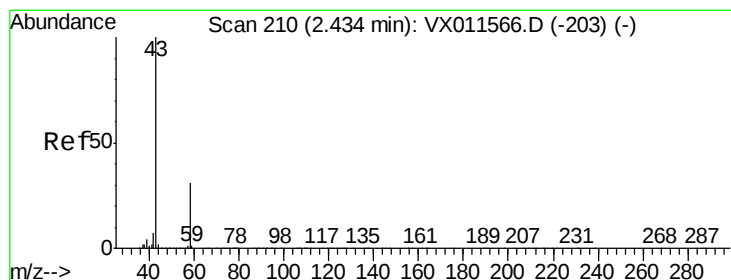
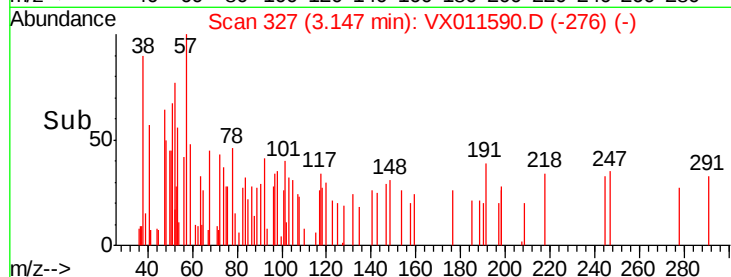
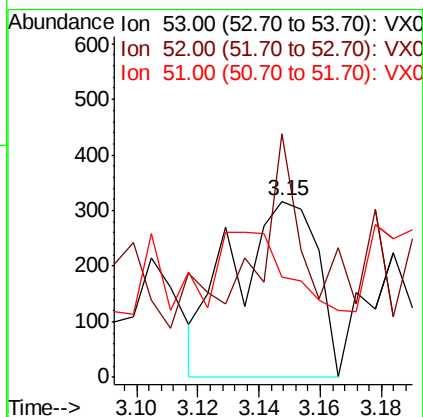
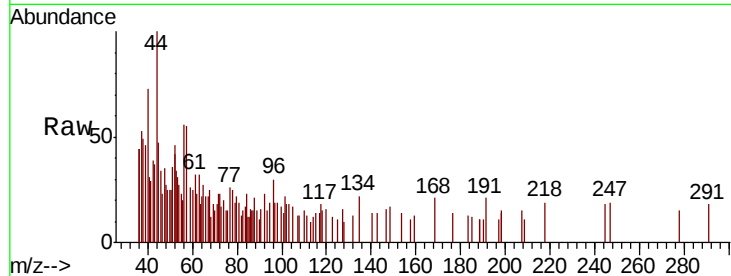




#15
Acrylonitrile
Concen: 0.253 ug/l
RT: 3.15 min Scan# 327
Delta R.T. 0.01 min
Lab File: VX011590.D
Acq: 16 Aug 2019 18:45

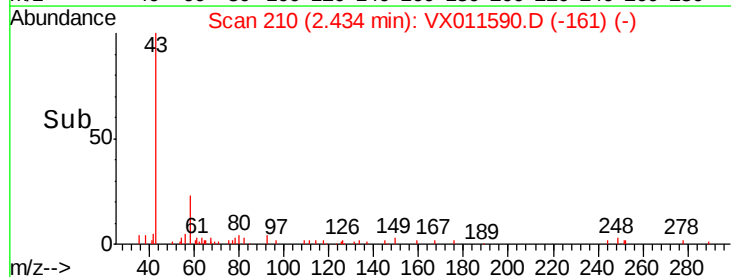
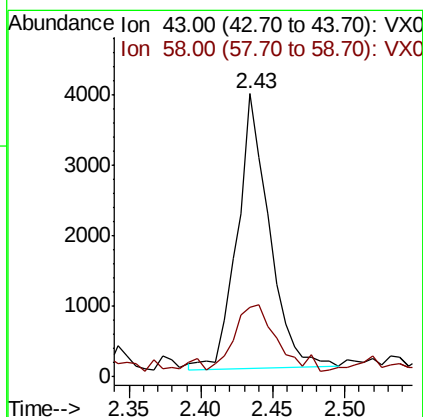
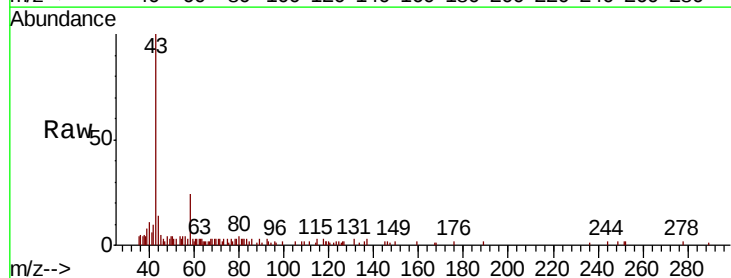
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-5

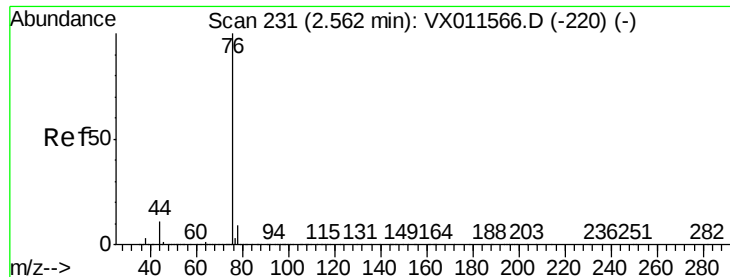
Tgt Ion: 53 Resp: 611
Ion Ratio Lower Upper
53 100
52 57.1 66.7 100.1#
51 33.1 28.7 43.1



#16
Acetone
Concen: 2.766 ug/l
RT: 2.43 min Scan# 210
Delta R.T. 0.00 min
Lab File: VX011590.D
Acq: 16 Aug 2019 18:45

Tgt Ion: 43 Resp: 5979
Ion Ratio Lower Upper
43 100
58 20.1 25.2 37.8#

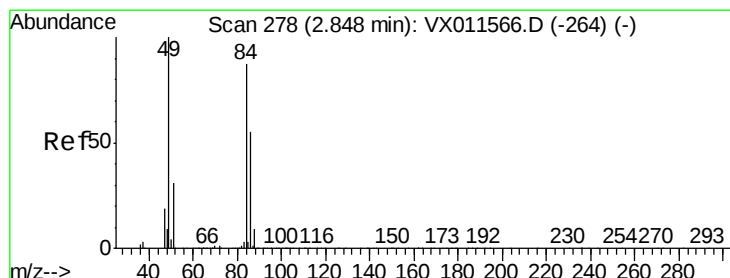
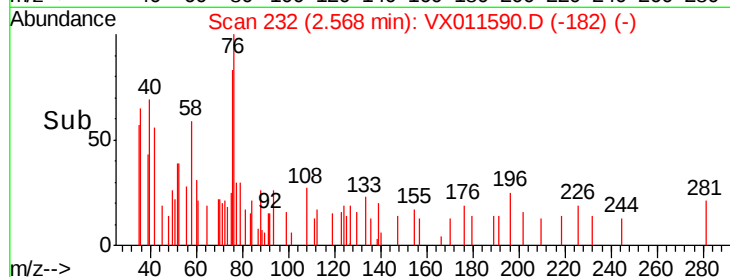
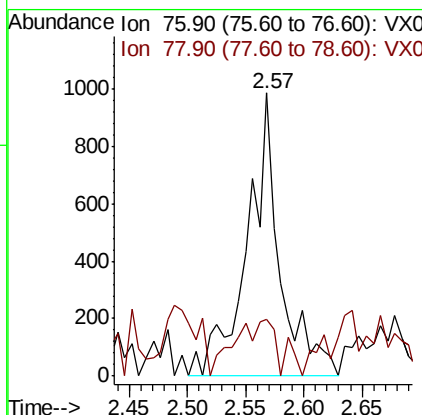
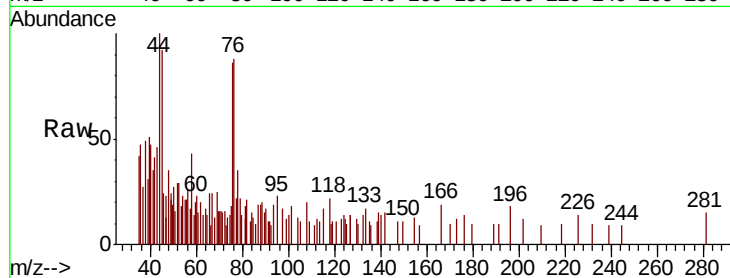




#17
Carbon Disulfide
Concen: 0.208 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX011590.D
Acq: 16 Aug 2019 18:45

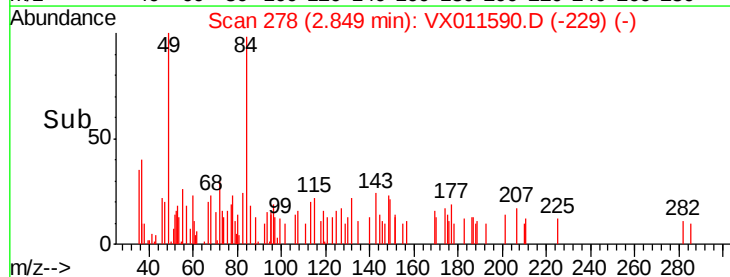
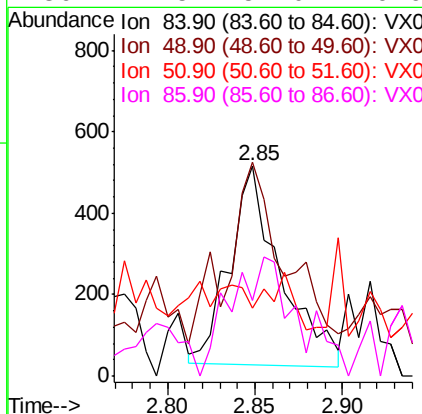
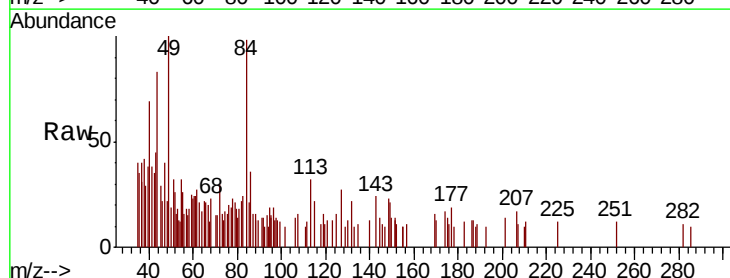
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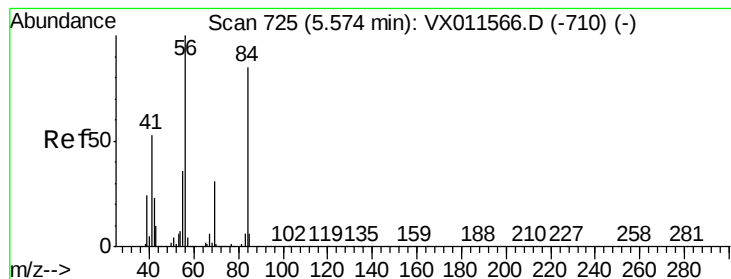
Tgt Ion: 76 Resp: 1941
Ion Ratio Lower Upper
76 100
78 6.0 7.2 10.8#



#20
Methylene Chloride
Concen: 0.219 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011590.D
Acq: 16 Aug 2019 18:45

Tgt Ion: 84 Resp: 993
Ion Ratio Lower Upper
84 100
49 96.3 92.4 138.6
51 0.0 28.5 42.7#
86 24.5 51.0 76.6#





#31

Cyclohexane

Concen: 0.221 ug/l

RT: 5.57 min Scan# 724

Delta R.T. -0.01 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

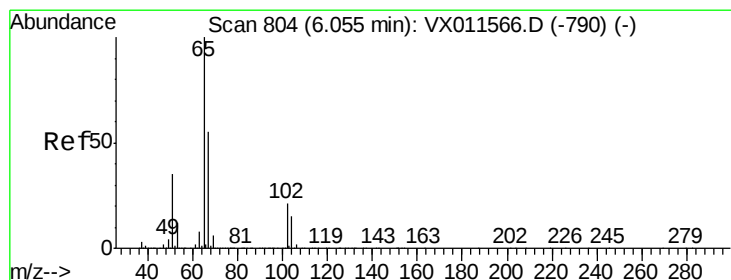
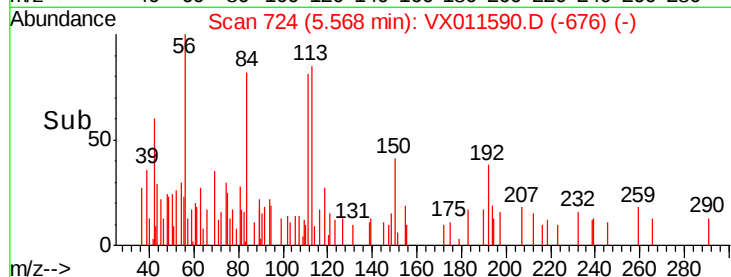
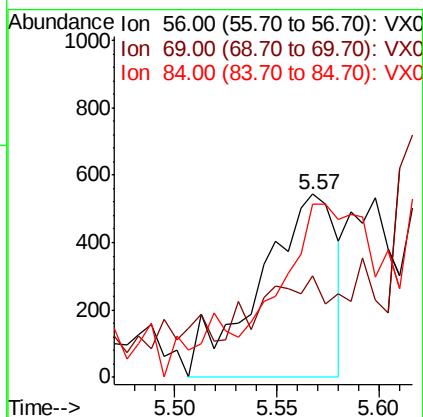
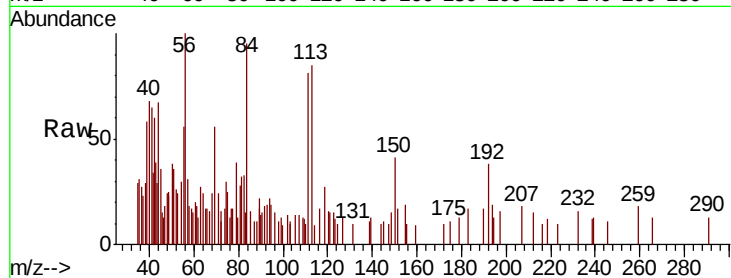
Tgt Ion: 56 Resp: 1408

Ion Ratio Lower Upper

56 100

69 28.7 24.8 37.2

84 80.0 67.9 101.9



#33

1,2-Dichloroethane-d4

Concen: 50.873 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011590.D

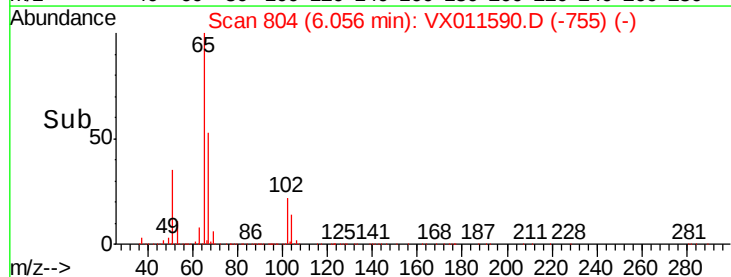
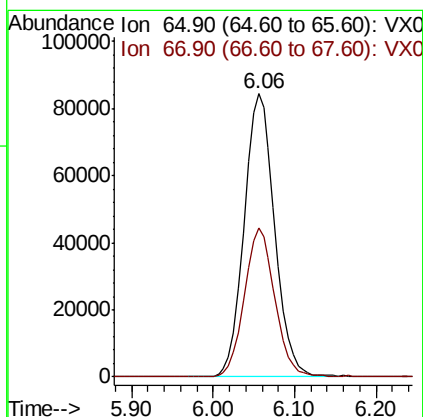
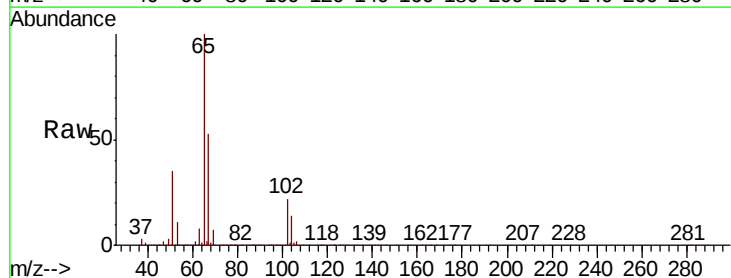
Acq: 16 Aug 2019 18:45

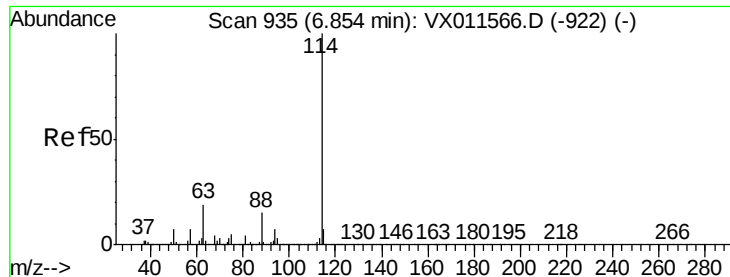
Tgt Ion: 65 Resp: 218741

Ion Ratio Lower Upper

65 100

67 52.8 0.0 107.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

Instrument :

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ClientSampleId :

STORAGE-BLANK-WATER-REF-5

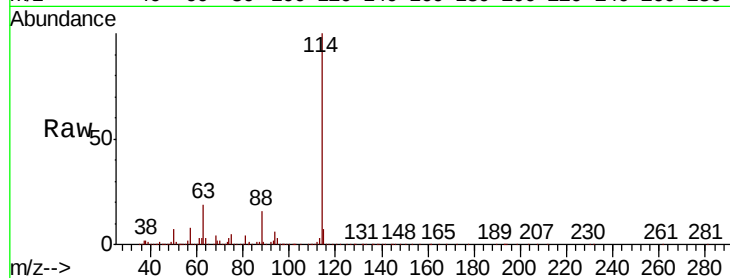
Tgt Ion:114 Resp: 638573

Ion Ratio Lower Upper

114 100

63 18.8 0.0 37.8

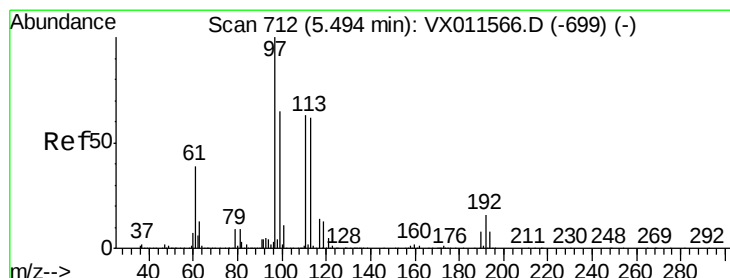
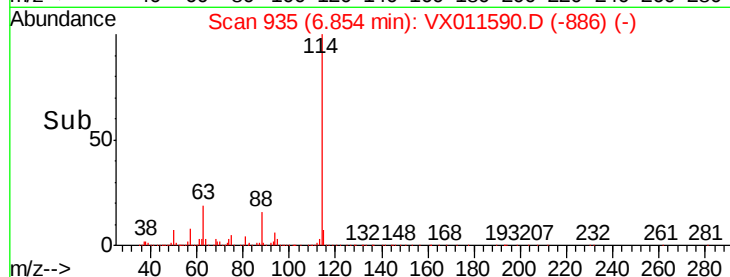
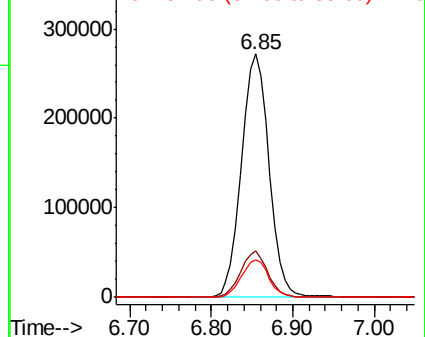
88 15.6 0.0 30.2



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: 44.774 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

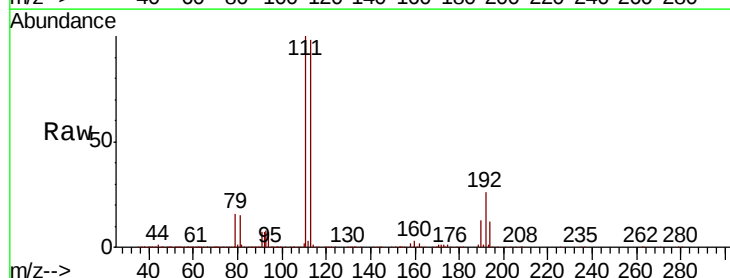
Tgt Ion:113 Resp: 187007

Ion Ratio Lower Upper

113 100

111 101.7 81.1 121.7

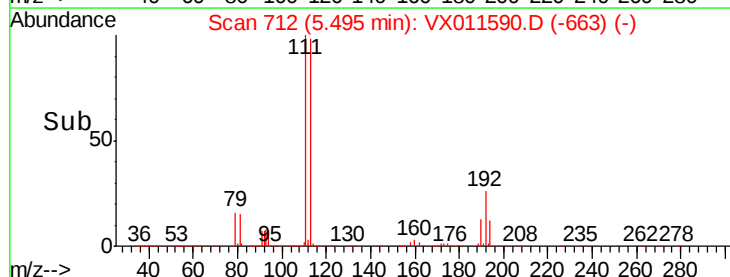
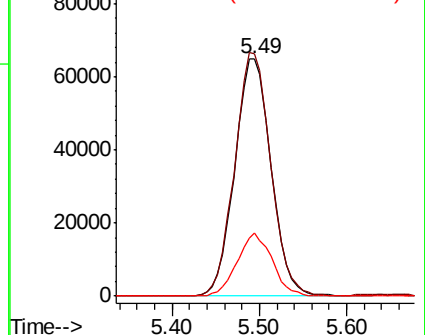
192 25.8 20.8 31.2

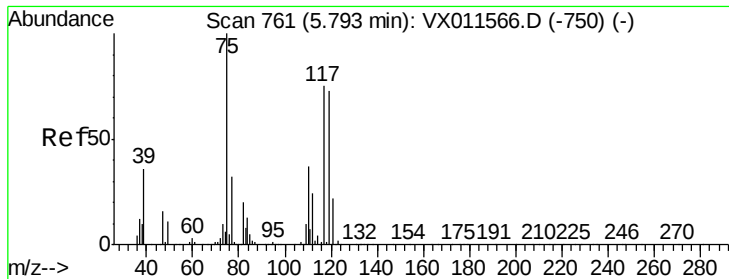


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

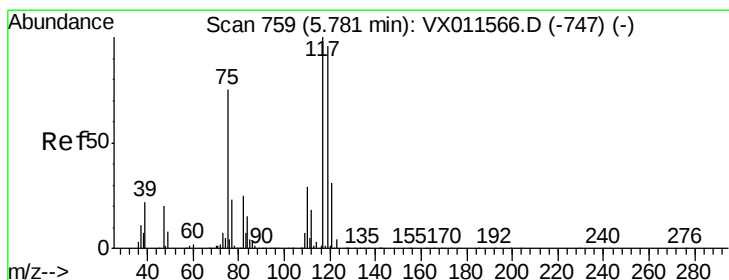
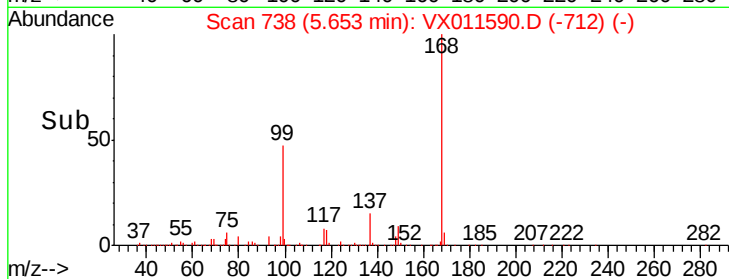
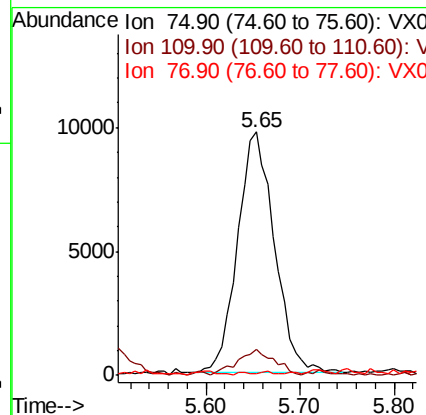
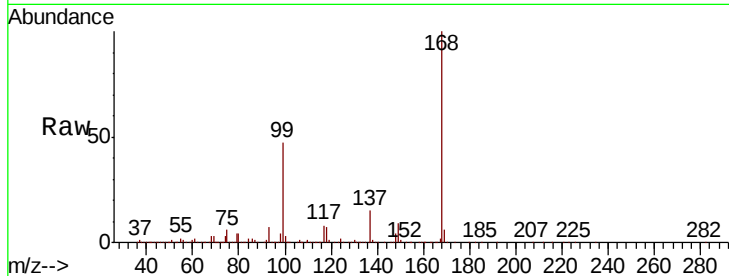




#36
 1,1-Dichloropropene
 Concen: 4.887 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011590.D
 Acq: 16 Aug 2019 18:45

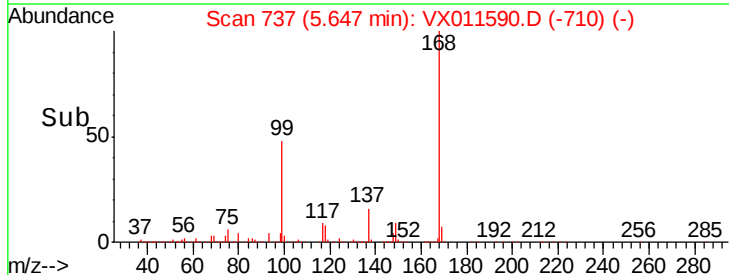
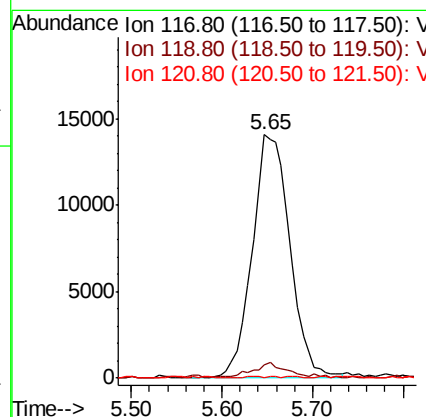
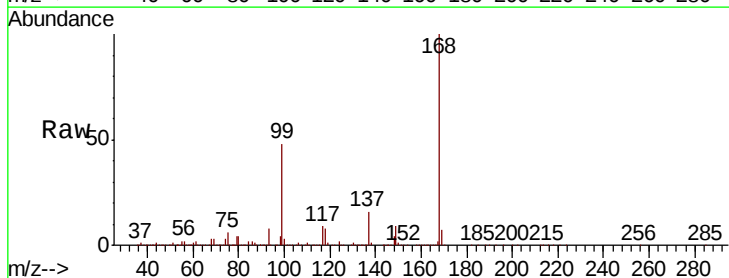
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

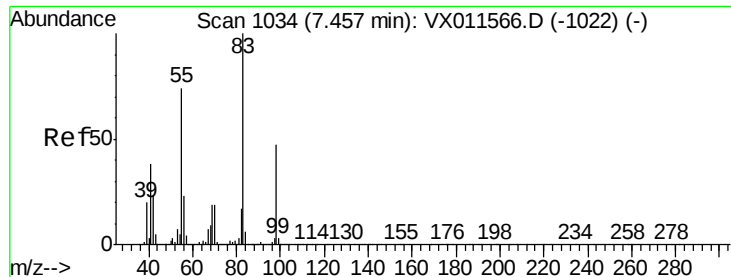
Tgt Ion: 75 Resp: 26679
 Ion Ratio Lower Upper
 75 100
 110 10.8 19.4 58.1#
 77 0.4 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.724 ug/l
 RT: 5.65 min Scan# 737
 Delta R.T. -0.13 min
 Lab File: VX011590.D
 Acq: 16 Aug 2019 18:45

Tgt Ion: 117 Resp: 40443
 Ion Ratio Lower Upper
 117 100
 119 5.6 76.9 115.3#
 121 0.0 24.8 37.2#

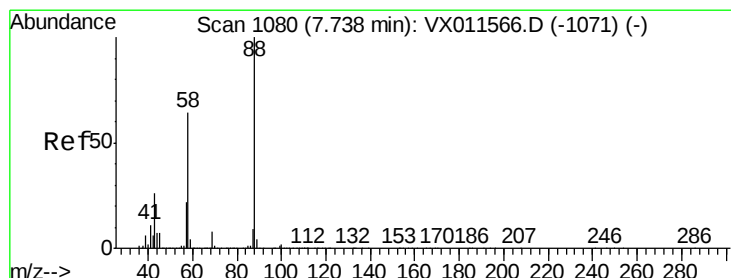
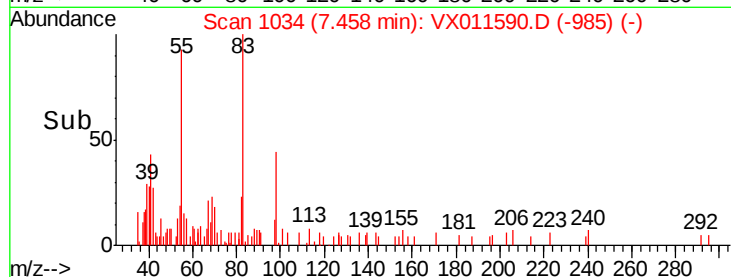
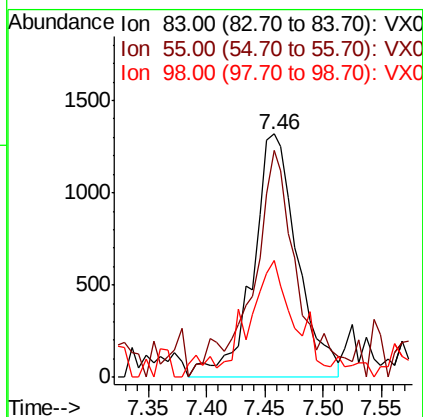
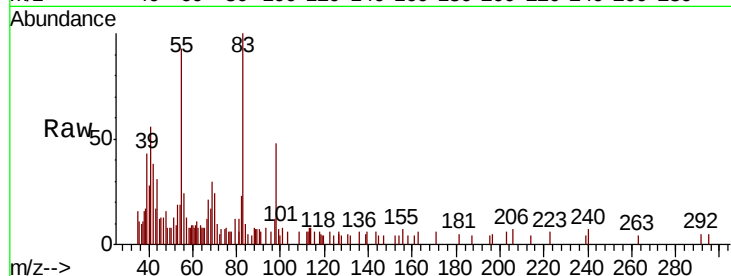




#39
Methylcyclohexane
Concen: 0.519 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VX011590.D
Acq: 16 Aug 2019 18:45

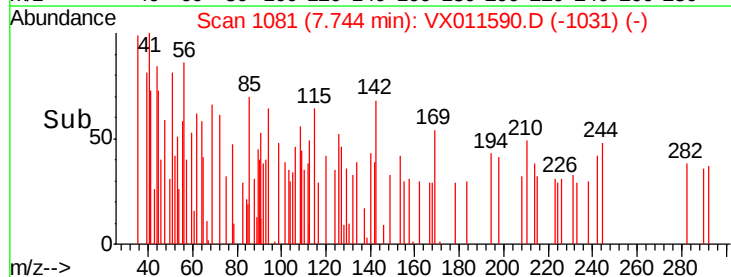
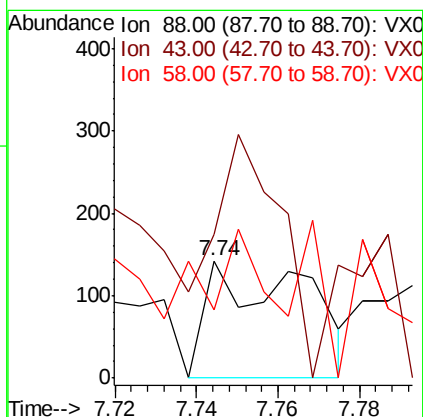
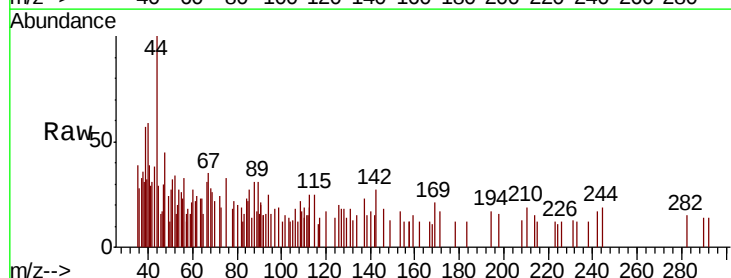
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-5

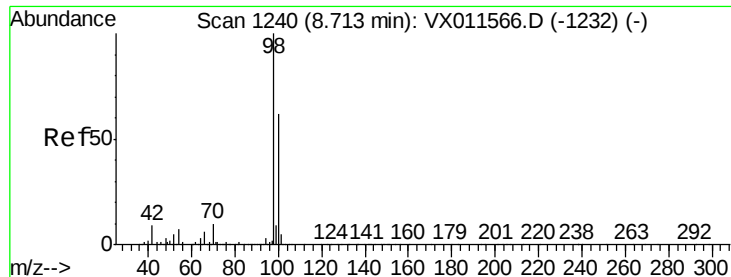
Tgt Ion: 83 Resp: 3496
Ion Ratio Lower Upper
83 100
55 93.3 58.8 88.2#
98 42.9 37.8 56.6



#49
1,4-Dioxane
Concen: 1.782 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX011590.D
Acq: 16 Aug 2019 18:45

Tgt Ion: 88 Resp: 230
Ion Ratio Lower Upper
88 100
43 142.6 23.4 35.0#
58 35.7 54.3 81.5#

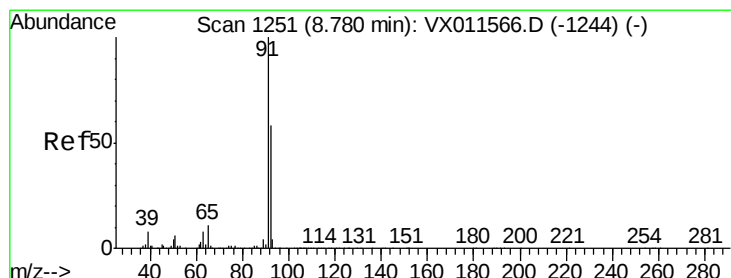
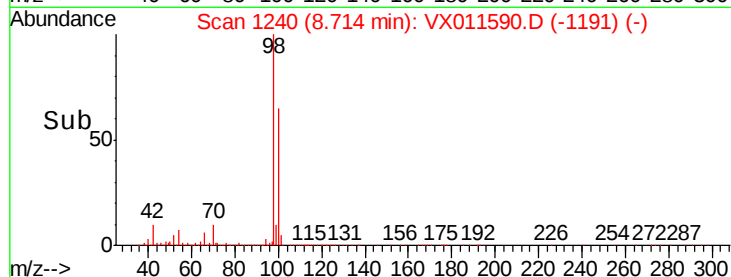
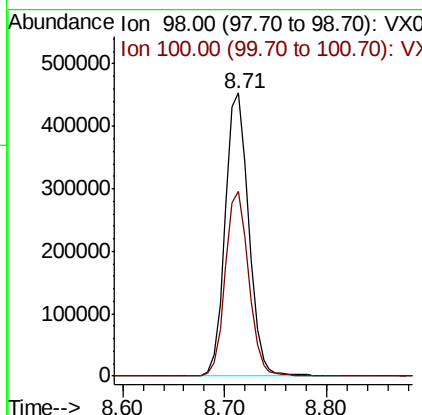
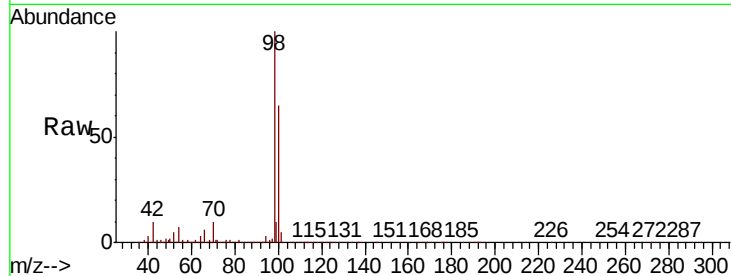




#50
Toluene-d8
Concen: 55.403 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011590.D
Acq: 16 Aug 2019 18:45

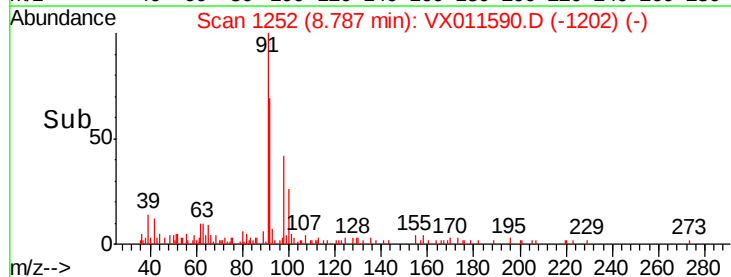
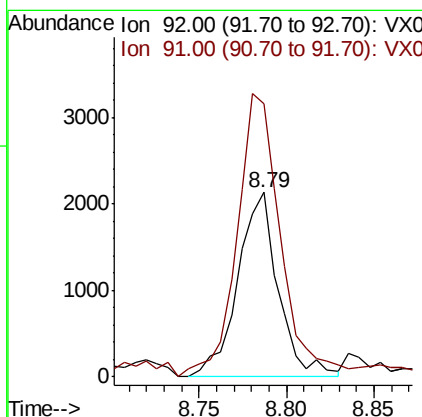
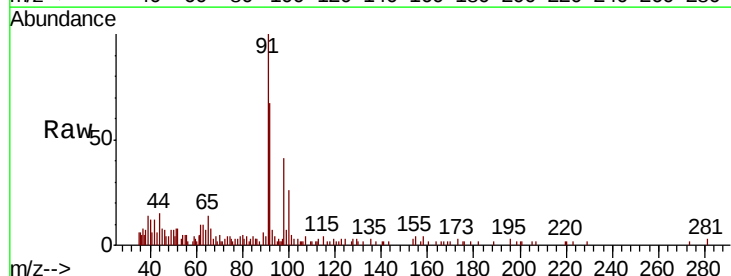
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-5

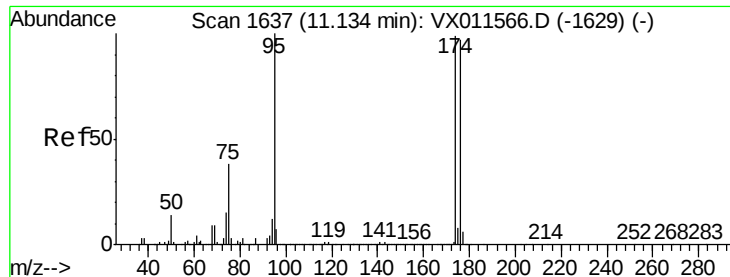
Tgt Ion: 98 Resp: 721015
Ion Ratio Lower Upper
98 100
100 65.1 52.4 78.6



#52
Toluene
Concen: 0.319 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VX011590.D
Acq: 16 Aug 2019 18:45

Tgt Ion: 92 Resp: 3451
Ion Ratio Lower Upper
92 100
91 164.7 138.0 207.0





#62

4-Bromofluorobenzene

Concen: 47.529 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

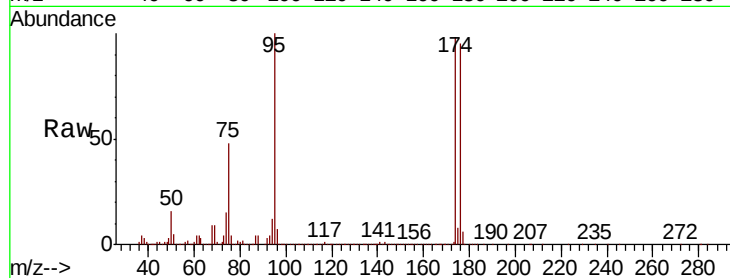
Tgt Ion: 95 Resp: 261076

Ion Ratio Lower Upper

95 100

174 97.9 0.0 200.6

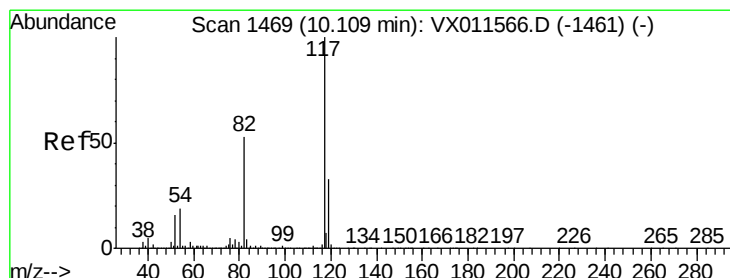
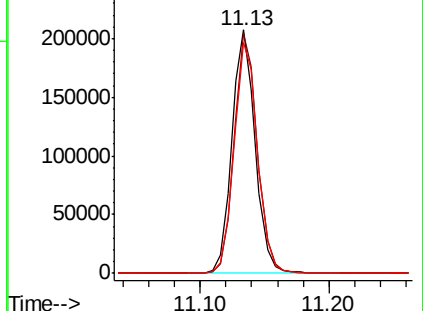
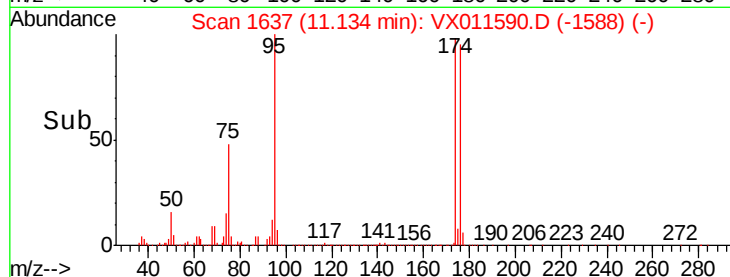
176 95.9 0.0 196.6



Abundance Ion 94.90 (94.60 to 95.60): VX011566.D (-1629) (-)

Ion 173.80 (173.50 to 174.50): VX011566.D (-1629) (-)

Ion 175.80 (175.50 to 176.50): VX011566.D (-1629) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

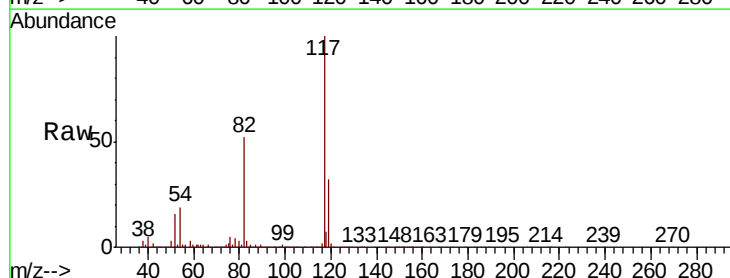
Tgt Ion: 117 Resp: 562353

Ion Ratio Lower Upper

117 100

82 51.9 42.0 63.0

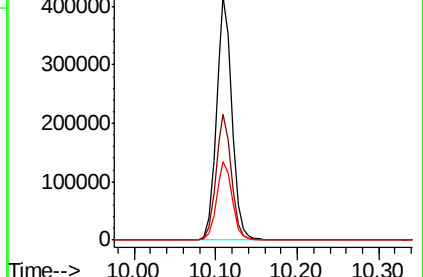
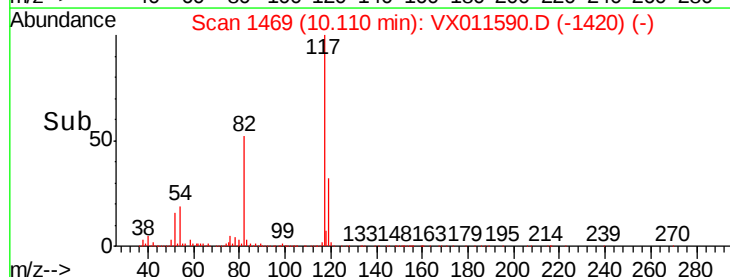
119 32.3 26.5 39.7

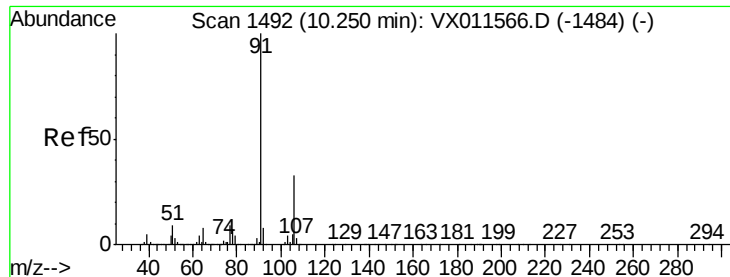


Abundance Ion 116.90 (116.60 to 117.60): VX011566.D (-1461) (-)

Ion 82.00 (81.70 to 82.70): VX011566.D (-1461) (-)

Ion 118.90 (118.60 to 119.60): VX011566.D (-1461) (-)





#67

Ethyl Benzene

Concen: 0.284 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

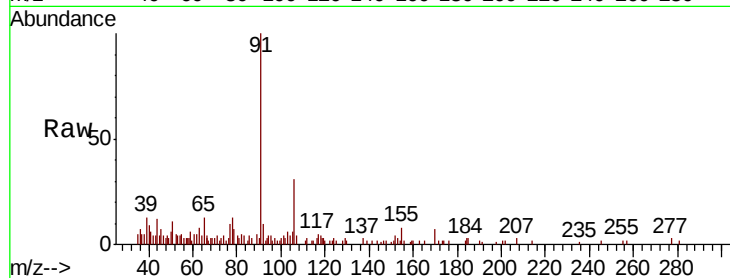
STORAGE-BLANK-WATER-REF-5

Tgt Ion: 91 Resp: 5691

Ion Ratio Lower Upper

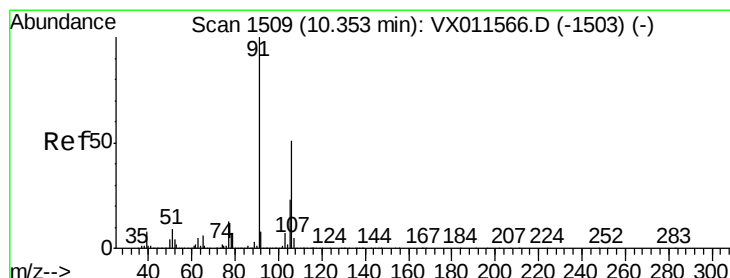
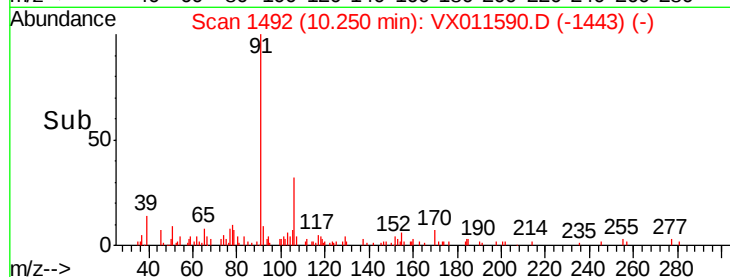
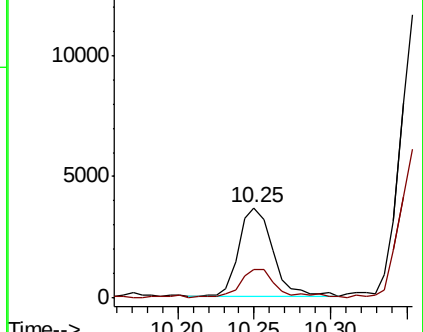
91 100

106 31.9 26.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VX011566.D (-1484) (-)

Ion 106.00 (105.70 to 106.70): VX011590.D (-1443) (-)



#68

m/p-Xylenes

Concen: 1.179 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VX011590.D

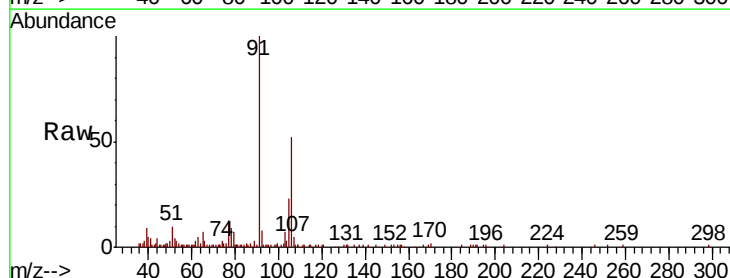
Acq: 16 Aug 2019 18:45

Tgt Ion: 106 Resp: 9058

Ion Ratio Lower Upper

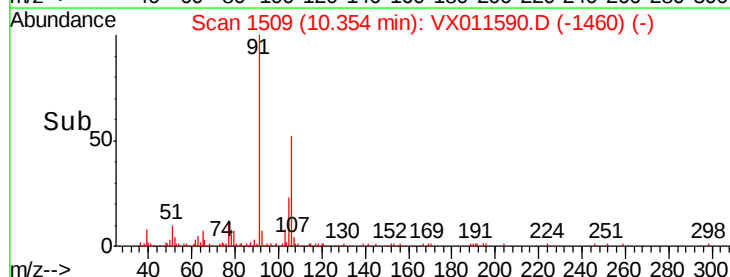
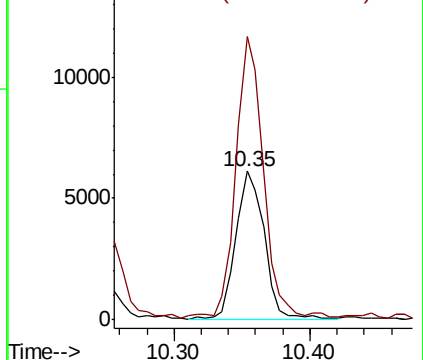
106 100

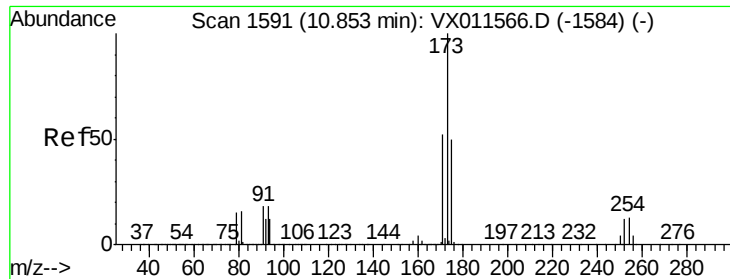
91 179.0 156.0 234.0



Abundance Ion 106.00 (105.70 to 106.70): VX011566.D (-1503) (-)

Ion 91.00 (90.70 to 91.70): VX011590.D (-1460) (-)





#71

Bromoform

Concen: 3.307 ug/l

RT: 10.73 min Scan# 1570

Delta R.T. -0.13 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

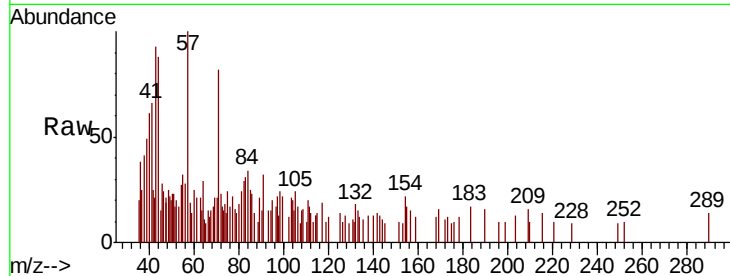
Tgt Ion:173 Resp: 72

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.7#

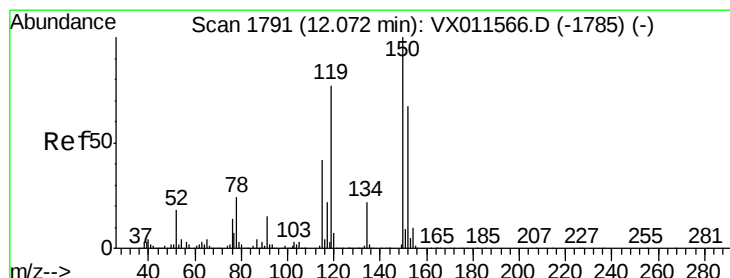
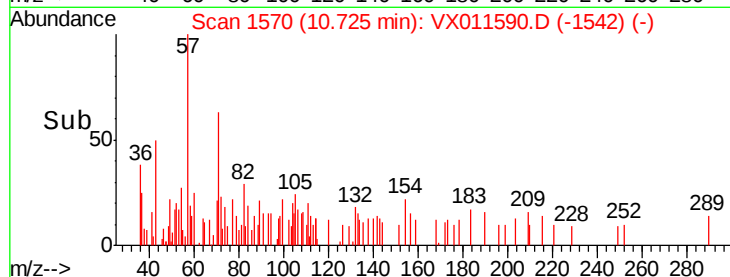
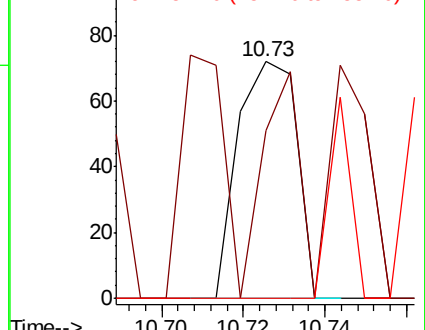
254 30.6 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

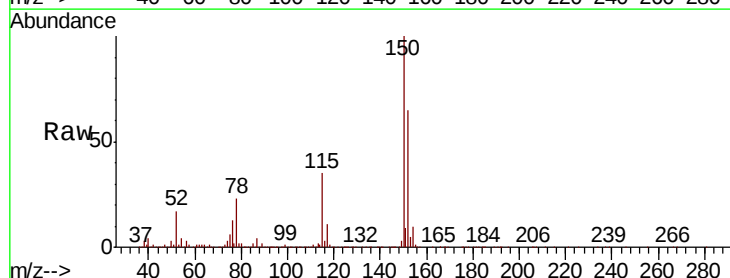
Tgt Ion:152 Resp: 289208

Ion Ratio Lower Upper

152 100

115 54.4 37.3 111.9

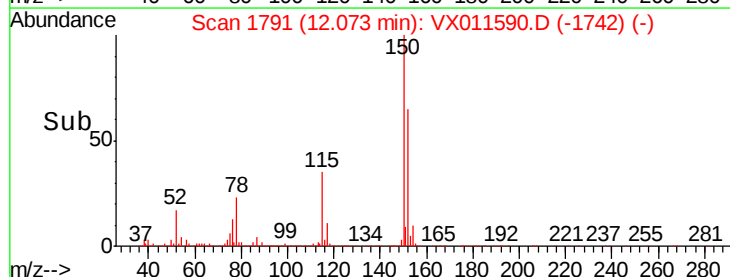
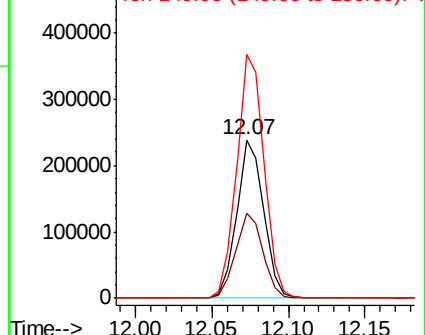
150 157.2 0.0 346.2

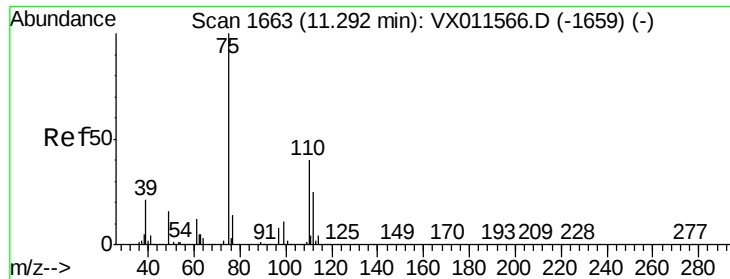


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

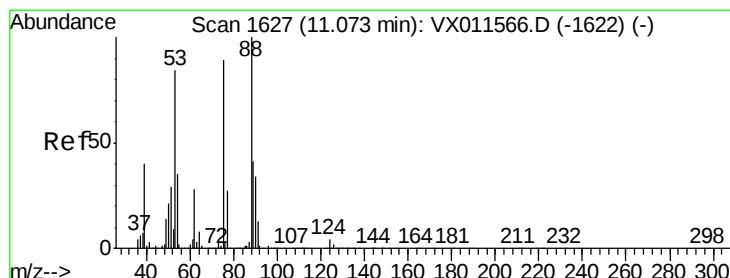
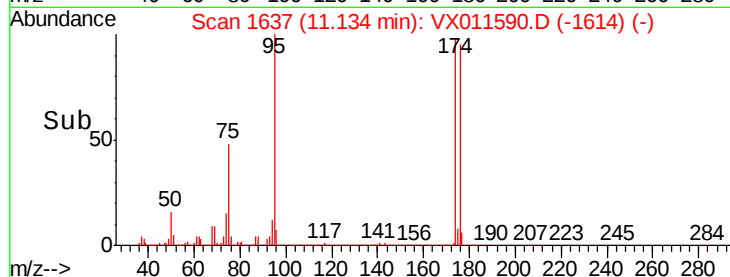
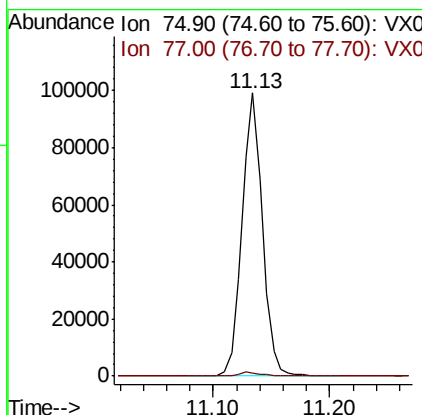
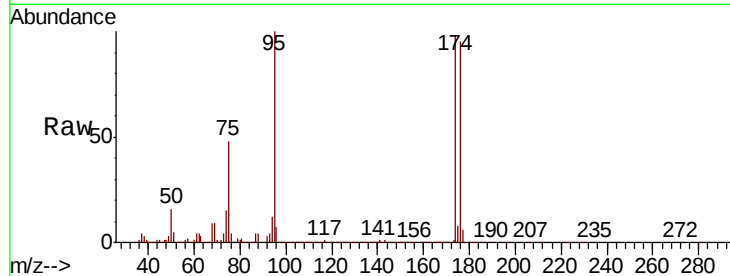




#76
 1,2,3-Trichloropropane
 Concen: 22.040 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011590.D
 Acq: 16 Aug 2019 18:45

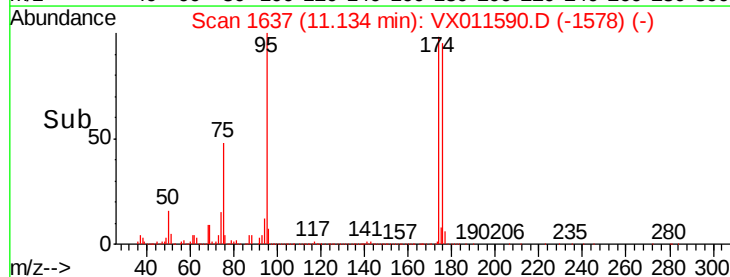
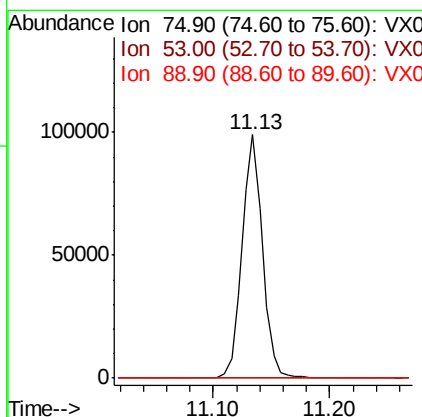
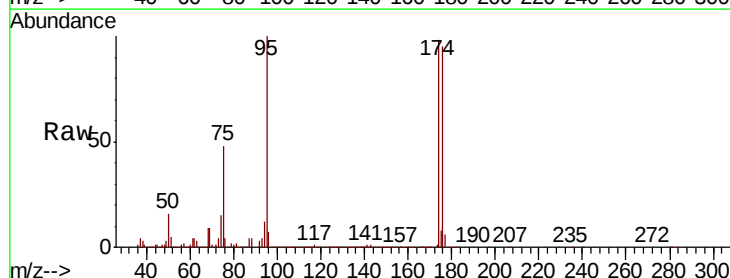
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

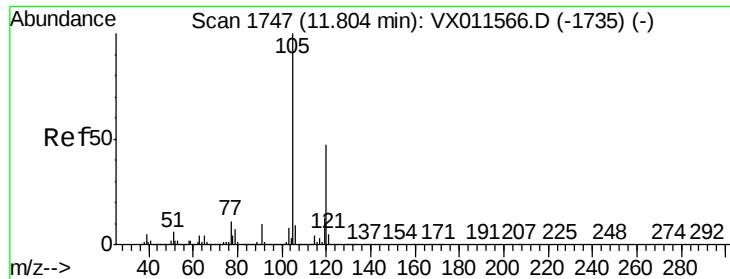
Tgt Ion: 75 Resp: 120871
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.835 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011590.D
 Acq: 16 Aug 2019 18:45

Tgt Ion: 75 Resp: 120871
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.4 116.0#
 89 0.1 37.3 55.9#





#84

1,2,4-Trimethylbenzene

Concen: 0.384 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

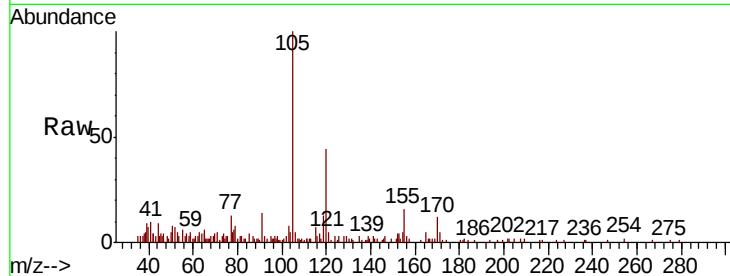
STORAGE-BLANK-WATER-REF-5

Tgt Ion:105 Resp: 6076

Ion Ratio Lower Upper

105 100

120 48.6 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.81

4000

3000

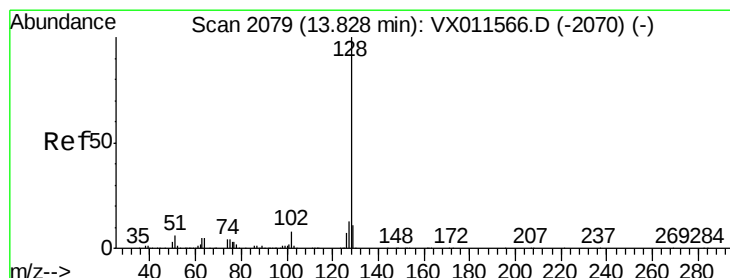
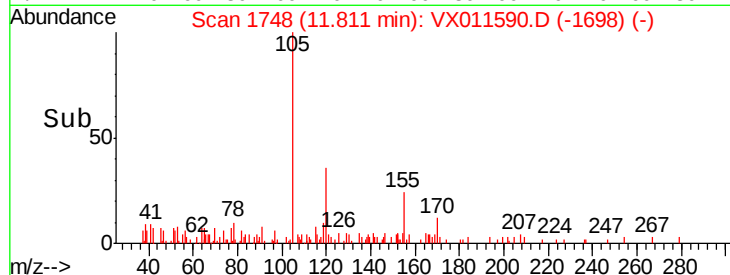
2000

1000

0

11.75 11.80 11.85

Time-->



#95

Naphthalene

Concen: 0.243 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX011590.D

Acq: 16 Aug 2019 18:45

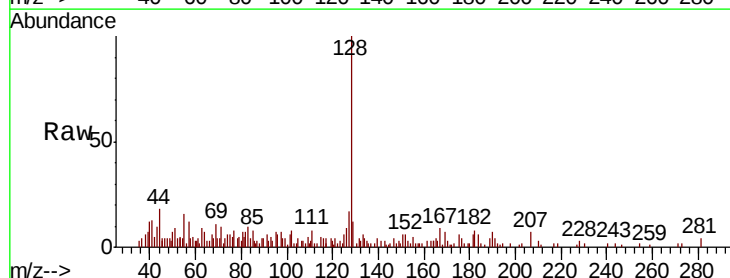
Tgt Ion:128 Resp: 4937

Ion Ratio Lower Upper

128 100

127 20.3 10.3 15.5#

129 14.5 8.7 13.1#



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

13.83

4000

3000

2000

1000

0

13.80 13.85 13.90

Time-->

