

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX013019\
 Data File : VX007310.D
 Acq On : 30 Jan 2019 13:11
 Operator : JC/SP
 Sample : PB116701ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116701ZHE#04

Quant Time: Jan 31 00:22:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	519884	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	808559	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	786705	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	375415	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	284658	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
35) Dibromofluoromethane	5.50	113	253577	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	
50) Toluene-d8	8.71	98	990230	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	
62) 4-Bromofluorobenzene	11.13	95	348368	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	

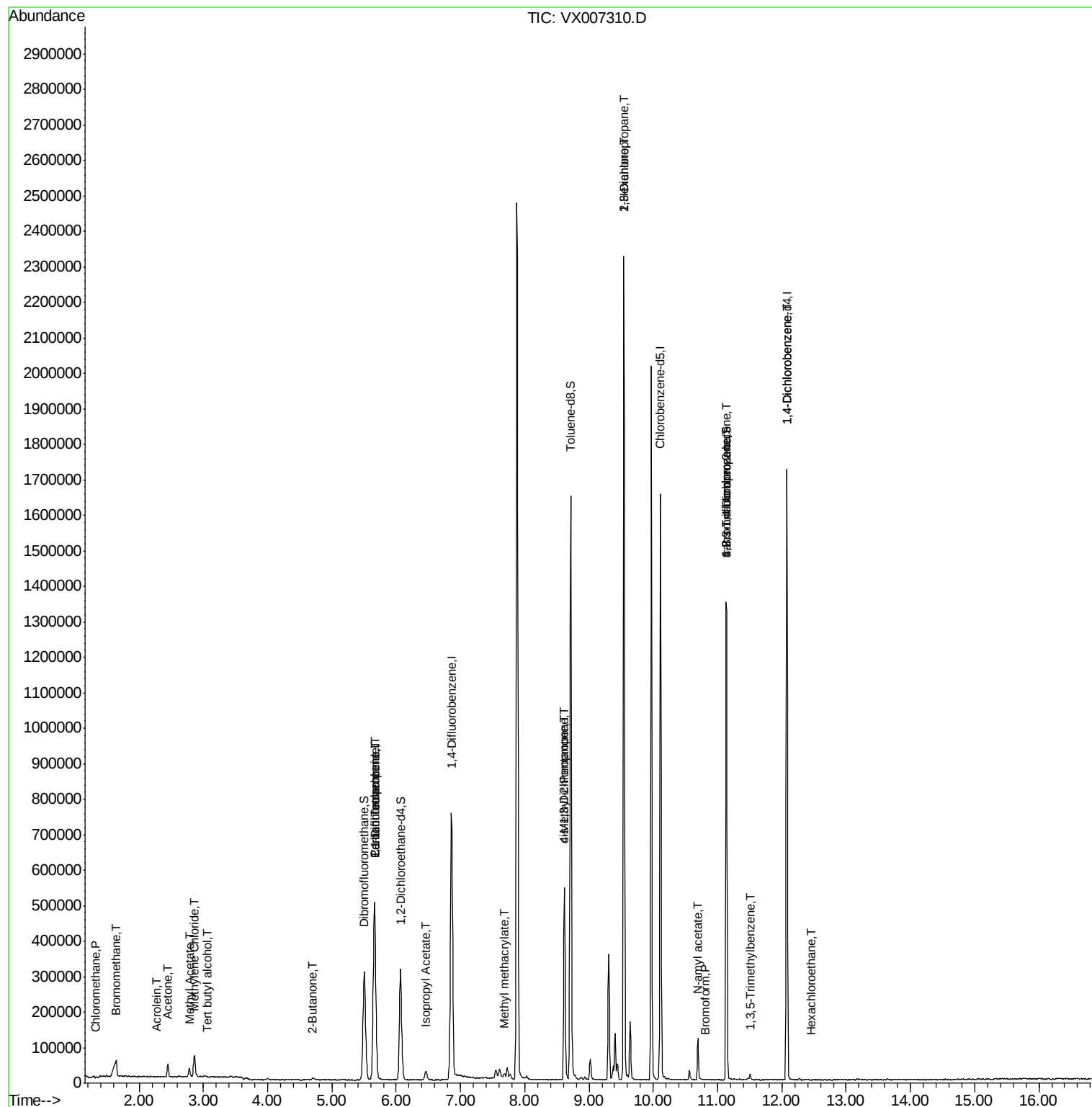
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1016	0.204	ug/l #	63
5) Bromomethane	1.64	94	1329	0.233	ug/l #	35
11) Tert butyl alcohol	3.07	59	634	0.495	ug/l #	1
13) Acrolein	2.28	56	661	4.265	ug/l #	33
16) Acetone	2.45	43	39875	14.845	ug/l	96
18) Methyl Acetate	2.78	43	30277	3.892	ug/l	96
20) Methylene Chloride	2.86	84	30846	5.534	ug/l	97
25) 2-Butanone	4.70	43	8294	2.158	ug/l	98
36) 1,1-Dichloropropene	5.67	75	34093	4.850	ug/l #	48
38) Carbon Tetrachloride	5.67	117	47298	6.687	ug/l #	15
43) Isopropyl Acetate	6.46	43	32761	2.756	ug/l	96
48) Methyl methacrylate	7.68	41	18833	3.085	ug/l #	12
49) 1,4-Dioxane	7.73	88	141	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	173734	22.740	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	88566	11.211	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	20010	2.213	ug/l #	44
59) 2-Hexanone	9.54	43	252208	43.320	ug/l #	52
71) Bromoform	10.82	173	118	4.748	ug/l #	28
74) N-amyl acetate	10.69	43	25518	2.394	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	167237	21.983	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	6733	0.304	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	167237	65.105	ug/l #	10
88) 1,4-Dichlorobenzene	12.08	146	839	0.212	ug/l #	1
90) Hexachloroethane	12.46	117	128	2.940	ug/l	75

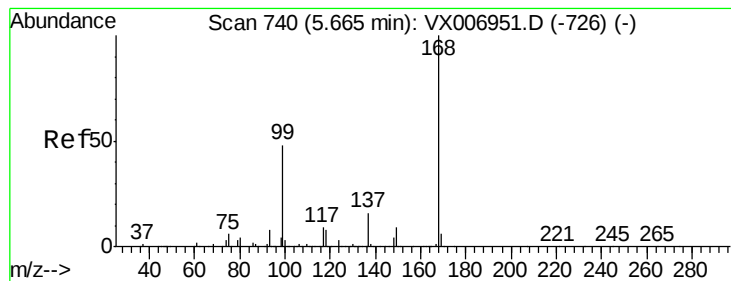
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 31 00:22:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

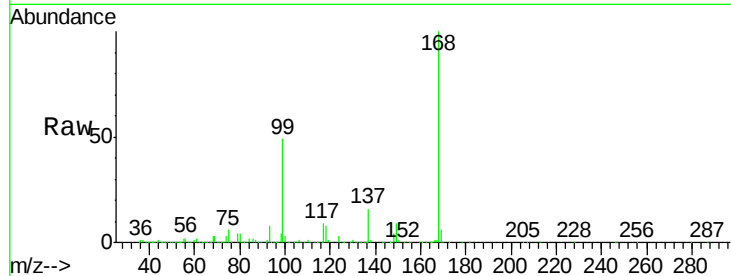
PB116701ZHE#04

Tot Ion:168 Resp: 519884

Ion Ratio Lower Upper

168 100

99 49.1 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

200000

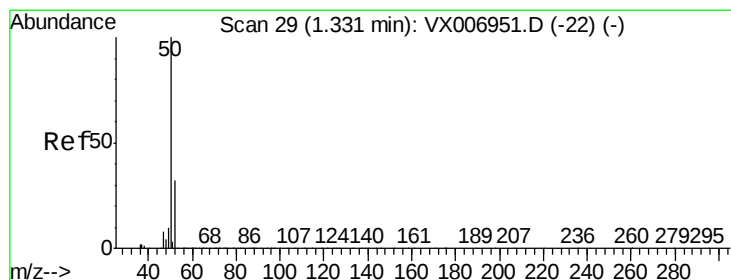
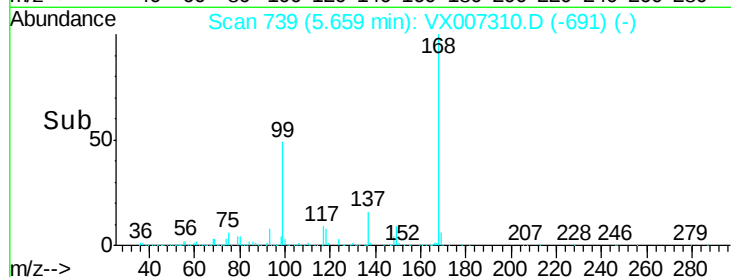
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.204 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007310.D

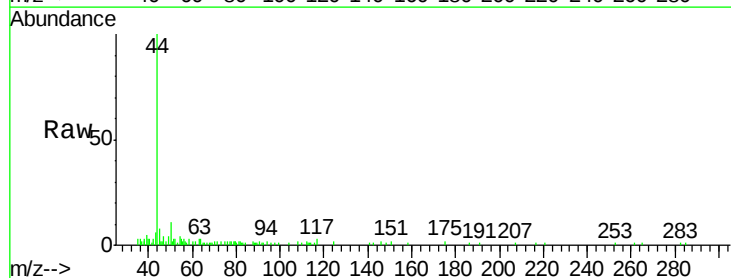
Acq: 30 Jan 2019 13:11

Tgt Ion: 50 Resp: 1016

Ion Ratio Lower Upper

50 100

52 52.6 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

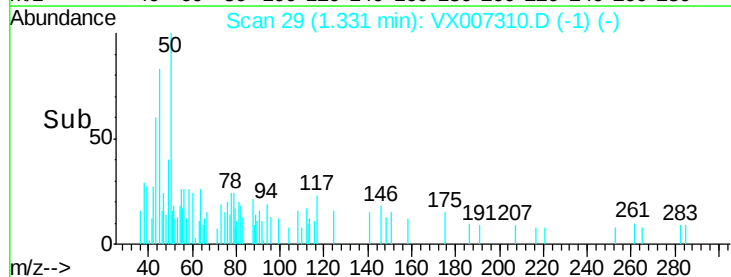
600

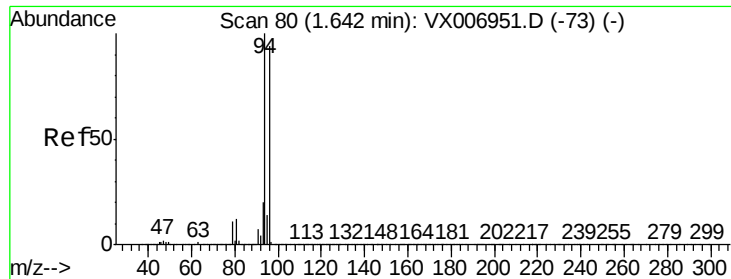
400

200

0

Time-->





#5

Bromomethane

Concen: 0.233 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

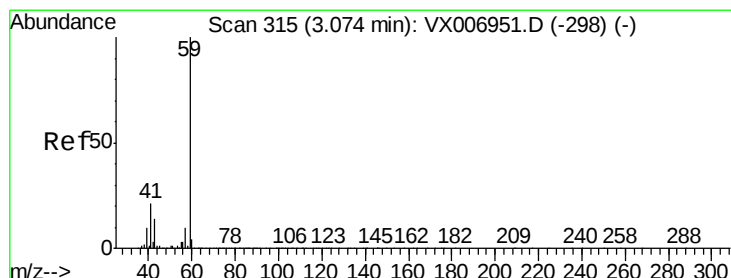
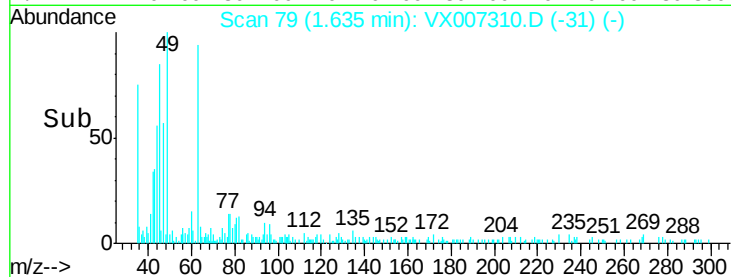
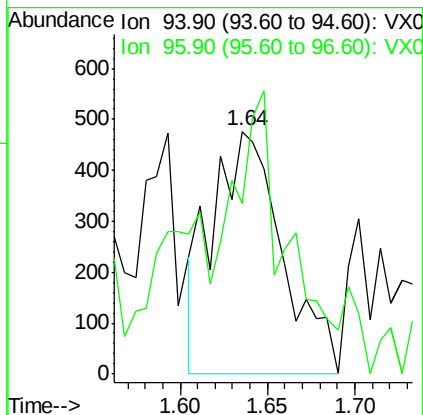
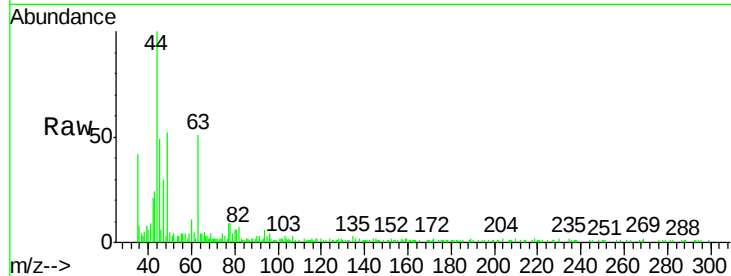
PB116701ZHE#04

Tot Ion: 94 Resp: 1329

Ion Ratio Lower Upper

94 100

96 30.0 73.4 110.2#



#11

Tert butyl alcohol

Concen: 0.495 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX007310.D

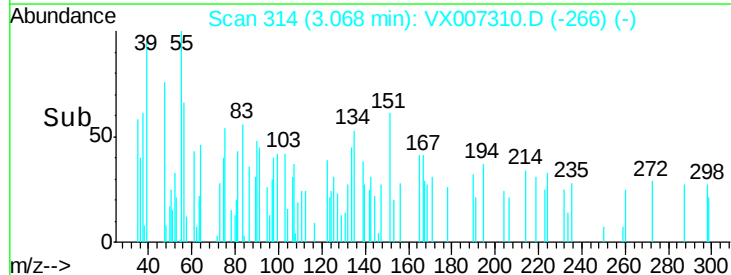
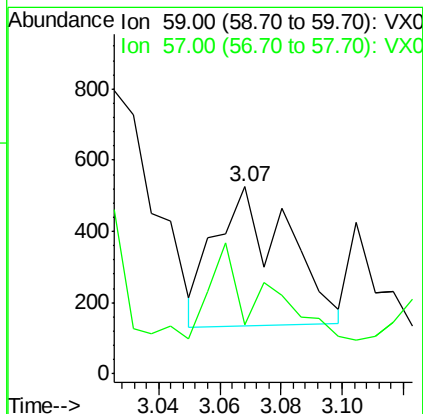
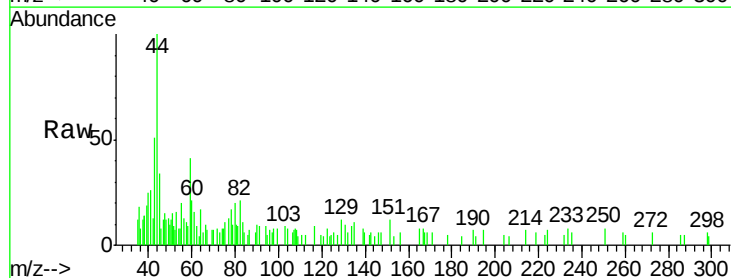
Acq: 30 Jan 2019 13:11

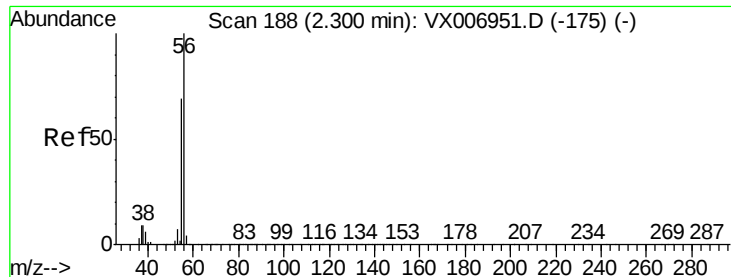
Tgt Ion: 59 Resp: 634

Ion Ratio Lower Upper

59 100

57 57.1 8.5 12.7#





#13

Acrolein

Concen: 4.265 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

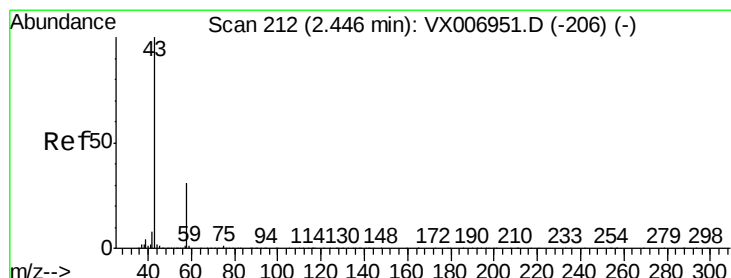
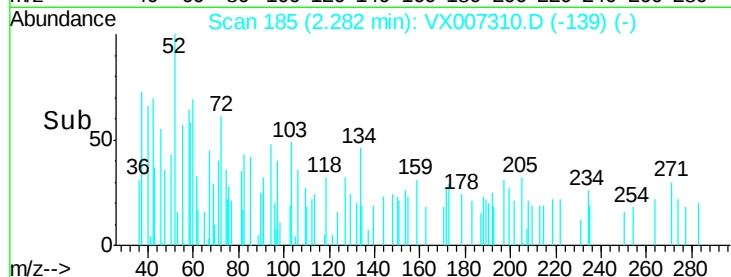
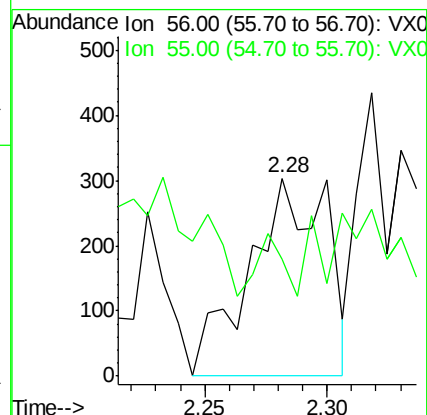
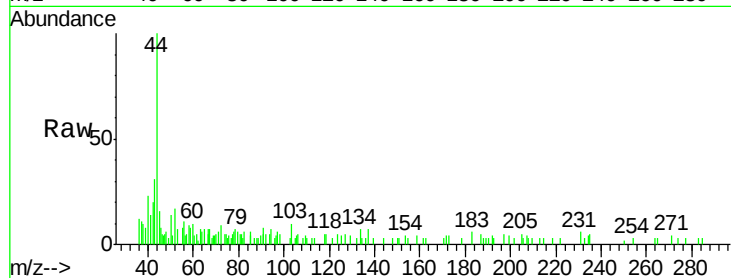
PB116701ZHE#04

Tot Ion: 56 Resp: 661

Ion Ratio Lower Upper

56 100

55 16.9 58.2 87.4#



#16

Acetone

Concen: 14.845 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007310.D

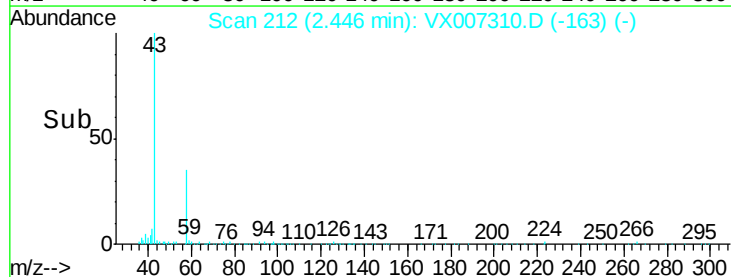
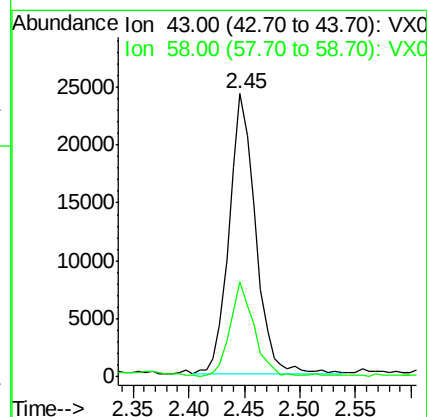
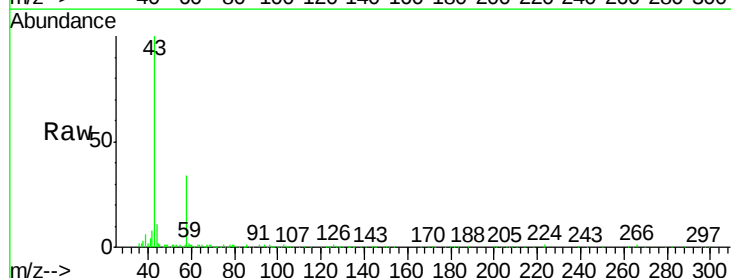
Acq: 30 Jan 2019 13:11

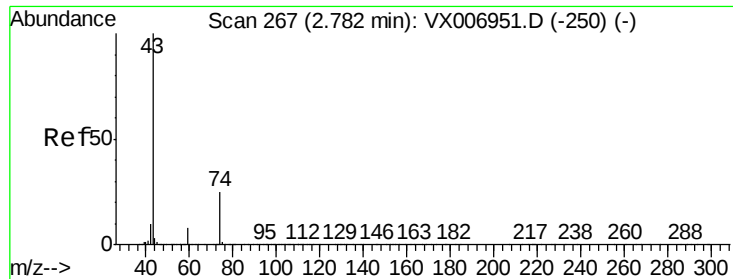
Tgt Ion: 43 Resp: 39875

Ion Ratio Lower Upper

43 100

58 33.6 25.0 37.6

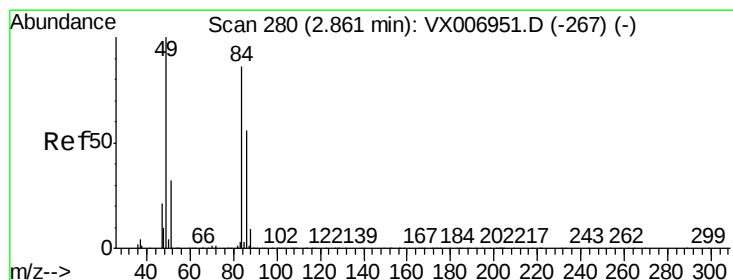
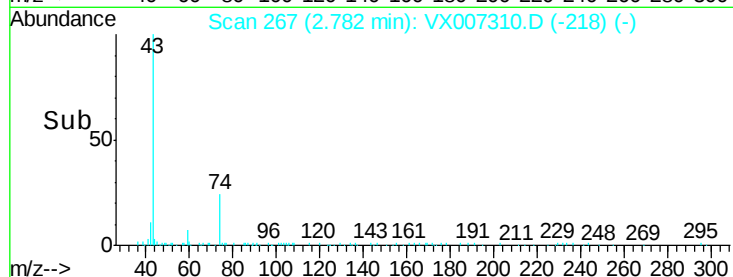
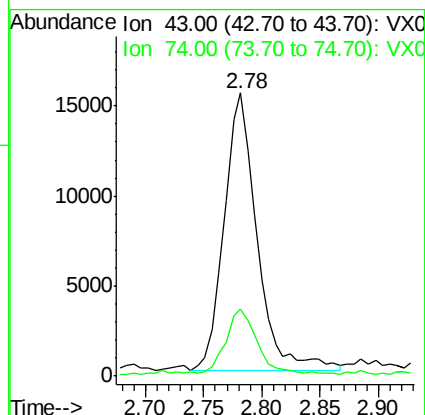
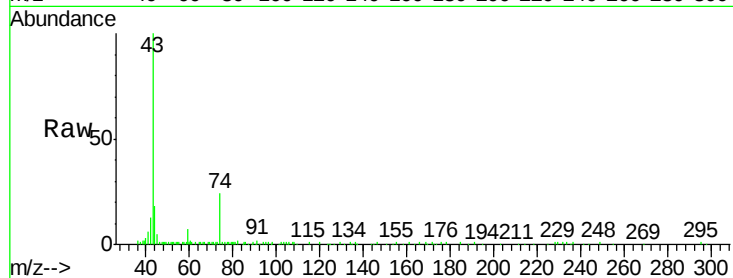




#18
Methyl Acetate
Concen: 3.892 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007310.D
Acq: 30 Jan 2019 13:11

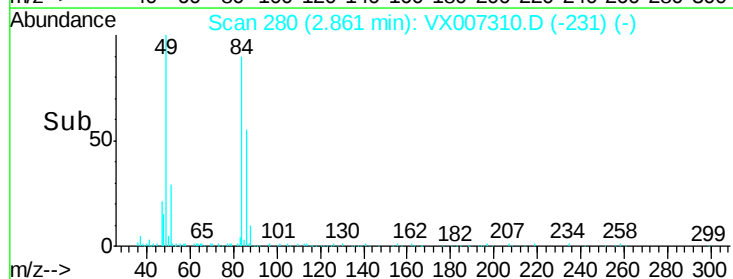
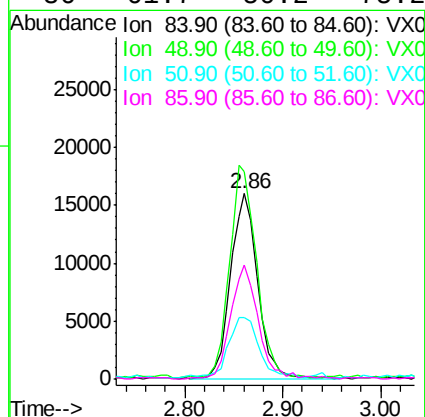
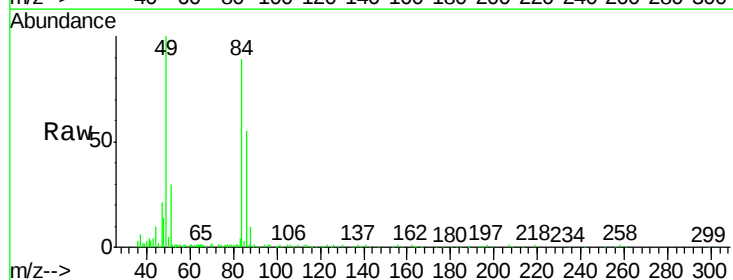
Instrument :
MSVOA_X
ClientSampleId :
PB116701ZHE#04

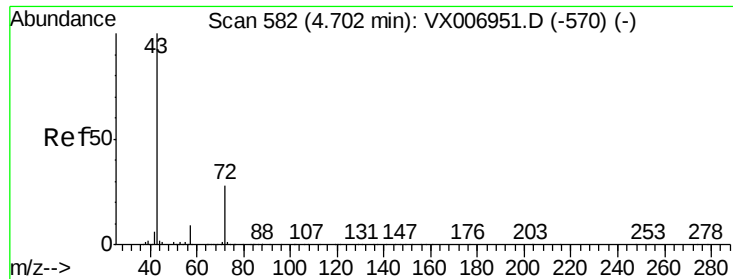
Tot Ion: 43 Resp: 30277
Ion Ratio Lower Upper
43 100
74 21.5 18.6 28.0



#20
Methylene Chloride
Concen: 5.534 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007310.D
Acq: 30 Jan 2019 13:11

Tgt Ion: 84 Resp: 30846
Ion Ratio Lower Upper
84 100
49 110.4 91.8 137.6
51 32.3 28.5 42.7
86 61.7 50.2 75.2





#25

2-Butanone

Concen: 2.158 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

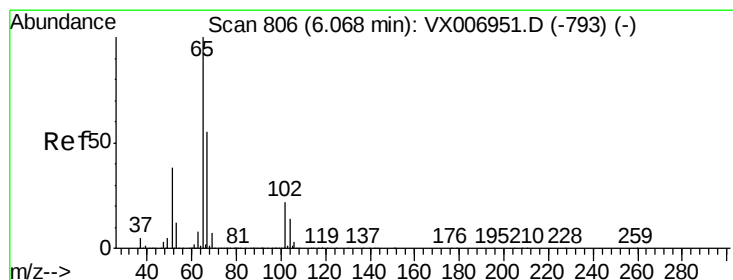
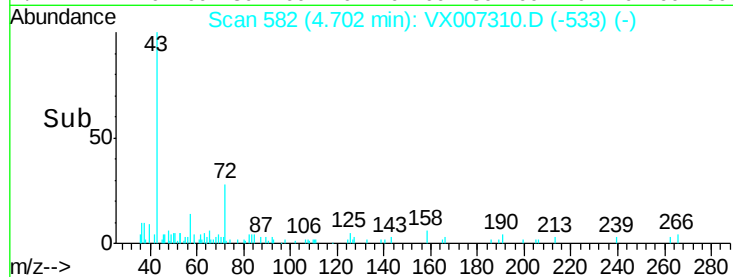
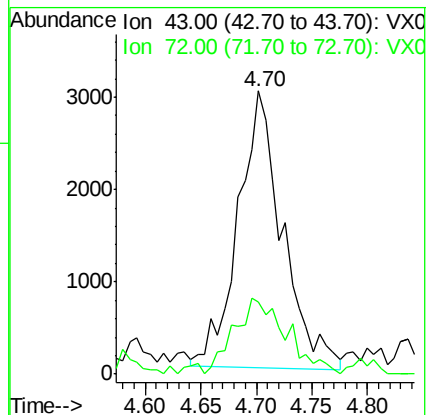
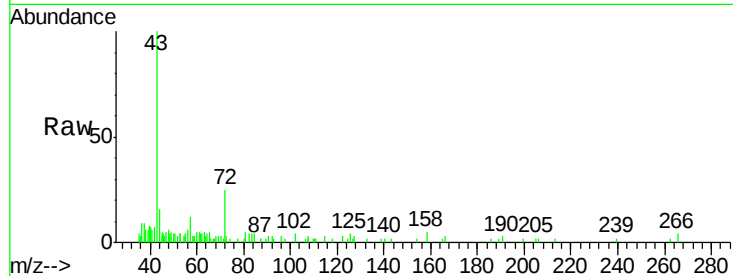
PB116701ZHE#04

Tot Ion: 43 Resp: 8294

Ion Ratio Lower Upper

43 100

72 26.7 22.4 33.6



#33

1,2-Dichloroethane-d4

Concen: 52.392 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007310.D

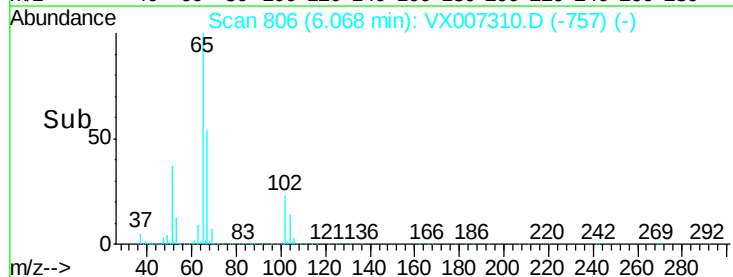
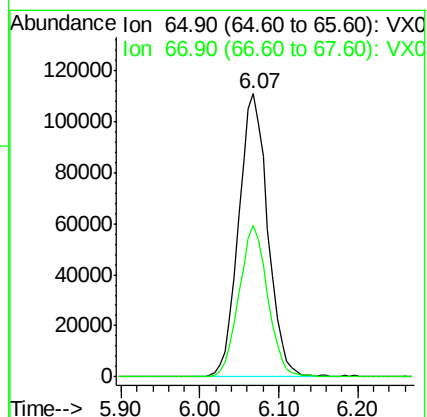
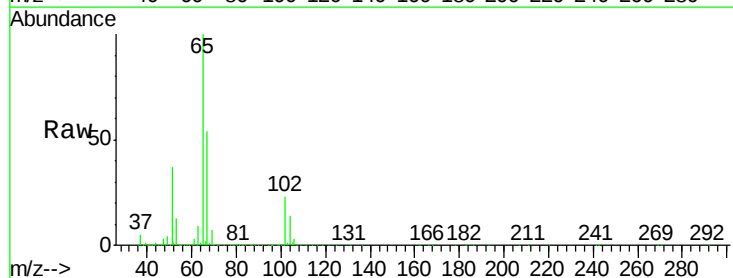
Acq: 30 Jan 2019 13:11

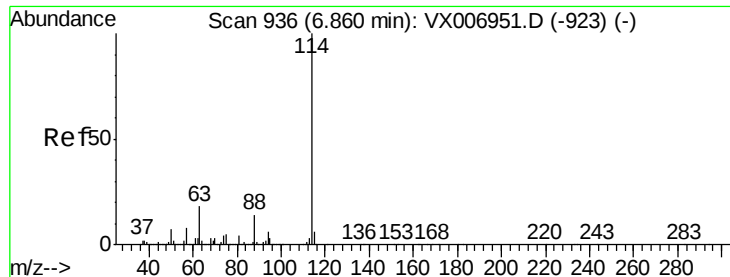
Tgt Ion: 65 Resp: 284658

Ion Ratio Lower Upper

65 100

67 52.7 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#04

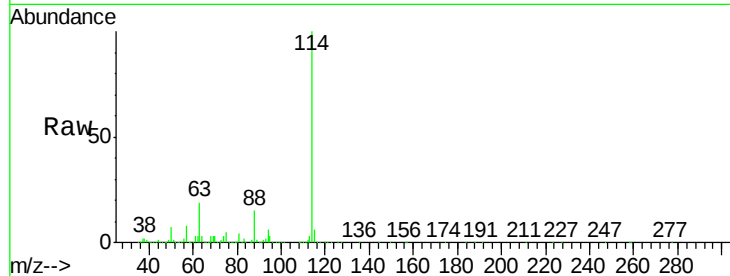
Tot Ion:114 Resp: 808559

Ion Ratio Lower Upper

114 100

63 19.1 0.0 34.8

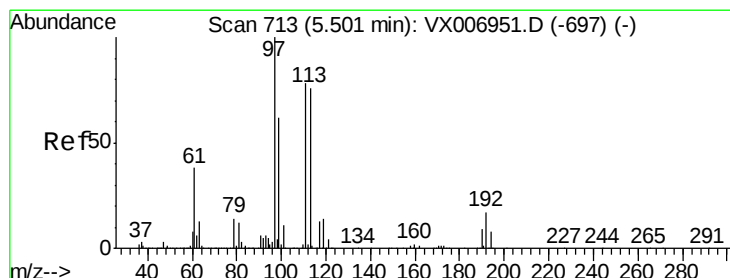
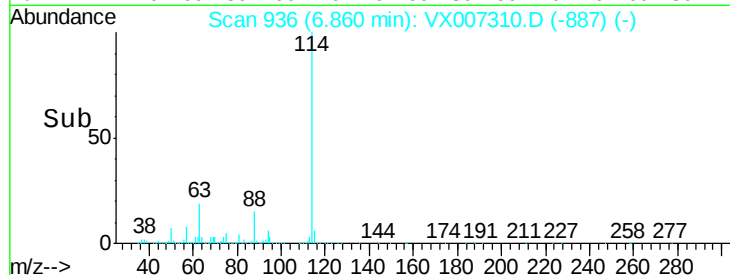
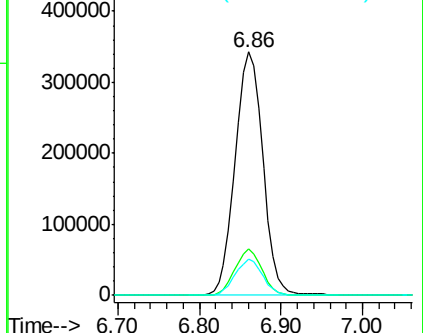
88 14.7 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.972 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

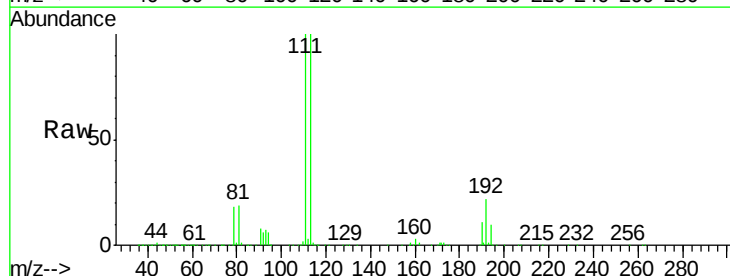
Tgt Ion:113 Resp: 253577

Ion Ratio Lower Upper

113 100

111 103.1 81.6 122.4

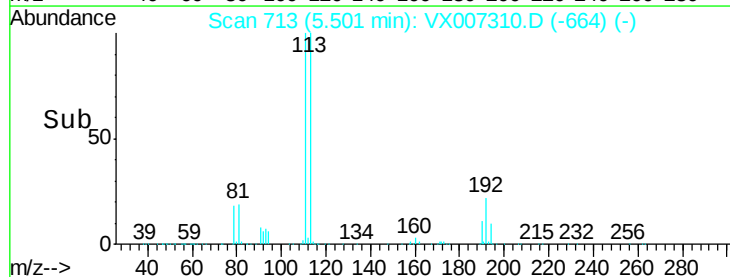
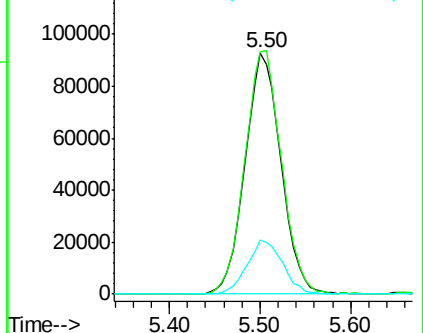
192 22.4 16.7 25.1

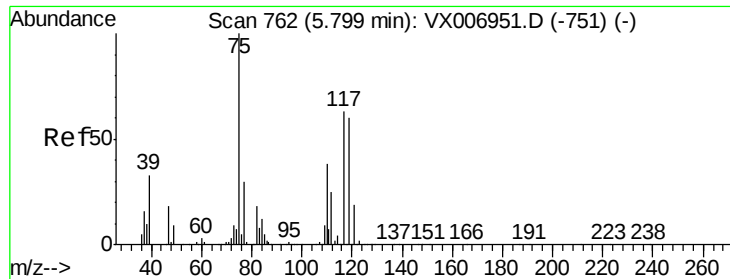


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.850 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#04

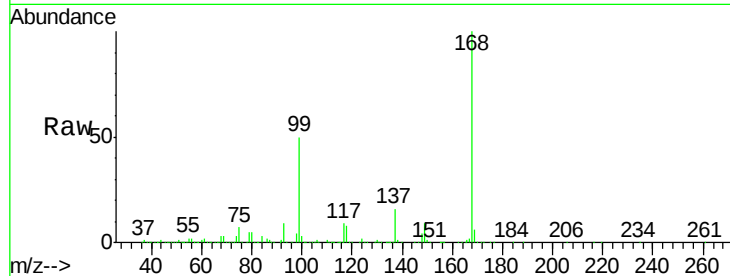
Tot Ion: 75 Resp: 34093

Ion Ratio Lower Upper

75 100

110 10.1 20.2 60.5#

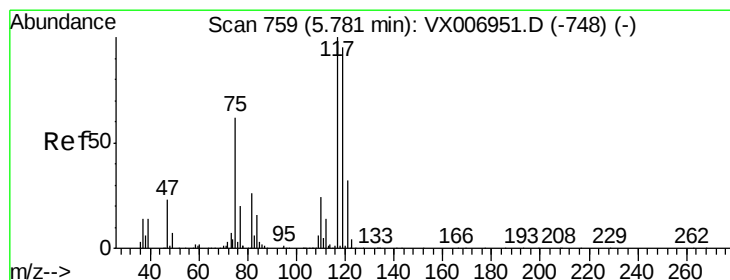
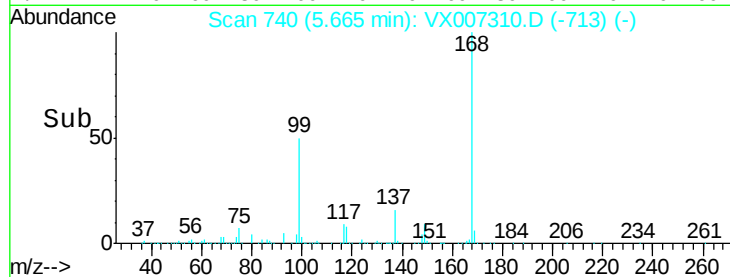
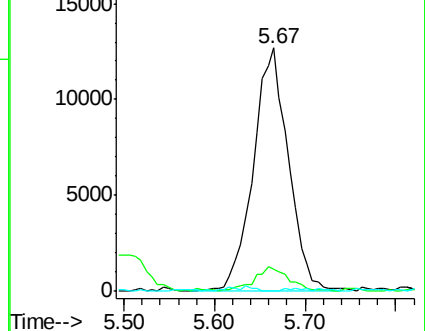
77 0.6 24.8 37.2#



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: 6.687 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

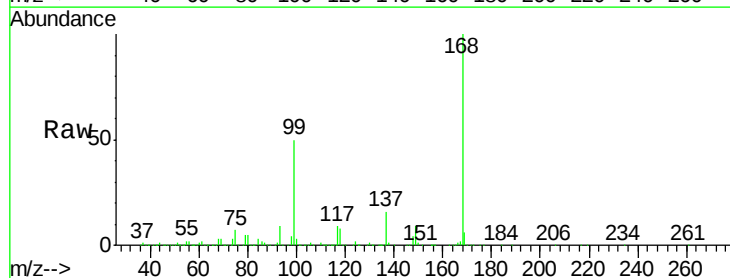
Tgt Ion: 117 Resp: 47298

Ion Ratio Lower Upper

117 100

119 5.2 79.4 119.2#

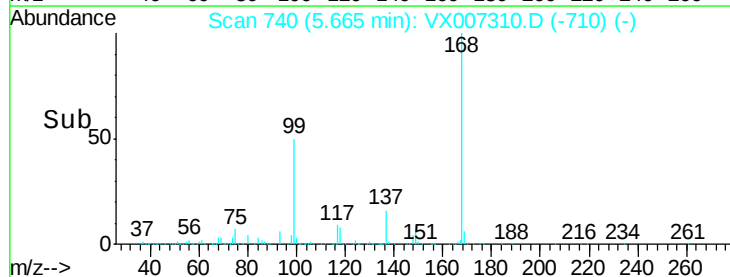
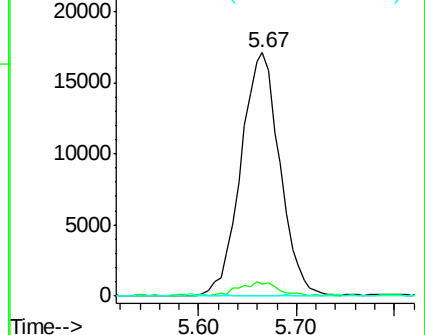
121 0.0 24.0 36.0#

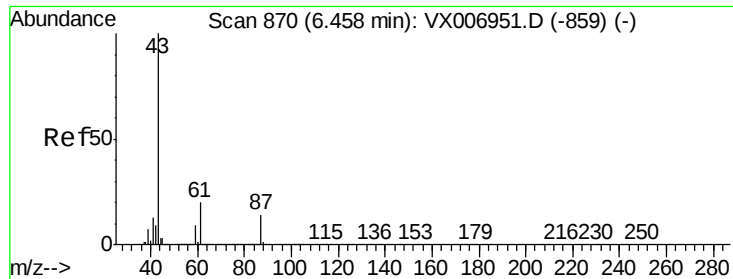


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



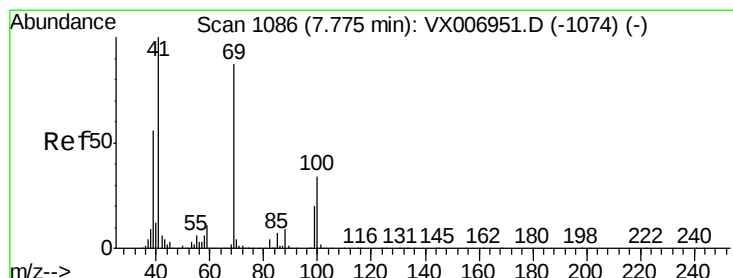
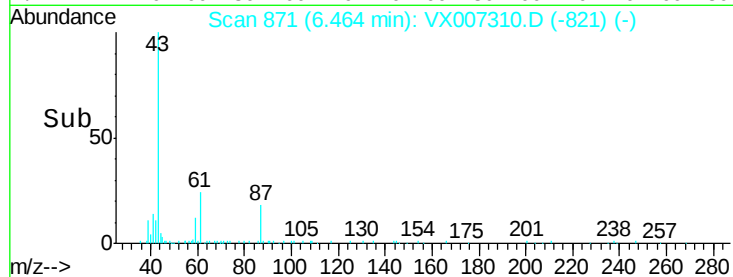
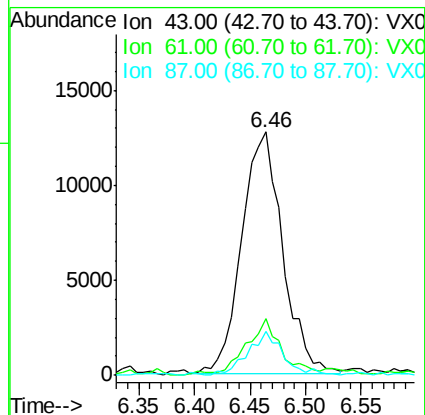
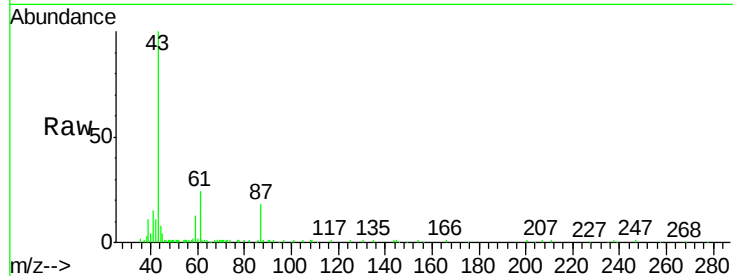


#43

Isopropyl Acetate
 Concen: 2.756 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX007310.D
 Acq: 30 Jan 2019 13:11

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116701ZHE#04

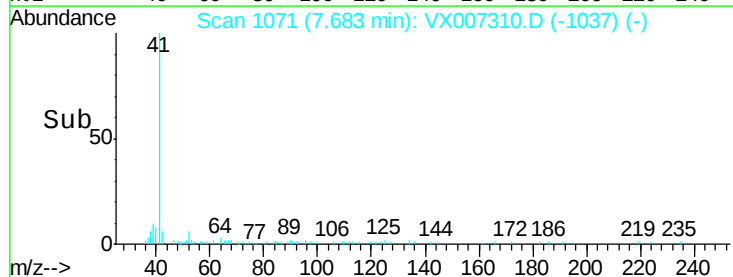
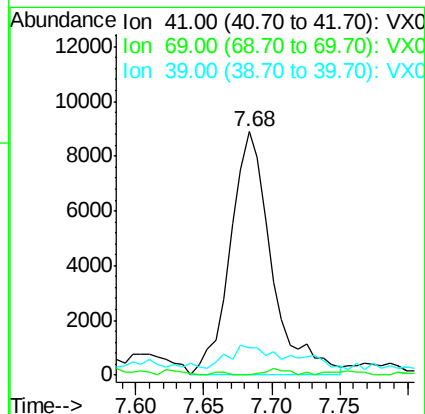
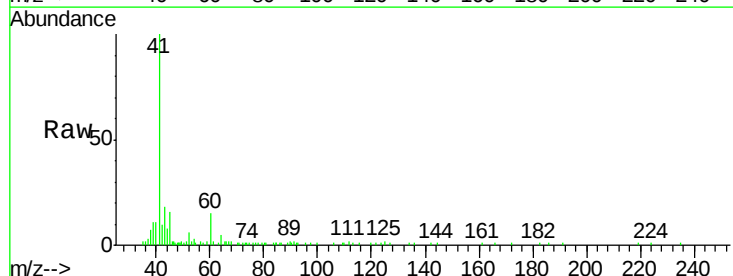
Tot Ion	43	Resp	32761
Ion Ratio	Lower	Upper	
43	100		
61	18.1	16.8	25.2
87	15.6	12.4	18.6

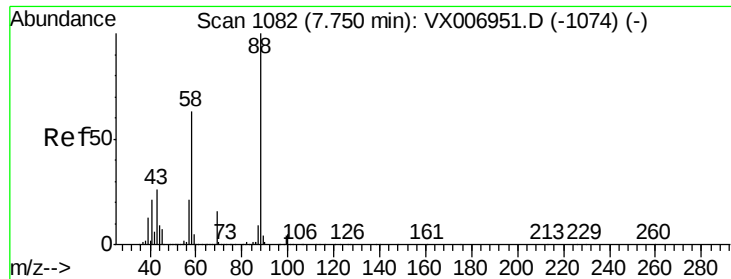


#48

Methyl methacrylate
 Concen: 3.085 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX007310.D
 Acq: 30 Jan 2019 13:11

Tgt Ion	41	Resp	18833
Ion Ratio	Lower	Upper	
41	100		
69	1.7	72.4	108.6#
39	0.0	45.8	68.8#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.73 min Scan# 1079

Delta R.T. -0.02 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#04

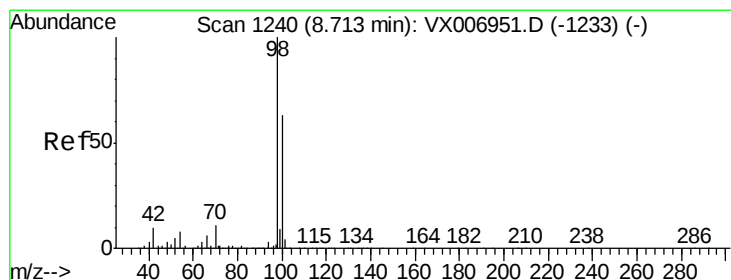
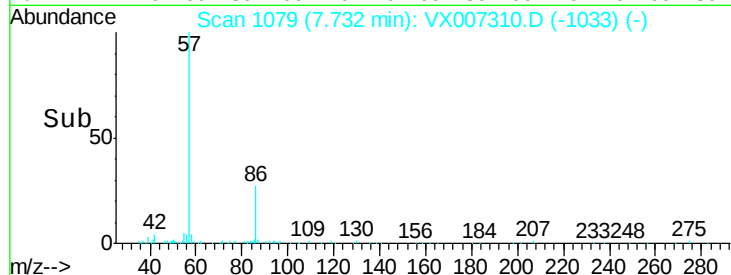
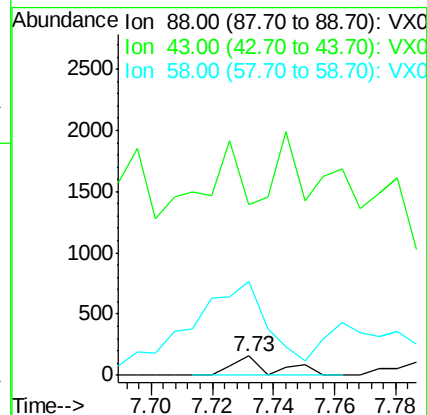
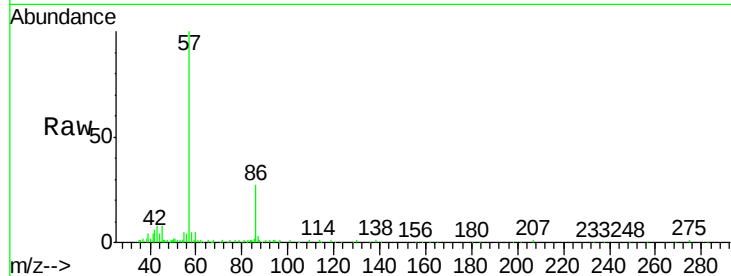
Tot Ion: 88 Resp: 141

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 1025.5 51.0 76.4#



#50

Toluene-d8

Concen: 52.247 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007310.D

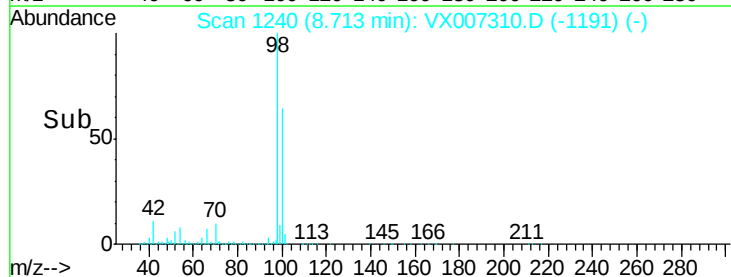
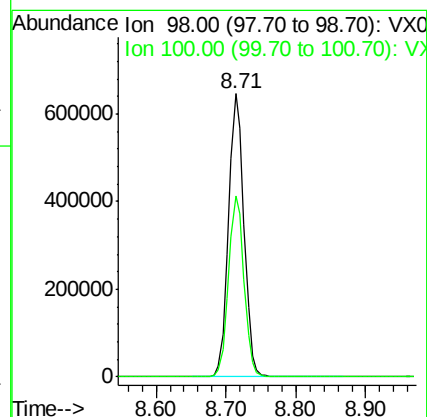
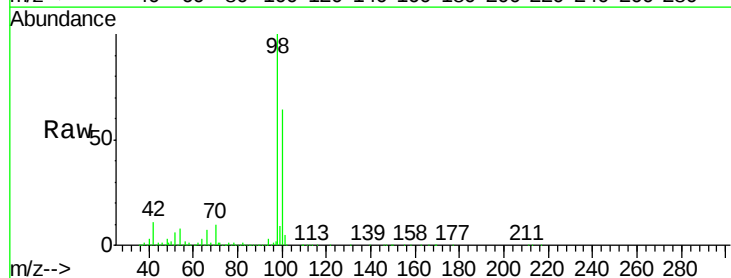
Acq: 30 Jan 2019 13:11

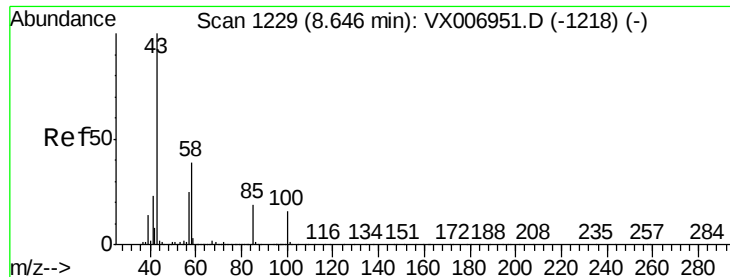
Tgt Ion: 98 Resp: 990230

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0

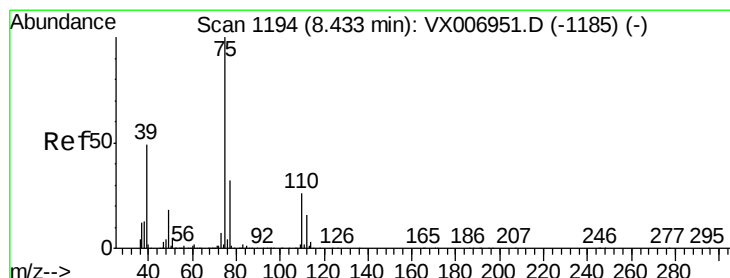
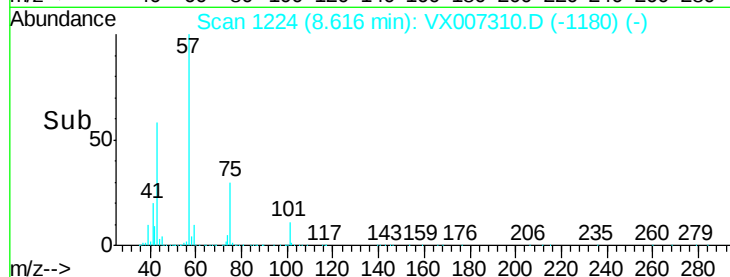
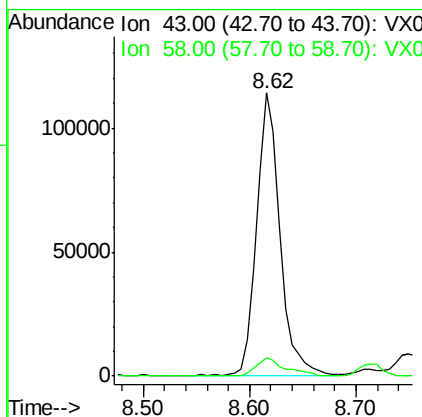
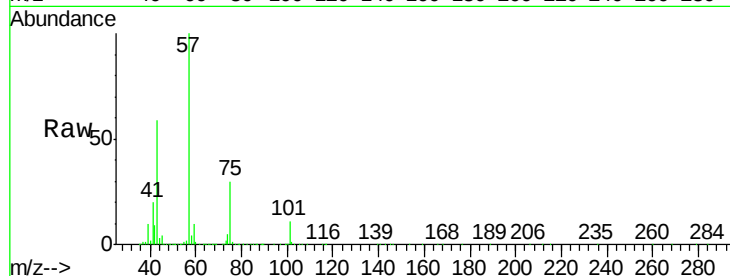




#51
 4-Methyl-2-Pentanone
 Concen: 22.740 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. -0.03 min
 Lab File: VX007310.D
 Acq: 30 Jan 2019 13:11

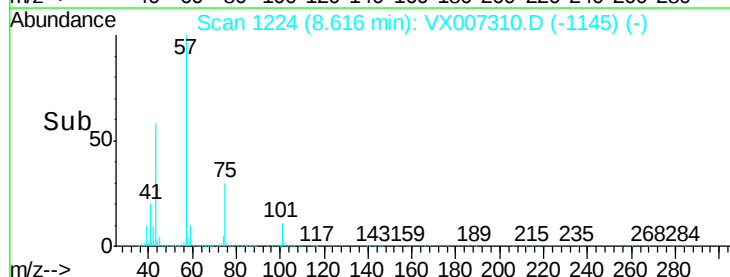
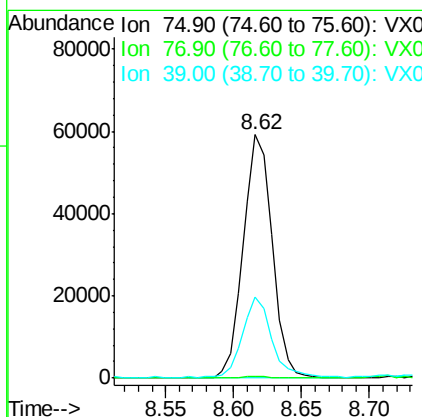
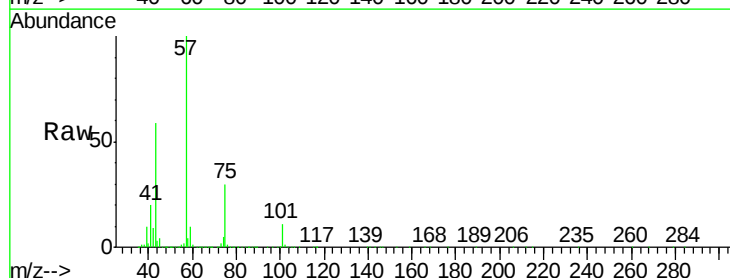
Instrument :
 MSVOA_X
 ClientSampleId :
 PB116701ZHE#04

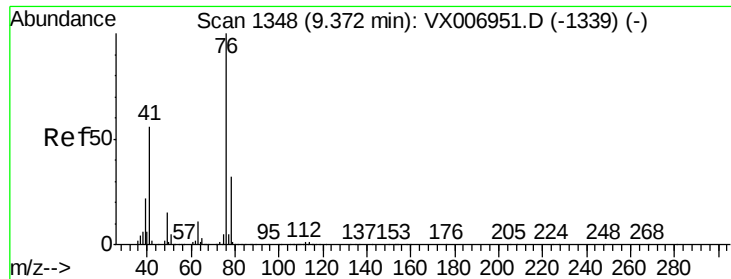
Tot Ion: 43 Resp: 173734
 Ion Ratio Lower Upper
 43 100
 58 8.4 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 11.211 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX007310.D
 Acq: 30 Jan 2019 13:11

Tgt Ion: 75 Resp: 88566
 Ion Ratio Lower Upper
 75 100
 77 0.8 26.2 39.2#
 39 32.9 36.7 55.1#

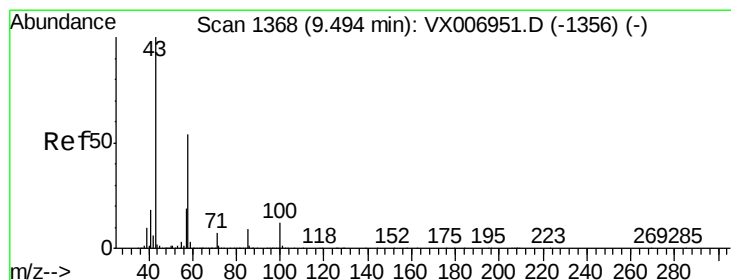
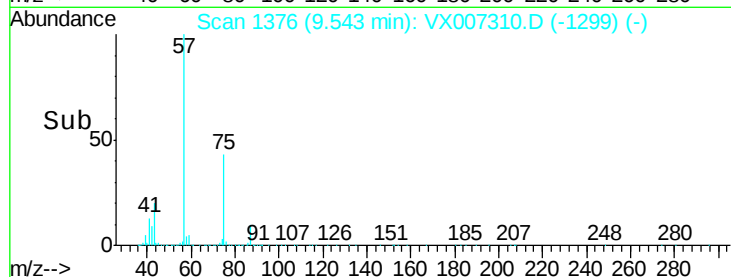
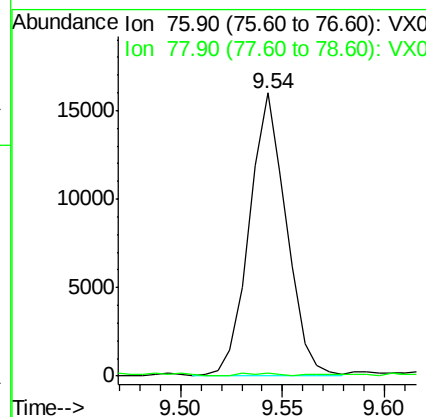
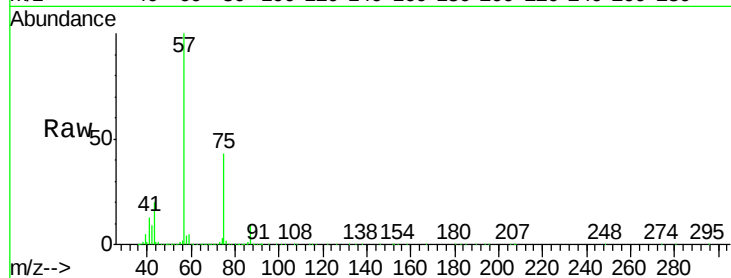




#57
 1,3-Dichloropropane
 Concen: 2.213 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX007310.D
 Acq: 30 Jan 2019 13:11

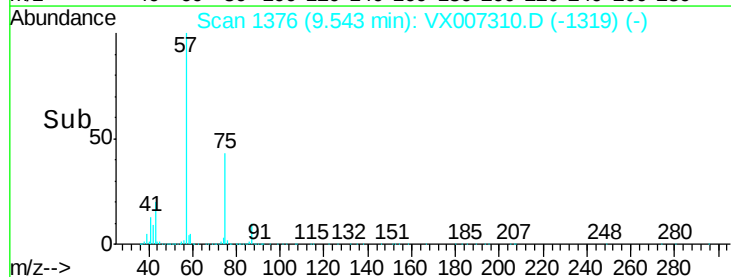
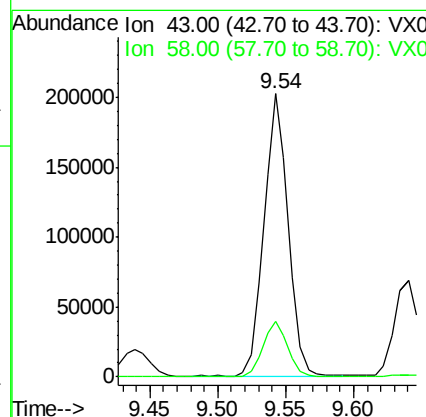
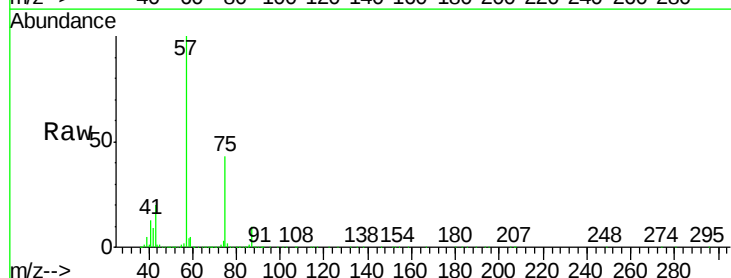
Instrument :
 MSVOA_X
 ClientSampleId :
 PB116701ZHE#04

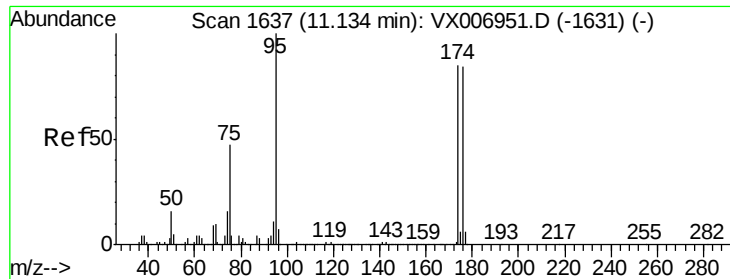
Tot Ion: 76 Resp: 20010
 Ion Ratio Lower Upper
 76 100
 78 1.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 43.320 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.05 min
 Lab File: VX007310.D
 Acq: 30 Jan 2019 13:11

Tgt Ion: 43 Resp: 252208
 Ion Ratio Lower Upper
 43 100
 58 20.3 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 52.723 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#04

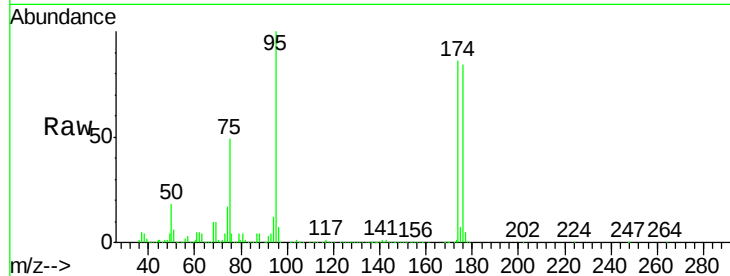
Tot Ion: 95 Resp: 348368

Ion Ratio Lower Upper

95 100

174 94.3 0.0 182.2

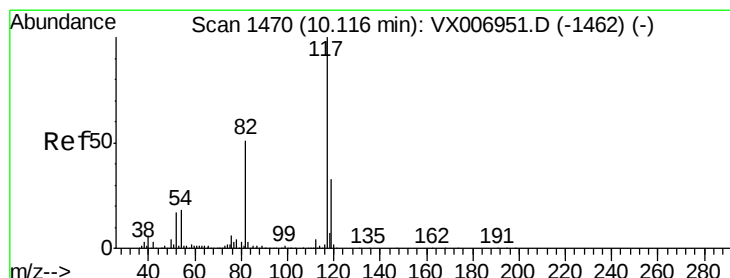
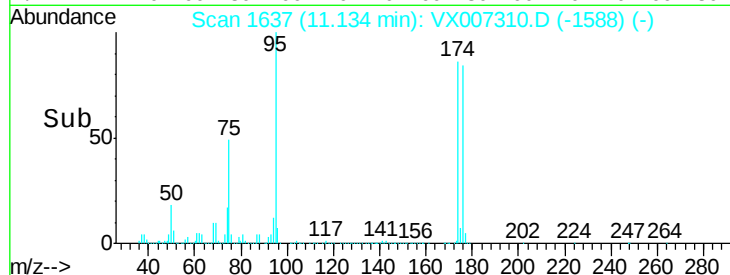
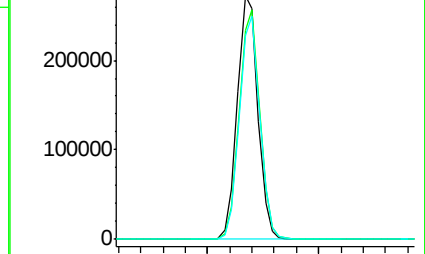
176 91.2 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

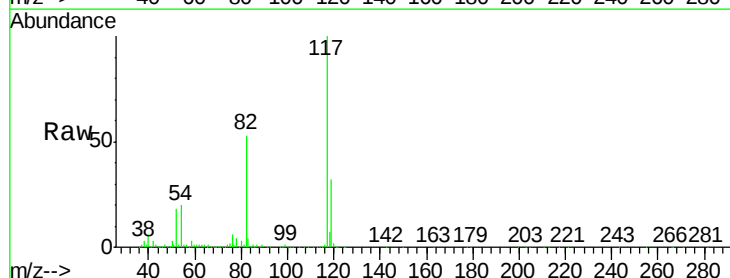
Tgt Ion: 117 Resp: 786705

Ion Ratio Lower Upper

117 100

82 52.6 41.0 61.6

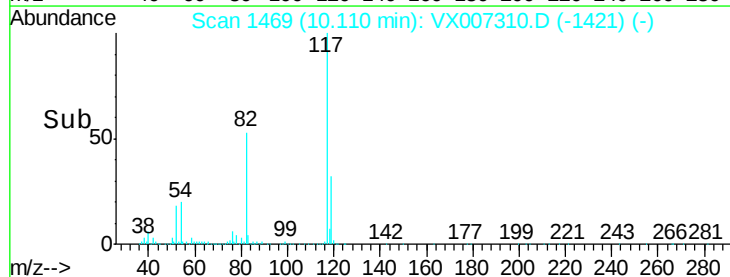
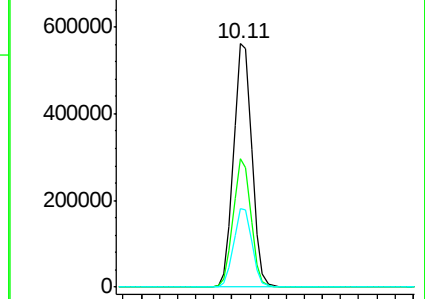
119 32.4 25.4 38.0

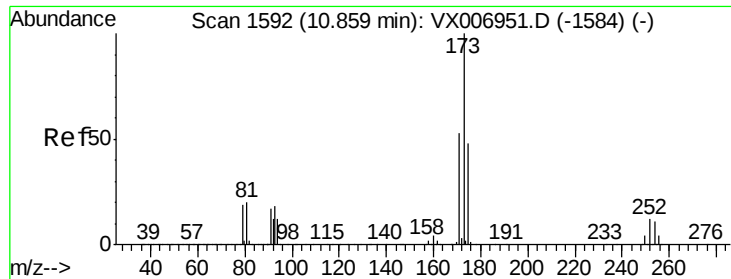


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)





#71

Bromoform

Concen: 4.748 ug/l

RT: 10.82 min Scan# 1585

Delta R.T. -0.04 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#04

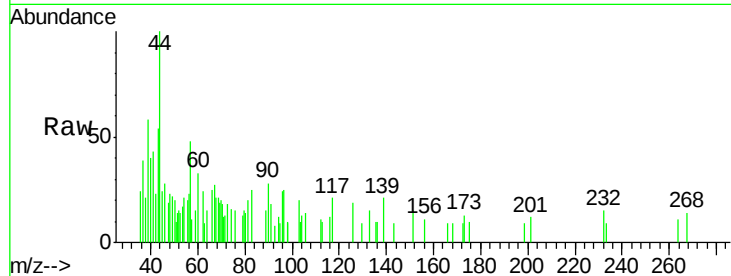
Tot Ion:173 Resp: 118

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

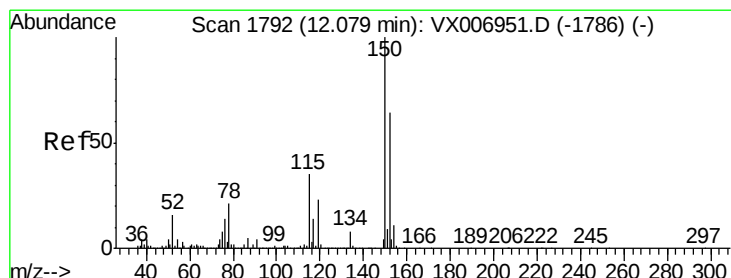
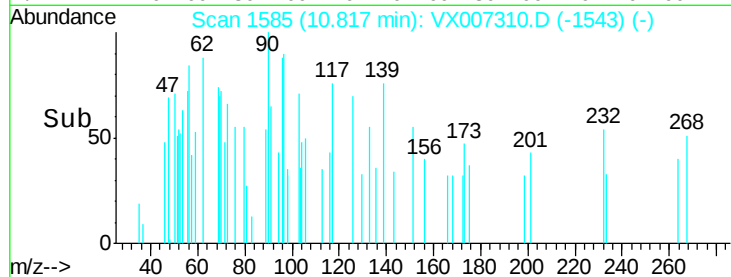
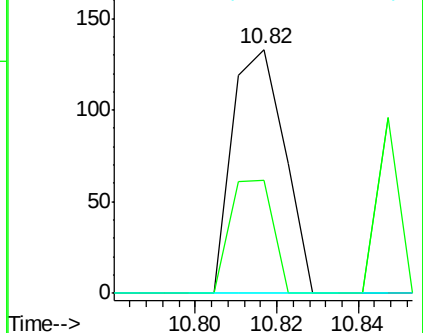
254 0.0 0.2 0.2#



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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

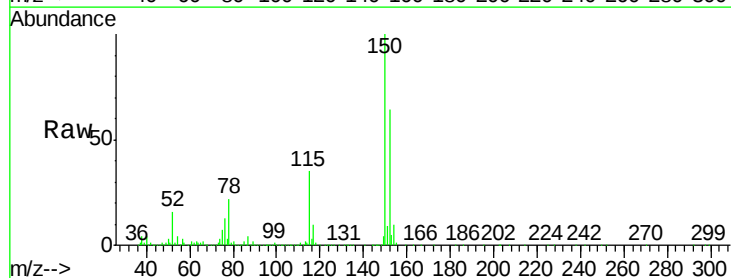
Tgt Ion:152 Resp: 375415

Ion Ratio Lower Upper

152 100

115 55.3 39.1 117.2

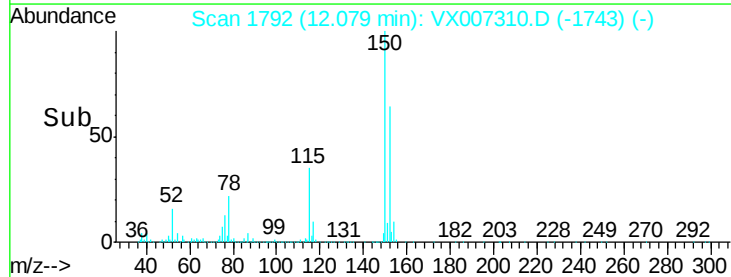
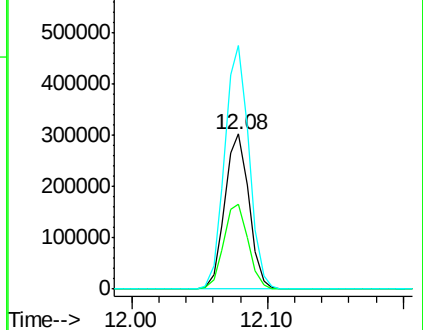
150 157.2 0.0 344.8

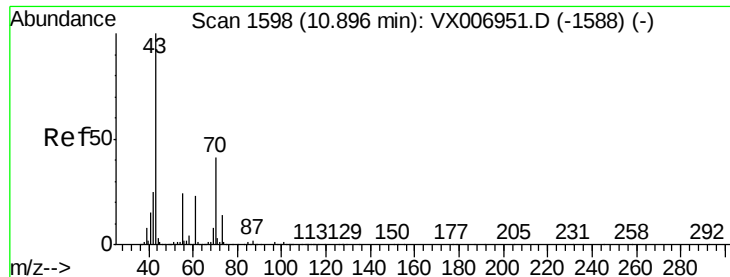


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.394 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#04

Tot Ion: 43 Resp: 25518

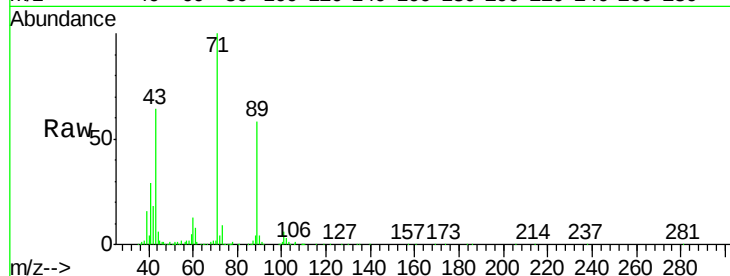
Ion Ratio Lower Upper

43 100

70 3.1 35.8 53.8#

55 4.6 19.4 29.0#

61 13.3 20.1 30.1#

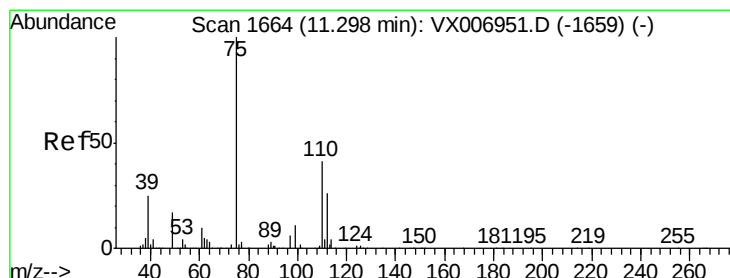
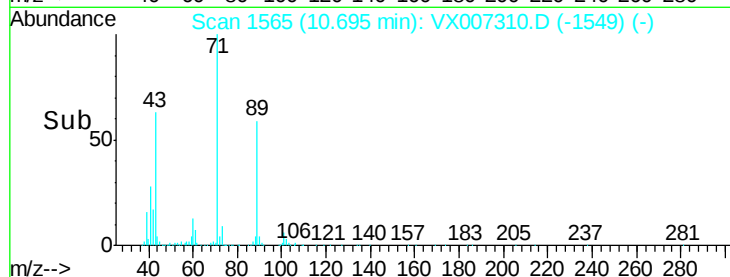
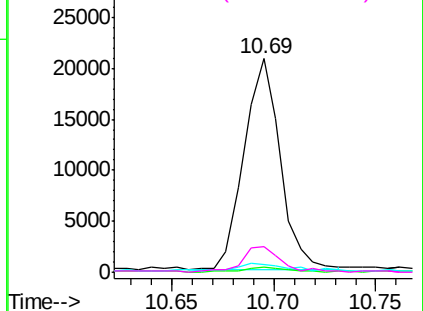


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.983 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007310.D

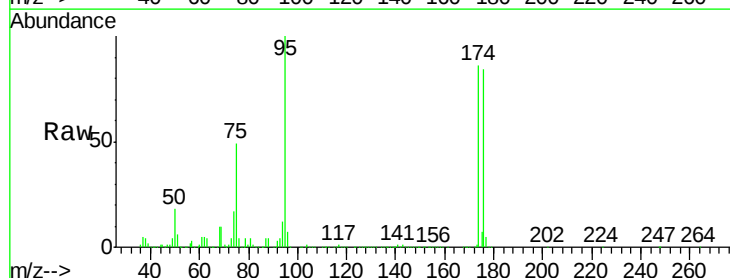
Acq: 30 Jan 2019 13:11

Tgt Ion: 75 Resp: 167237

Ion Ratio Lower Upper

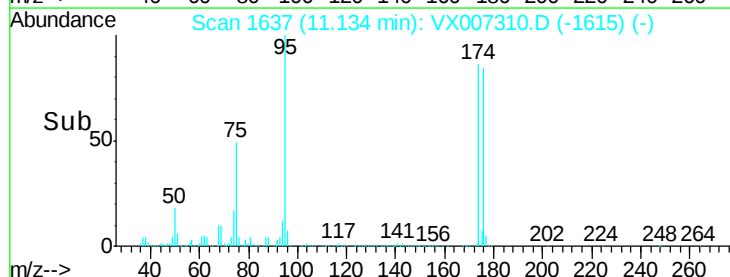
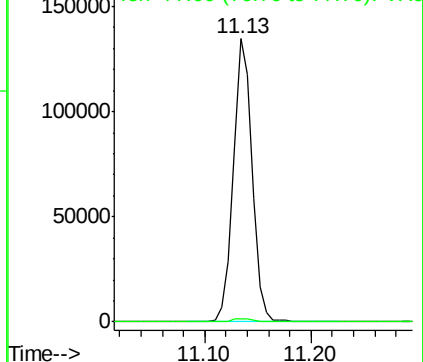
75 100

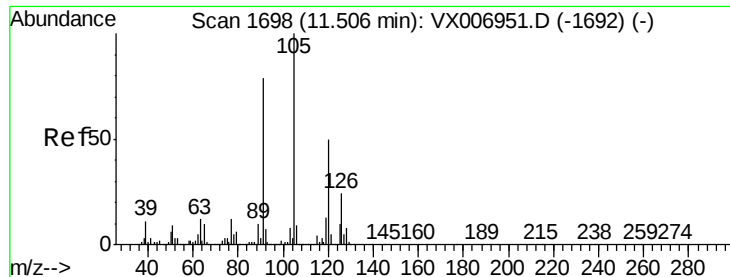
77 1.3 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.304 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

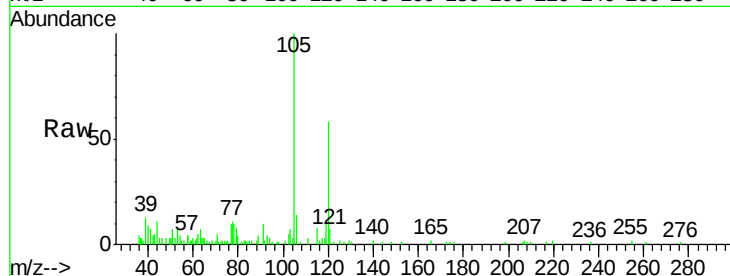
PB116701ZHE#04

Tot Ion:105 Resp: 6733

Ion Ratio Lower Upper

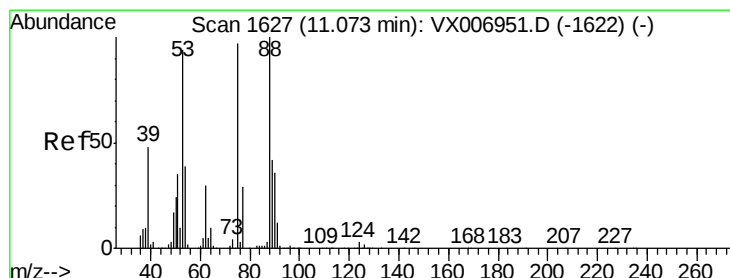
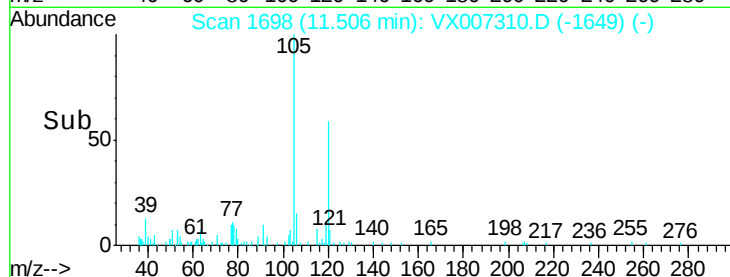
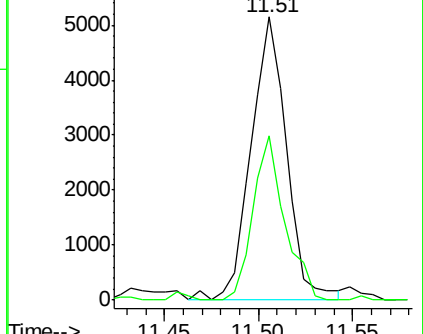
105 100

120 52.0 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 65.105 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

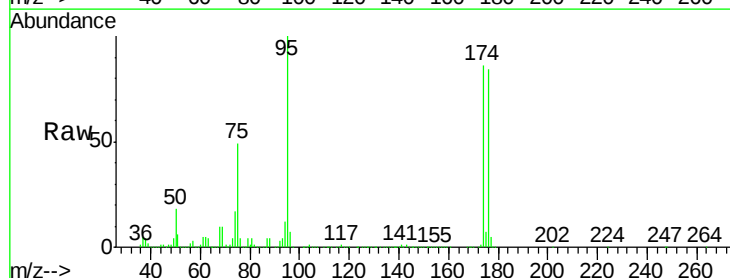
Tgt Ion: 75 Resp: 167237

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

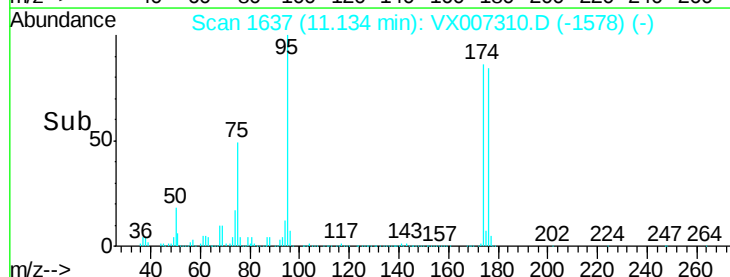
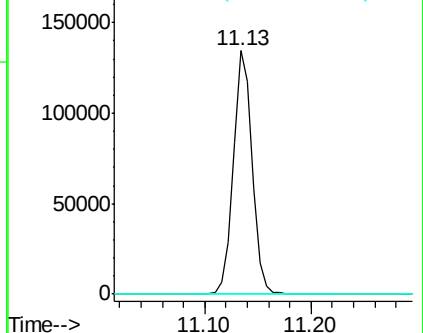
89 0.1 38.0 57.0#

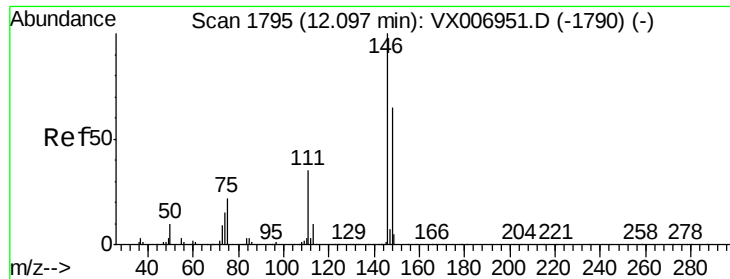


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#88

1,4-Dichlorobenzene

Concen: 0.212 ug/l

RT: 12.08 min Scan# 1793

Delta R.T. -0.01 min

Lab File: VX007310.D

Acq: 30 Jan 2019 13:11

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#04

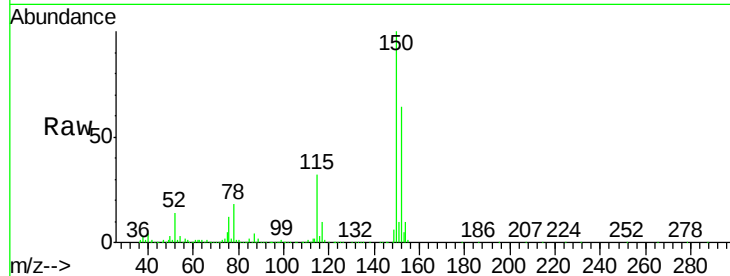
Tot Ion:146 Resp: 839

Ion Ratio Lower Upper

146 100

111 613.9 18.1 54.1#

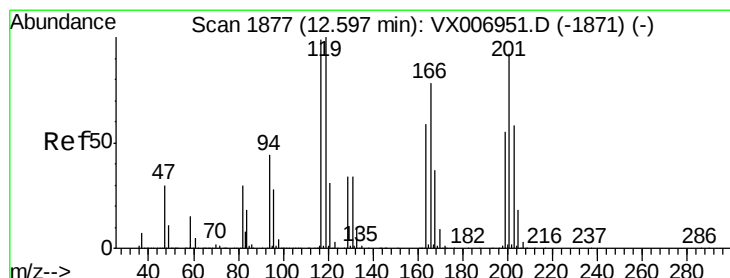
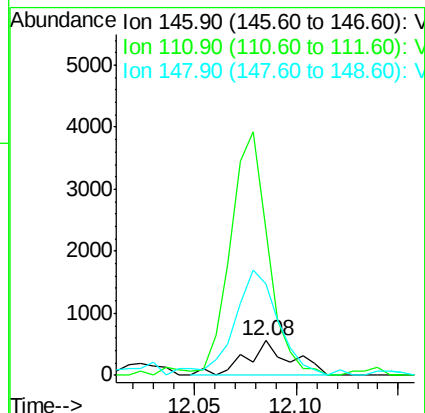
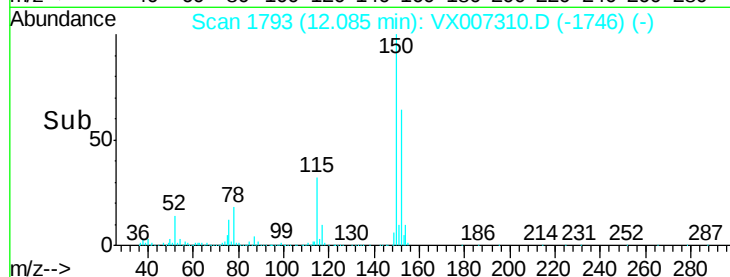
148 297.3 31.9 95.9#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#90

Hexachloroethane

Concen: 2.940 ug/l

RT: 12.46 min Scan# 1855

Delta R.T. -0.13 min

Lab File: VX007310.D

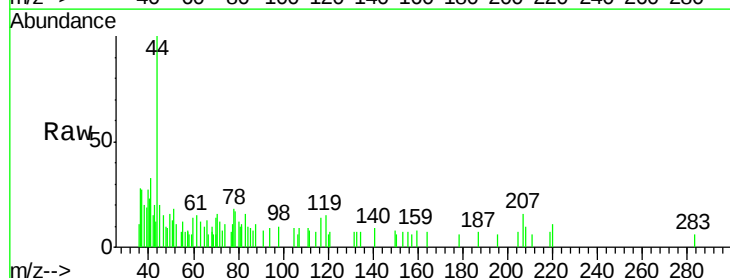
Acq: 30 Jan 2019 13:11

Tgt Ion:117 Resp: 128

Ion Ratio Lower Upper

117 100

201 63.3 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

