

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071719\
 Data File : VX010939.D
 Acq On : 17 Jul 2019 16:29
 Operator : JC/SP
 Sample : K3855-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW598-190716

Quant Time: Jul 18 02:30:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	214384	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	341357	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	314670	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	146802	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	113960	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
35) Dibromofluoromethane	5.50	113	105780	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
50) Toluene-d8	8.71	98	408223	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
62) 4-Bromofluorobenzene	11.13	95	142507	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	

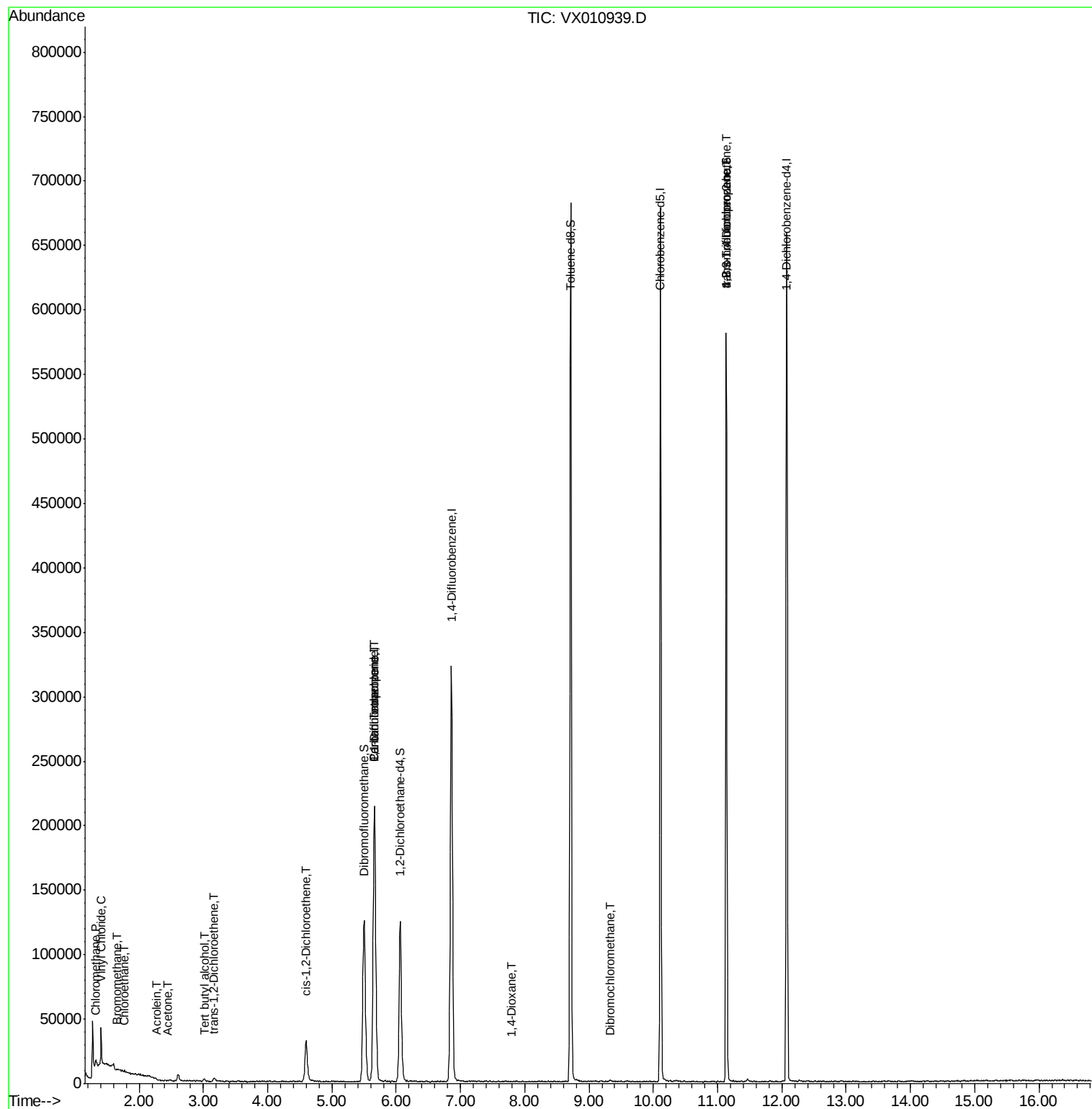
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	503	0.255	ug/l	91
4) Vinyl Chloride	1.41	62	18675	9.287	ug/l	95
5) Bromomethane	1.65	94	286	0.252	ug/l	99
6) Chloroethane	1.77	64	1444	1.130	ug/l #	50
11) Tert butyl alcohol	3.02	59	1005	1.892	ug/l	100
13) Acrolein	2.28	56	148	0.482	ug/l #	1
16) Acetone	2.44	43	1245	1.209	ug/l #	67
21) trans-1,2-Dichloroethene	3.17	96	932	0.460	ug/l #	66
27) cis-1,2-Dichloroethene	4.60	96	21082	8.990	ug/l	88
36) 1,1-Dichloropropene	5.66	75	14029	5.003	ug/l #	49
38) Carbon Tetrachloride	5.67	117	19692	6.740	ug/l #	17
49) 1,4-Dioxane	7.80	88	20	0.311	ug/l #	1
60) Dibromochloromethane	9.33	129	158	2.584	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	72334	27.305	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	72334	67.652	ug/l #	11

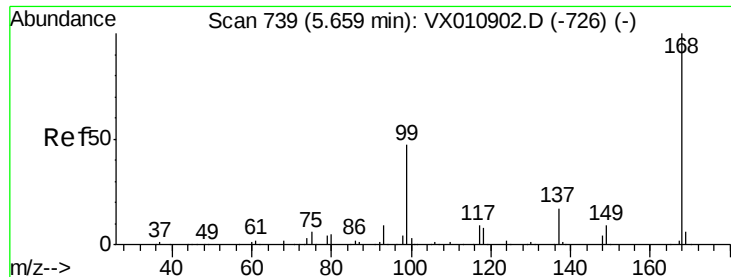
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

MSVOA_X

ClientSampleId :

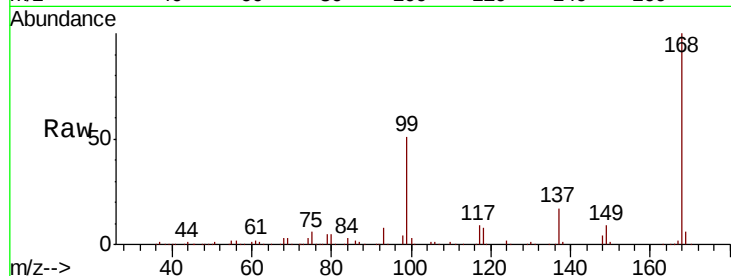
SS050MW598-190716

Tot Ion:168 Resp: 214384

Ion Ratio Lower Upper

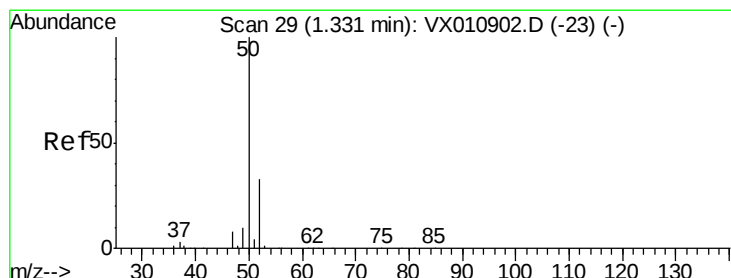
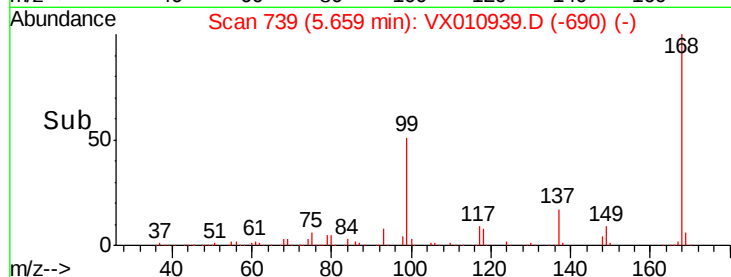
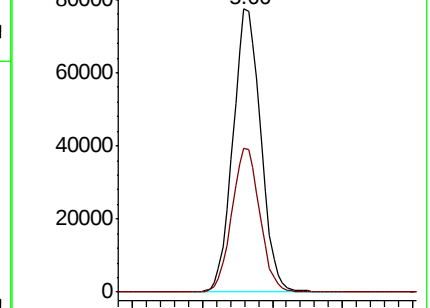
168 100

99 50.8 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.255 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX010939.D

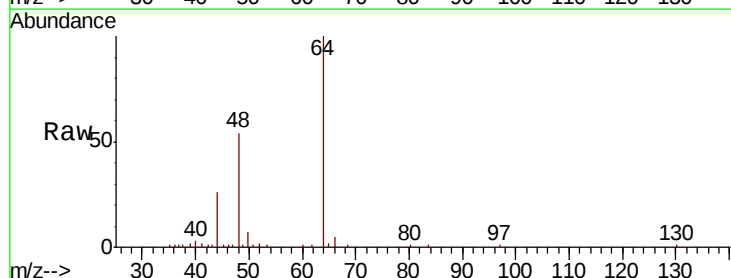
Acq: 17 Jul 2019 16:29

Tgt Ion: 50 Resp: 503

Ion Ratio Lower Upper

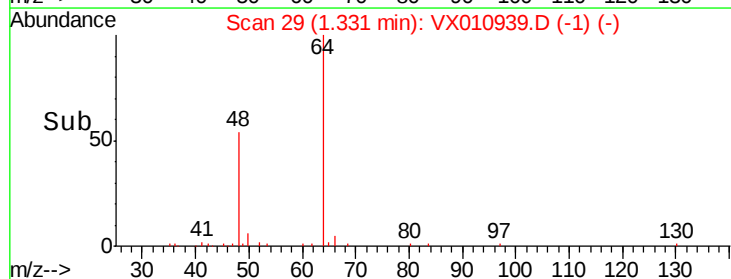
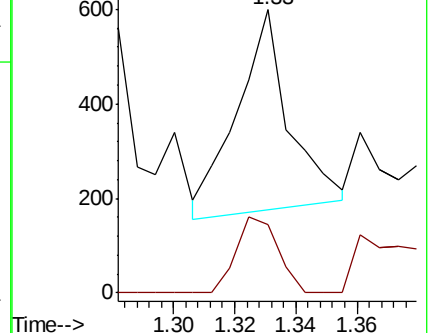
50 100

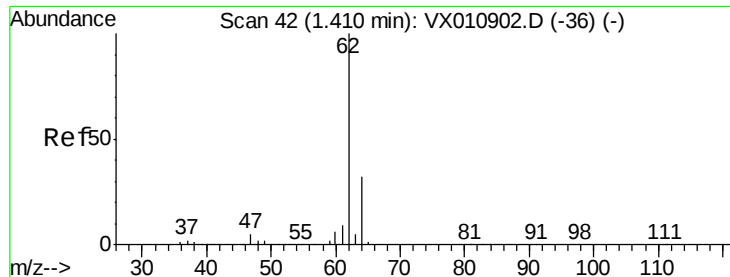
52 38.2 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 9.287 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

MSVOA_X

ClientSampleId :

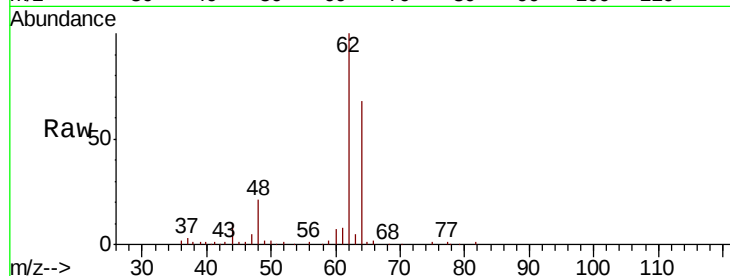
SS050MW598-190716

Tot Ion: 62 Resp: 18675

Ion Ratio Lower Upper

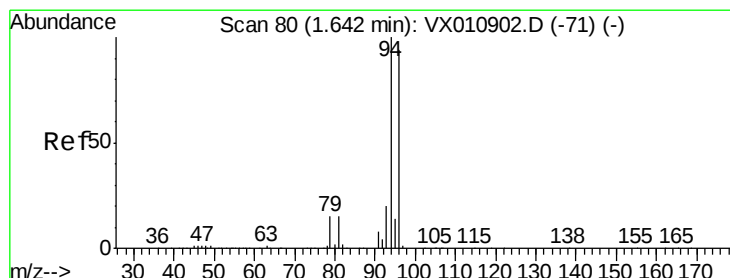
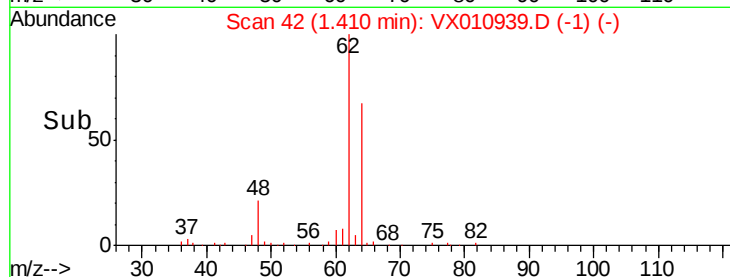
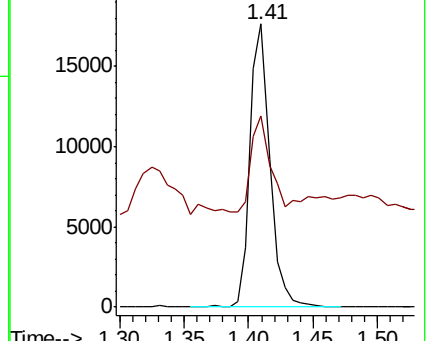
62 100

64 35.0 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.252 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX010939.D

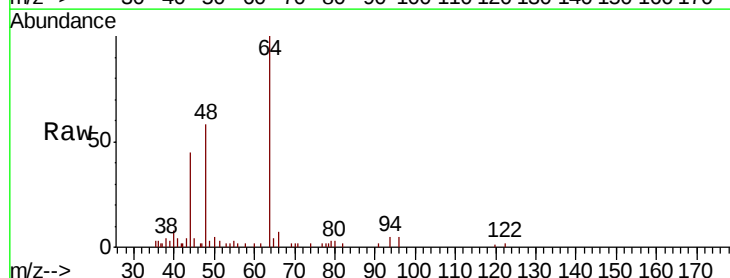
Acq: 17 Jul 2019 16:29

Tgt Ion: 94 Resp: 286

Ion Ratio Lower Upper

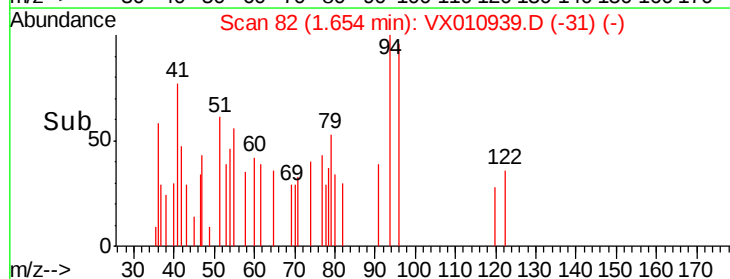
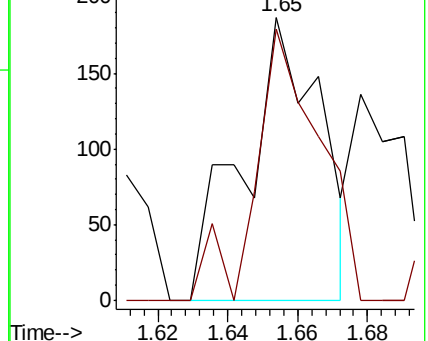
94 100

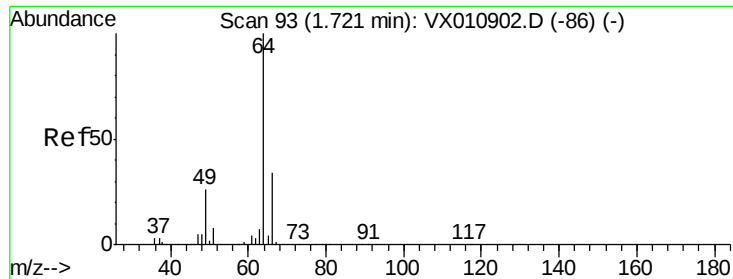
96 95.7 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.130 ug/l

RT: 1.77 min Scan# 101

Delta R.T. 0.05 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

MSVOA_X

ClientSampleId :

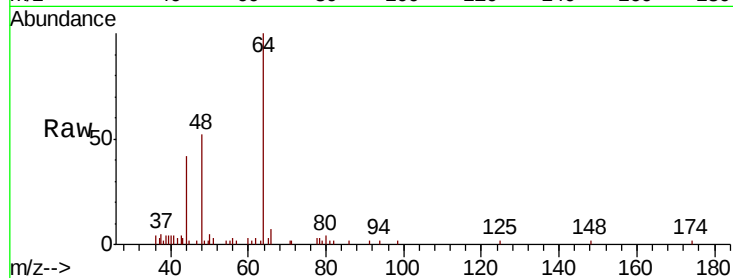
SS050MW598-190716

Tot Ion: 64 Resp: 1444

Ion Ratio Lower Upper

64 100

66 5.4 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.77

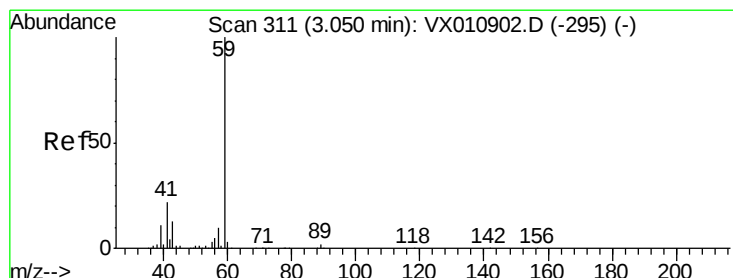
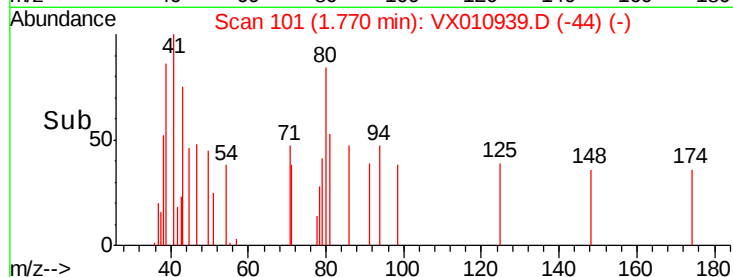
3000

2000

1000

0

Time--> 1.74 1.76 1.78 1.80 1.82



#11

Tert butyl alcohol

Concen: 1.892 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010939.D

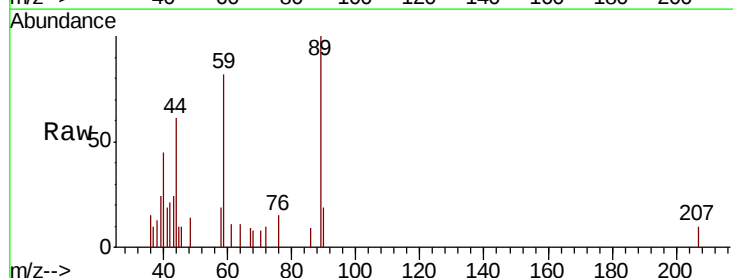
Acq: 17 Jul 2019 16:29

Tgt Ion: 59 Resp: 1005

Ion Ratio Lower Upper

59 100

57 10.0 7.9 11.9



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

600

500

400

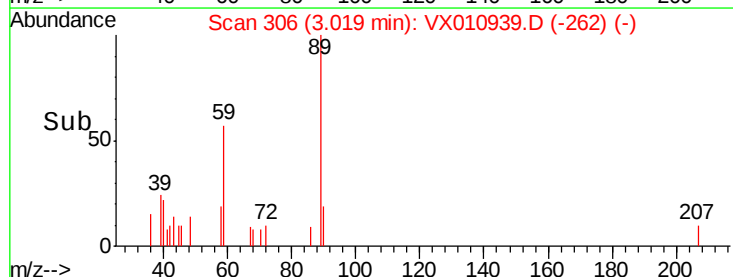
300

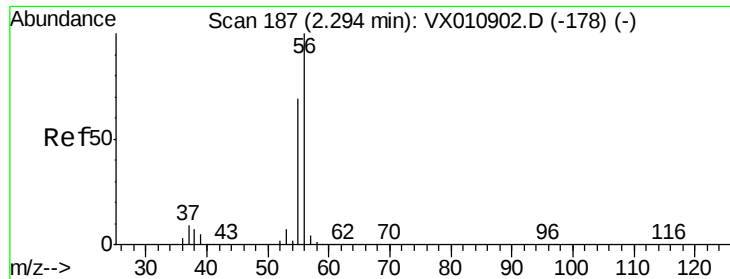
200

100

0

Time--> 2.95 3.00 3.05





#13

Acrolein

Concen: 0.482 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

MSVOA_X

ClientSampleId :

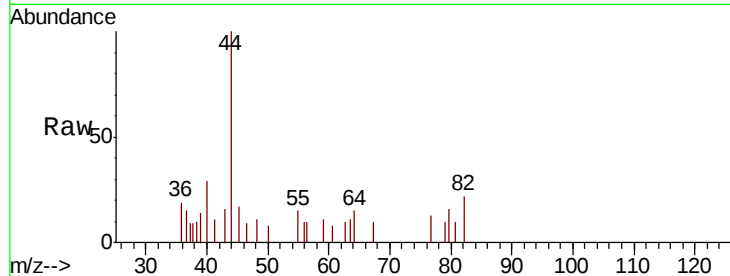
SS050MW598-190716

Tot Ion: 56 Resp: 148

Ion Ratio Lower Upper

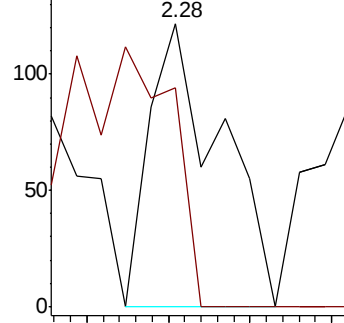
56 100

55 163.5 55.9 83.9#

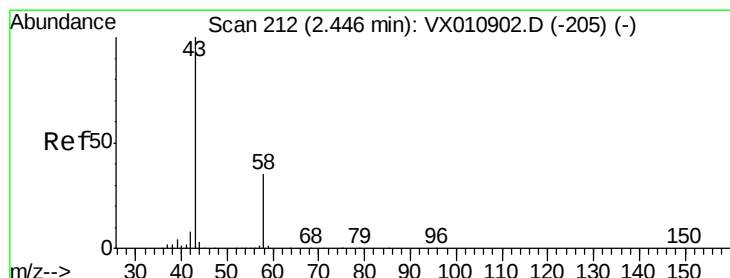
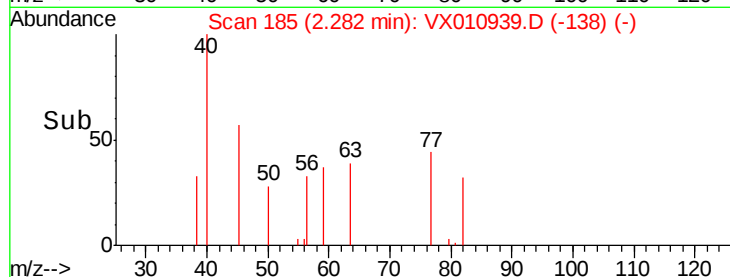


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 1.209 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010939.D

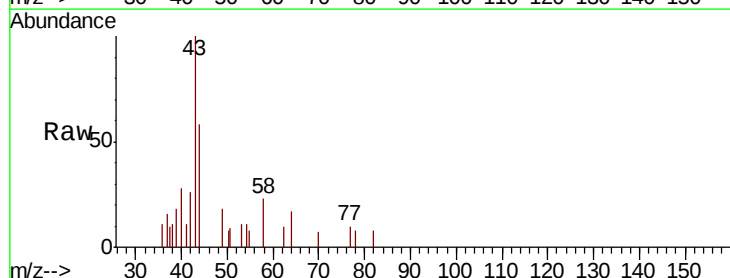
Acq: 17 Jul 2019 16:29

Tgt Ion: 43 Resp: 1245

Ion Ratio Lower Upper

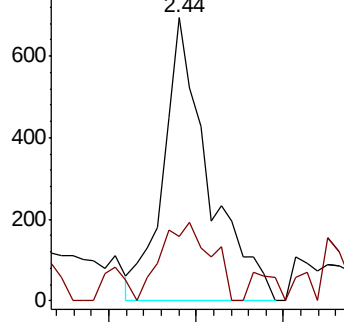
43 100

58 15.4 27.7 41.5#

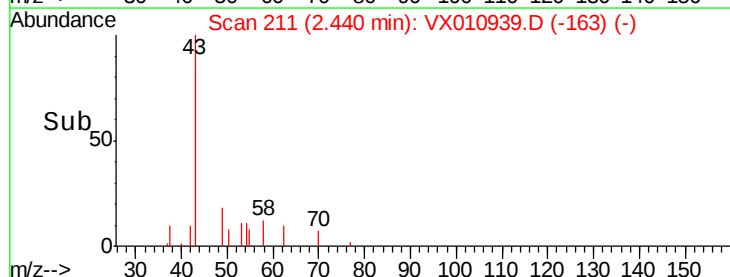


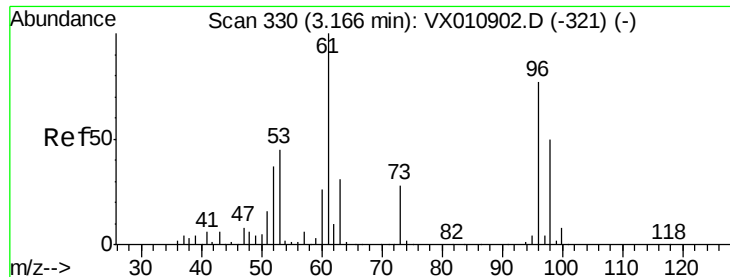
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.460 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

MSVOA_X

ClientSampleId :

SS050MW598-190716

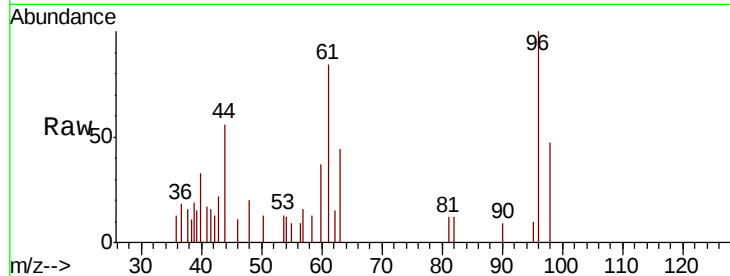
Tot Ion: 96 Resp: 932

Ion Ratio Lower Upper

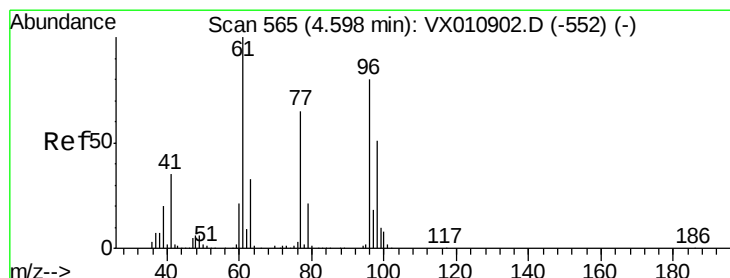
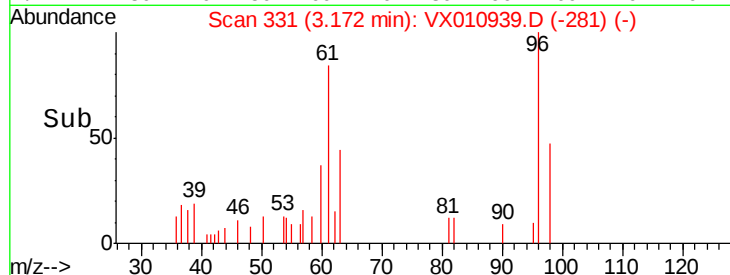
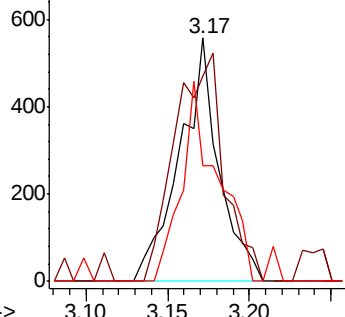
96 100

61 84.1 104.2 156.2#

98 47.3 52.2 78.4#



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 8.990 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

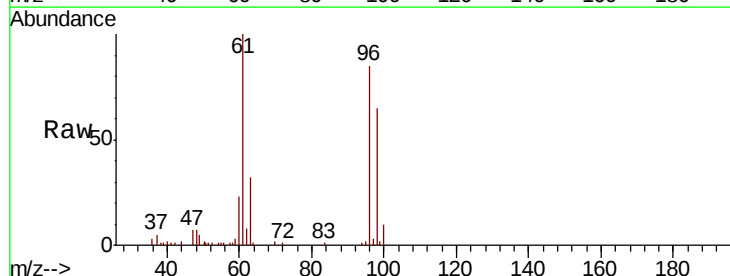
Tgt Ion: 96 Resp: 21082

Ion Ratio Lower Upper

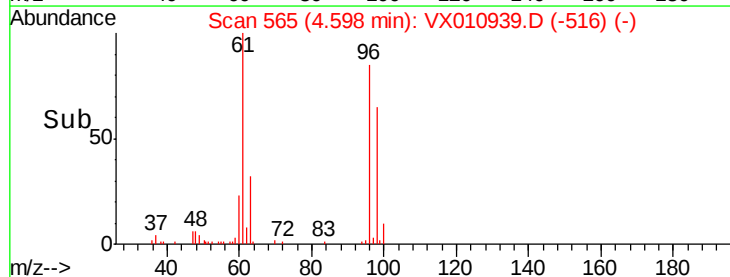
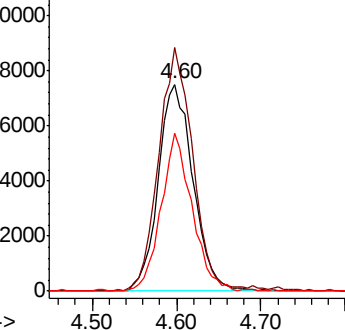
96 100

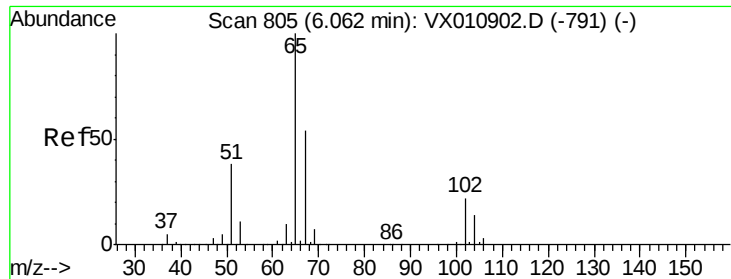
61 115.3 0.0 269.0

98 67.8 0.0 131.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.967 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

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ClientSampleId :

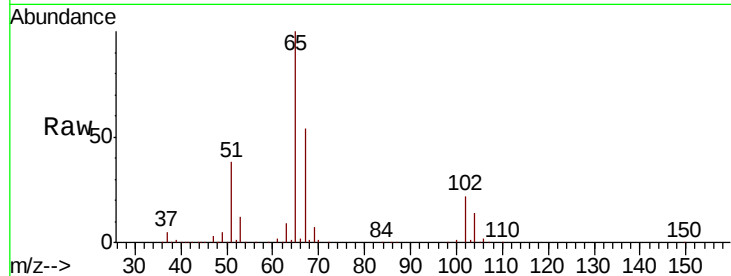
SS050MW598-190716

Tot Ion: 65 Resp: 113960

Ion Ratio Lower Upper

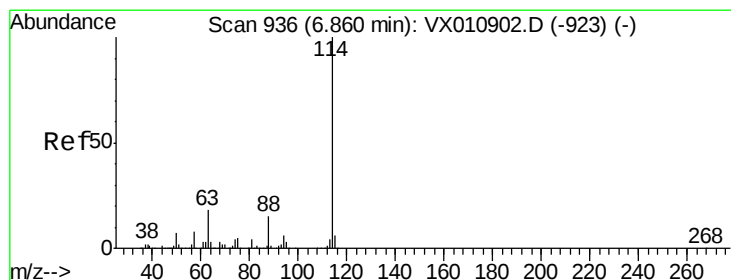
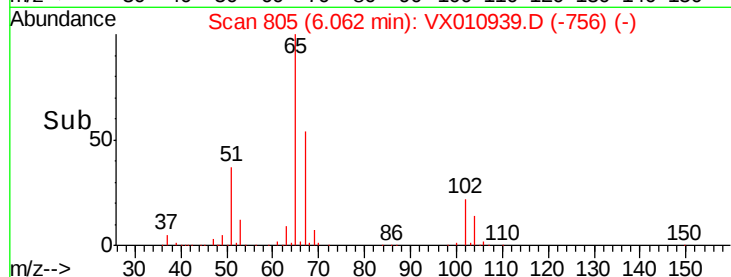
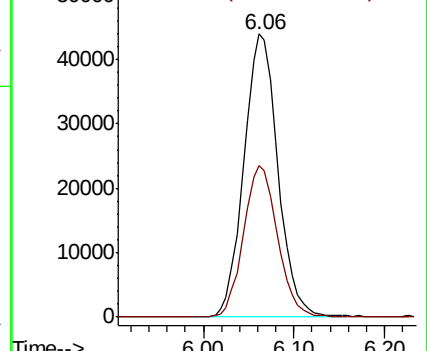
65 100

67 53.7 0.0 107.8



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: VX010939.D

Acq: 17 Jul 2019 16:29

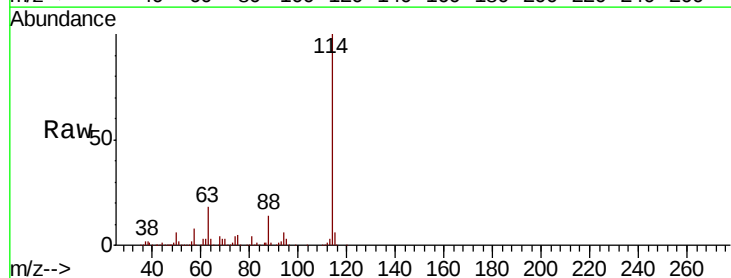
Tgt Ion: 114 Resp: 341357

Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

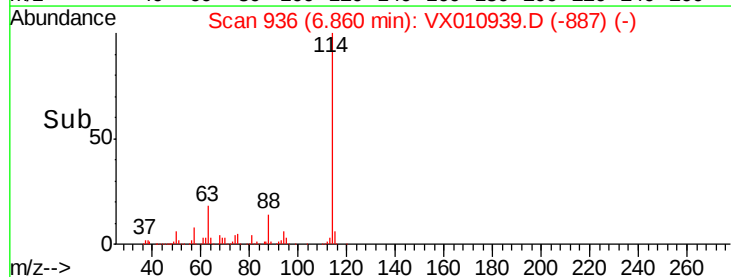
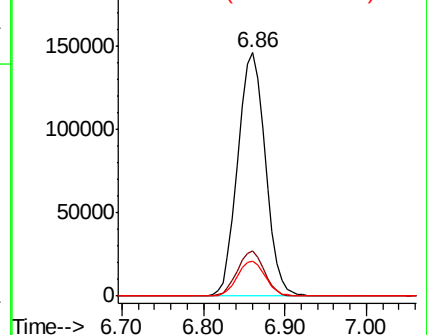
88 14.4 0.0 29.8

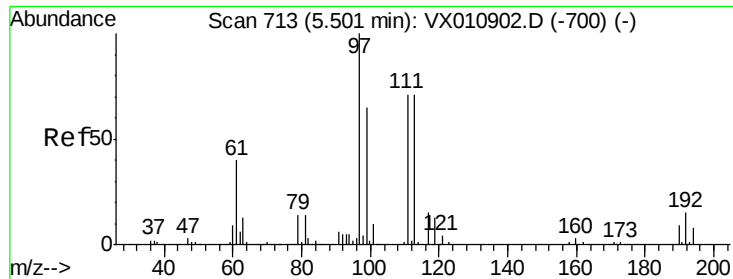


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

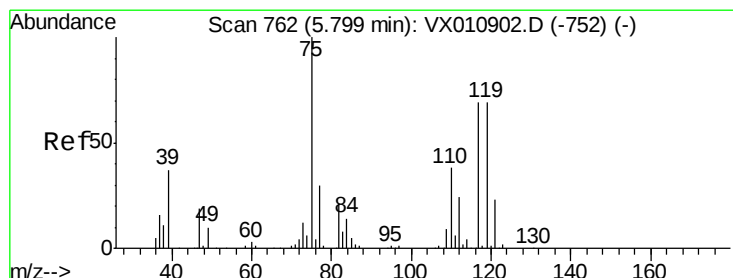
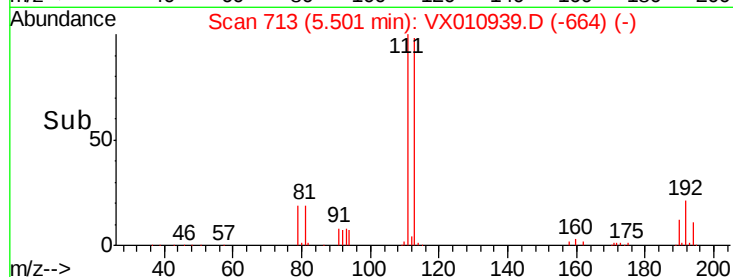
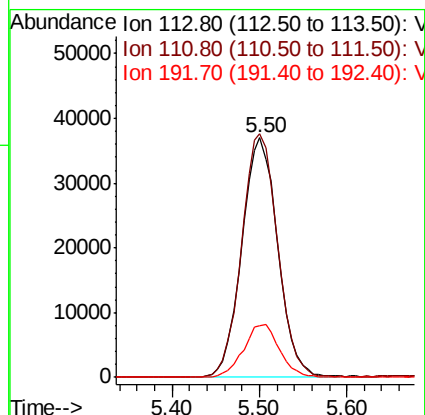
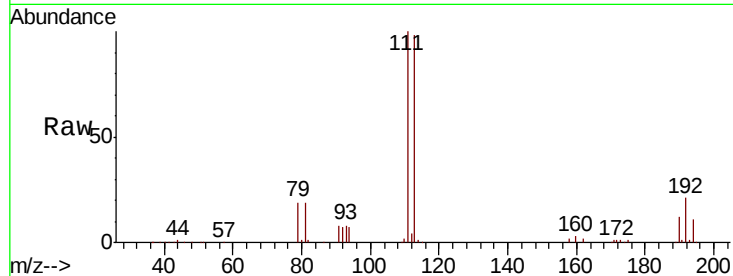




#35
 Dibromofluoromethane
 Concen: 48.822 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010939.D
 Acq: 17 Jul 2019 16:29

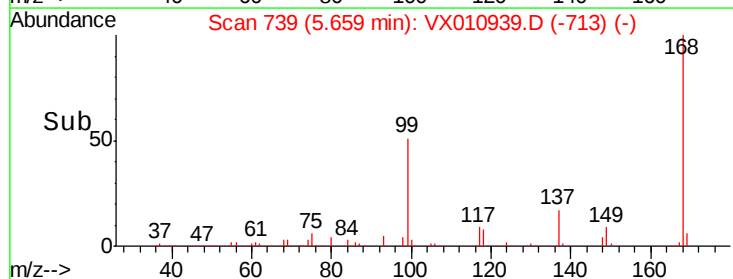
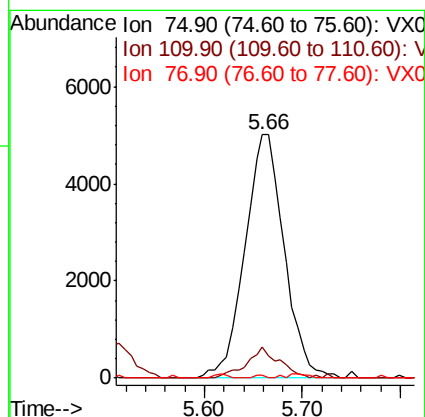
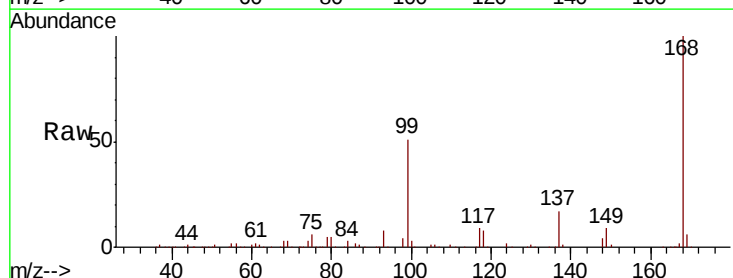
Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW598-190716

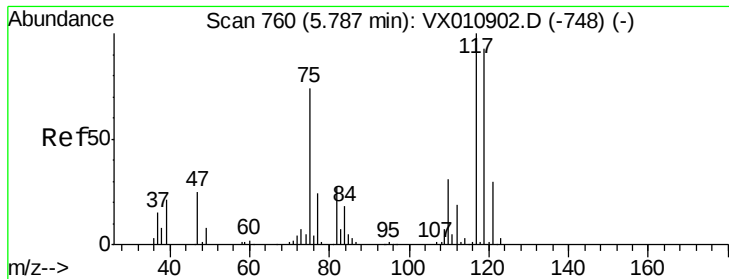
Tot Ion:113 Resp: 105780
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.3 123.5
 192 22.0 17.4 26.2



#36
 1,1-Dichloropropene
 Concen: 5.003 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010939.D
 Acq: 17 Jul 2019 16:29

Tgt Ion: 75 Resp: 14029
 Ion Ratio Lower Upper
 75 100
 110 10.4 19.9 59.7#
 77 0.3 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.740 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

MSVOA_X

ClientSampleId :

SS050MW598-190716

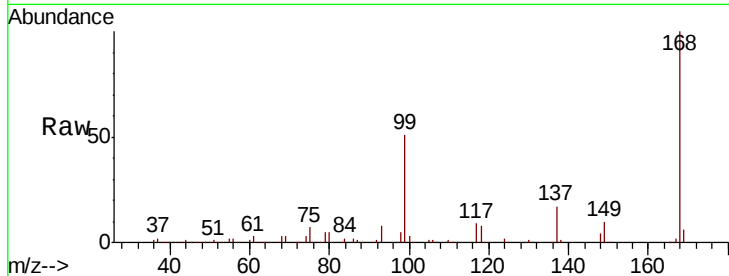
Tot Ion:117 Resp: 19692

Ion Ratio Lower Upper

117 100

119 4.8 74.2 111.2#

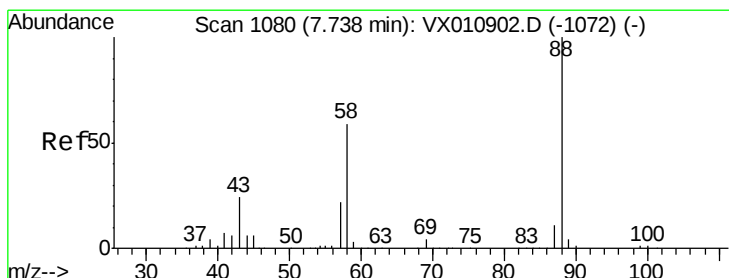
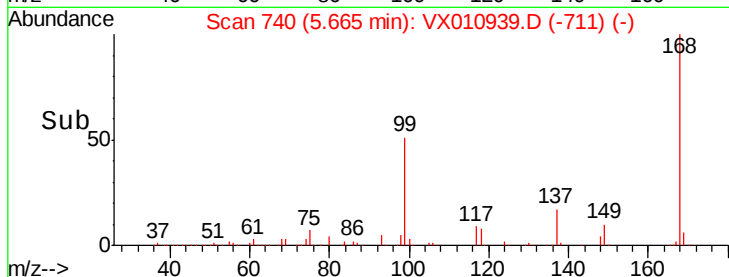
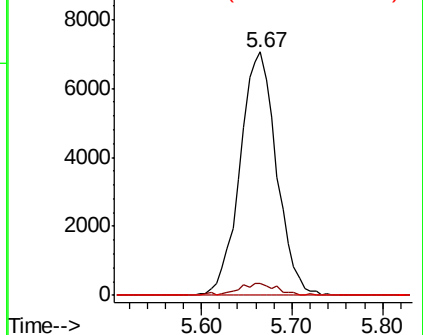
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 0.311 ug/l

RT: 7.80 min Scan# 1090

Delta R.T. 0.06 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

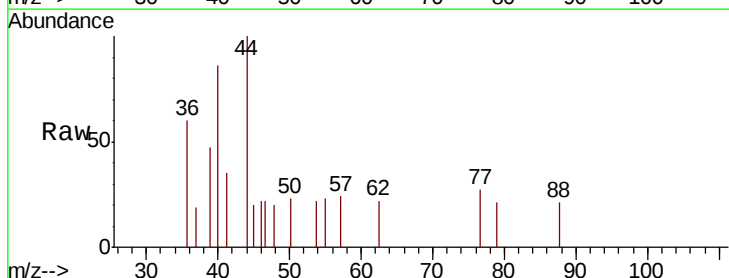
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 220.0 22.9 34.3#

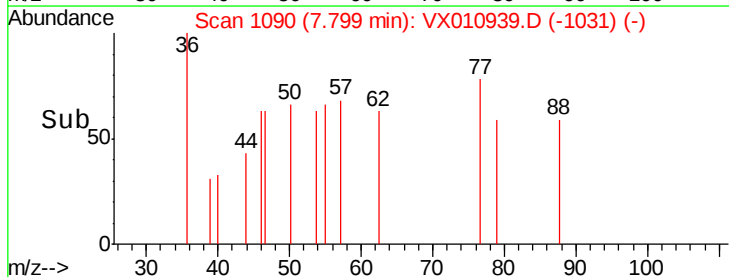
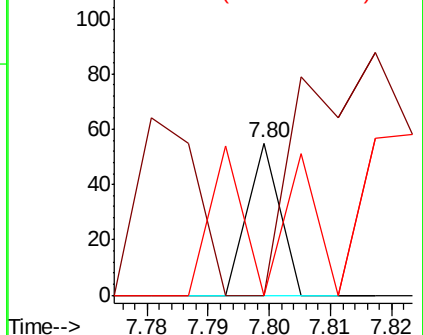
58 100.0 49.8 74.8#

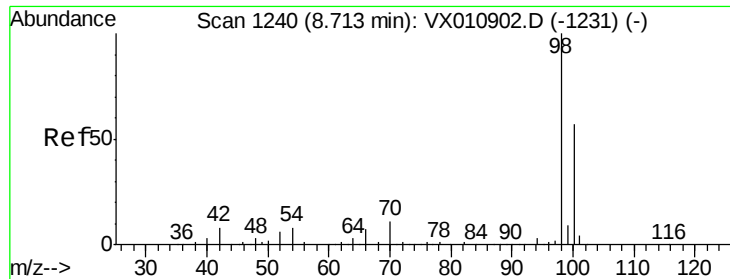


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.234 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

MSVOA_X

ClientSampleId :

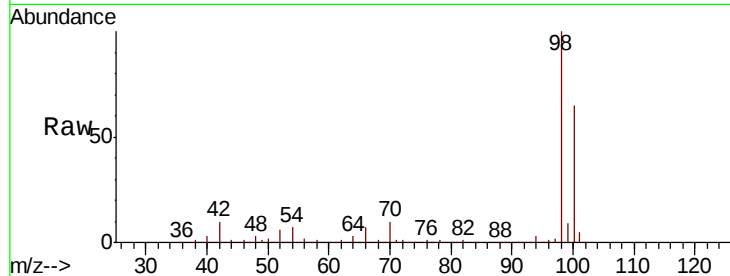
SS050MW598-190716

Tot Ion: 98 Resp: 408223

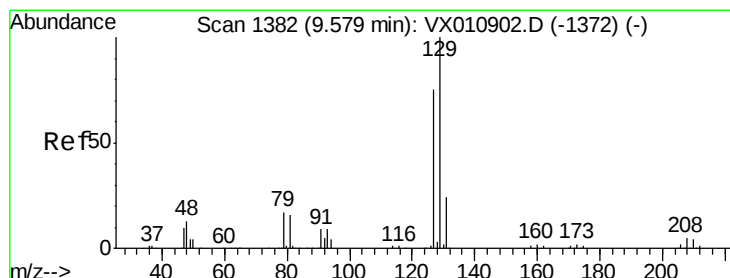
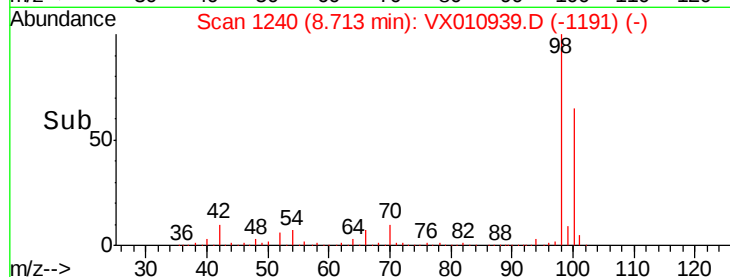
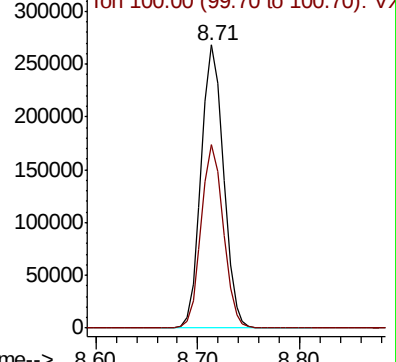
Ion Ratio Lower Upper

98 100

100 64.1 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX010902.D (-1231) (-)



#60

Dibromochloromethane

Concen: 2.584 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.25 min

Lab File: VX010939.D

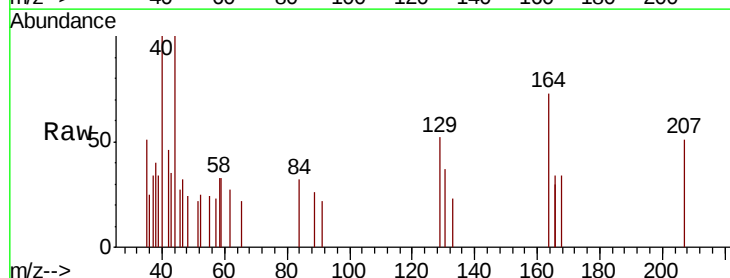
Acq: 17 Jul 2019 16:29

Tgt Ion: 129 Resp: 158

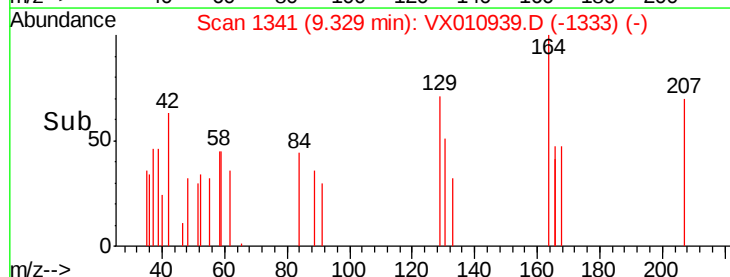
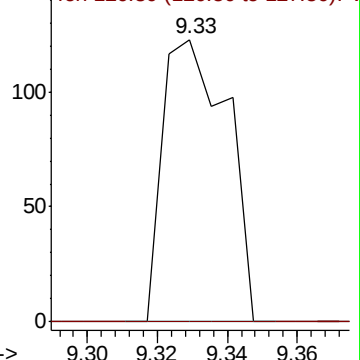
Ion Ratio Lower Upper

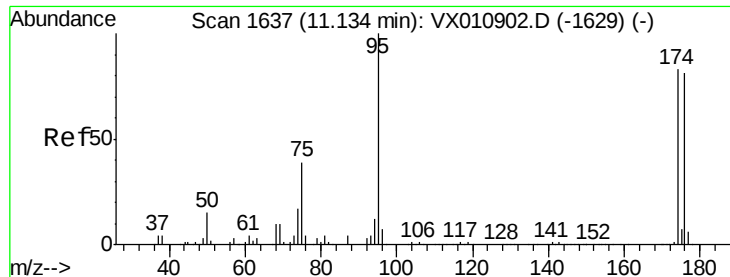
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VX010902.D (-1372) (-)





#62

4-Bromofluorobenzene

Concen: 47.709 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

MSVOA_X

ClientSampleId :

SS050MW598-190716

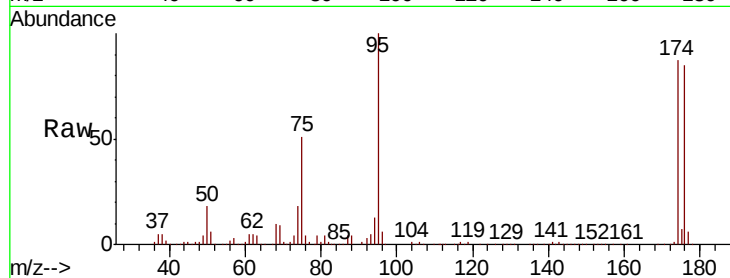
Tot Ion: 95 Resp: 142507

Ion Ratio Lower Upper

95 100

174 91.6 0.0 180.6

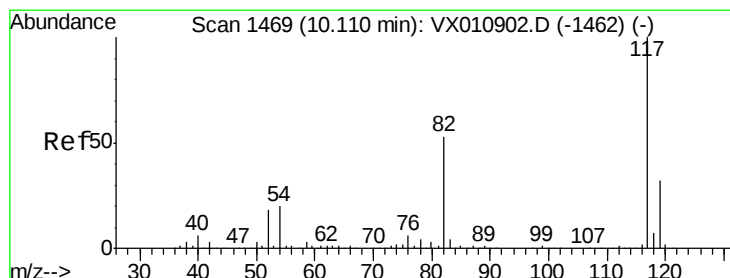
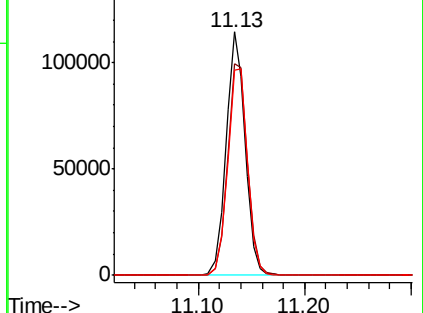
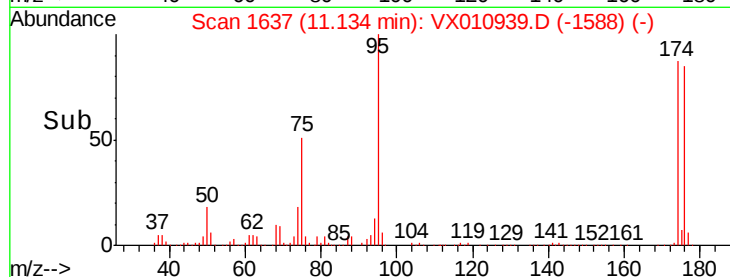
176 89.5 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX010939.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010939.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010939.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

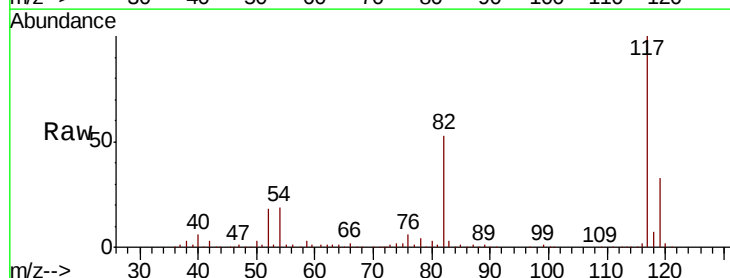
Tgt Ion: 117 Resp: 314670

Ion Ratio Lower Upper

117 100

82 52.8 42.6 63.8

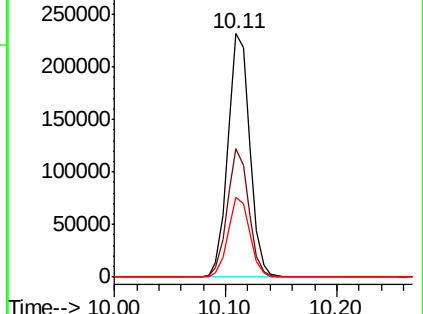
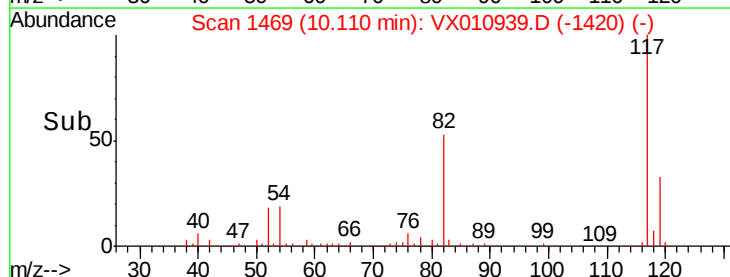
119 32.9 25.9 38.9

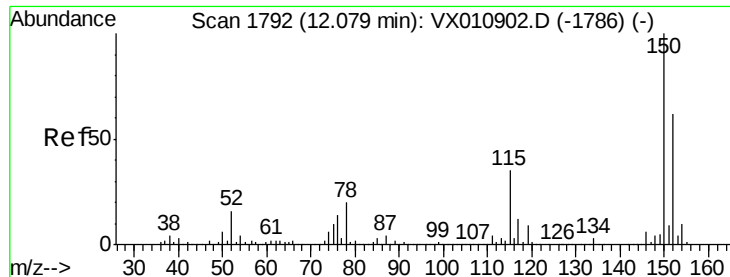


Abundance Ion 116.90 (116.60 to 117.60): VX010939.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010939.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010939.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

MSVOA_X

ClientSampleId :

SS050MW598-190716

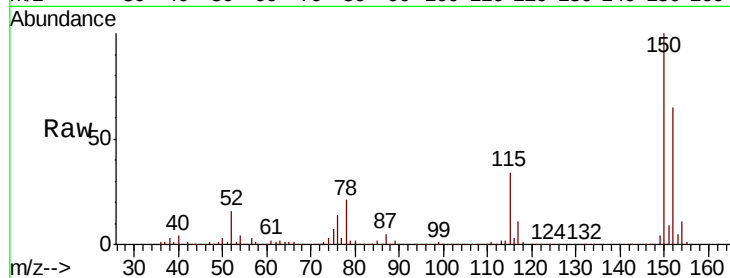
Tot Ion:152 Resp: 146802

Ion Ratio Lower Upper

152 100

115 55.0 39.7 119.1

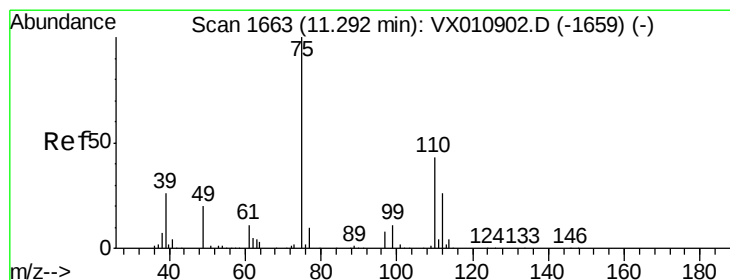
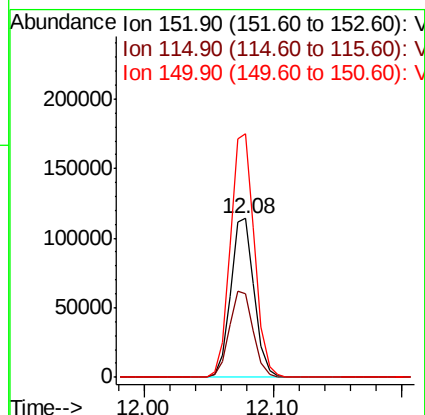
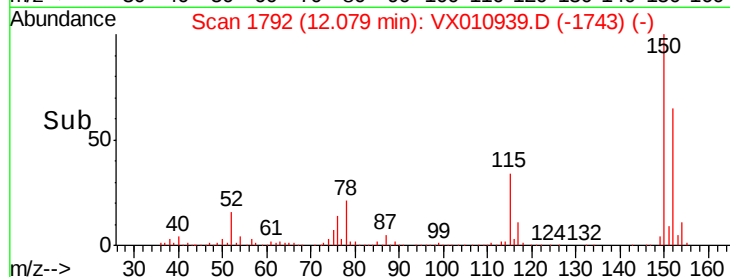
150 156.0 0.0 345.6



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: 27.305 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010939.D

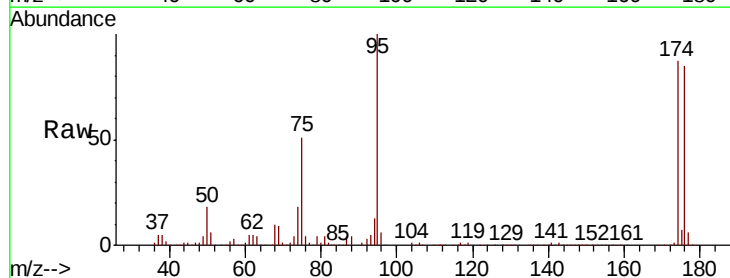
Acq: 17 Jul 2019 16:29

Tgt Ion: 75 Resp: 72334

Ion Ratio Lower Upper

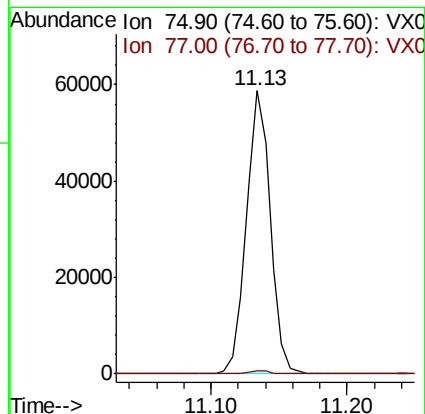
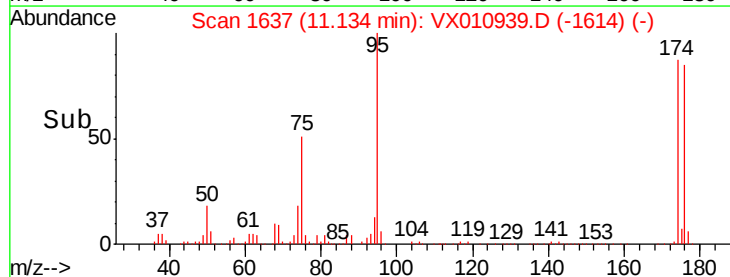
75 100

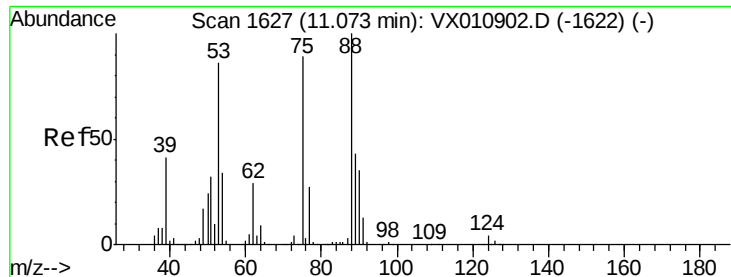
77 1.3 21.3 64.0#



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: 67.652 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010939.D

Acq: 17 Jul 2019 16:29

Instrument :

MSVOA_X

ClientSampleId :

SS050MW598-190716

Tot Ion: 75 Resp: 72334

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#

