

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022119\
 Data File : VX007643.D
 Acq On : 21 Feb 2019 20:42
 Operator : JC/SP
 Sample : PB117250ZHE#17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#17

Quant Time: Feb 22 04:36:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	431498	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	721829	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	708356	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	330023	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	260015	56.77	ug/l	0.00
Spiked Amount			Recovery	=	113.54%	
35) Dibromofluoromethane	5.51	113	240125	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
50) Toluene-d8	8.71	98	883610	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
62) 4-Bromofluorobenzene	11.13	95	307949	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	

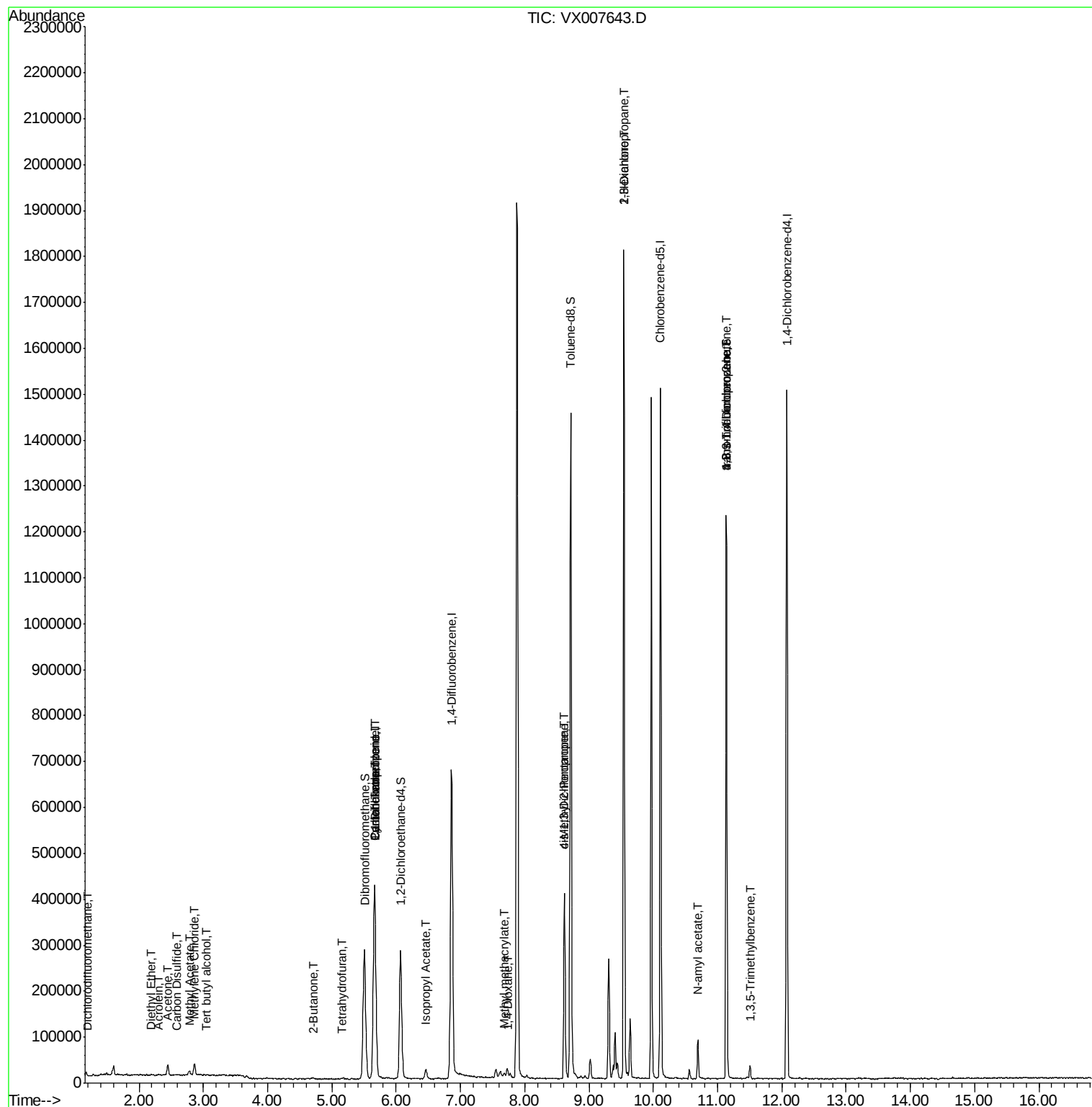
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	150	0.206	ug/l #	43
5) Bromomethane	1.67	94	395	Below Cal	#	40
8) Diethyl Ether	2.19	74	767	0.273	ug/l	53
11) Tert butyl alcohol	3.04	59	454	0.479	ug/l #	73
13) Acrolein	2.30	56	270	0.607	ug/l #	80
16) Acetone	2.45	43	25568	12.187	ug/l	96
17) Carbon Disulfide	2.59	76	408	2.157	ug/l #	86
18) Methyl Acetate	2.78	43	13661	3.063	ug/l	98
20) Methylene Chloride	2.86	84	12529	2.550	ug/l	97
25) 2-Butanone	4.70	43	5730	1.919	ug/l	96
29) Tetrahydrofuran	5.15	42	2597	1.383	ug/l #	68
31) Cyclohexane	5.66	56	7711	1.211	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	29636	4.576	ug/l #	39
38) Carbon Tetrachloride	5.67	117	40480	6.443	ug/l #	16
43) Isopropyl Acetate	6.46	43	24557	2.430	ug/l	95
48) Methyl methacrylate	7.69	41	12588	2.490	ug/l #	13
49) 1,4-Dioxane	7.75	88	131	8.011	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	127778	19.208	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	64429	9.264	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	16291	1.997	ug/l #	45
59) 2-Hexanone	9.54	43	194681	37.607	ug/l #	53
74) N-amyl acetate	10.69	43	19452	2.242	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	150922	23.510	ug/l #	32
80) 1,3,5-Trimethylbenzene	11.51	105	11746	0.640	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	150922	70.752	ug/l #	9

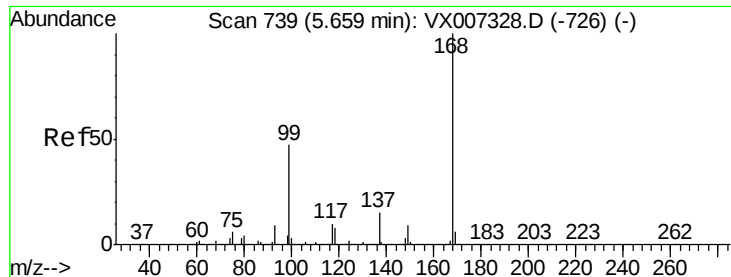
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 22 04:36:13 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

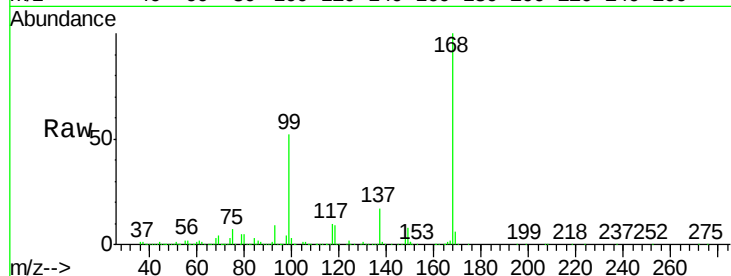
PB117250ZHE#17

Tot Ion:168 Resp: 431498

Ion Ratio Lower Upper

168 100

99 52.1 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

150000

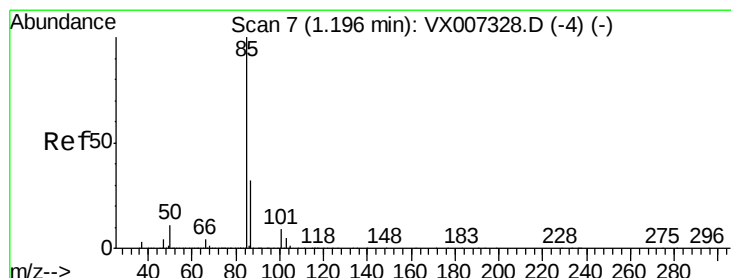
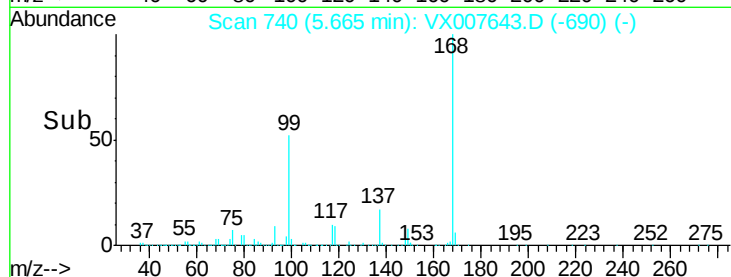
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.206 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX007643.D

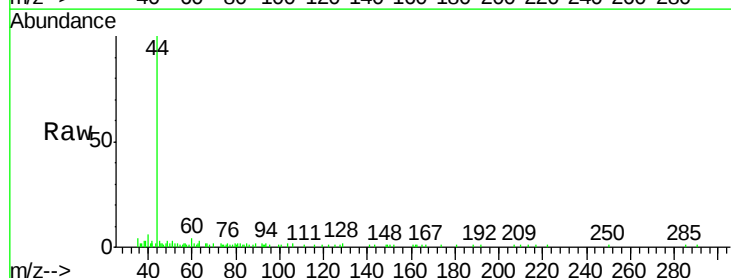
Acq: 21 Feb 2019 20:42

Tgt Ion: 85 Resp: 150

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

250

200

150

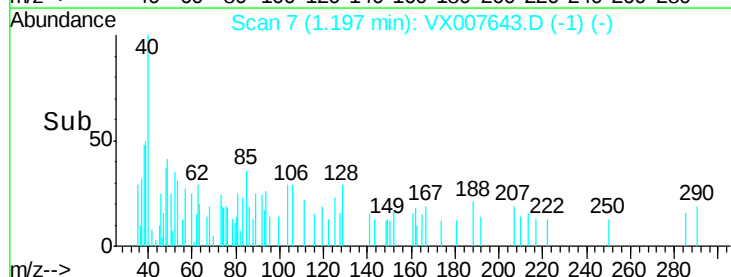
100

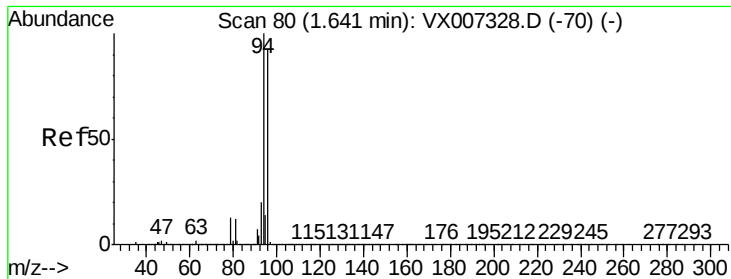
50

0

Time-->

1.19 1.20 1.21





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 84

Delta R.T. 0.03 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

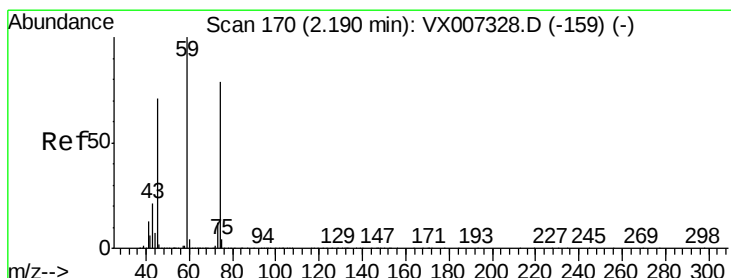
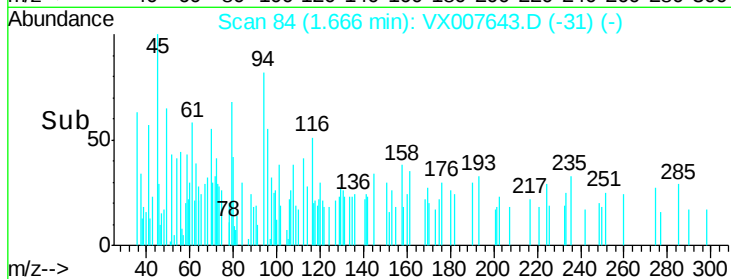
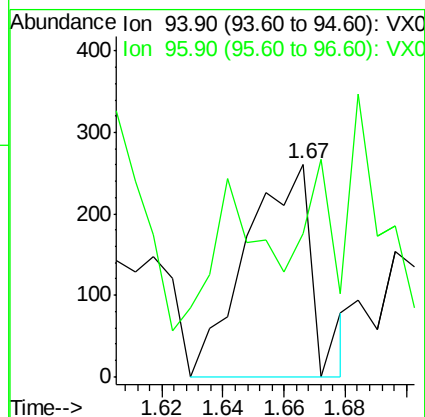
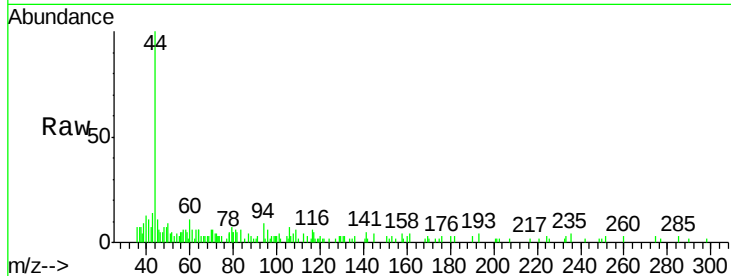
PB117250ZHE#17

Tot Ion: 94 Resp: 395

Ion Ratio Lower Upper

94 100

96 34.9 73.9 110.9#



#8

Diethyl Ether

Concen: 0.273 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX007643.D

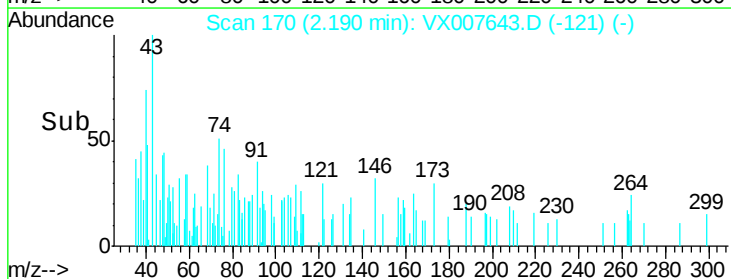
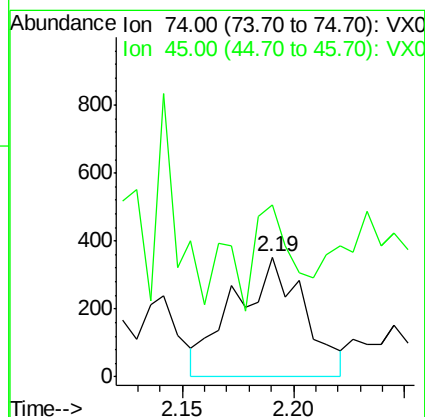
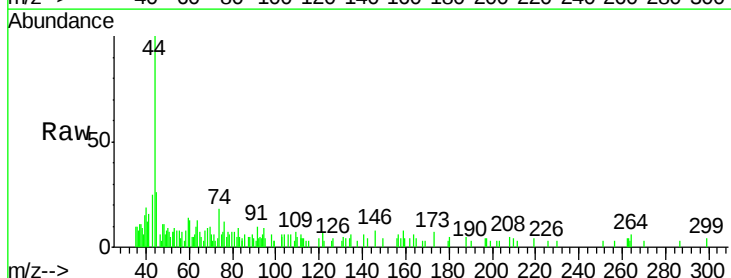
Acq: 21 Feb 2019 20:42

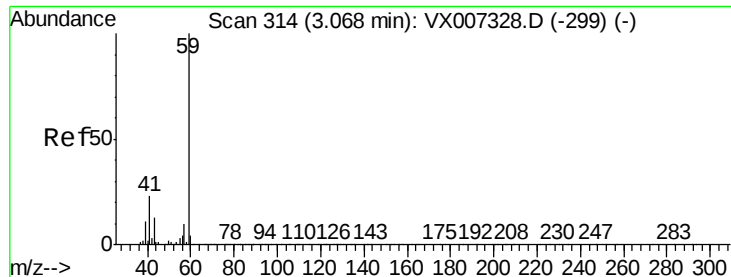
Tgt Ion: 74 Resp: 767

Ion Ratio Lower Upper

74 100

45 47.2 45.7 137.1



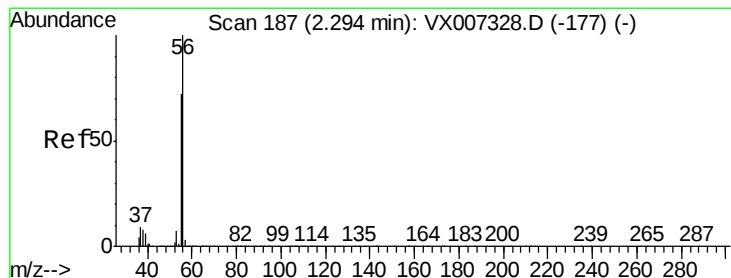
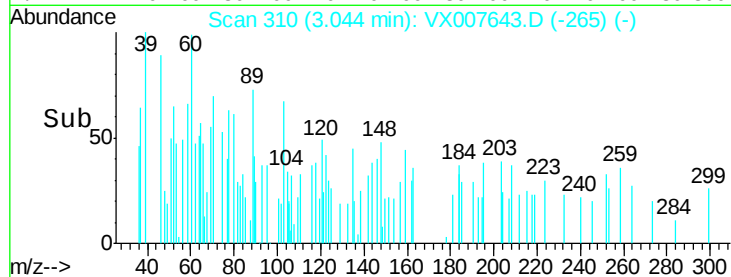
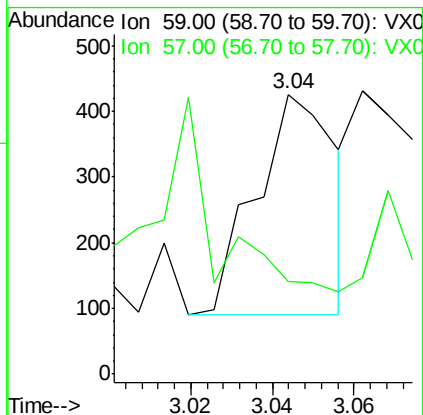
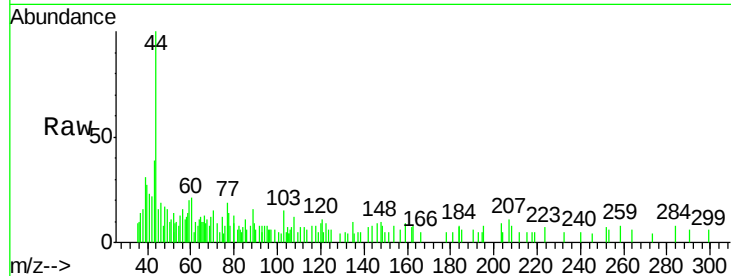


#11

Tert butyl alcohol
 Concen: 0.479 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. -0.02 min
 Lab File: VX007643.D
 Acq: 21 Feb 2019 20:42

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#17

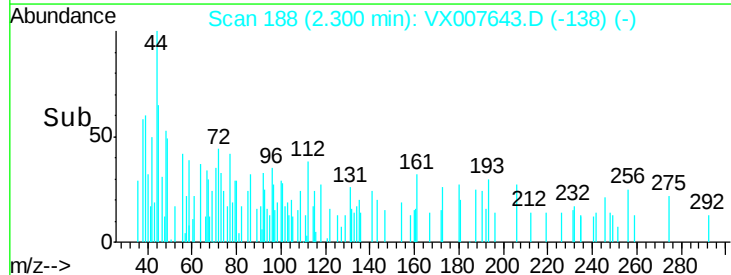
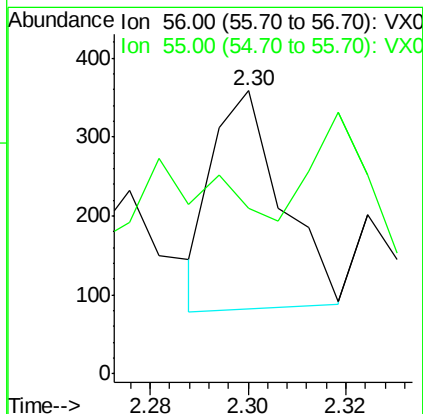
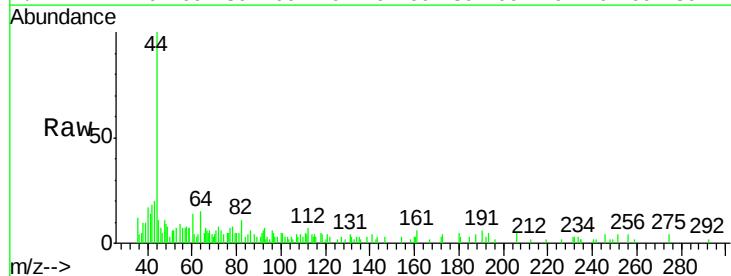
Tot Ion: 59 Resp: 454
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

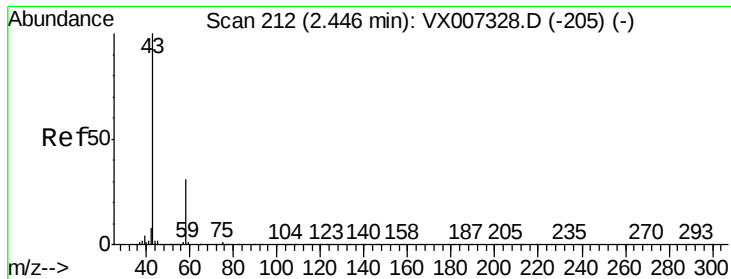


#13

Acrolein
 Concen: 0.607 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX007643.D
 Acq: 21 Feb 2019 20:42

Tgt Ion: 56 Resp: 270
 Ion Ratio Lower Upper
 56 100
 55 54.8 56.9 85.3#





#16

Acetone

Concen: 12.187 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

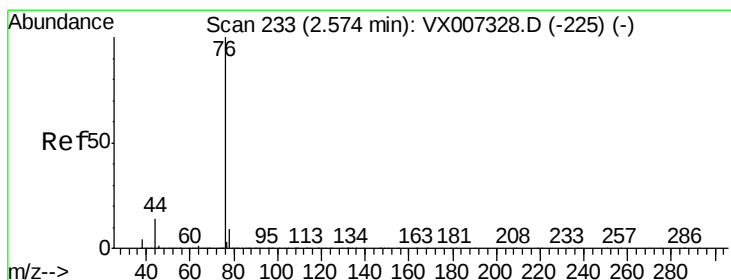
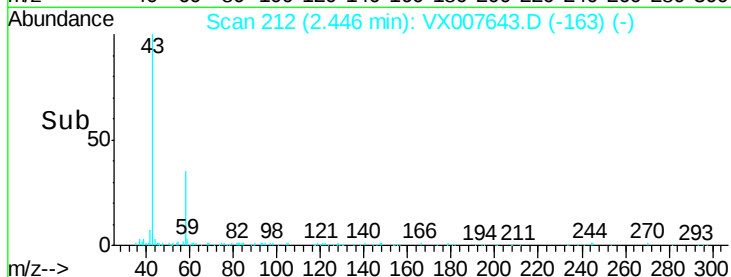
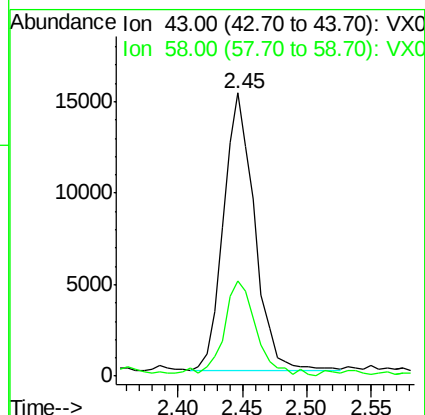
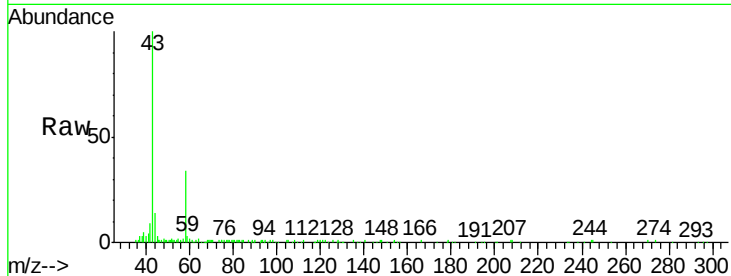
PB117250ZHE#17

Tot Ion: 43 Resp: 25568

Ion Ratio Lower Upper

43 100

58 33.0 24.9 37.3



#17

Carbon Disulfide

Concen: 2.157 ug/l

RT: 2.59 min Scan# 235

Delta R.T. 0.01 min

Lab File: VX007643.D

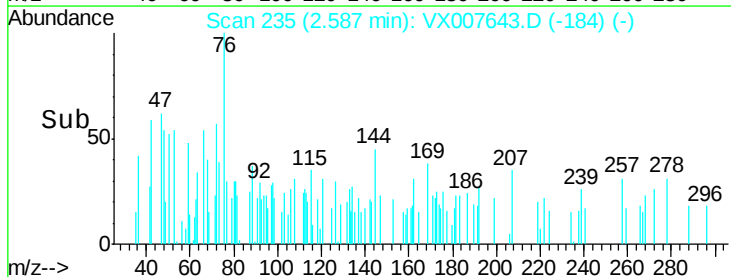
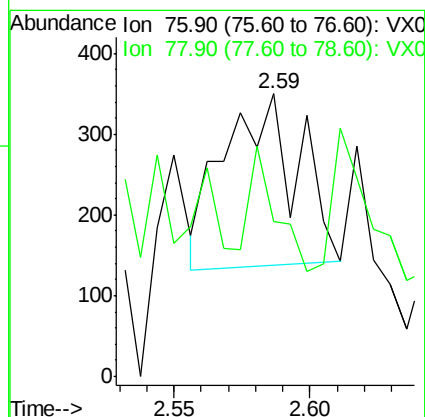
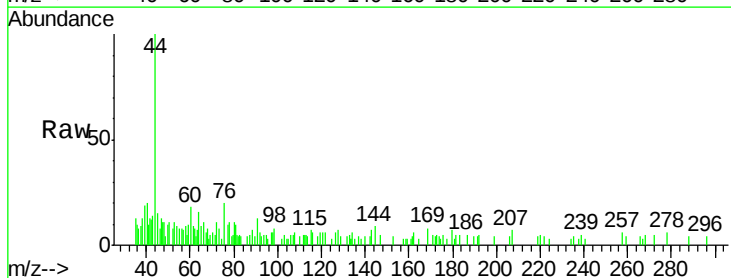
Acq: 21 Feb 2019 20:42

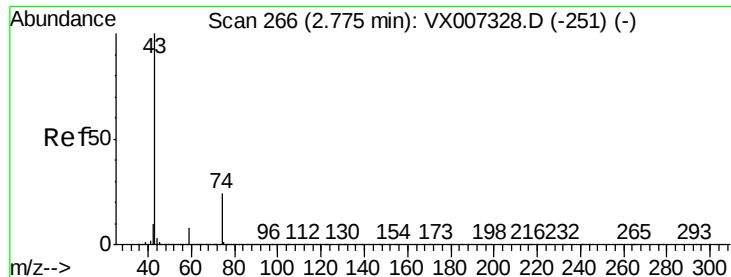
Tgt Ion: 76 Resp: 408

Ion Ratio Lower Upper

76 100

78 4.0 7.1 10.7#

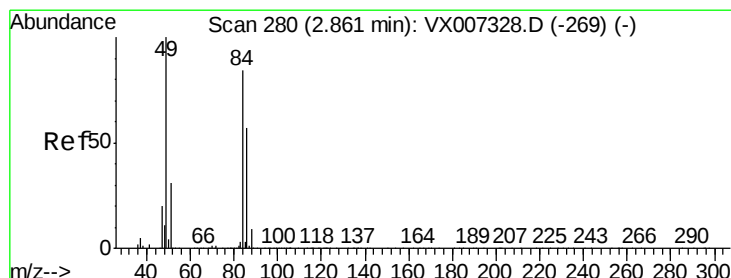
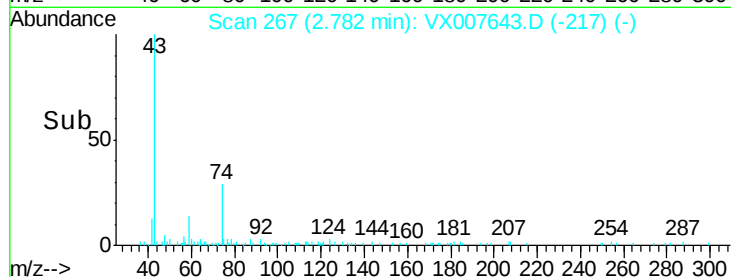
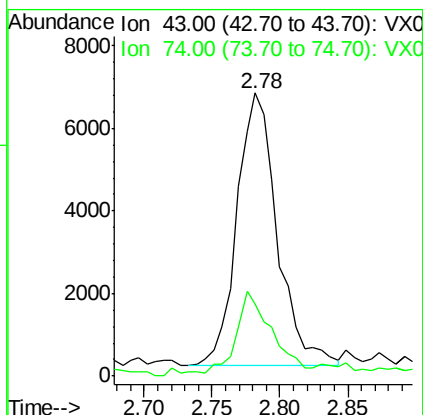
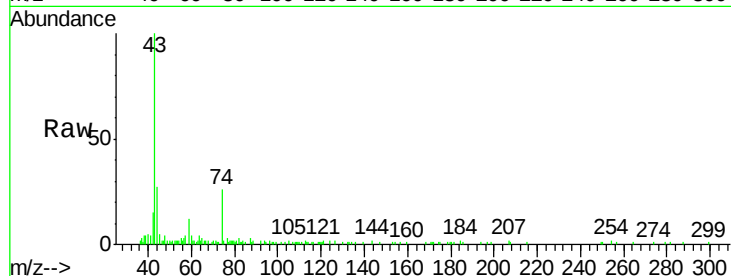




#18
Methyl Acetate
Concen: 3.063 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007643.D
Acq: 21 Feb 2019 20:42

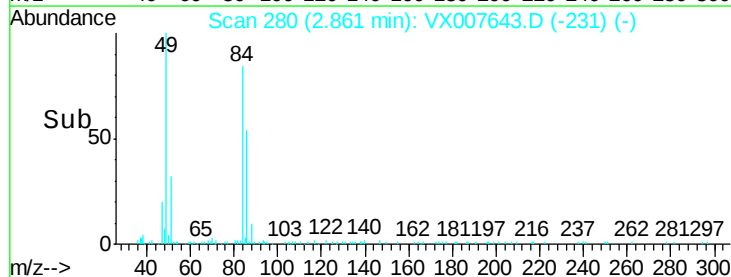
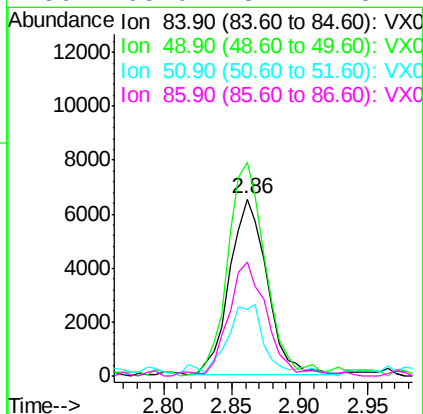
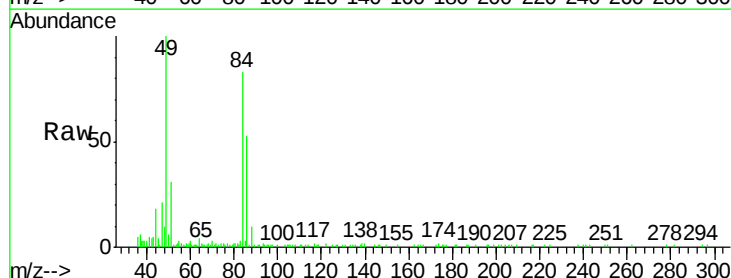
Instrument :
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PB117250ZHE#17

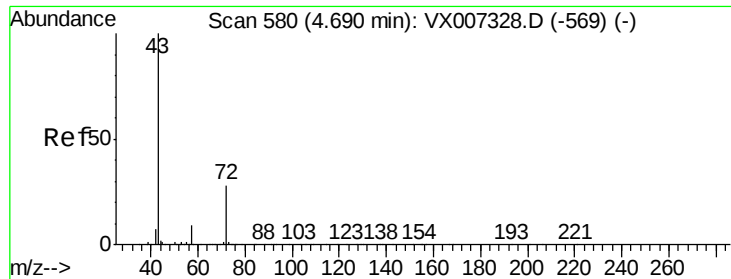
Tot Ion: 43 Resp: 13661
Ion Ratio Lower Upper
43 100
74 25.3 19.4 29.2



#20
Methylene Chloride
Concen: 2.550 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007643.D
Acq: 21 Feb 2019 20:42

Tgt Ion: 84 Resp: 12529
Ion Ratio Lower Upper
84 100
49 120.9 94.8 142.2
51 37.8 29.8 44.8
86 63.0 54.1 81.1





#25

2-Butanone

Concen: 1.919 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

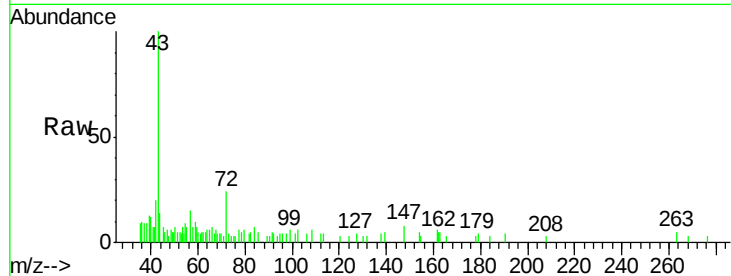
PB117250ZHE#17

Tot Ion: 43 Resp: 5730

Ion Ratio Lower Upper

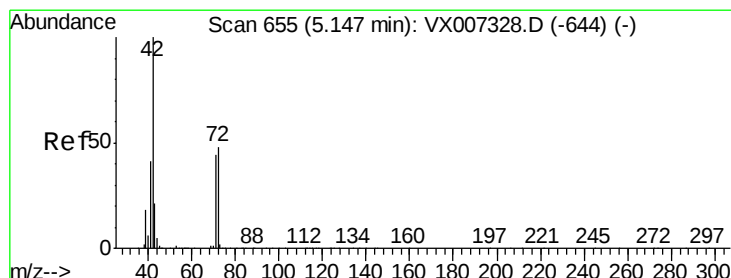
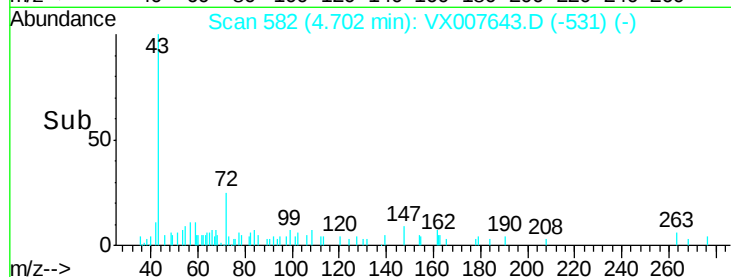
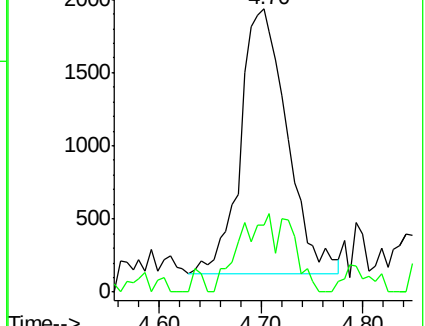
43 100

72 25.5 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.383 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.01 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

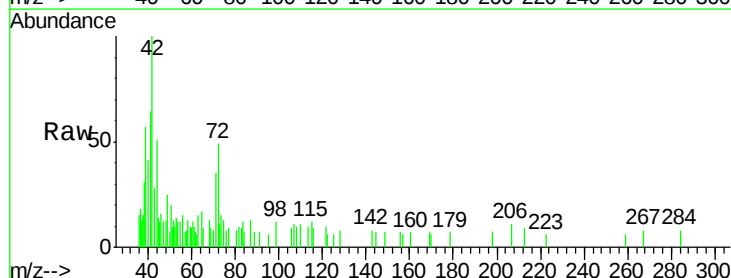
Tgt Ion: 42 Resp: 2597

Ion Ratio Lower Upper

42 100

72 39.2 37.6 56.4

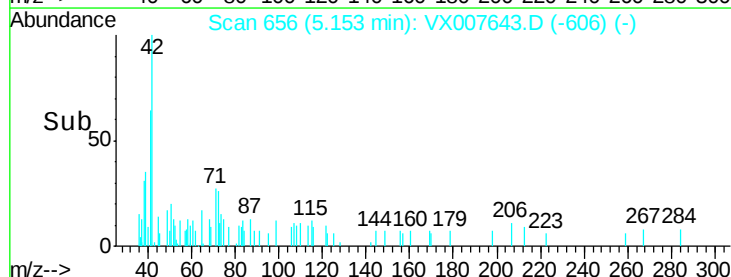
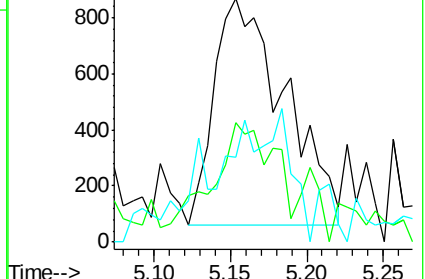
71 8.5 34.6 51.8#

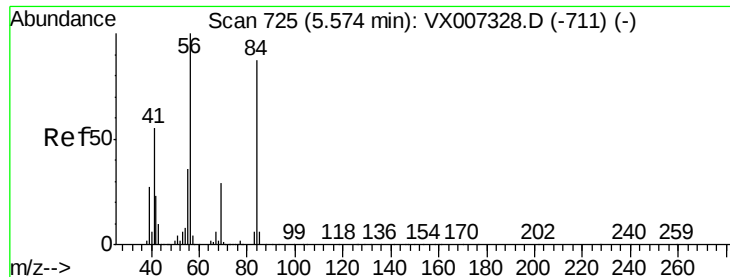


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.211 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#17

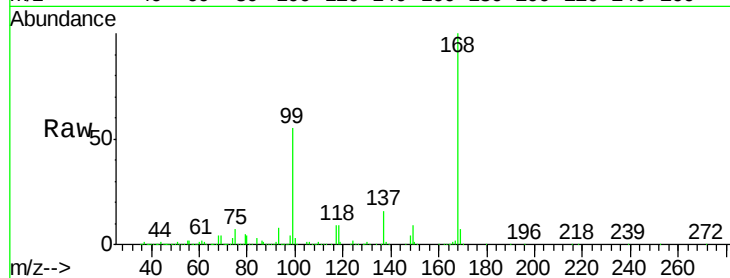
Tot Ion: 56 Resp: 7711

Ion Ratio Lower Upper

56 100

69 201.3 23.0 34.6#

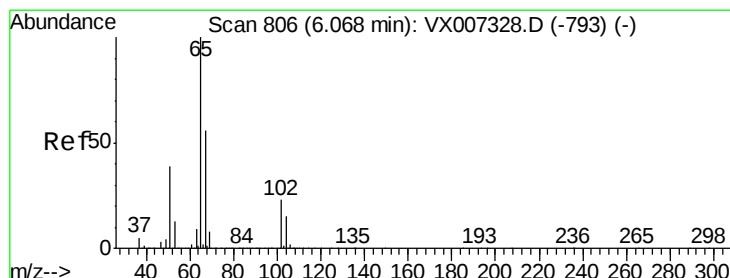
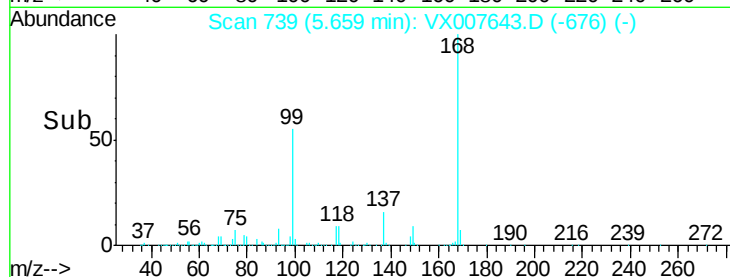
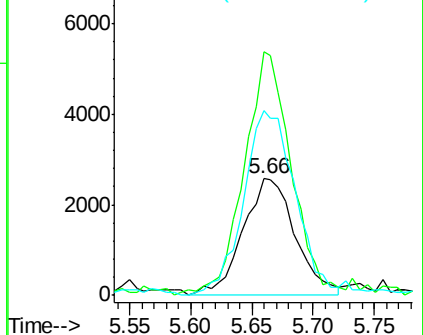
84 158.2 69.8 104.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 56.772 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007643.D

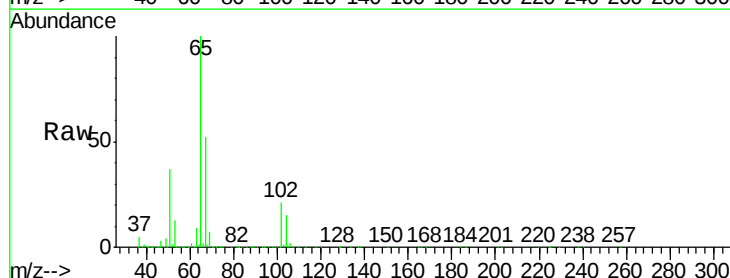
Acq: 21 Feb 2019 20:42

Tgt Ion: 65 Resp: 260015

Ion Ratio Lower Upper

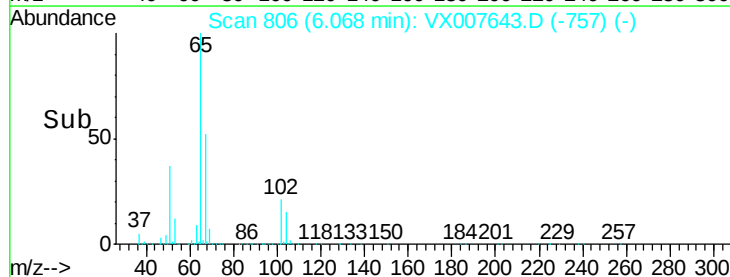
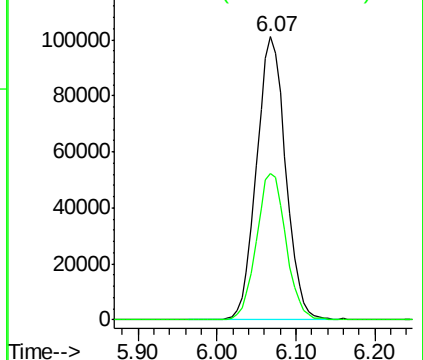
65 100

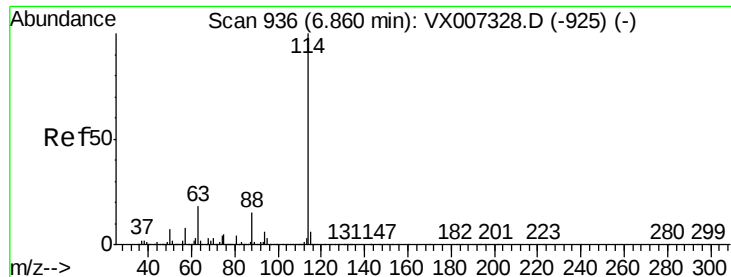
67 52.5 0.0 108.8



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: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#17

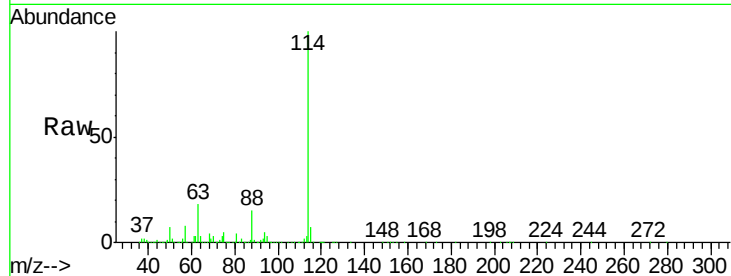
Tot Ion:114 Resp: 721829

Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.6

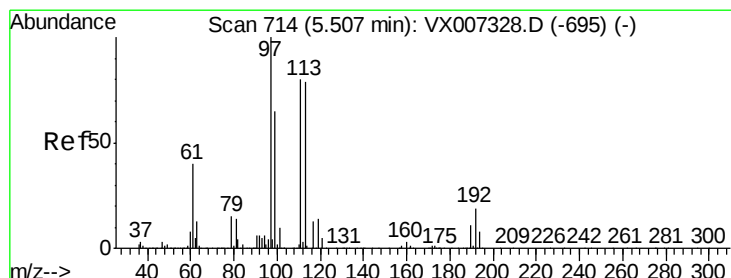
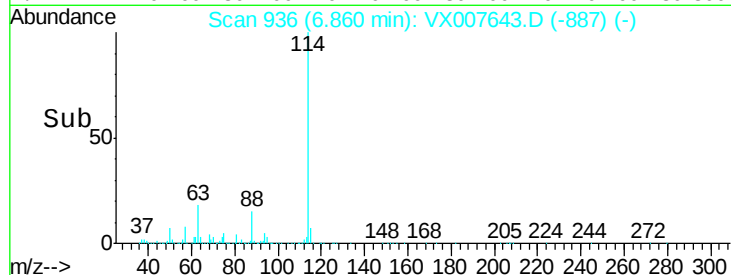
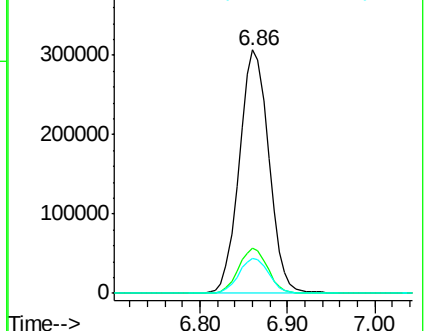
88 14.6 0.0 29.6



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: 51.126 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

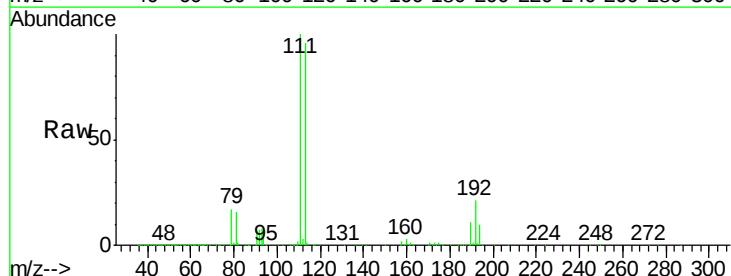
Tgt Ion:113 Resp: 240125

Ion Ratio Lower Upper

113 100

111 101.2 81.8 122.8

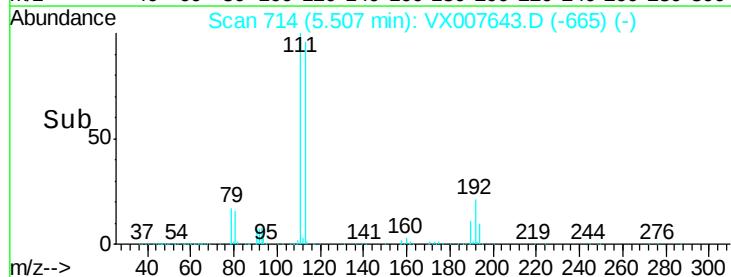
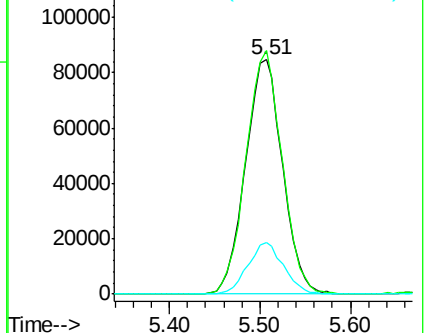
192 21.3 18.5 27.7

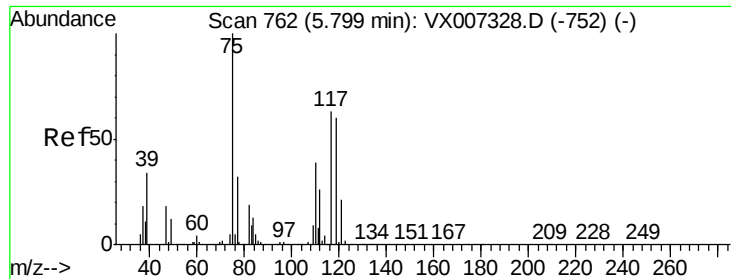


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

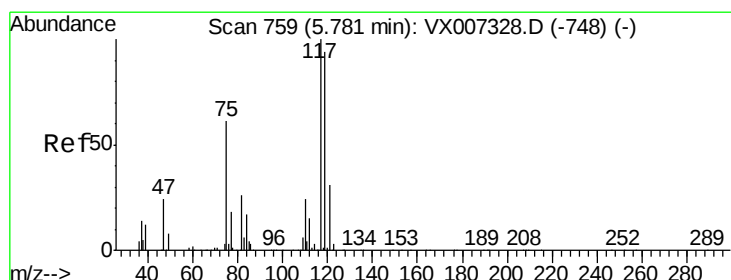
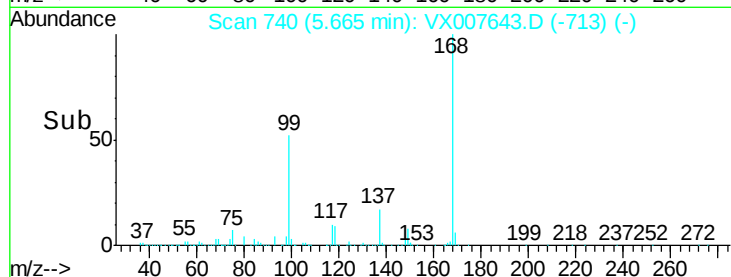
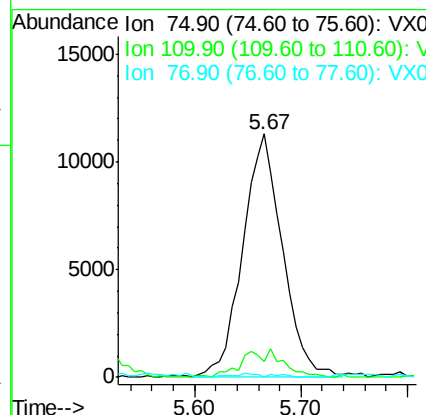
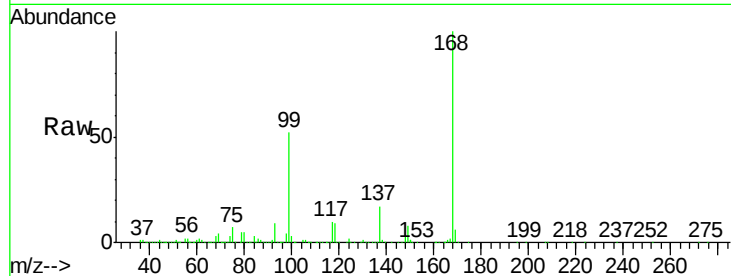




#36
 1,1-Dichloropropene
 Concen: 4.576 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007643.D
 Acq: 21 Feb 2019 20:42

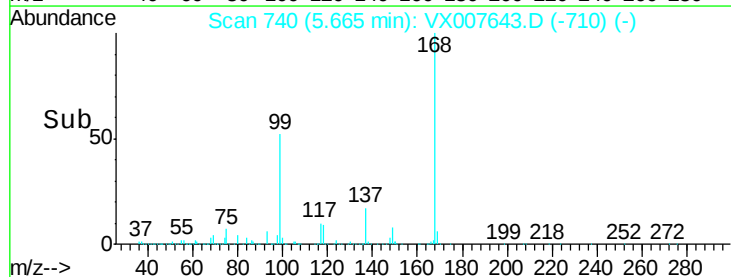
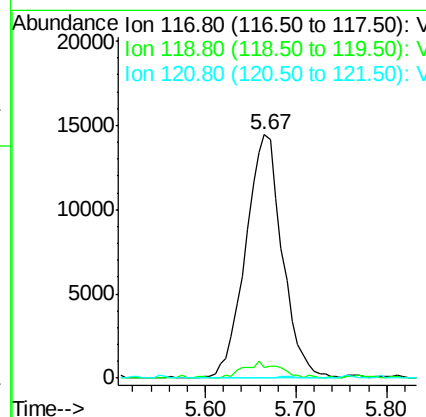
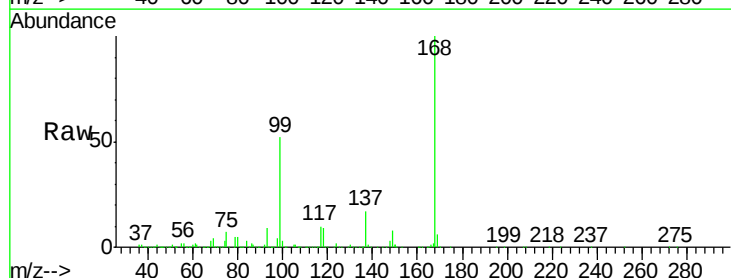
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#17

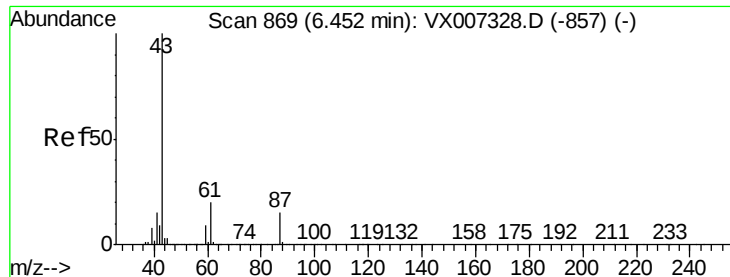
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	20.0	59.9#
77	0.5	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.443 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007643.D
 Acq: 21 Feb 2019 20:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	75.3	112.9#
121	0.0	25.0	37.4#



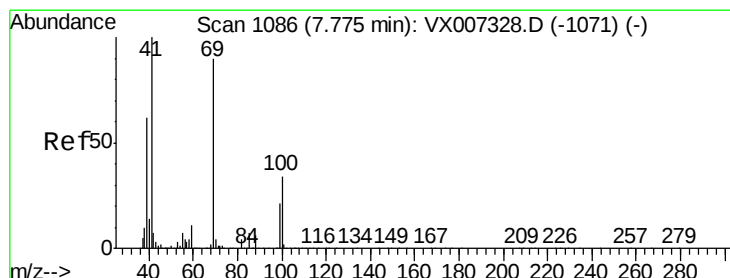
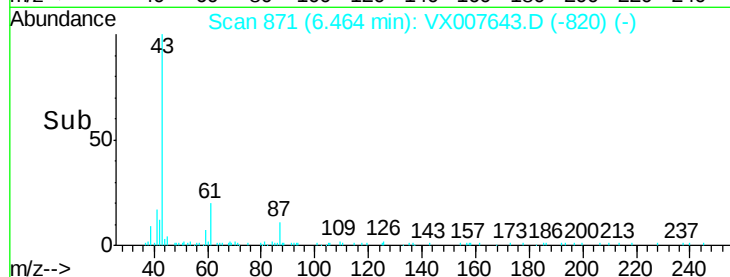
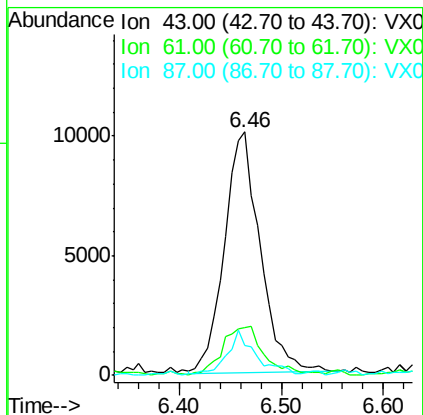
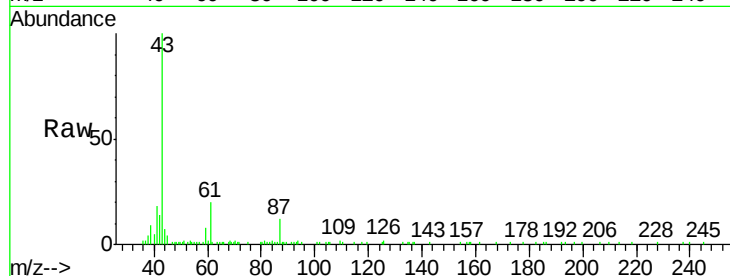


#43

Isopropyl Acetate
 Concen: 2.430 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX007643.D
 Acq: 21 Feb 2019 20:42

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#17

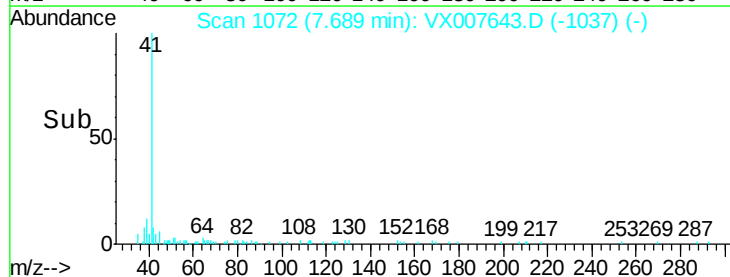
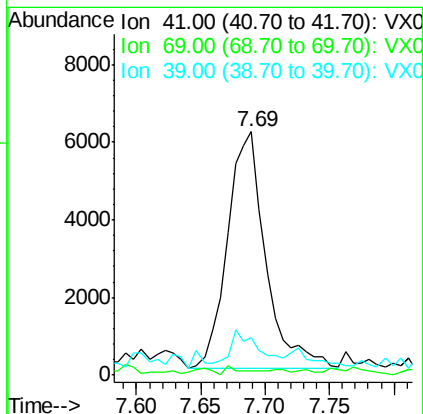
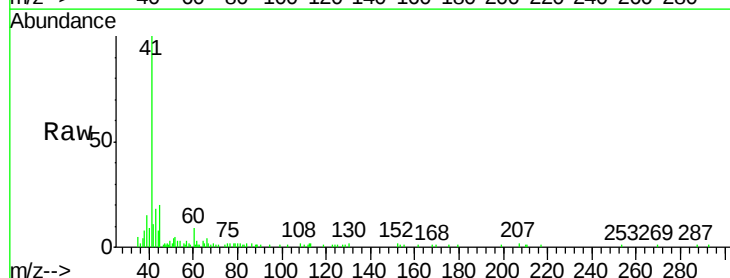
Tot Ion	Ratio	Lower	Upper
43	100		
61	23.4	16.1	24.1
87	15.3	11.5	17.3

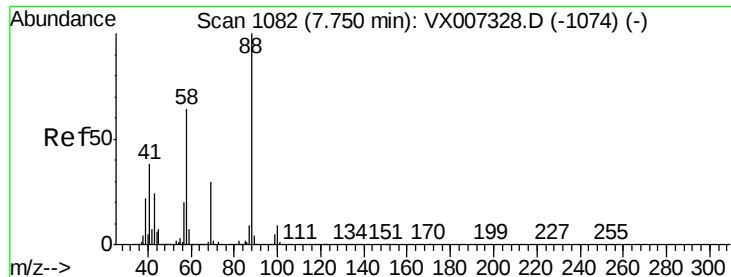


#48

Methyl methacrylate
 Concen: 2.490 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX007643.D
 Acq: 21 Feb 2019 20:42

Tgt Ion	Ratio	Lower	Upper
41	100		
69	1.7	70.2	105.4#
39	0.0	47.4	71.0#





#49

1,4-Dioxane

Concen: 8.011 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#17

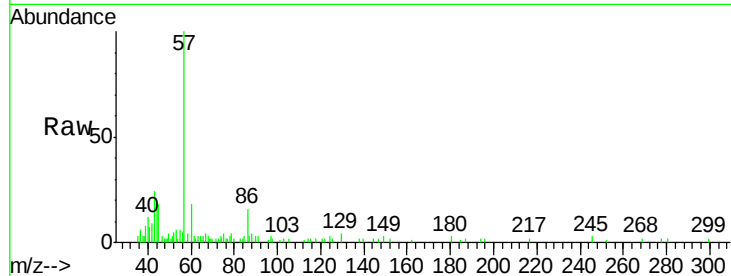
Tot Ion: 88 Resp: 131

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

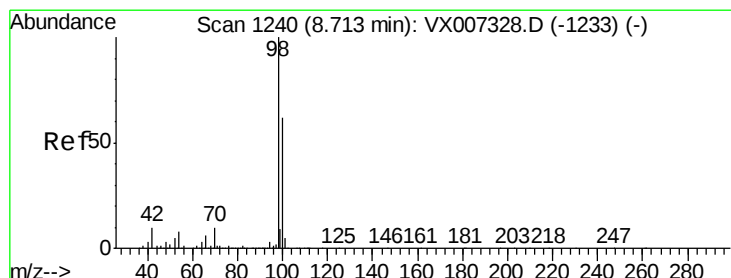
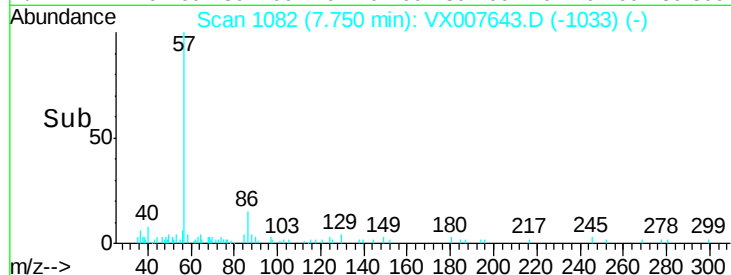
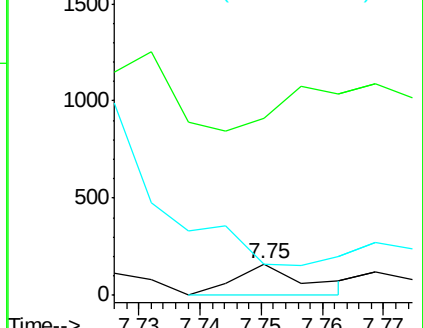
58 0.0 53.0 79.4#



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: 50.708 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007643.D

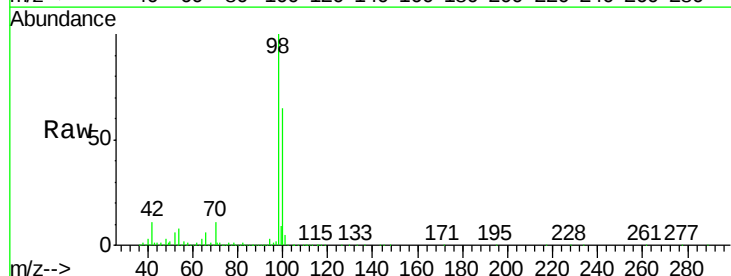
Acq: 21 Feb 2019 20:42

Tgt Ion: 98 Resp: 883610

Ion Ratio Lower Upper

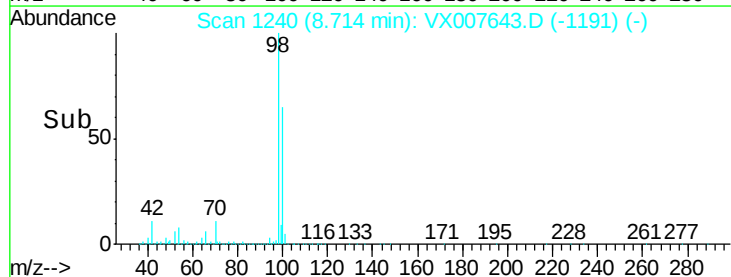
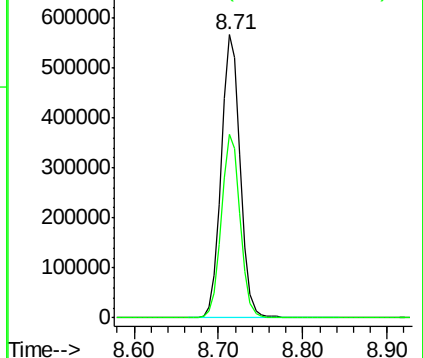
98 100

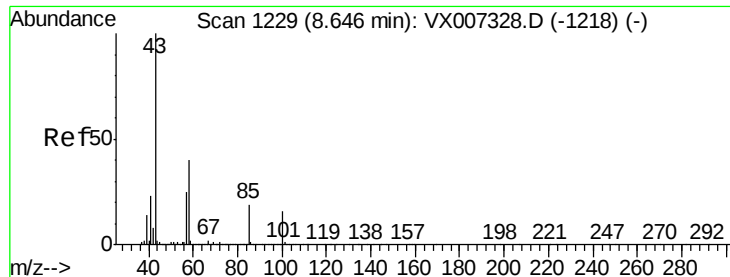
100 64.3 51.6 77.4



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: 19.208 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

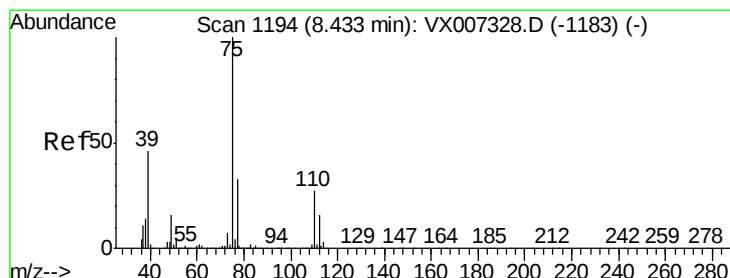
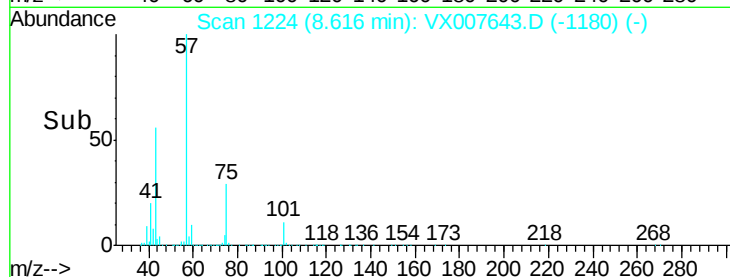
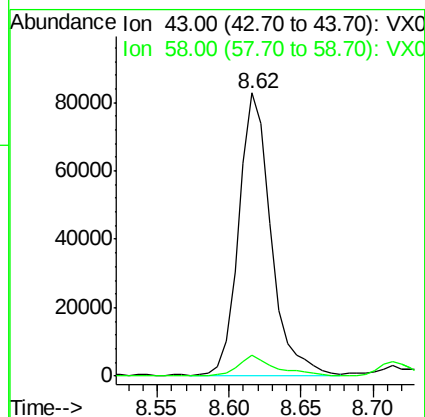
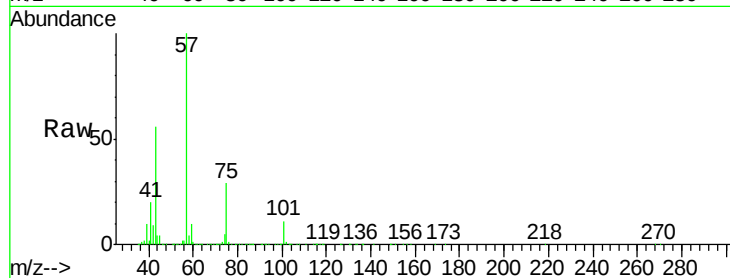
PB117250ZHE#17

Tot Ion: 43 Resp: 127778

Ion Ratio Lower Upper

43 100

58 8.8 31.2 46.8#



#54

cis-1,3-Dichloropropene

Concen: 9.264 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

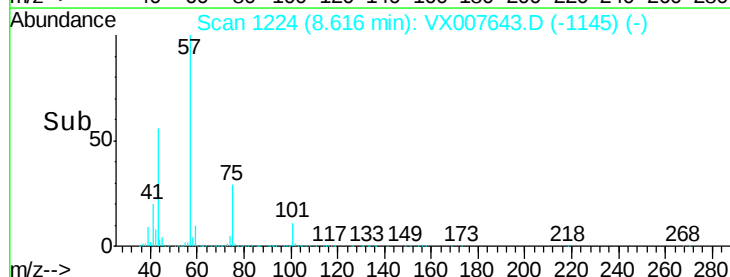
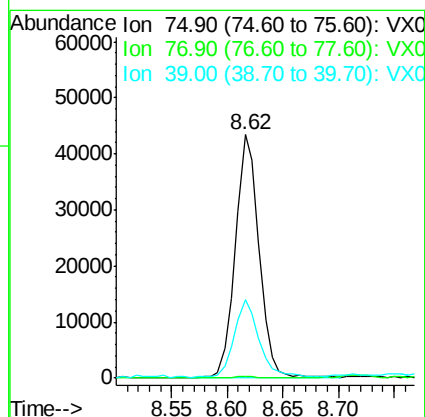
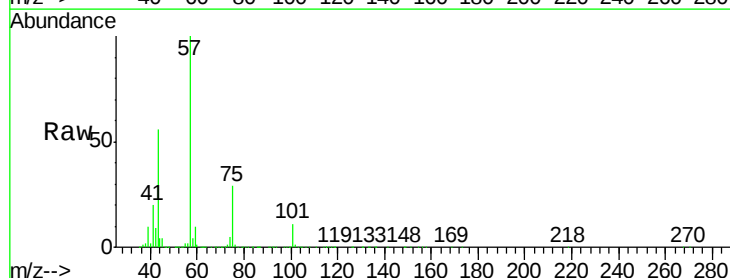
Tgt Ion: 75 Resp: 64429

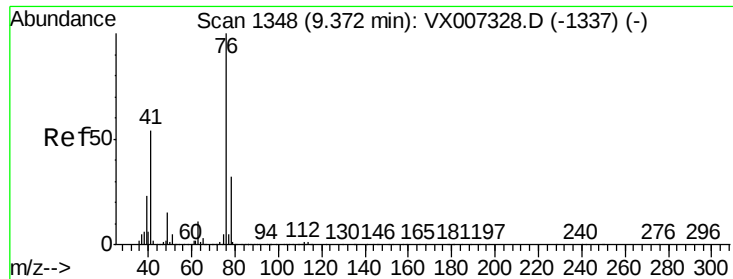
Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.4#

39 32.0 37.1 55.7#





#57

1,3-Dichloropropane

Concen: 1.997 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

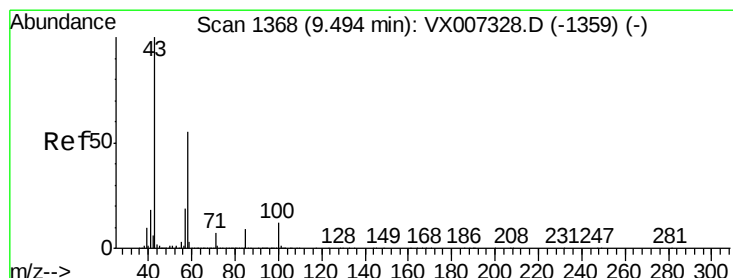
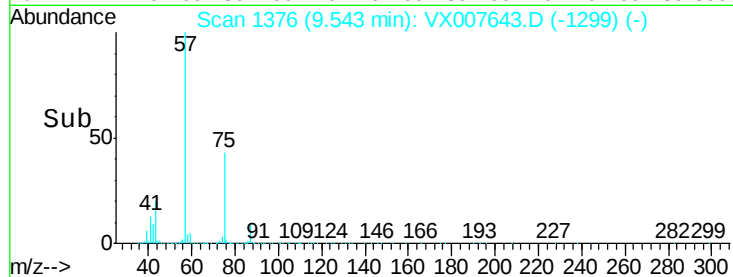
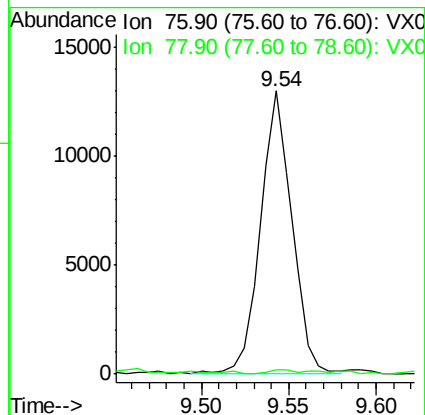
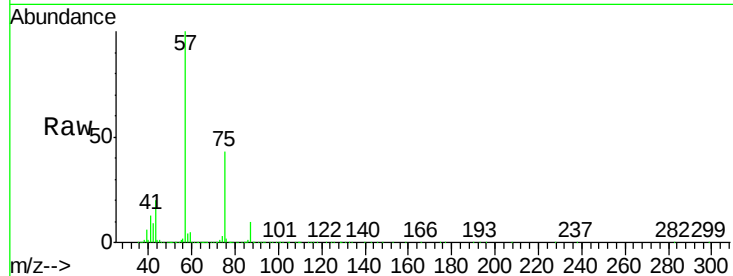
PB117250ZHE#17

Tot Ion: 76 Resp: 16291

Ion Ratio Lower Upper

76 100

78 1.7 25.8 38.8#



#59

2-Hexanone

Concen: 37.607 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007643.D

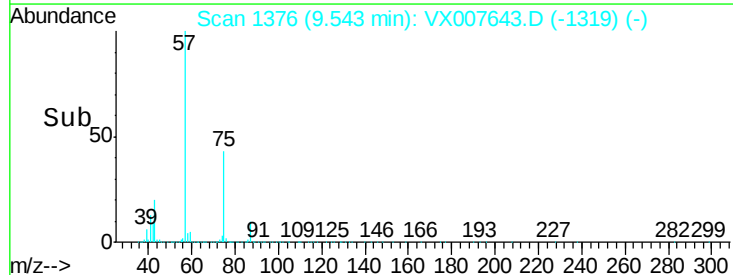
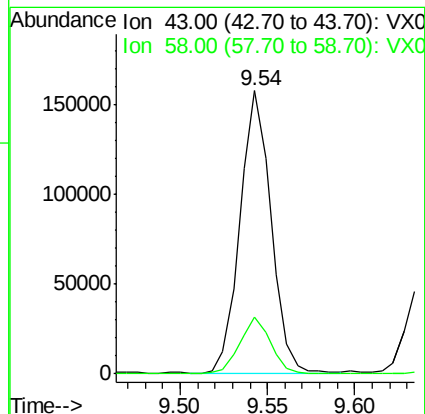
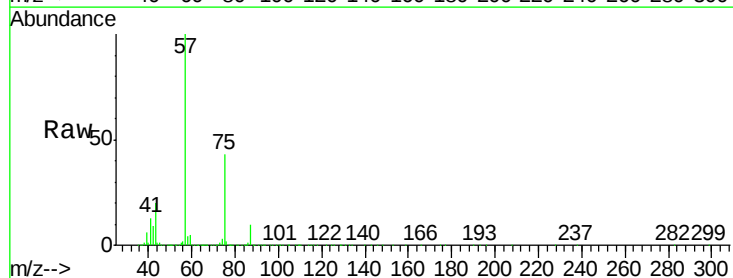
Acq: 21 Feb 2019 20:42

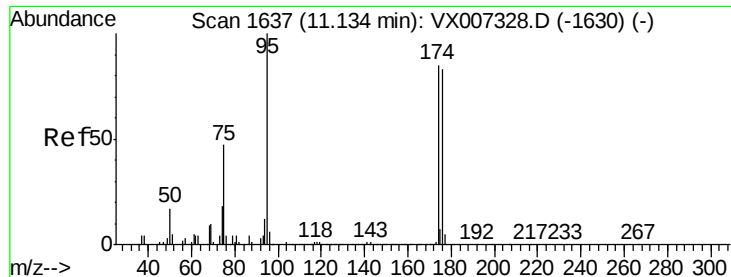
Tgt Ion: 43 Resp: 194681

Ion Ratio Lower Upper

43 100

58 20.2 27.1 81.3#





#62

4-Bromofluorobenzene

Concen: 48.404 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#17

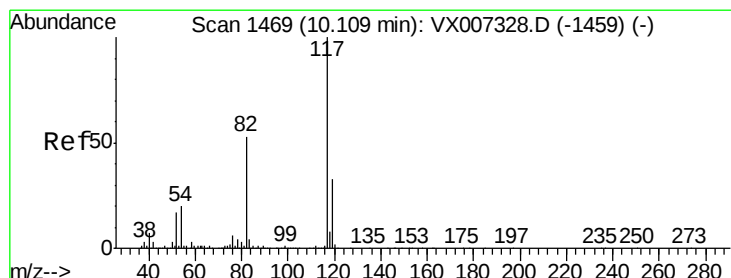
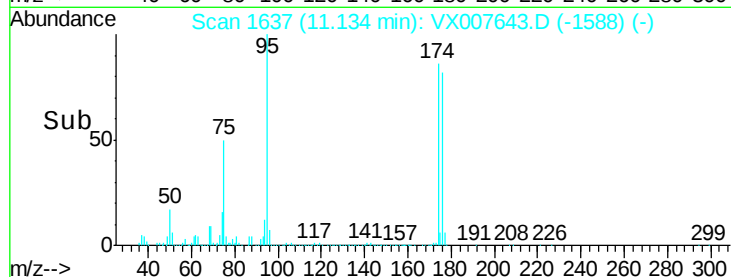
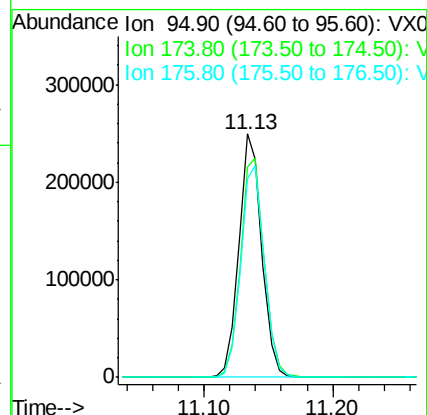
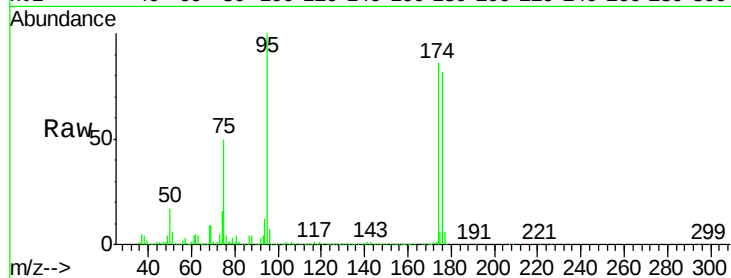
Tot Ion: 95 Resp: 307949

Ion Ratio Lower Upper

95 100

174 93.6 0.0 189.2

176 89.7 0.0 186.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

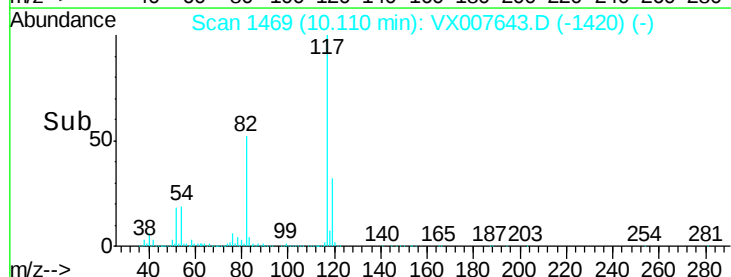
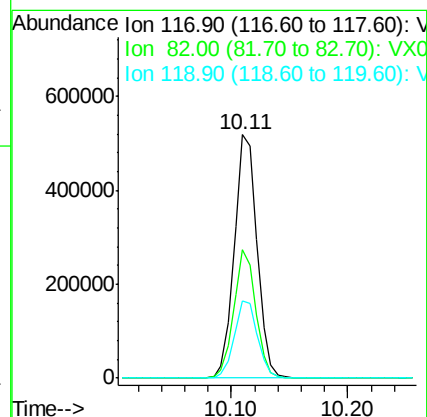
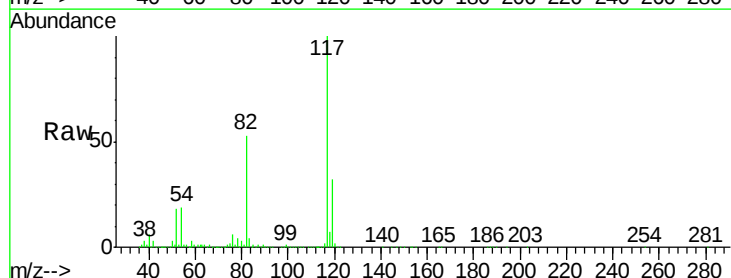
Tgt Ion: 117 Resp: 708356

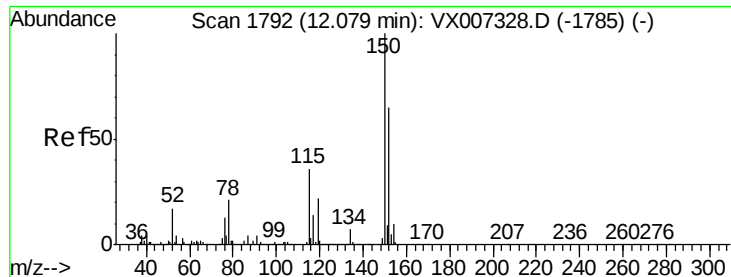
Ion Ratio Lower Upper

117 100

82 52.5 42.1 63.1

119 31.7 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#17

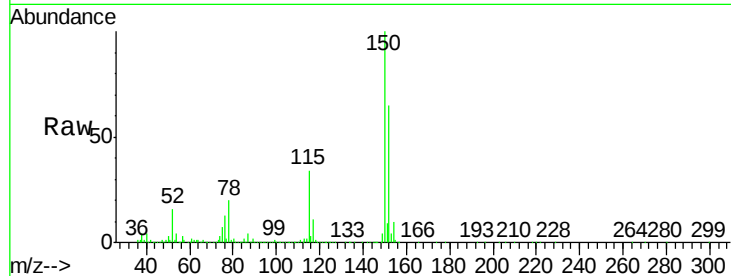
Tot Ion:152 Resp: 330023

Ion Ratio Lower Upper

152 100

115 54.6 38.0 114.0

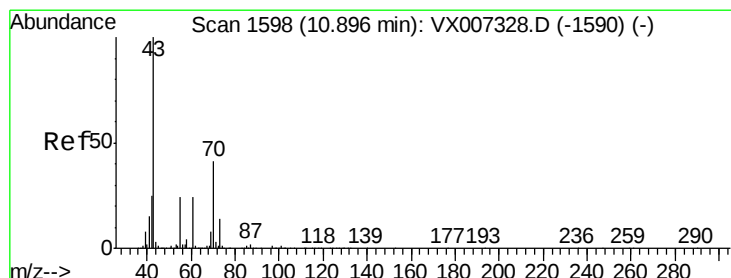
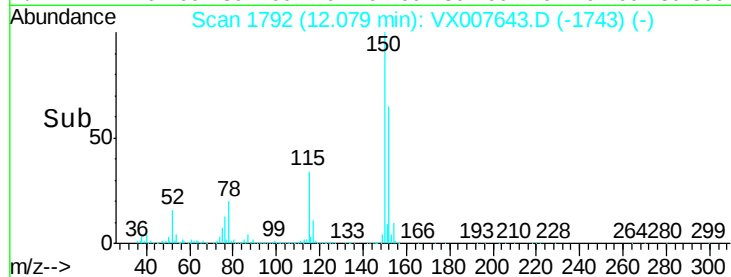
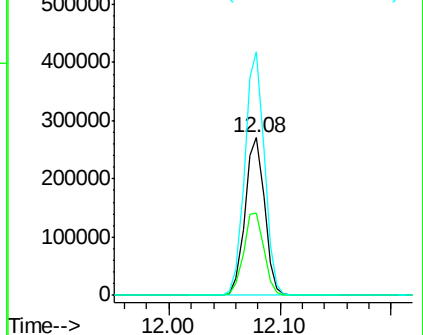
150 154.6 0.0 346.4



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-ethyl acetate

Concen: 2.242 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Tgt Ion: 43 Resp: 19452

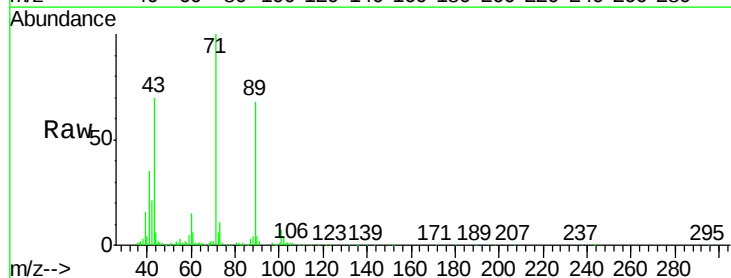
Ion Ratio Lower Upper

43 100

70 3.5 33.8 50.6#

55 4.8 19.5 29.3#

61 13.8 19.4 29.2#

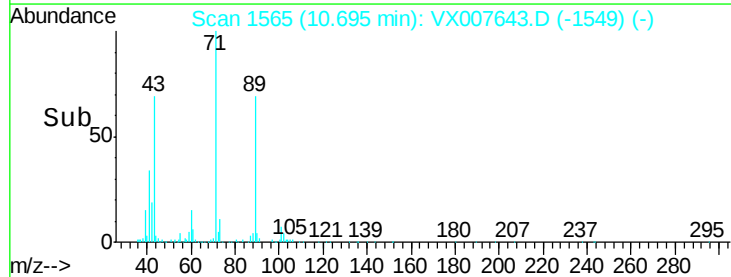
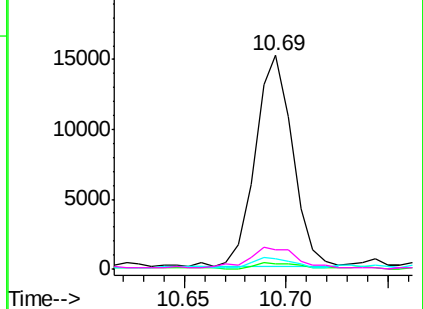


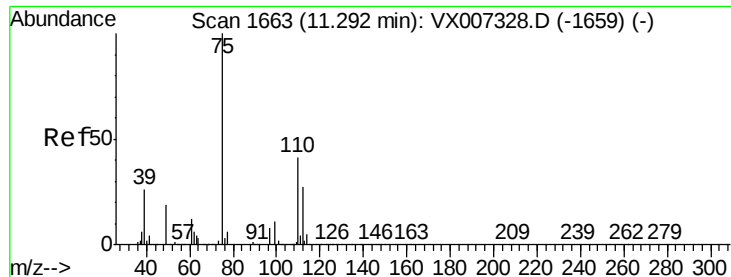
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.510 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

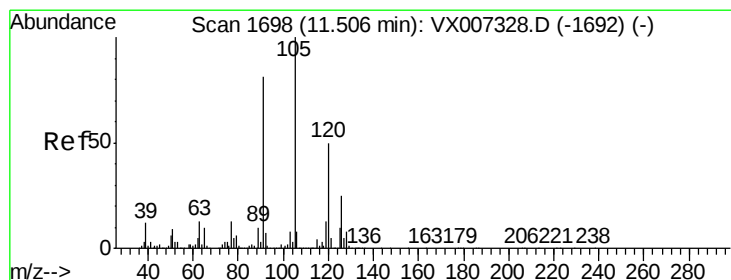
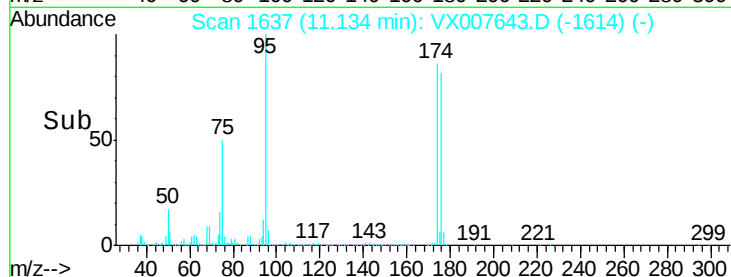
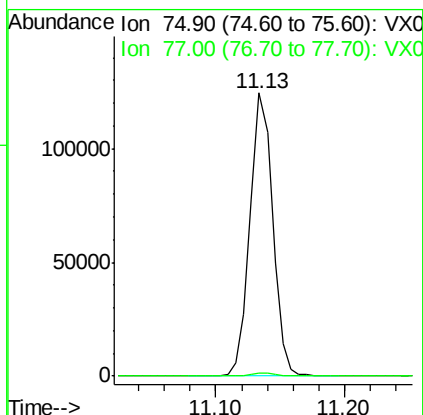
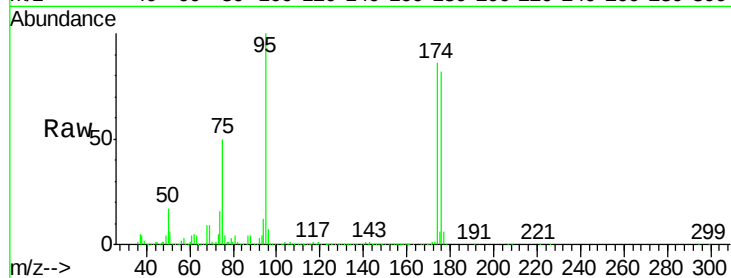
PB117250ZHE#17

Tot Ion: 75 Resp: 150922

Ion Ratio Lower Upper

75 100

77 1.3 23.0 69.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.640 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007643.D

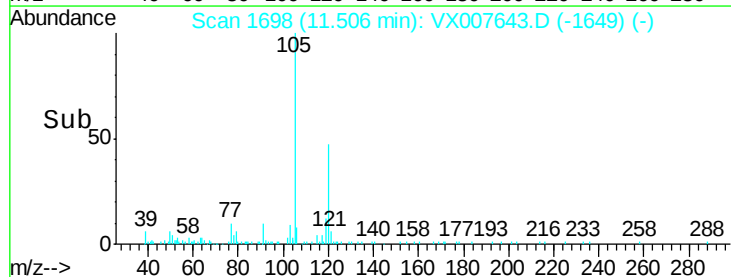
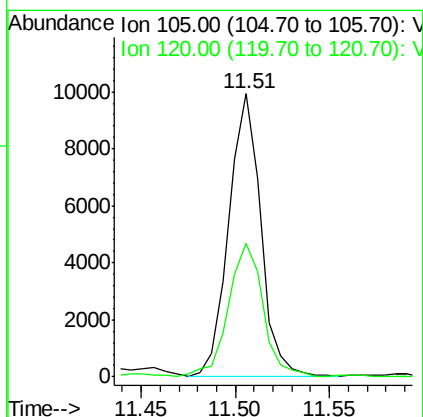
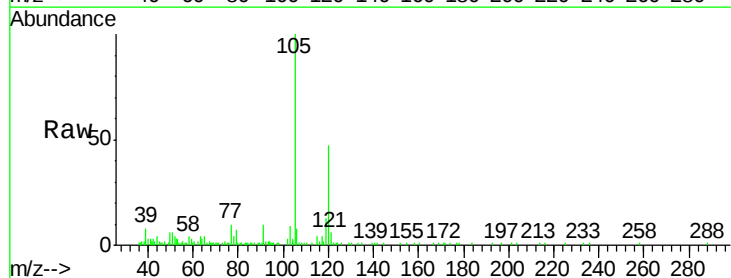
Acq: 21 Feb 2019 20:42

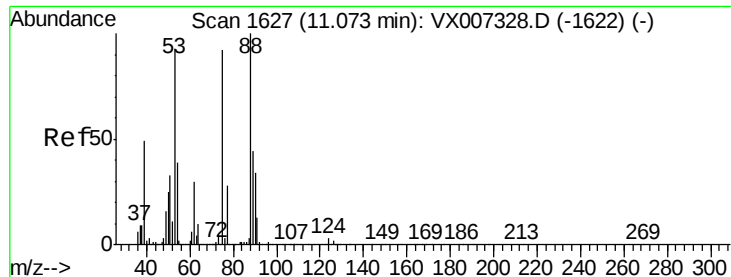
Tgt Ion:105 Resp: 11746

Ion Ratio Lower Upper

105 100

120 51.1 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 70.752 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007643.D

Acq: 21 Feb 2019 20:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#17

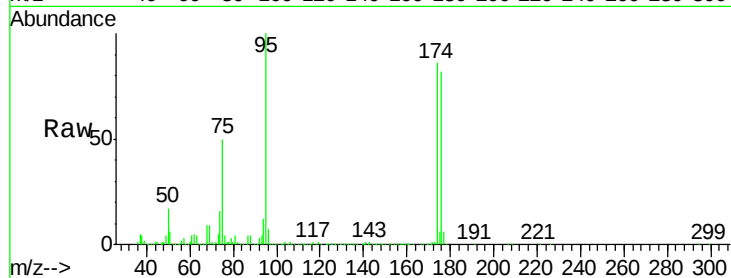
Tot Ion: 75 Resp: 150922

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.1 41.4 62.0#



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

