

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX013019\
 Data File : VX007313.D
 Acq On : 30 Jan 2019 14:31
 Operator : JC/SP
 Sample : PB116701ZHE#07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116701ZHE#07

Quant Time: Jan 31 00:23:34 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	5.67	168	530063	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	821111	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	801699	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	383564	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	284755	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
35) Dibromofluoromethane	5.51	113	258040	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
50) Toluene-d8	8.71	98	1004994	52.22	ug/l	0.00
Spiked Amount			Recovery	=	104.44%	
62) 4-Bromofluorobenzene	11.13	95	354540	52.84	ug/l	0.00
Spiked Amount			Recovery	=	105.68%	

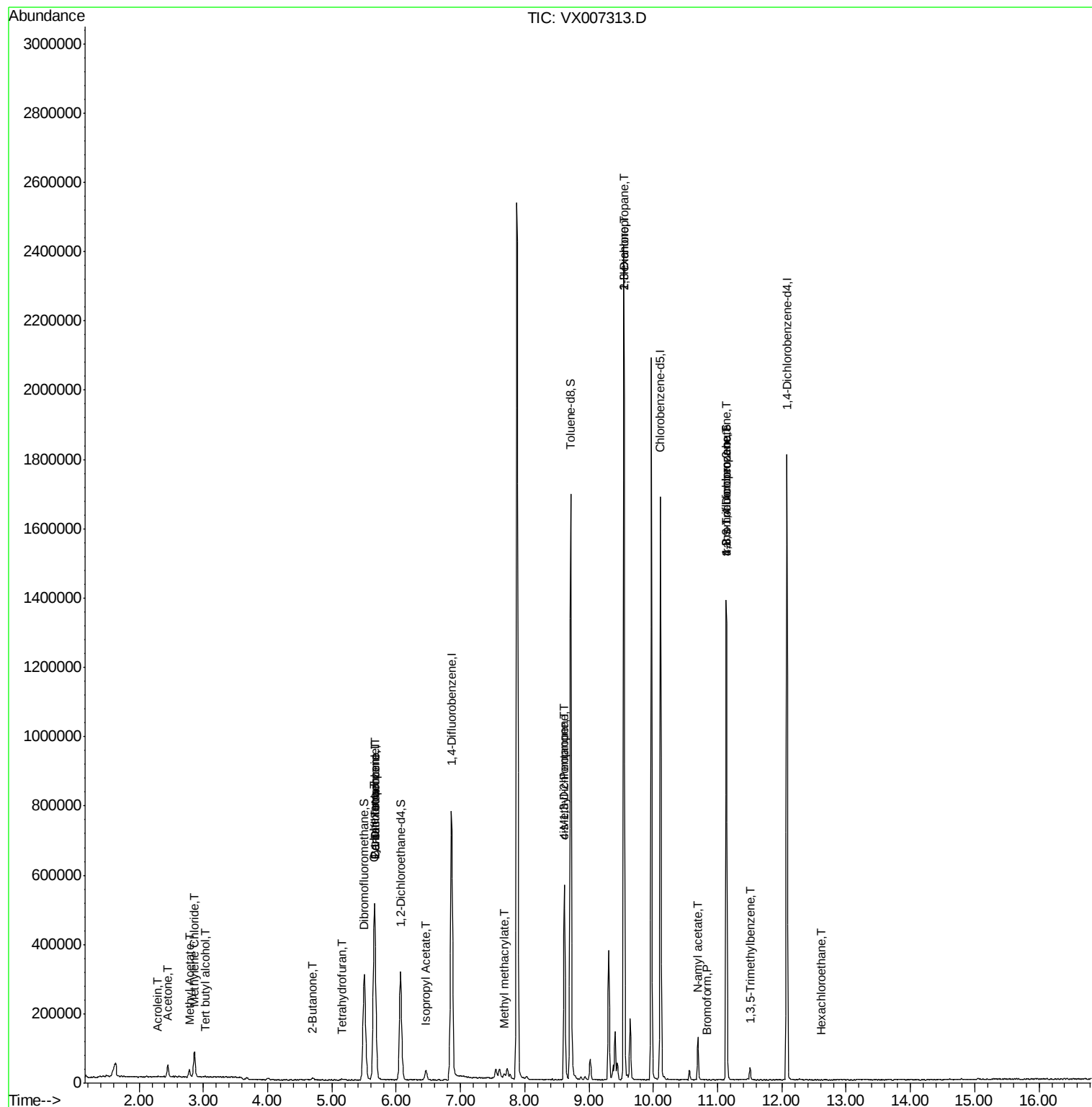
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.04	59	2020	1.546	ug/l #	69
13) Acrolein	2.28	56	109	3.275	ug/l #	81
16) Acetone	2.45	43	37116	13.553	ug/l	98
18) Methyl Acetate	2.78	43	28958	3.651	ug/l	98
20) Methylene Chloride	2.86	84	35429	6.307	ug/l	96
25) 2-Butanone	4.70	43	7935	2.025	ug/l #	88
29) Tetrahydrofuran	5.16	42	3794	1.490	ug/l #	75
31) Cyclohexane	5.65	56	9594	1.228	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	34127	4.780	ug/l #	39
38) Carbon Tetrachloride	5.67	117	47867	6.664	ug/l #	14
43) Isopropyl Acetate	6.46	43	34216	2.834	ug/l	96
48) Methyl methacrylate	7.68	41	17992	2.902	ug/l #	12
49) 1,4-Dioxane	7.76	88	296	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	179724	23.165	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	89834	11.198	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	18984	2.068	ug/l #	45
59) 2-Hexanone	9.54	43	259975	43.971	ug/l #	51
71) Bromoform	10.84	173	164	4.756	ug/l #	28
74) N-amyl acetate	10.69	43	28014	2.573	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	171008	22.001	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	15001	0.664	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	171008	65.155	ug/l #	10
90) Hexachloroethane	12.61	117	19	2.913	ug/l #	6

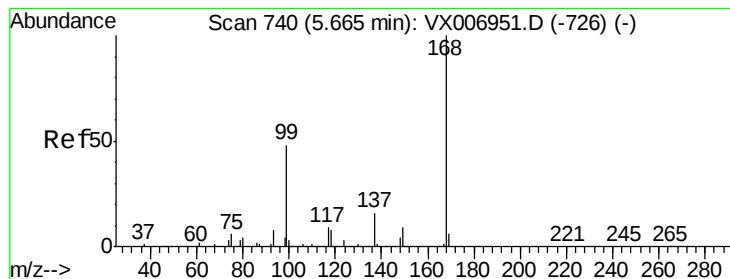
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Time: Jan 31 00:23:34 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: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

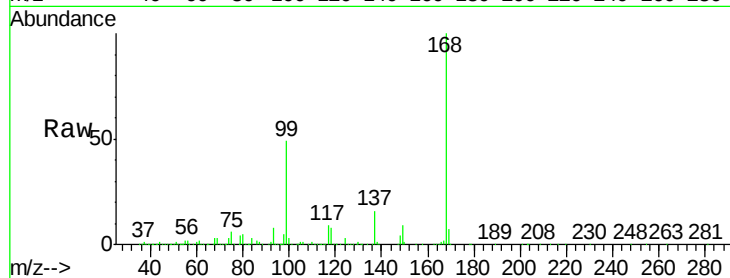
PB116701ZHE#07

Tot Ion:168 Resp: 530063

Ion Ratio Lower Upper

168 100

99 49.2 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

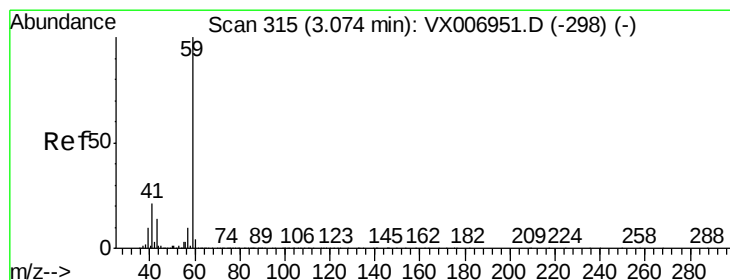
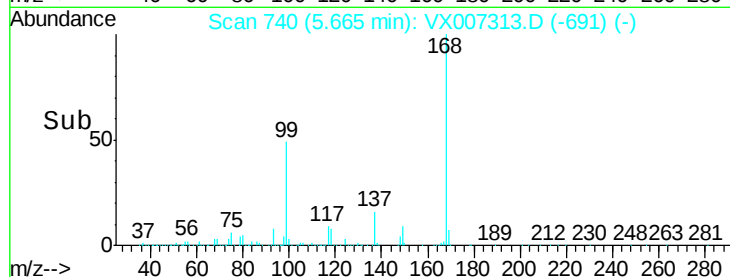
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.546 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.04 min

Lab File: VX007313.D

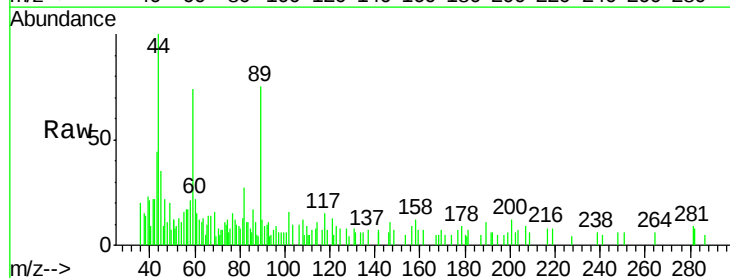
Acq: 30 Jan 2019 14:31

Tgt Ion: 59 Resp: 2020

Ion Ratio Lower Upper

59 100

57 22.3 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.04

1000

800

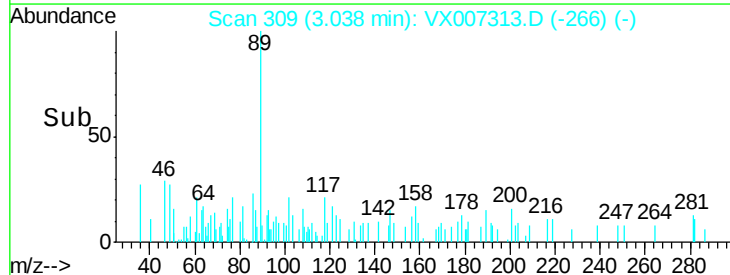
600

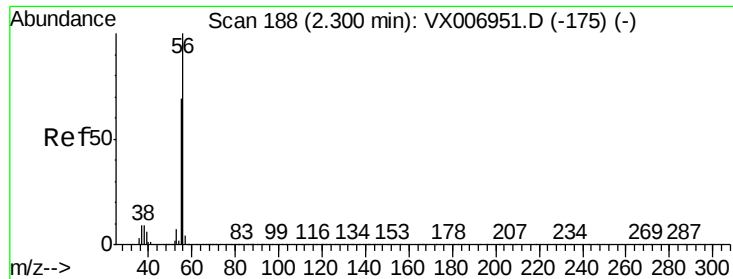
400

200

0

Time--> 3.00 3.05





#13

Acrolein

Concen: 3.275 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

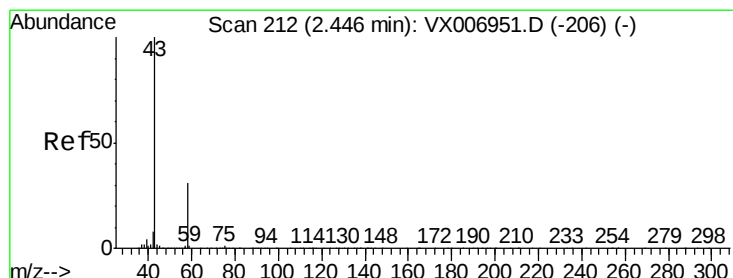
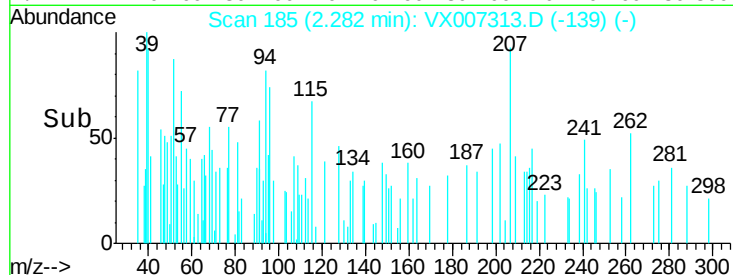
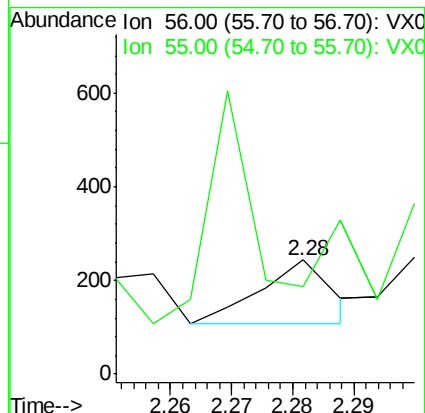
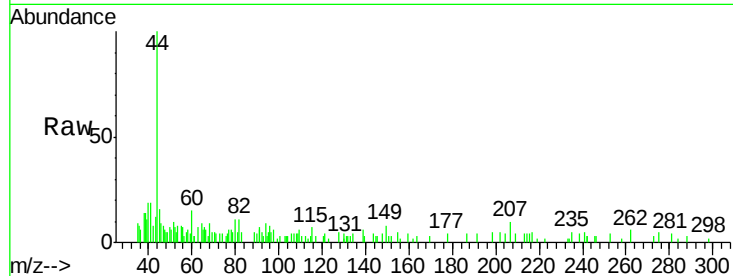
PB116701ZHE#07

Tot Ion: 56 Resp: 109

Ion Ratio Lower Upper

56 100

55 56.9 58.2 87.4#



#16

Acetone

Concen: 13.553 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007313.D

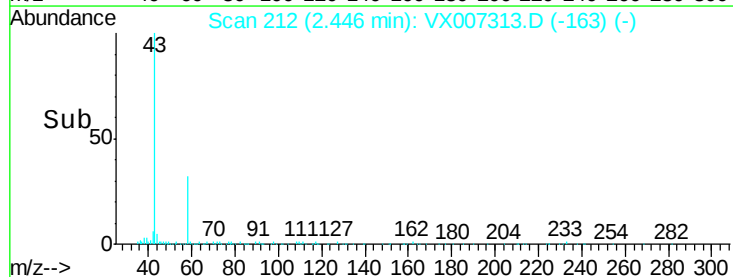
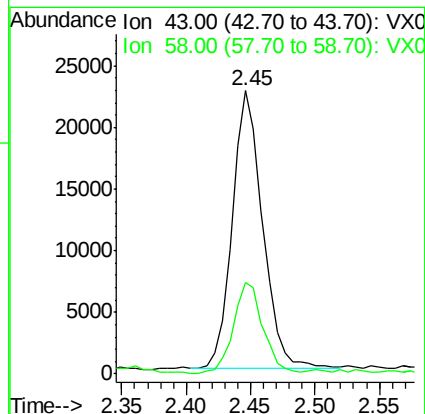
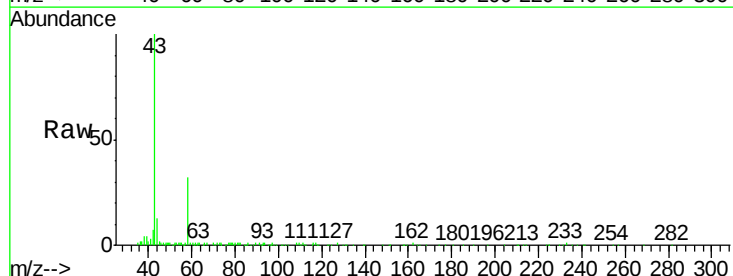
Acq: 30 Jan 2019 14:31

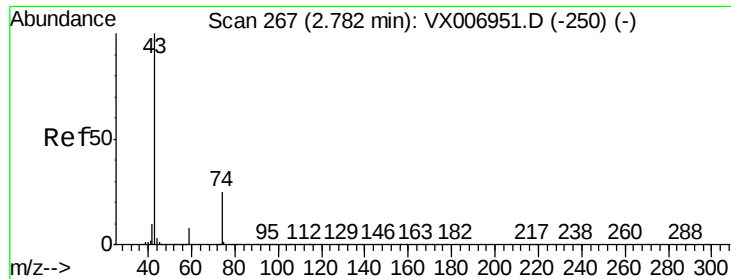
Tgt Ion: 43 Resp: 37116

Ion Ratio Lower Upper

43 100

58 32.5 25.0 37.6

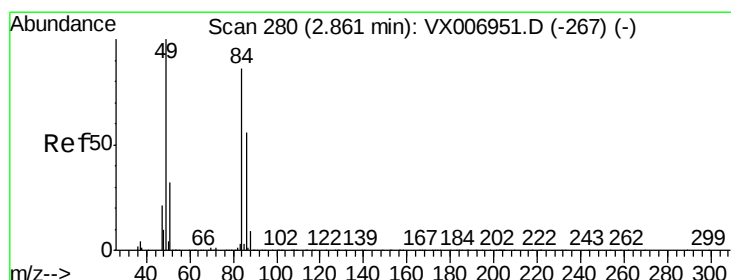
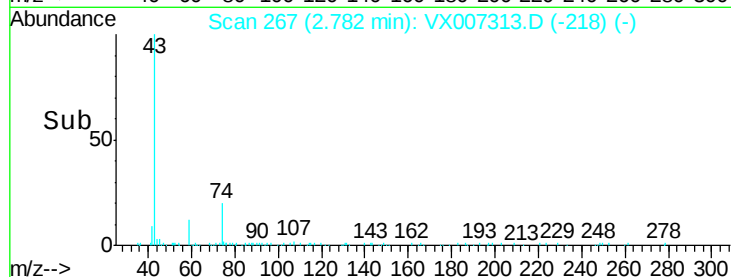
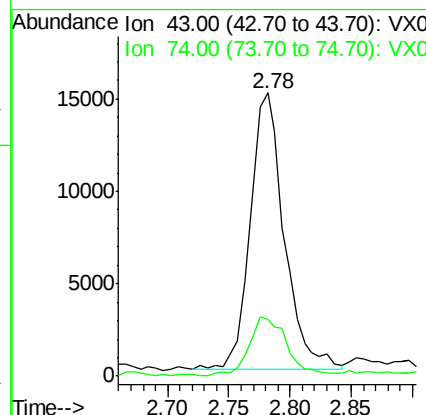
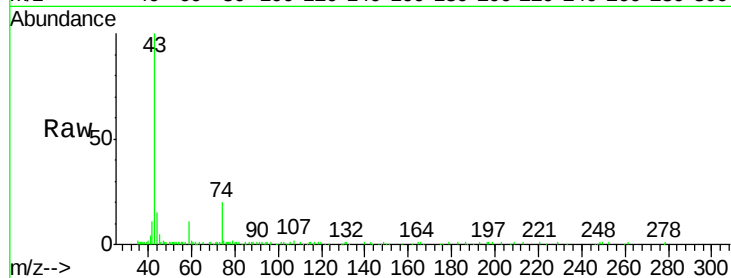




#18
Methyl Acetate
Concen: 3.651 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007313.D
Acq: 30 Jan 2019 14:31

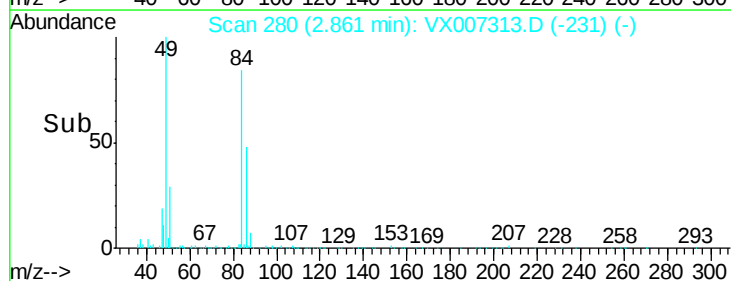
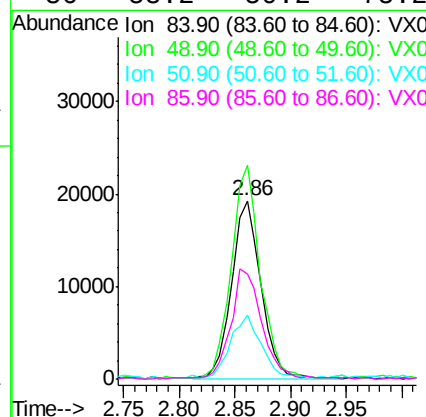
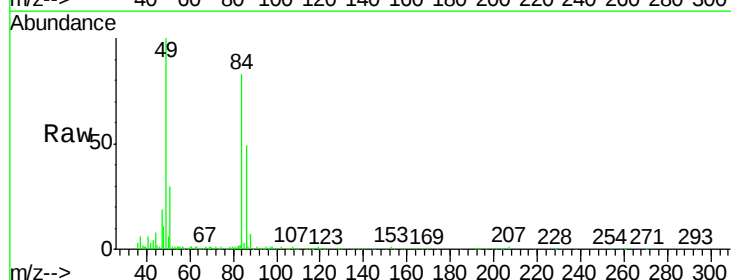
Instrument :
MSVOA_X
ClientSampleId :
PB116701ZHE#07

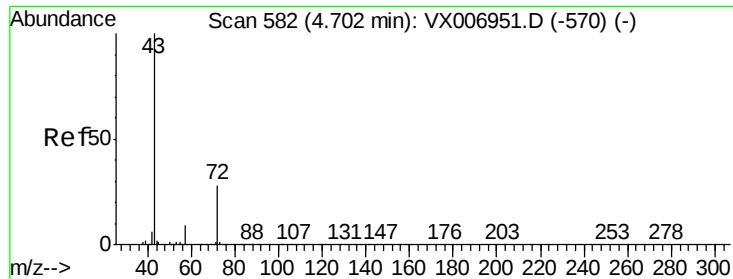
Tot Ion: 43 Resp: 28958
Ion Ratio Lower Upper
43 100
74 24.2 18.6 28.0



#20
Methylene Chloride
Concen: 6.307 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007313.D
Acq: 30 Jan 2019 14:31

Tgt Ion: 84 Resp: 35429
Ion Ratio Lower Upper
84 100
49 119.2 91.8 137.6
51 33.9 28.5 42.7
86 58.2 50.2 75.2

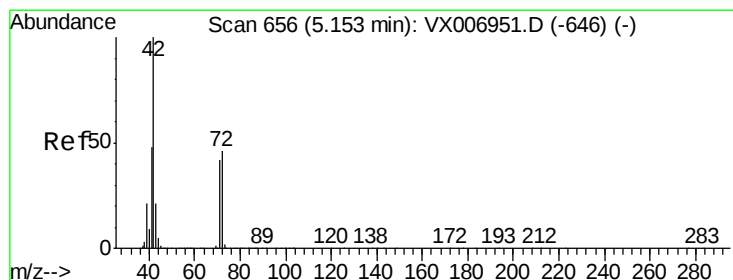
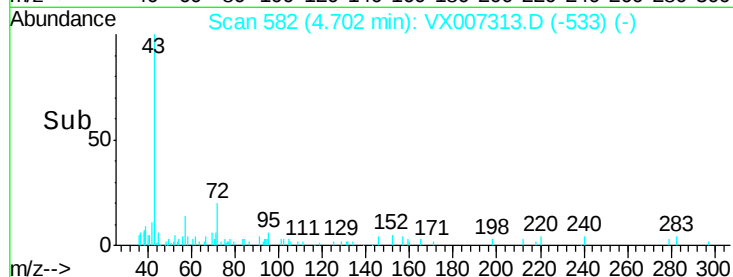
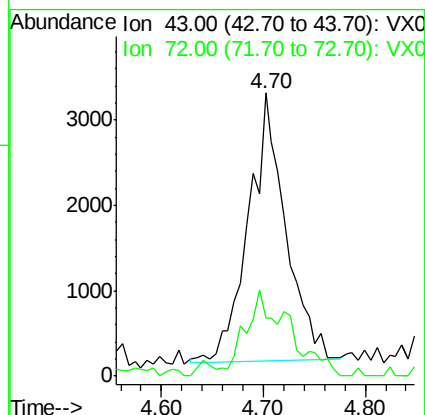
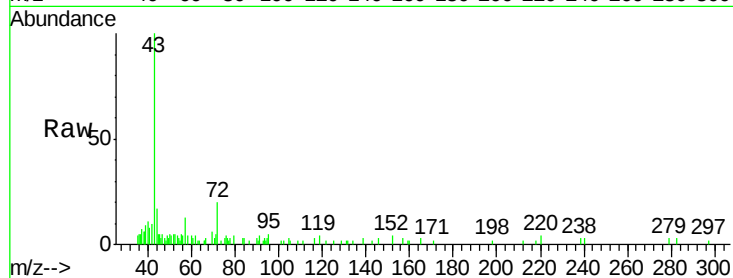




#25
2-Butanone
Concen: 2.025 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX007313.D
Acq: 30 Jan 2019 14:31

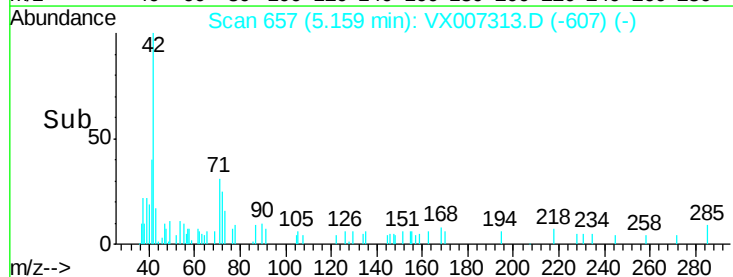
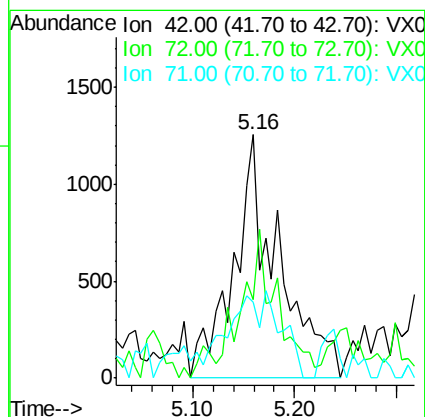
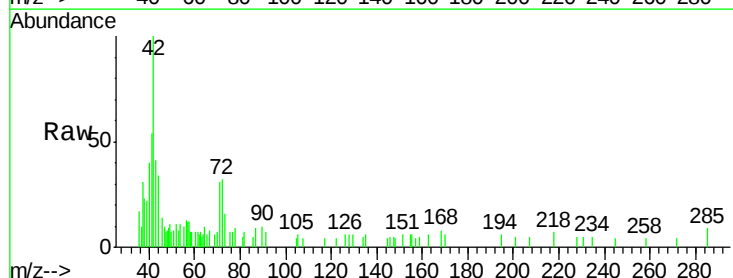
Instrument :
MSVOA_X
ClientSampleId :
PB116701ZHE#07

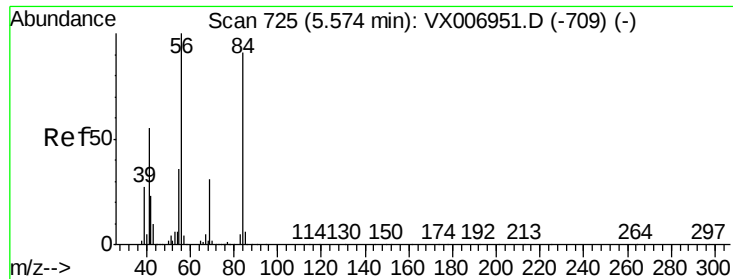
Tot Ion: 43 Resp: 7935
Ion Ratio Lower Upper
43 100
72 21.7 22.4 33.6#



#29
Tetrahydrofuran
Concen: 1.490 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX007313.D
Acq: 30 Jan 2019 14:31

Tgt Ion: 42 Resp: 3794
Ion Ratio Lower Upper
42 100
72 42.3 38.9 58.3
71 18.2 36.2 54.4#

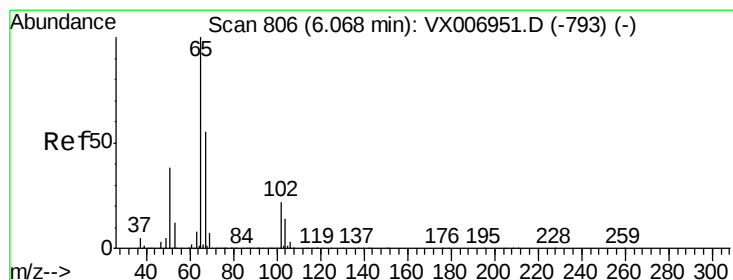
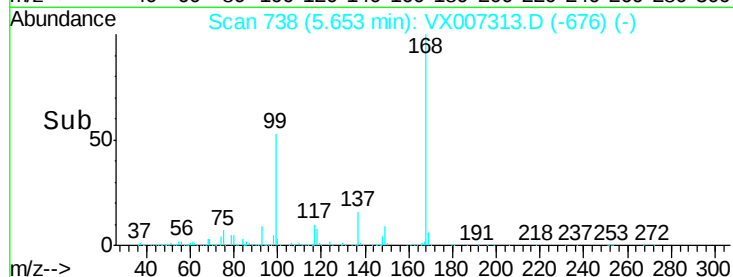
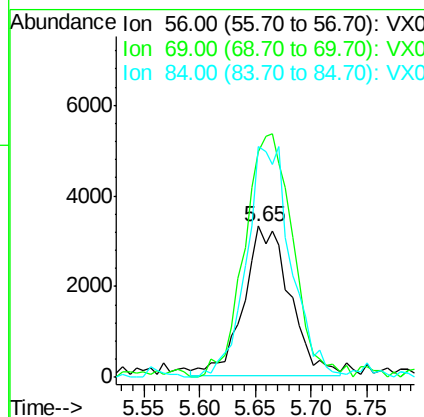
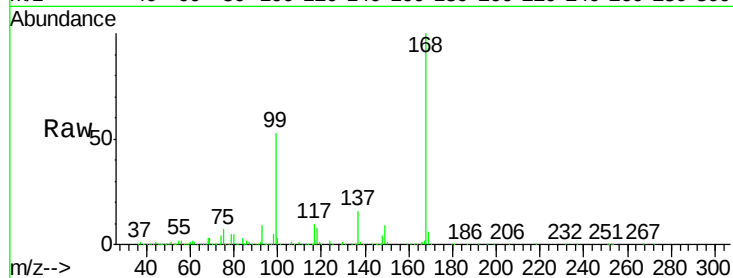




#31
Cyclohexane
Concen: 1.228 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX007313.D
Acq: 30 Jan 2019 14:31

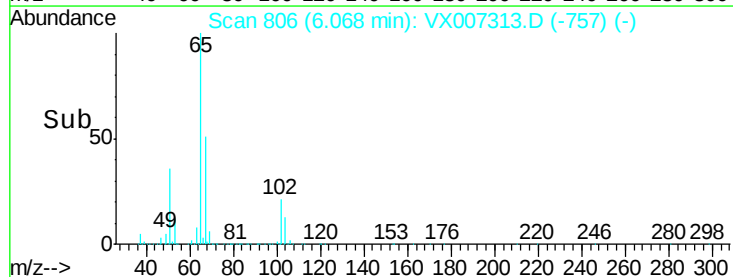
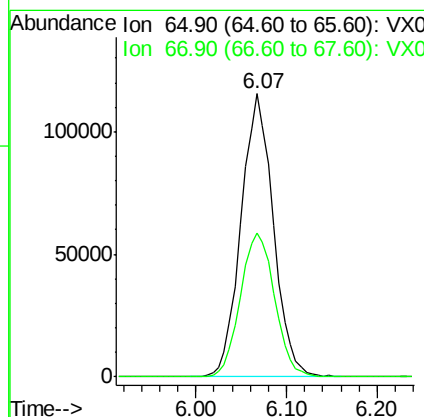
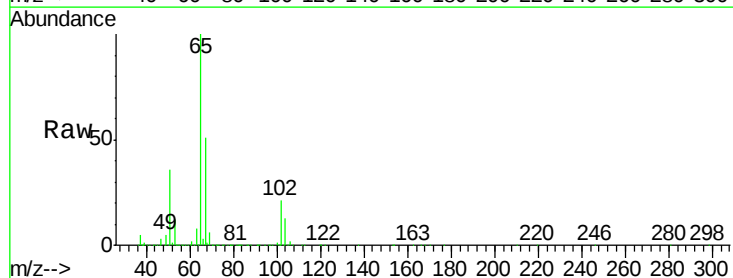
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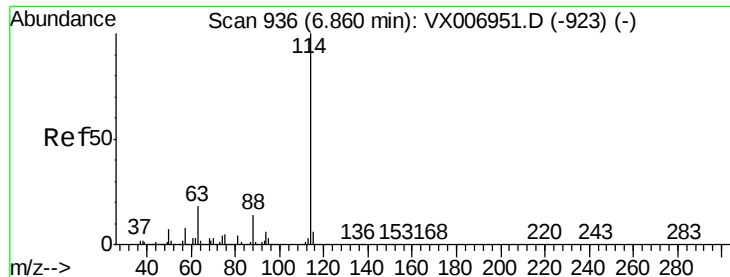
Tot Ion: 56 Resp: 9594
Ion Ratio Lower Upper
56 100
69 155.3 24.4 36.6#
84 158.8 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 51.403 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007313.D
Acq: 30 Jan 2019 14:31

Tgt Ion: 65 Resp: 284755
Ion Ratio Lower Upper
65 100
67 54.2 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: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#07

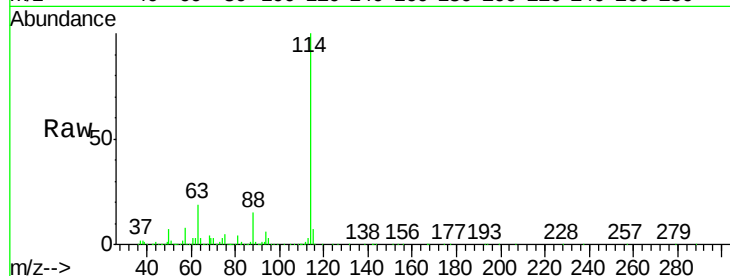
Tot Ion:114 Resp: 821111

Ion Ratio Lower Upper

114 100

63 19.3 0.0 34.8

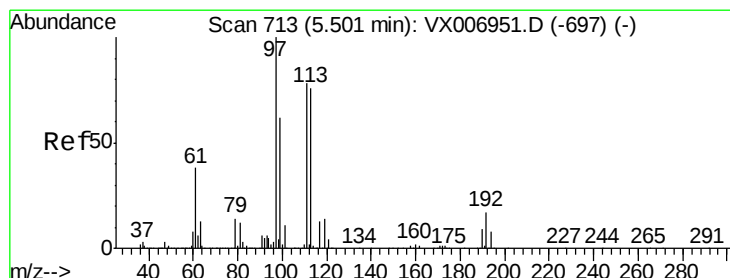
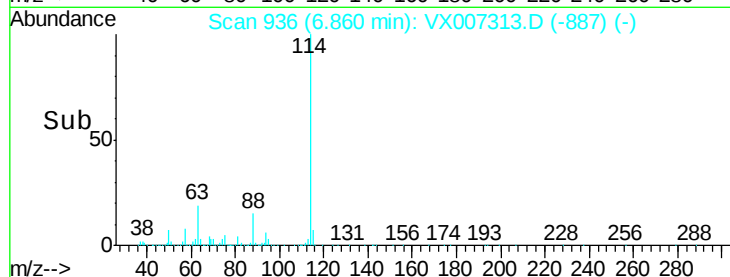
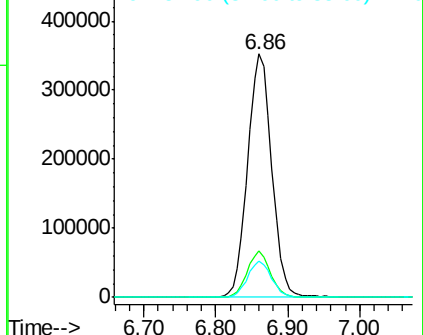
88 14.8 0.0 28.8



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: 49.072 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

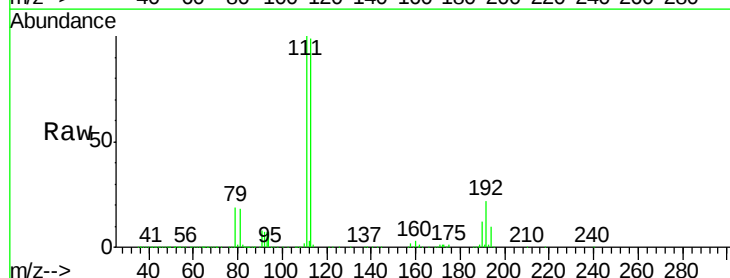
Tgt Ion:113 Resp: 258040

Ion Ratio Lower Upper

113 100

111 102.0 81.6 122.4

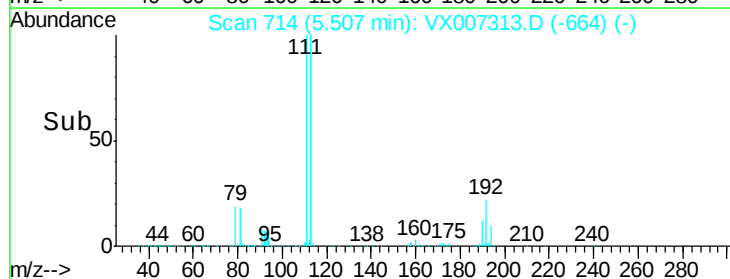
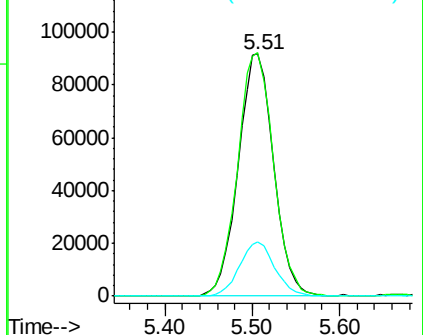
192 22.2 16.7 25.1

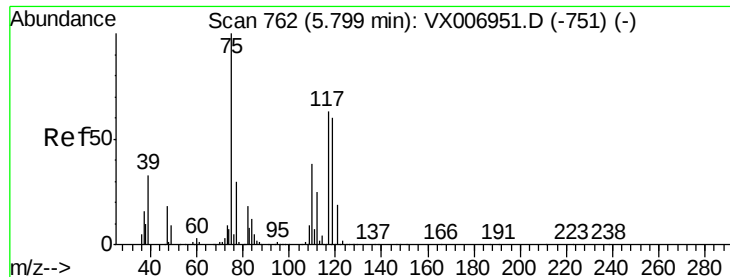


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.780 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#07

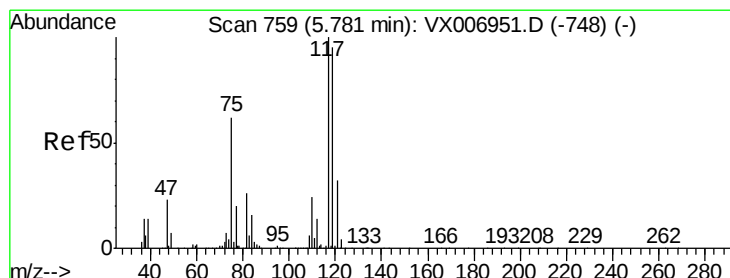
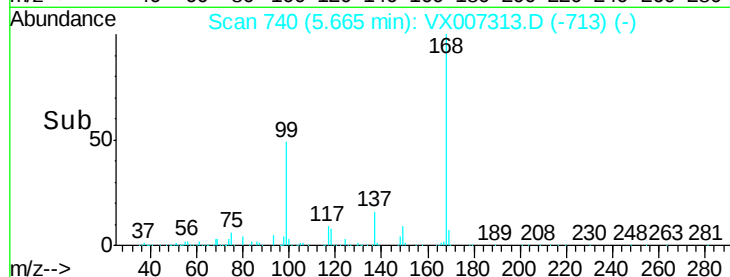
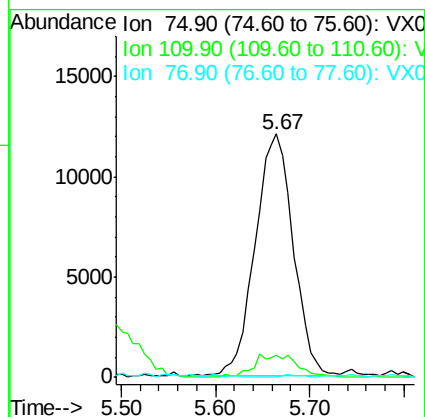
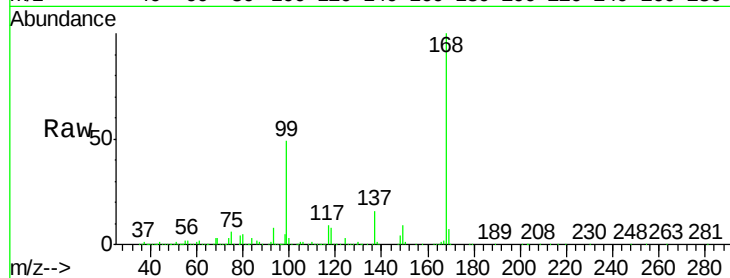
Tot Ion: 75 Resp: 34127

Ion Ratio Lower Upper

75 100

110 0.0 20.2 60.5#

77 0.5 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.664 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

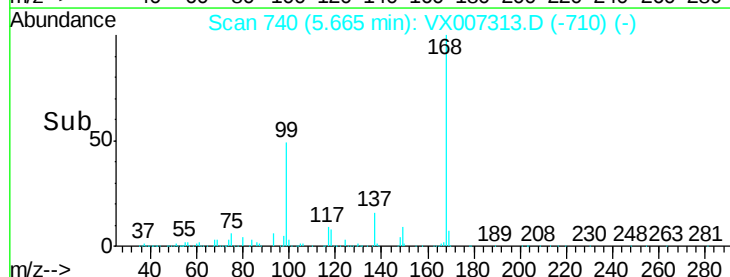
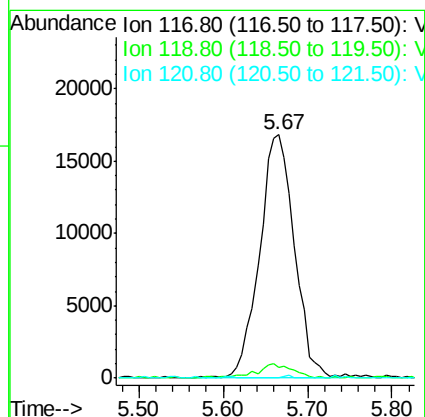
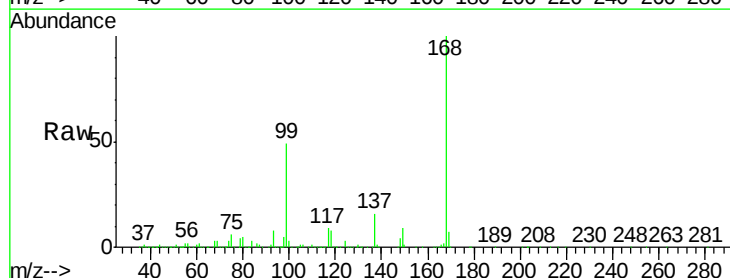
Tgt Ion:117 Resp: 47867

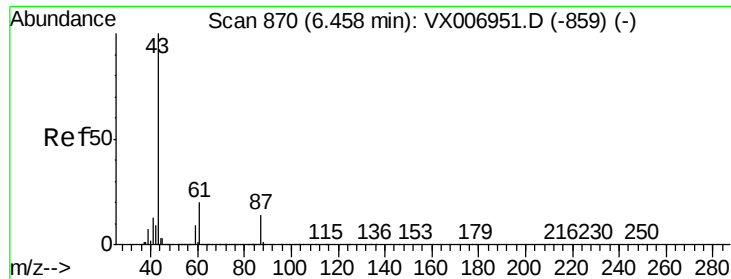
Ion Ratio Lower Upper

117 100

119 4.6 79.4 119.2#

121 0.4 24.0 36.0#



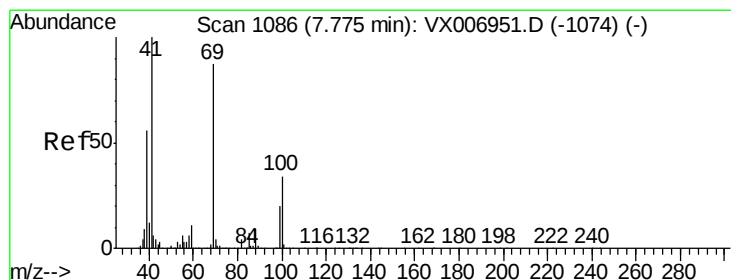
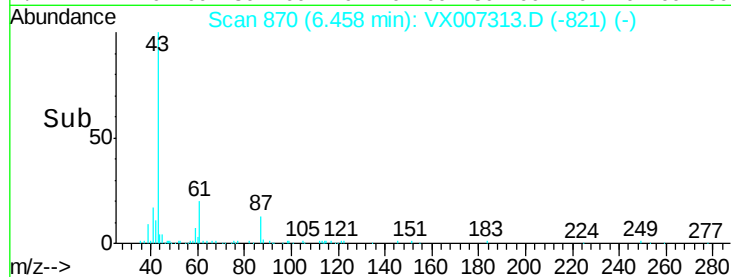
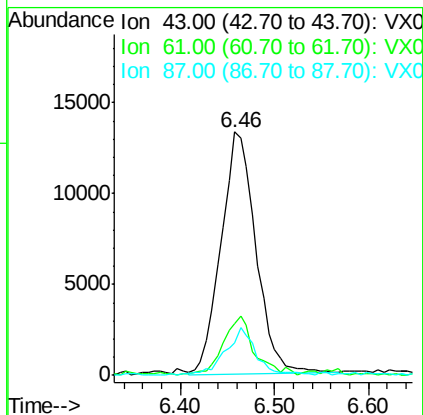
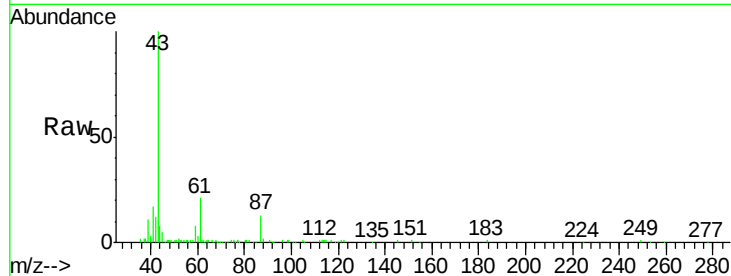


#43

Isopropyl Acetate
 Concen: 2.834 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.00 min
 Lab File: VX007313.D
 Acq: 30 Jan 2019 14:31

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116701ZHE#07

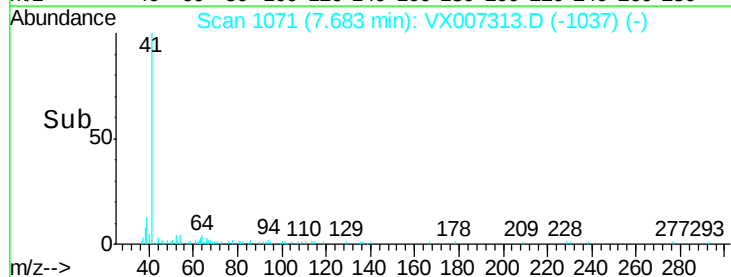
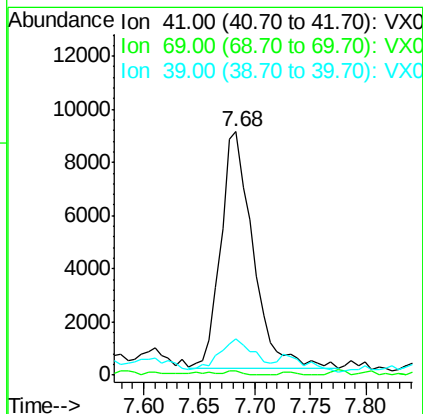
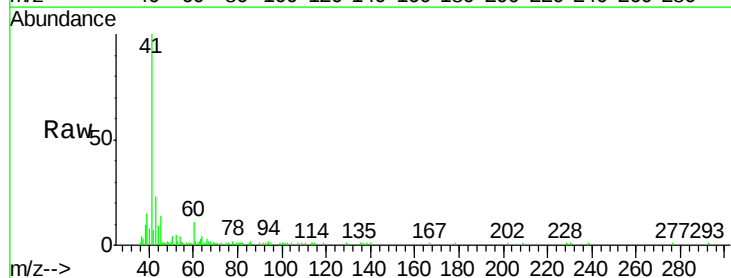
Tot Ion	43	Resp	34216
Ion Ratio	Lower	Upper	
43	100		
61	22.3	16.8	25.2
87	17.7	12.4	18.6

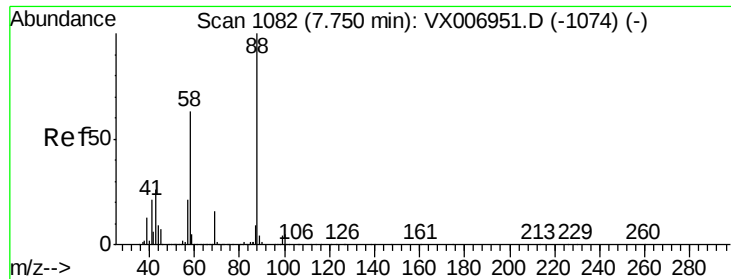


#48

Methyl methacrylate
 Concen: 2.902 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX007313.D
 Acq: 30 Jan 2019 14:31

Tgt Ion	41	Resp	17992
Ion Ratio	Lower	Upper	
41	100		
69	0.9	72.4	108.6#
39	0.0	45.8	68.8#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#07

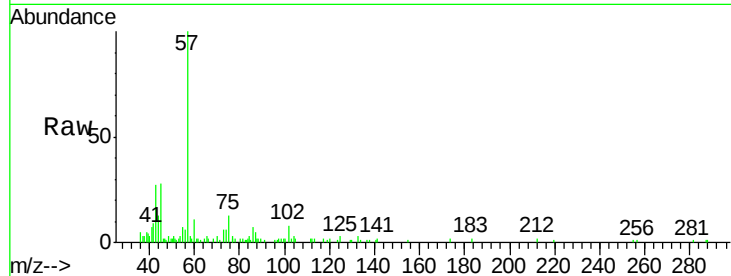
Tot Ion: 88 Resp: 296

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

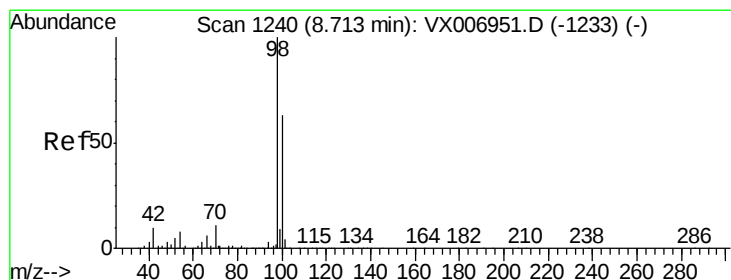
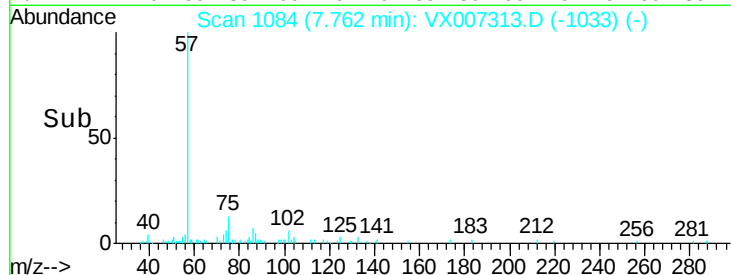
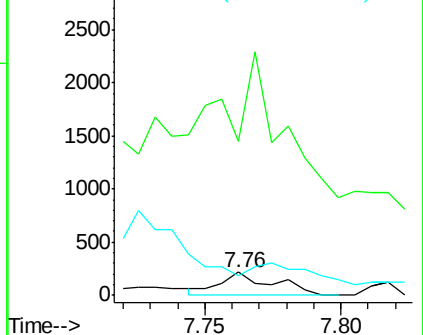
58 0.0 51.0 76.4#



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: 52.215 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007313.D

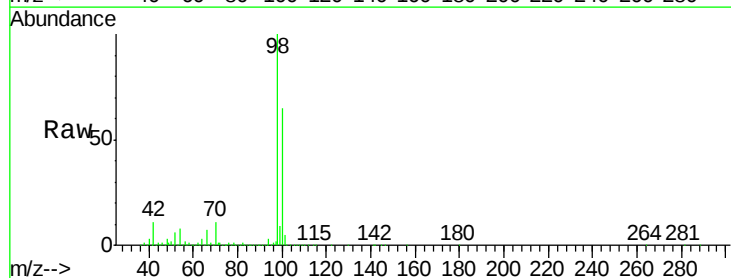
Acq: 30 Jan 2019 14:31

Tgt Ion: 98 Resp: 1004994

Ion Ratio Lower Upper

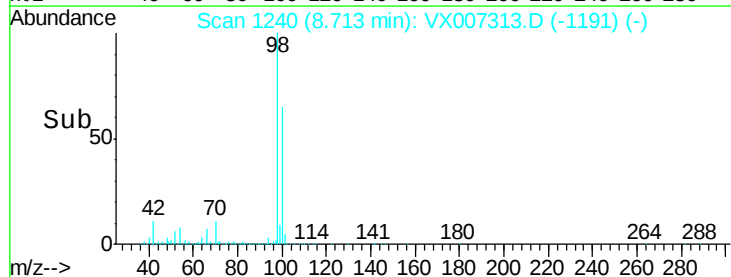
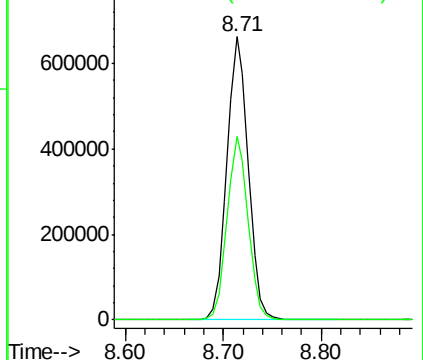
98 100

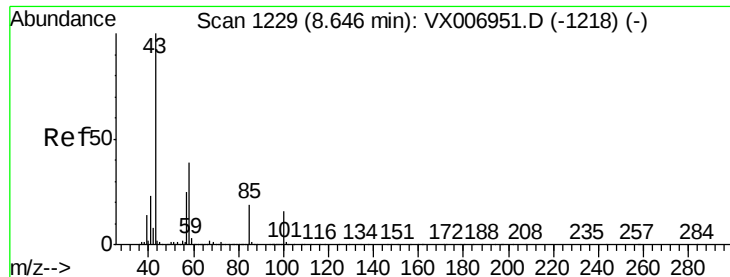
100 63.9 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 23.165 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

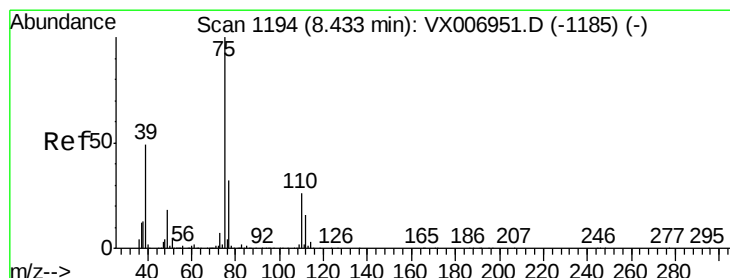
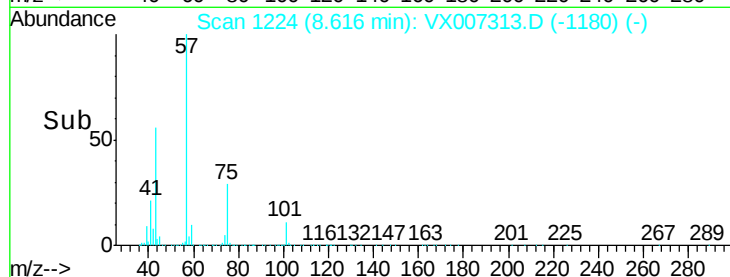
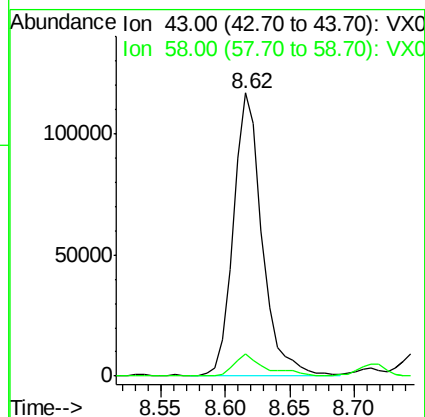
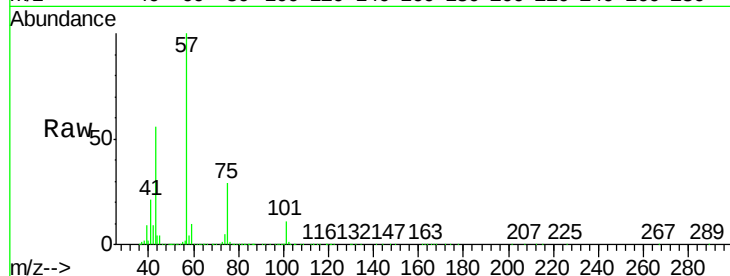
PB116701ZHE#07

Tot Ion: 43 Resp: 179724

Ion Ratio Lower Upper

43 100

58 8.7 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 11.198 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

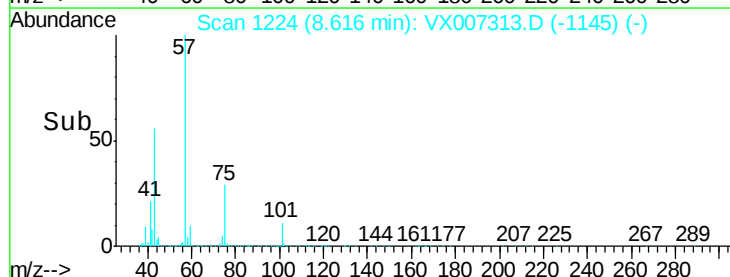
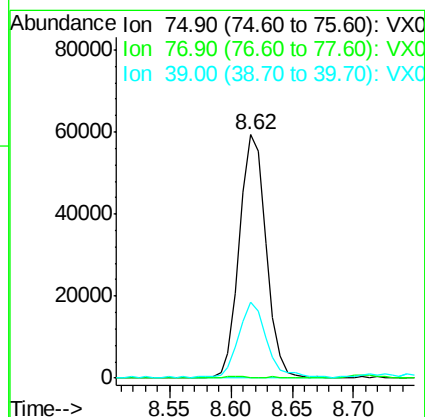
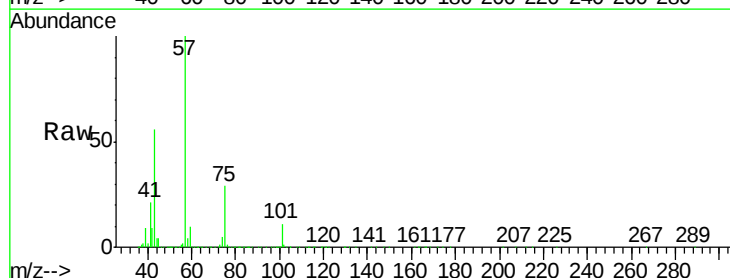
Tgt Ion: 75 Resp: 89834

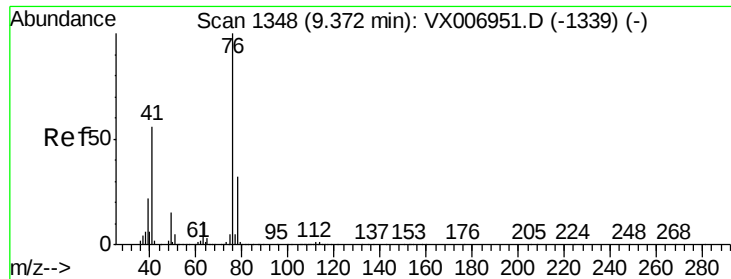
Ion Ratio Lower Upper

75 100

77 0.4 26.2 39.2#

39 30.8 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 2.068 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

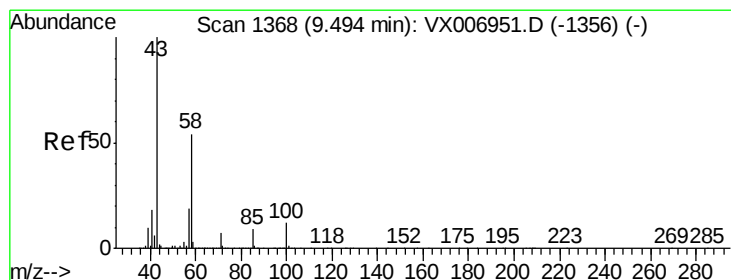
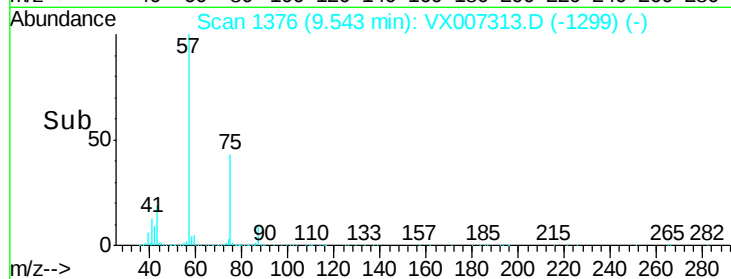
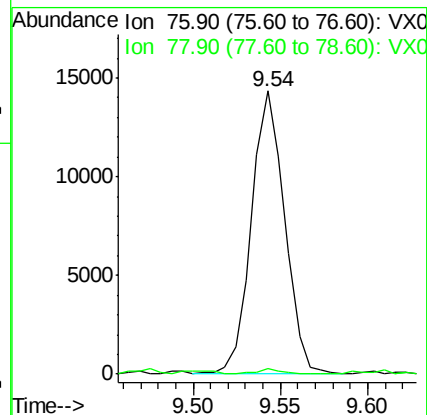
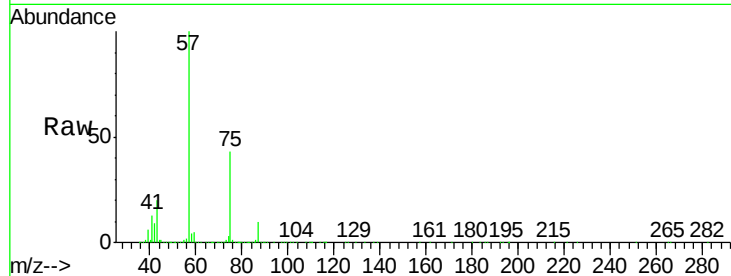
PB116701ZHE#07

Tot Ion: 76 Resp: 18984

Ion Ratio Lower Upper

76 100

78 1.6 26.0 39.0#



#59

2-Hexanone

Concen: 43.971 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007313.D

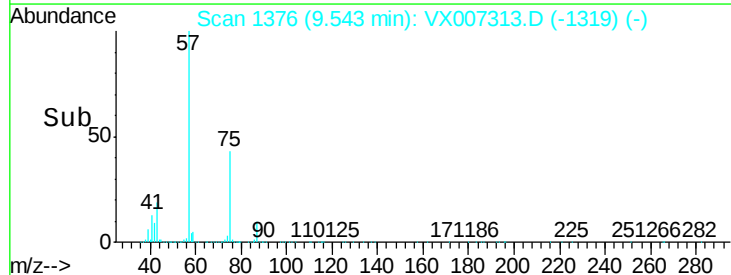
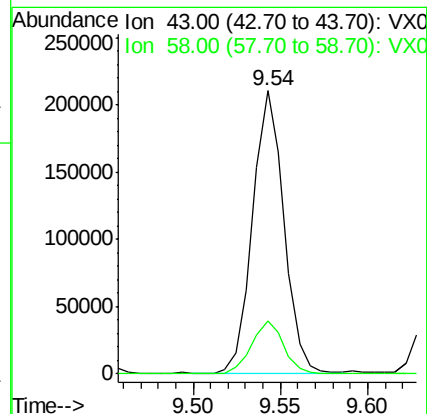
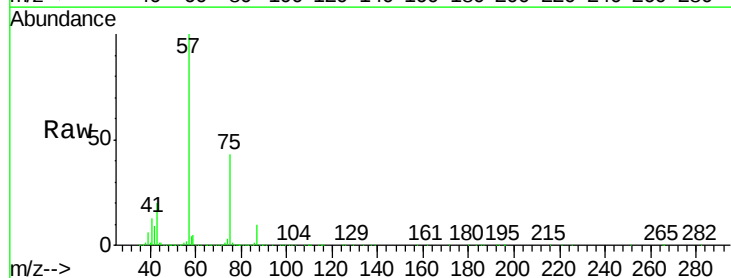
Acq: 30 Jan 2019 14:31

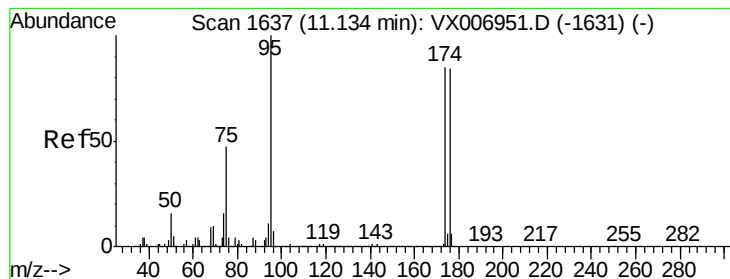
Tgt Ion: 43 Resp: 259975

Ion Ratio Lower Upper

43 100

58 19.7 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 52.837 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#07

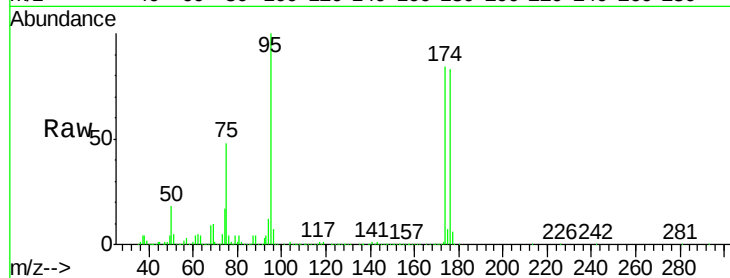
Tot Ion: 95 Resp: 354540

Ion Ratio Lower Upper

95 100

174 93.1 0.0 182.2

176 90.6 0.0 178.8

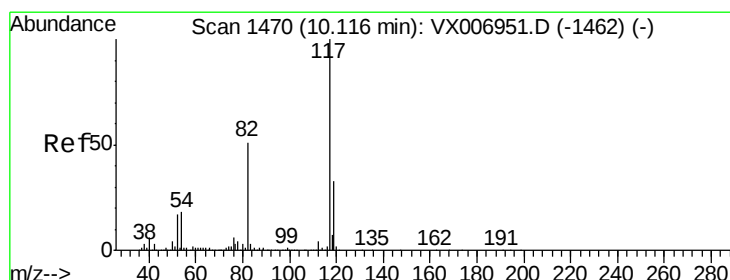
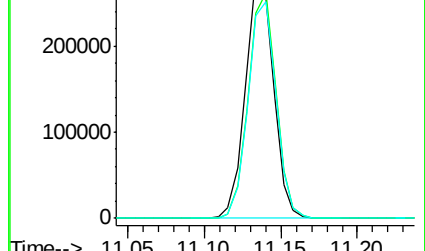
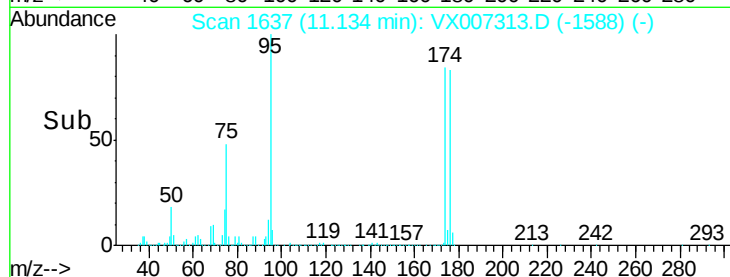


Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

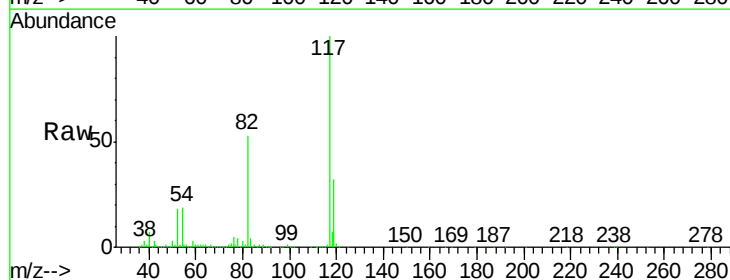
Tgt Ion: 117 Resp: 801699

Ion Ratio Lower Upper

117 100

82 52.8 41.0 61.6

119 32.4 25.4 38.0

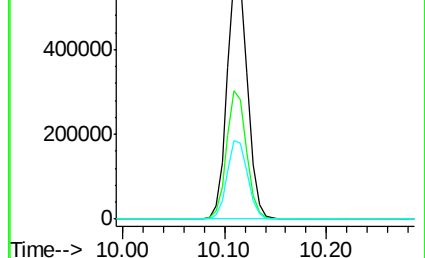
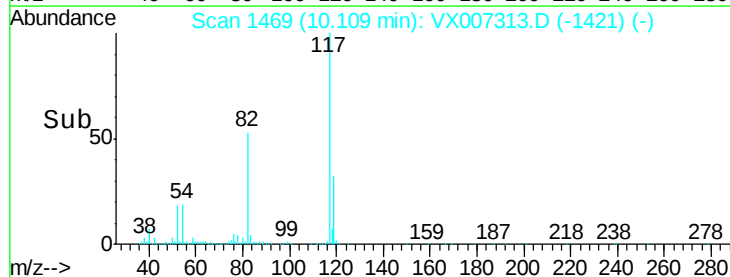


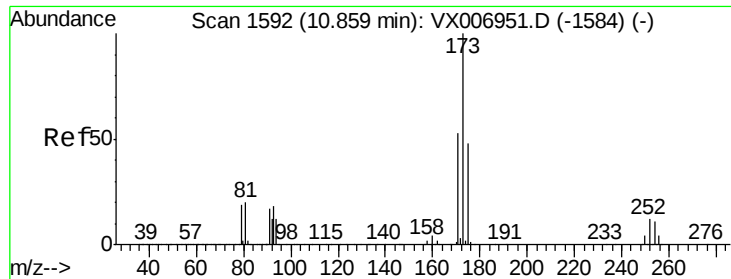
Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

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

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

Time-->





#71

Bromoform

Concen: 4.756 ug/l

RT: 10.84 min Scan# 1589

Delta R.T. -0.02 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#07

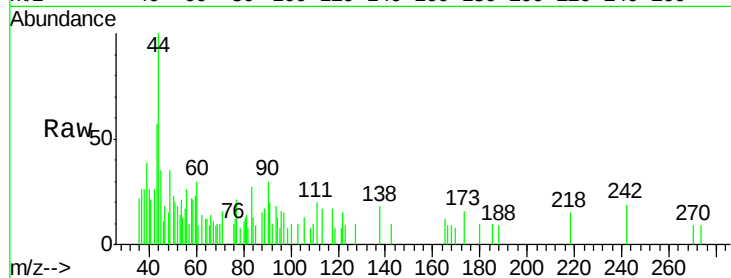
Tot Ion:173 Resp: 164

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

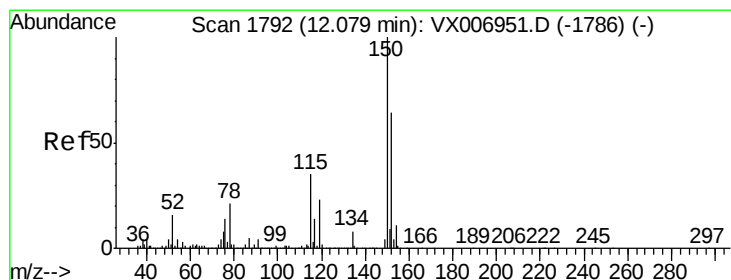
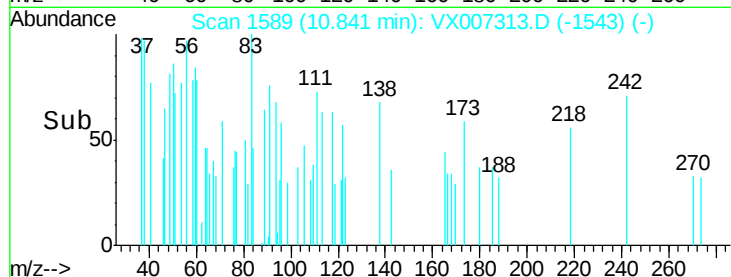
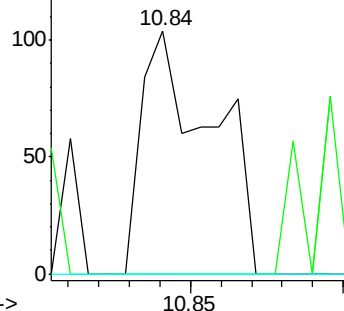
254 0.0 0.2 0.2#



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: VX007313.D

Acq: 30 Jan 2019 14:31

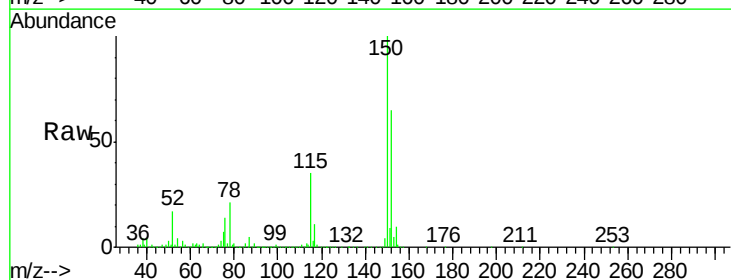
Tgt Ion:152 Resp: 383564

Ion Ratio Lower Upper

152 100

115 54.5 39.1 117.2

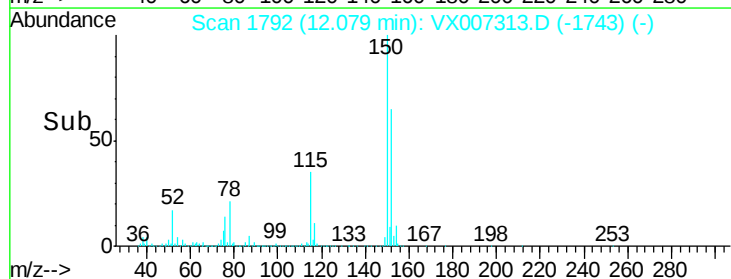
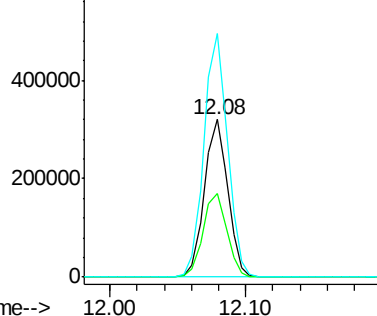
150 155.6 0.0 344.8

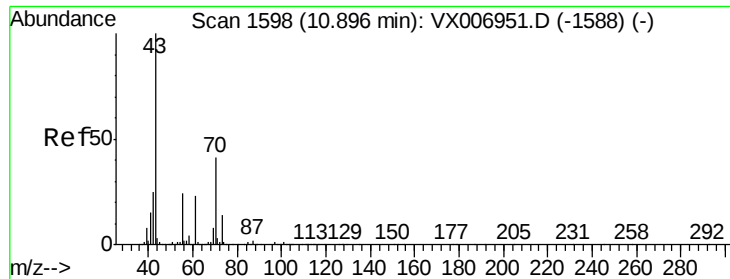


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.573 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

PB116701ZHE#07

Tot Ion: 43 Resp: 28014

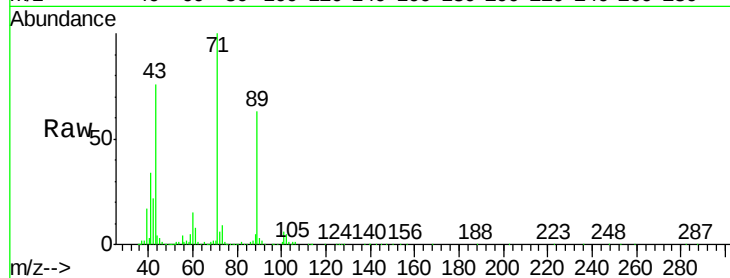
Ion Ratio Lower Upper

43 100

70 3.1 35.8 53.8#

55 5.9 19.4 29.0#

61 12.5 20.1 30.1#

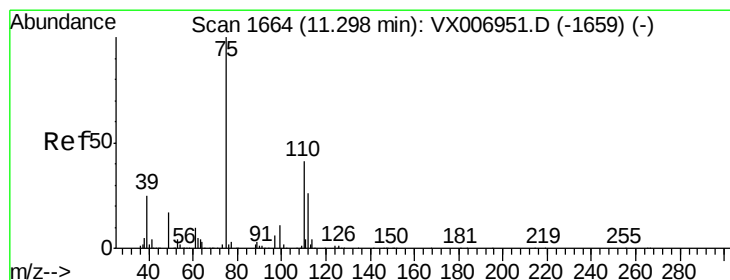
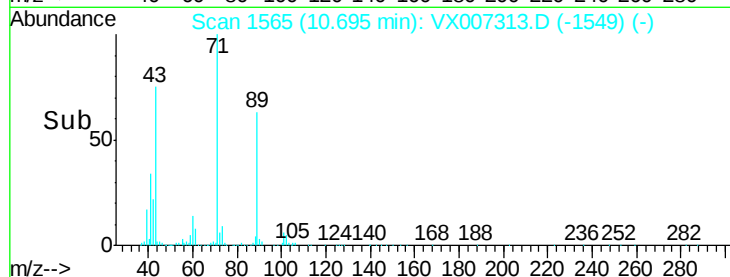
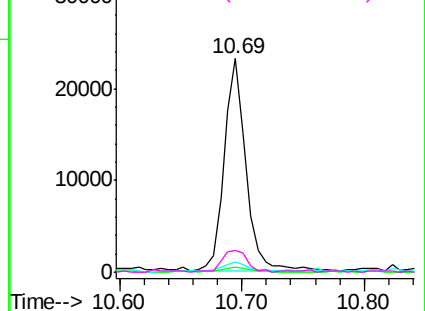


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.001 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007313.D

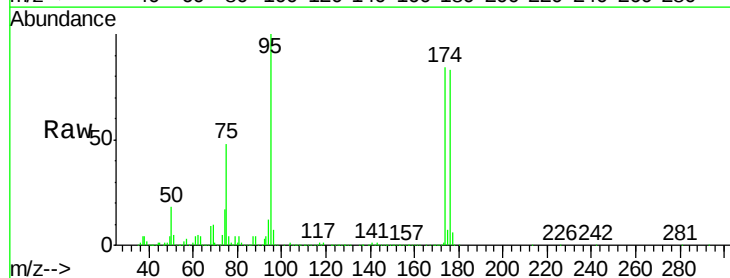
Acq: 30 Jan 2019 14:31

Tgt Ion: 75 Resp: 171008

Ion Ratio Lower Upper

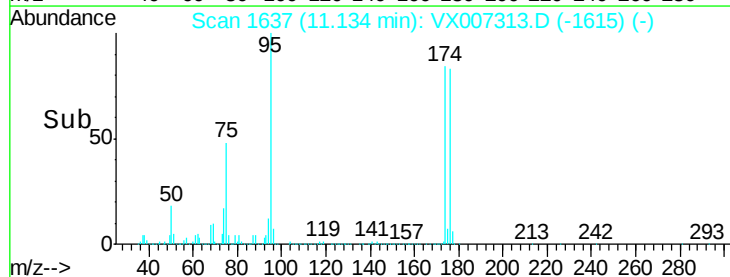
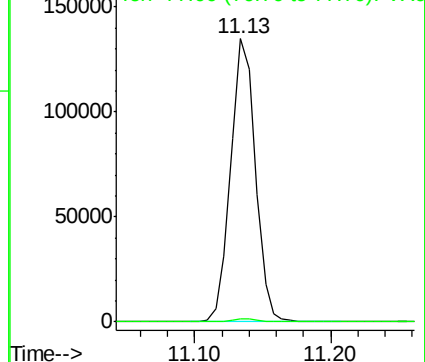
75 100

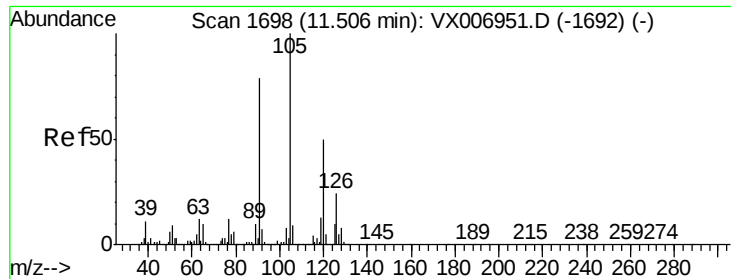
77 1.4 18.5 55.5#



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: 0.664 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

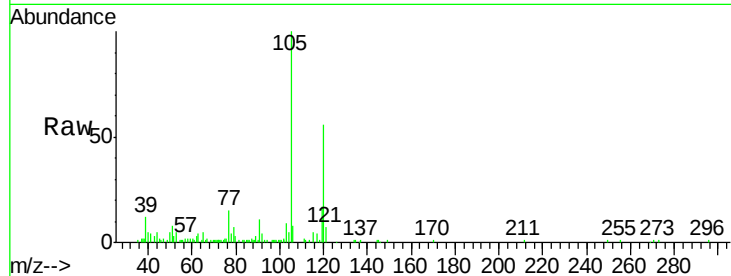
PB116701ZHE#07

Tot Ion:105 Resp: 15001

Ion Ratio Lower Upper

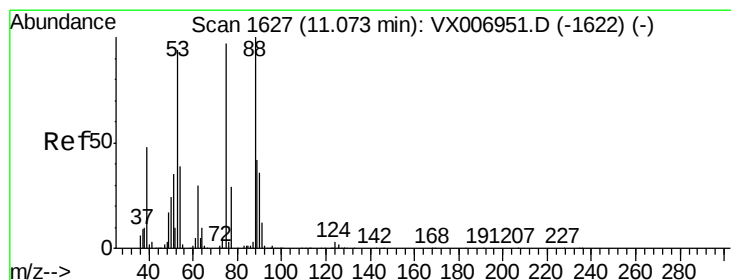
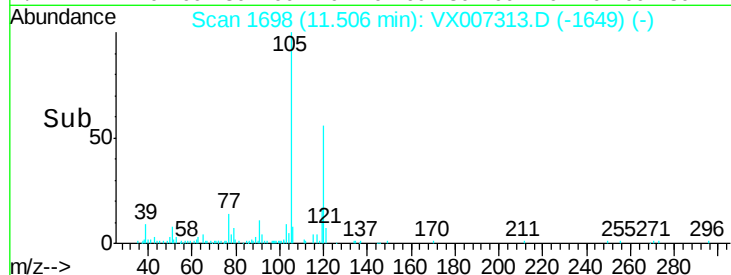
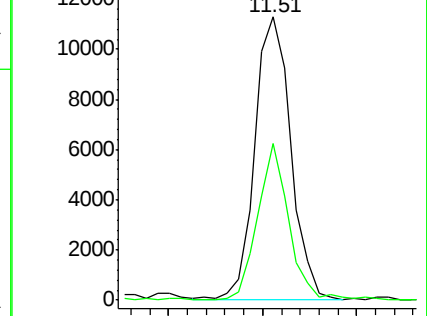
105 100

120 48.1 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: 65.155 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

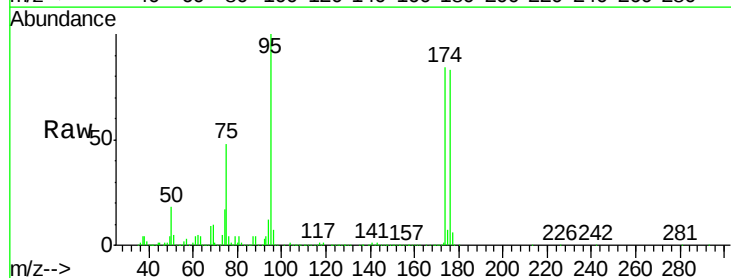
Tgt Ion: 75 Resp: 171008

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

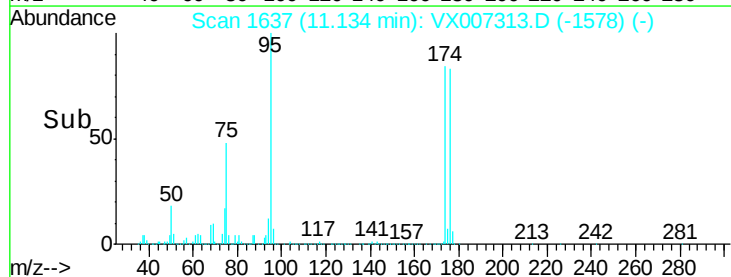
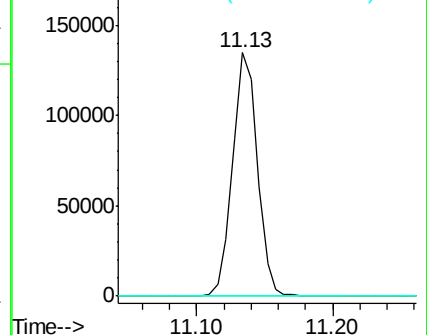
89 0.1 38.0 57.0#

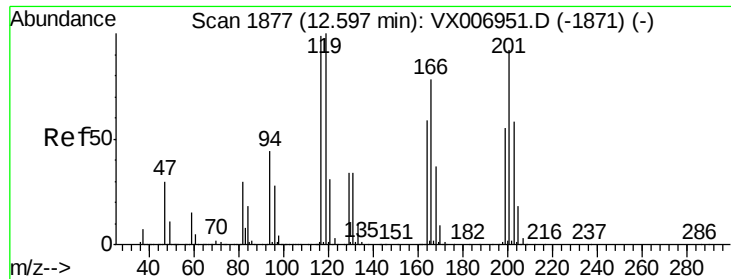


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.913 ug/l

RT: 12.61 min Scan# 1879

Delta R.T. 0.01 min

Lab File: VX007313.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_X

ClientSampleId :

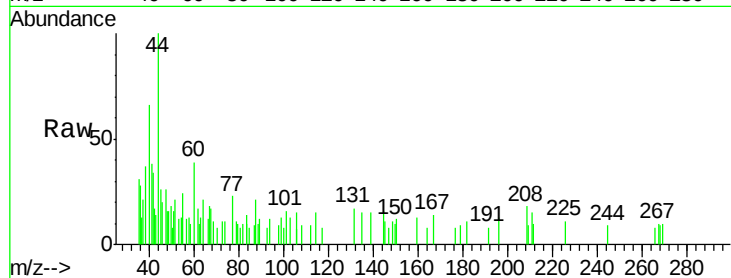
PB116701ZHE#07

Tot Ion:117 Resp: 19

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

