

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX021819\
 Data File : VX007587.D
 Acq On : 18 Feb 2019 14:38
 Operator : JC/SP
 Sample : PB117159TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117159TB

Quant Time: Feb 19 04:12:05 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	469432	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	749472	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	721605	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	338823	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	264095	53.00	ug/l	0.00
Spiked Amount			Recovery	=	106.00%	
35) Dibromofluoromethane	5.51	113	246841	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
50) Toluene-d8	8.71	98	919504	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
62) 4-Bromofluorobenzene	11.13	95	315263	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	

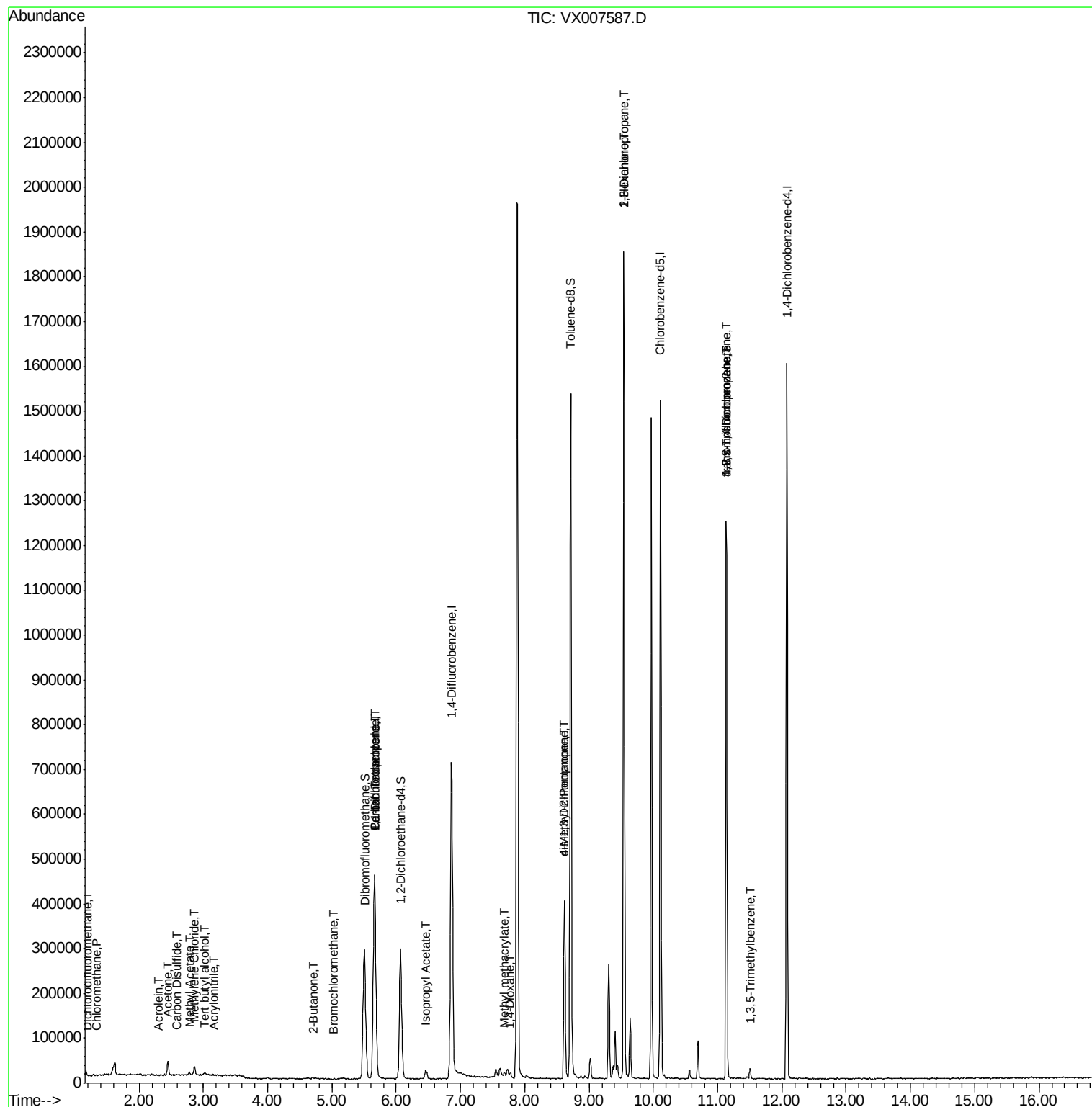
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	283	0.226	ug/l #	43
3) Chloromethane	1.33	50	1072	0.203	ug/l #	79
5) Bromomethane	1.62	94	244	Below Cal	#	3
11) Tert butyl alcohol	3.03	59	3871	3.754	ug/l #	79
13) Acrolein	2.31	56	208	0.430	ug/l #	22
15) Acrylonitrile	3.17	53	582	0.228	ug/l #	17
16) Acetone	2.45	43	31066	13.611	ug/l	100
17) Carbon Disulfide	2.57	76	1069	2.208	ug/l	95
18) Methyl Acetate	2.78	43	9405	2.156	ug/l	99
20) Methylene Chloride	2.86	84	8950	1.539	ug/l	93
25) 2-Butanone	4.71	43	4056	1.249	ug/l #	62
28) Bromochloromethane	5.01	49	838	0.236	ug/l #	11
36) 1,1-Dichloropropene	5.66	75	29746	4.423	ug/l #	49
38) Carbon Tetrachloride	5.67	117	43150	6.614	ug/l #	16
43) Isopropyl Acetate	6.46	43	25031	2.386	ug/l	95
48) Methyl methacrylate	7.68	41	11474	2.186	ug/l #	14
49) 1,4-Dioxane	7.76	88	61	7.386	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	128027	18.535	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	63113	8.740	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	15479	1.827	ug/l #	44
59) 2-Hexanone	9.54	43	200469	37.297	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	151659	23.012	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	9537	0.506	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.13	75	151659	69.340	ug/l #	9

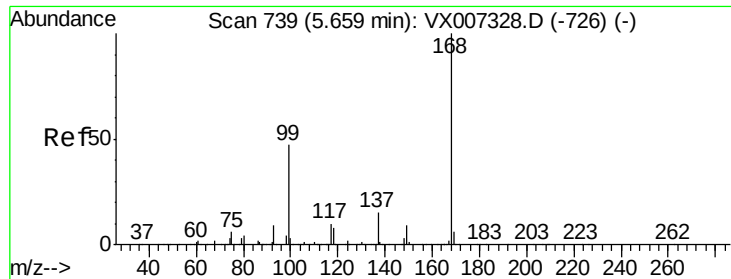
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 19 04:12:05 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: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

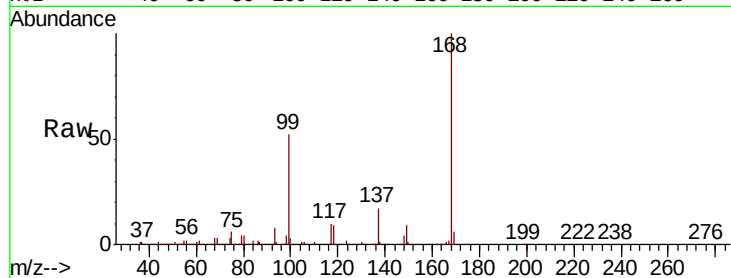
PB117159TB

Tgt Ion:168 Resp: 469432

Ion Ratio Lower Upper

168 100

99 51.6 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

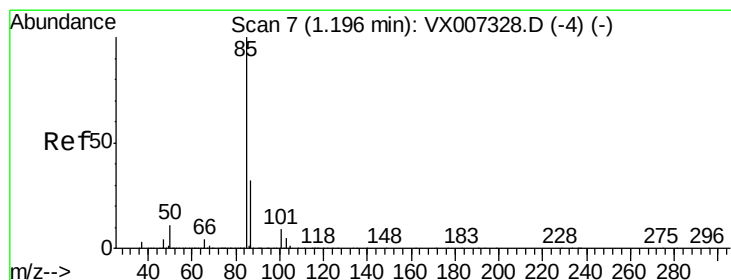
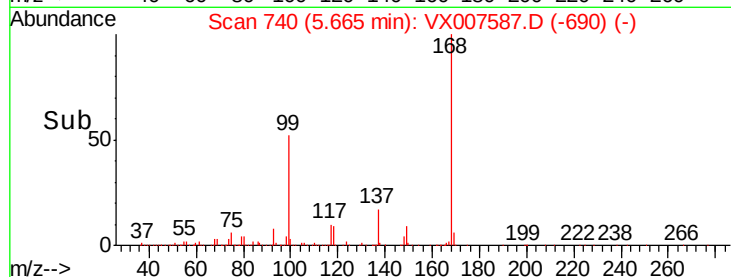
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.226 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007587.D

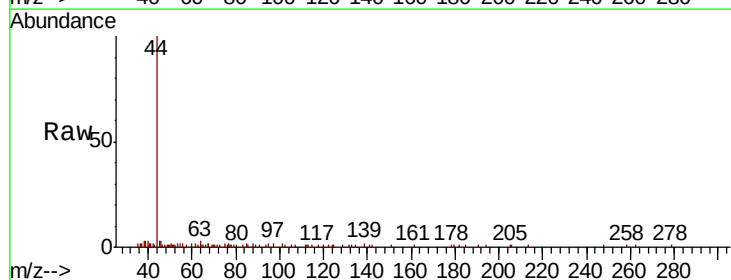
Acq: 18 Feb 2019 14:38

Tgt Ion: 85 Resp: 283

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

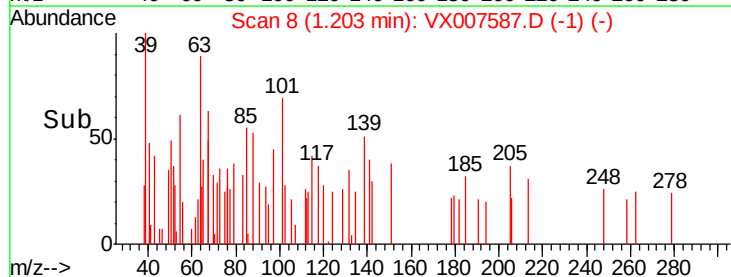
150

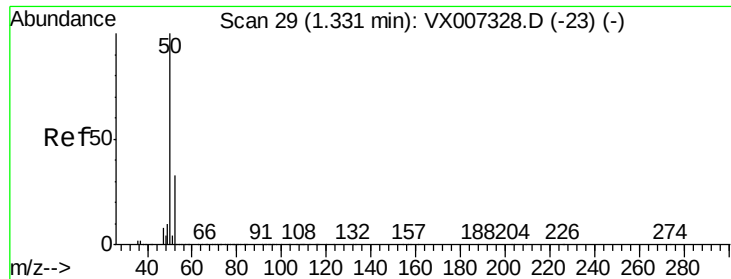
100

50

0

Time-->





#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

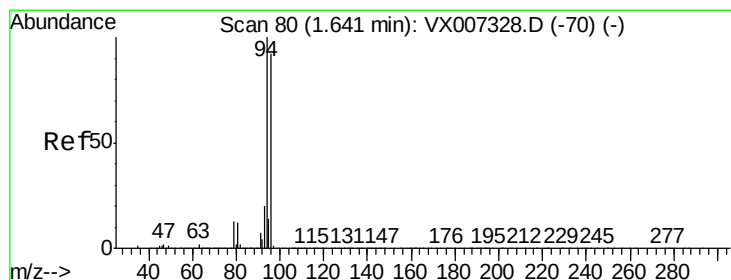
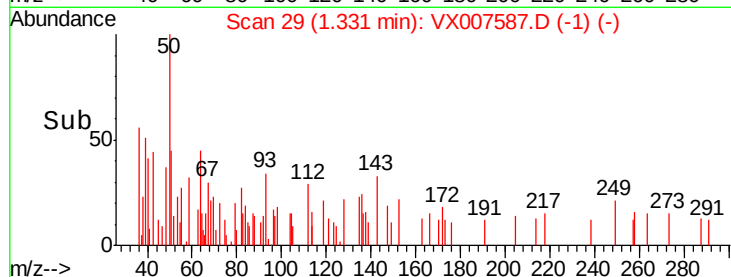
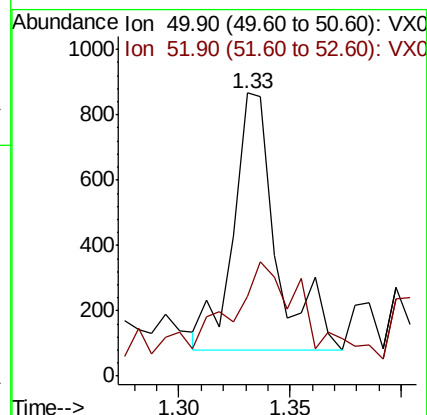
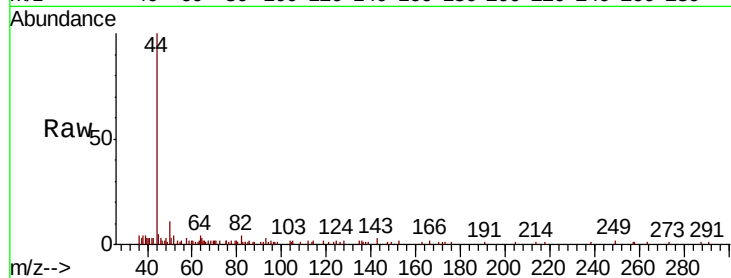
PB117159TB

Tgt Ion: 50 Resp: 1072

Ion Ratio Lower Upper

50 100

52 20.8 26.1 39.1#



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 77

Delta R.T. -0.02 min

Lab File: VX007587.D

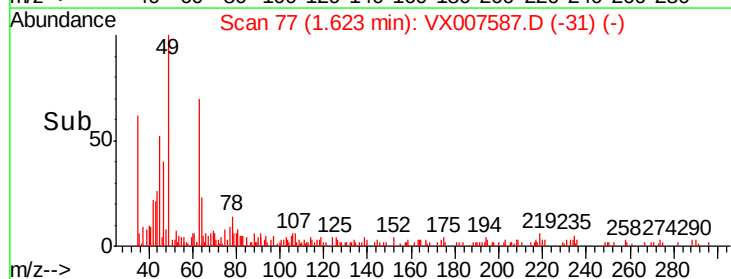
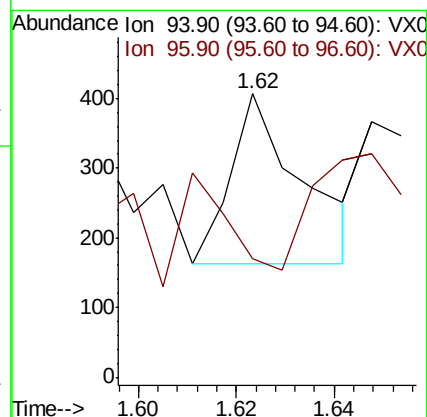
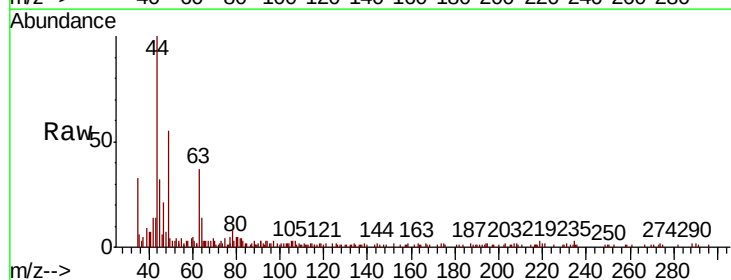
Acq: 18 Feb 2019 14:38

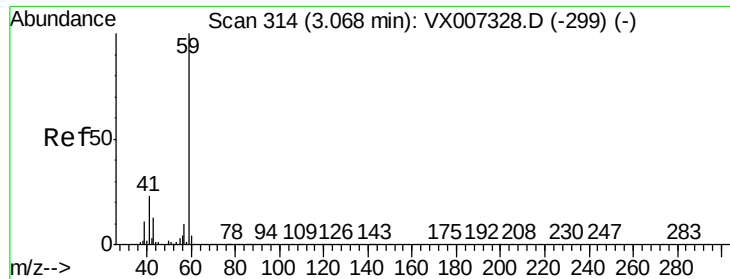
Tgt Ion: 94 Resp: 244

Ion Ratio Lower Upper

94 100

96 0.0 73.9 110.9#





#11

Tert butyl alcohol

Concen: 3.754 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.04 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

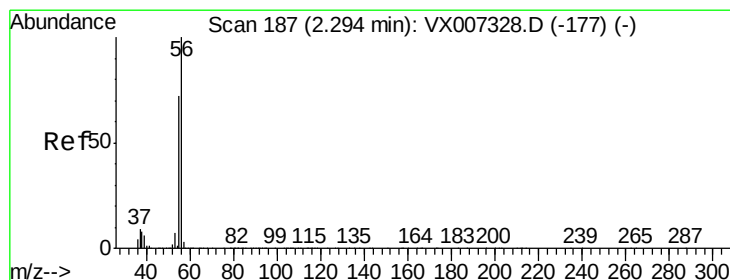
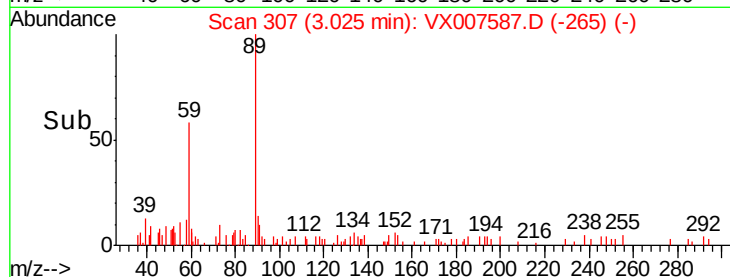
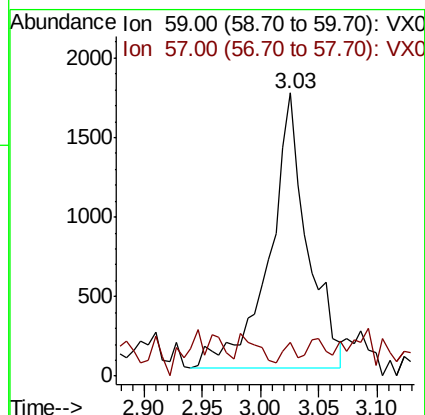
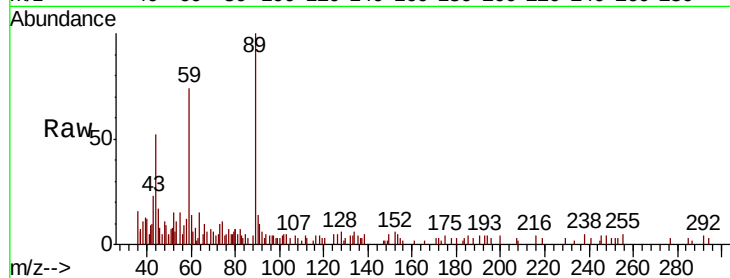
PB117159TB

Tgt Ion: 59 Resp: 3871

Ion Ratio Lower Upper

59 100

57 2.4 8.1 12.1#



#13

Acrolein

Concen: 0.430 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX007587.D

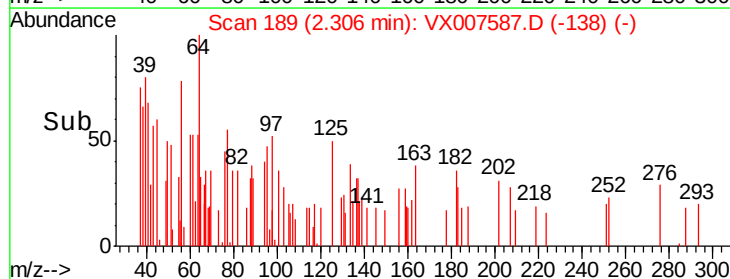
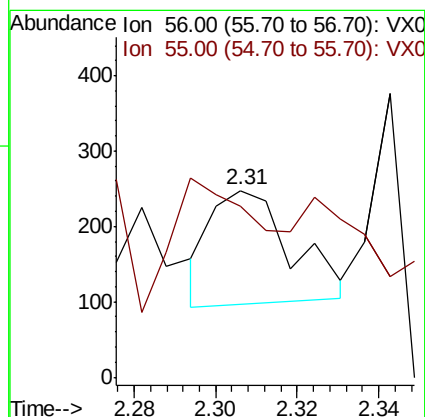
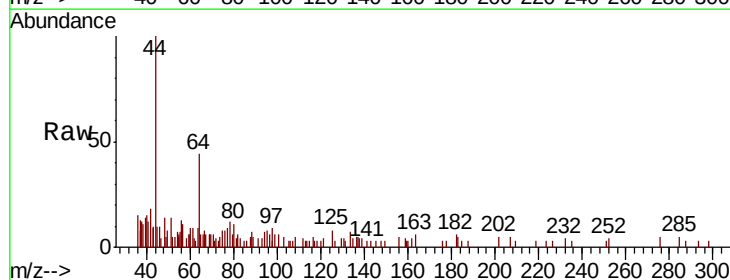
Acq: 18 Feb 2019 14:38

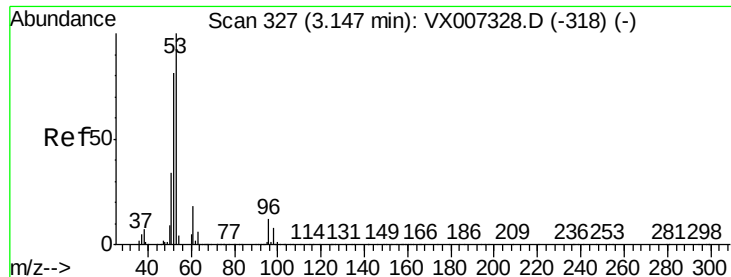
Tgt Ion: 56 Resp: 208

Ion Ratio Lower Upper

56 100

55 135.6 56.9 85.3#





#15

Acrylonitrile

Concen: 0.228 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.02 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

PB117159TB

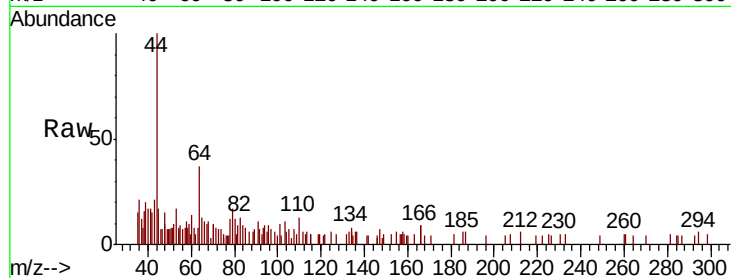
Tgt Ion: 53 Resp: 582

Ion Ratio Lower Upper

53 100

52 0.0 66.4 99.6#

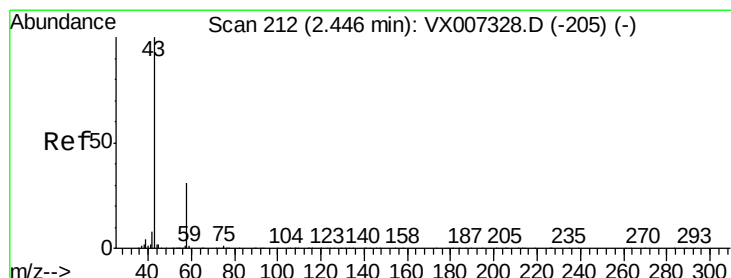
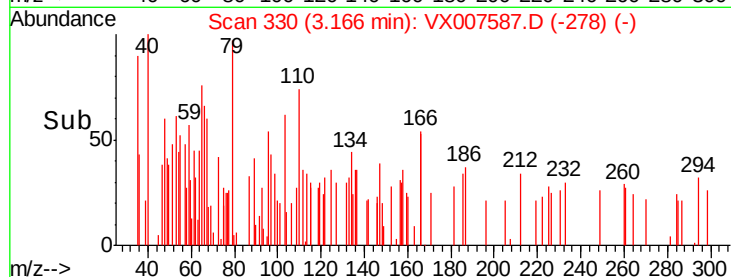
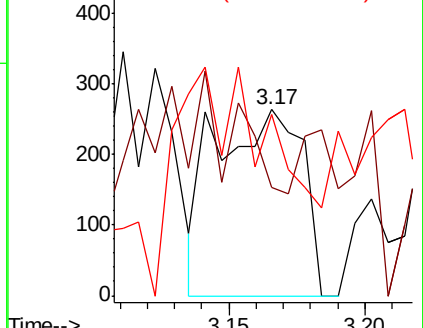
51 0.0 28.4 42.6#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 13.611 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007587.D

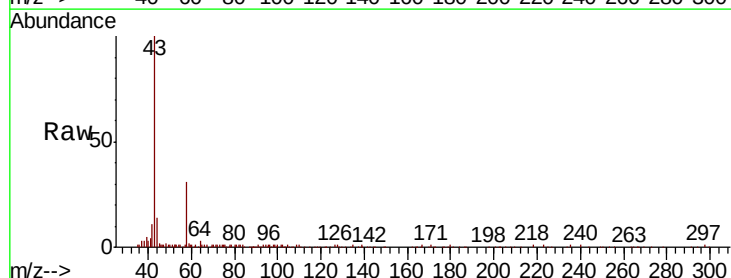
Acq: 18 Feb 2019 14:38

Tgt Ion: 43 Resp: 31066

Ion Ratio Lower Upper

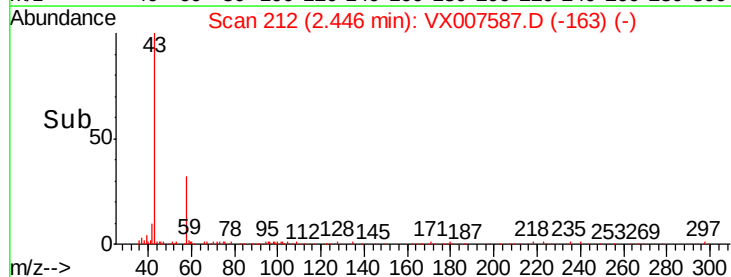
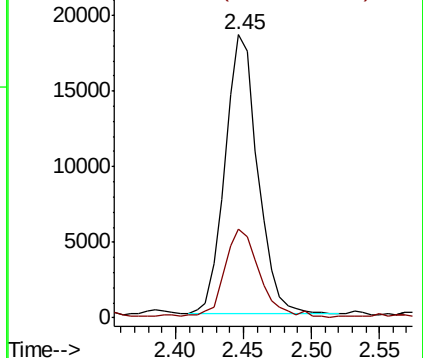
43 100

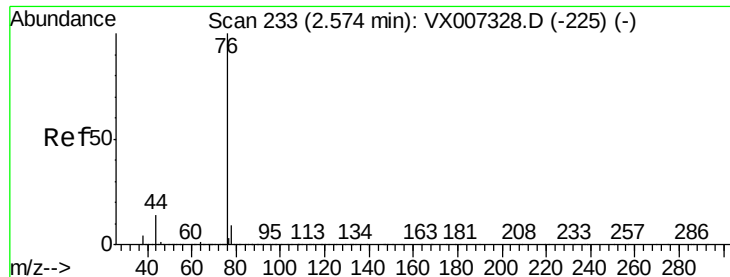
58 31.1 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 2.208 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

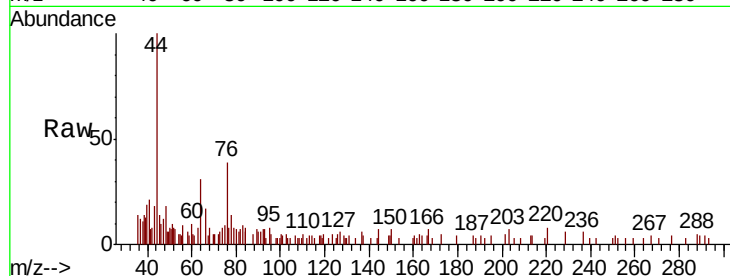
PB117159TB

Tgt Ion: 76 Resp: 1069

Ion Ratio Lower Upper

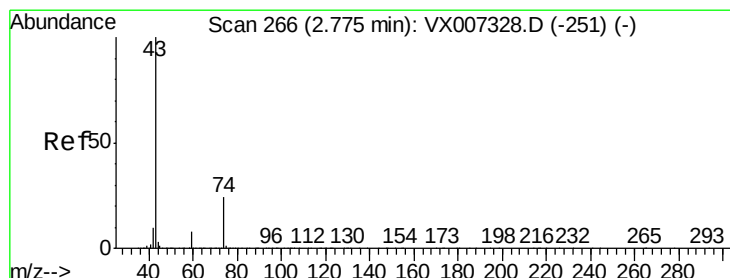
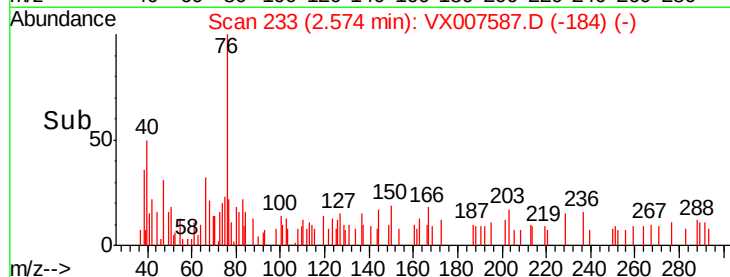
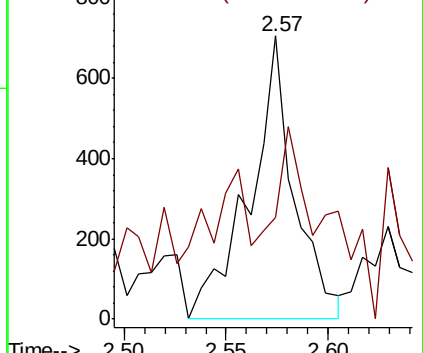
76 100

78 10.6 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 2.156 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007587.D

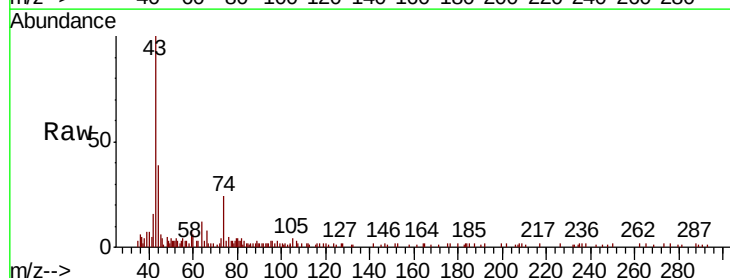
Acq: 18 Feb 2019 14:38

Tgt Ion: 43 Resp: 9405

Ion Ratio Lower Upper

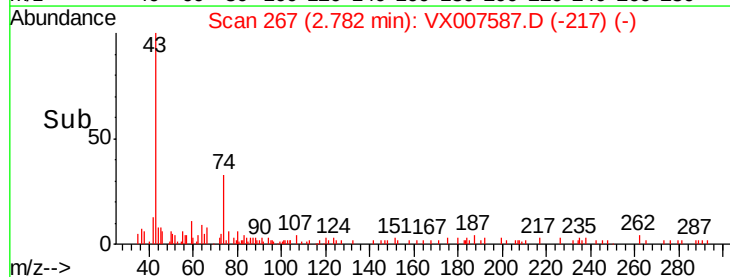
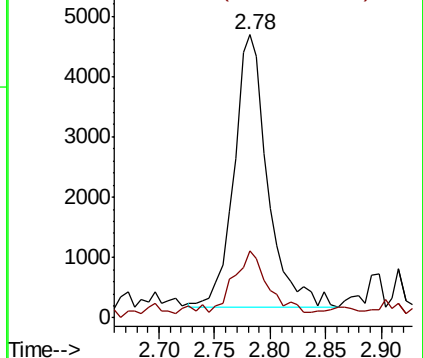
43 100

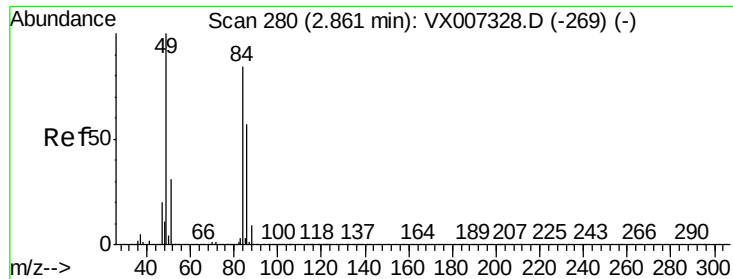
74 24.0 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

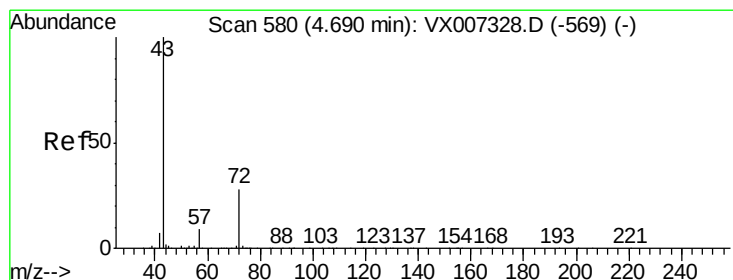
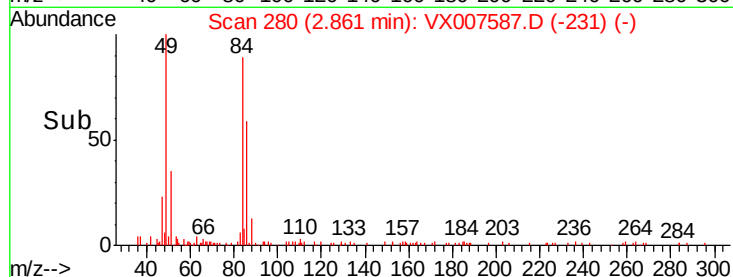
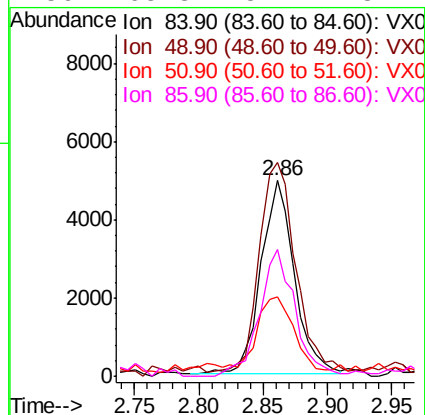
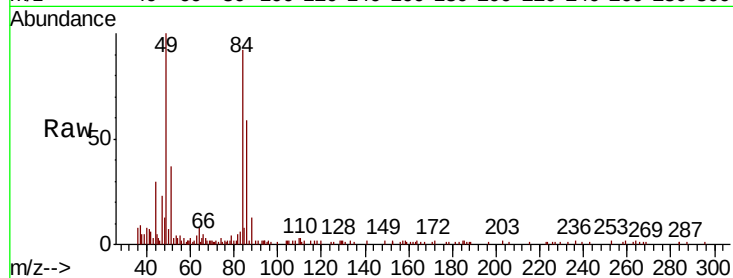




#20
Methylene Chloride
Concen: 1.539 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007587.D
Acq: 18 Feb 2019 14:38

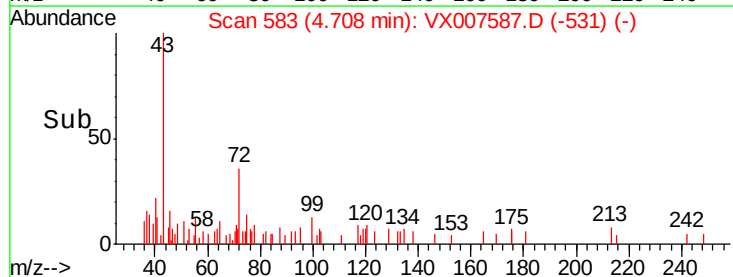
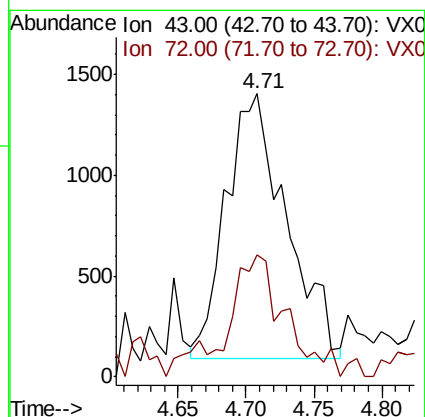
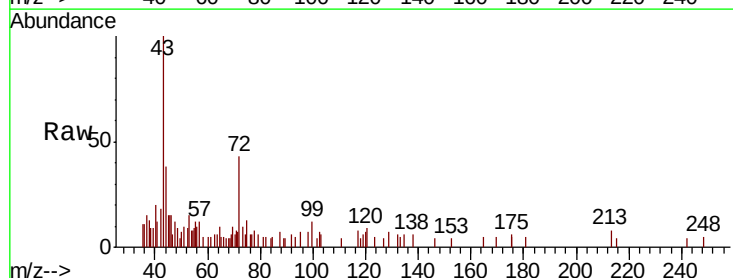
Instrument :
MSVOA_X
ClientSampleId :
PB117159TB

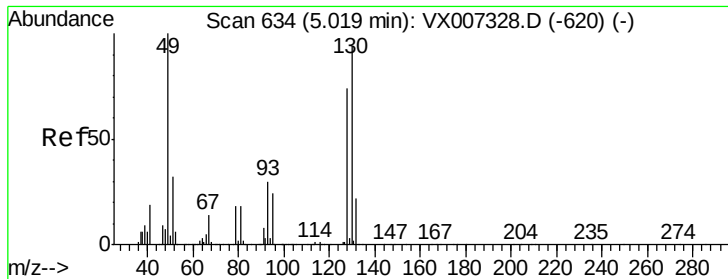
Tgt Ion:	84	Resp:	8950
Ion	Ratio	Lower	Upper
84	100		
49	106.2	94.8	142.2
51	36.4	29.8	44.8
86	65.3	54.1	81.1



#25
2-Butanone
Concen: 1.249 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX007587.D
Acq: 18 Feb 2019 14:38

Tgt Ion:	43	Resp:	4056
Ion	Ratio	Lower	Upper
43	100		
72	47.8	22.2	33.2#





#28

Bromochloromethane

Concen: 0.236 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

PB117159TB

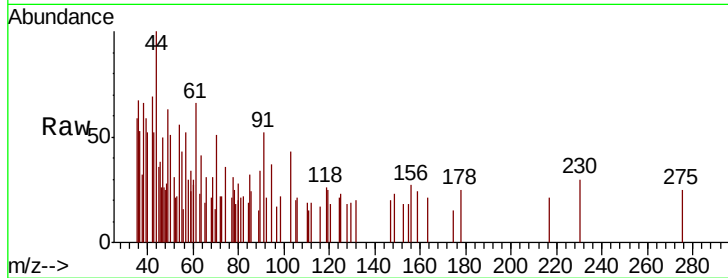
Tgt Ion: 49 Resp: 838

Ion Ratio Lower Upper

49 100

129 17.2 0.0 5.6#

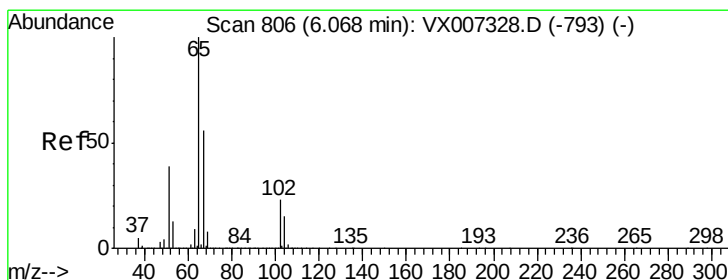
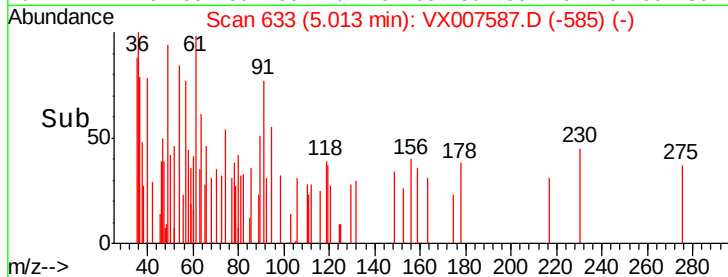
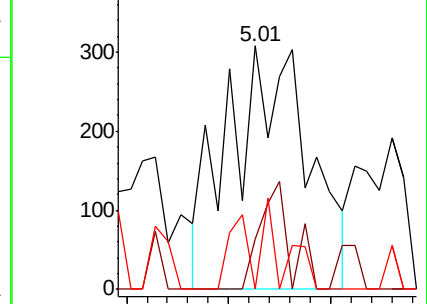
130 7.3 75.6 113.4#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 53.003 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007587.D

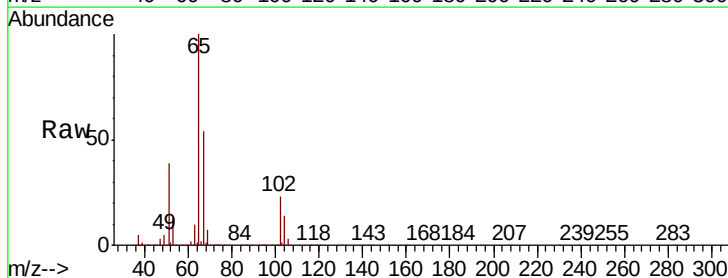
Acq: 18 Feb 2019 14:38

Tgt Ion: 65 Resp: 264095

Ion Ratio Lower Upper

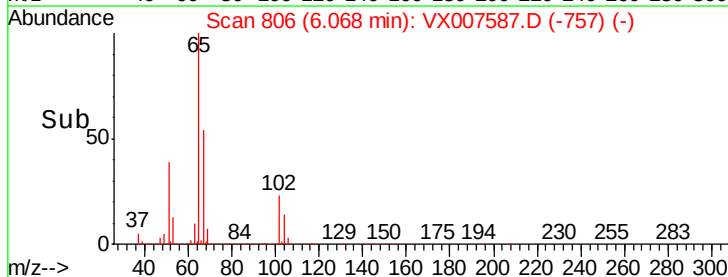
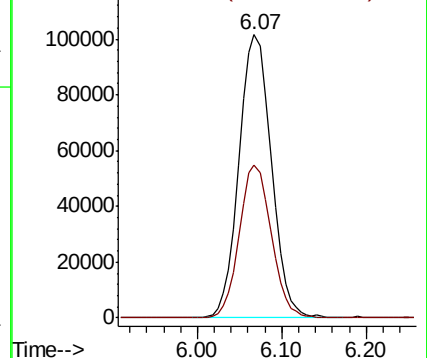
65 100

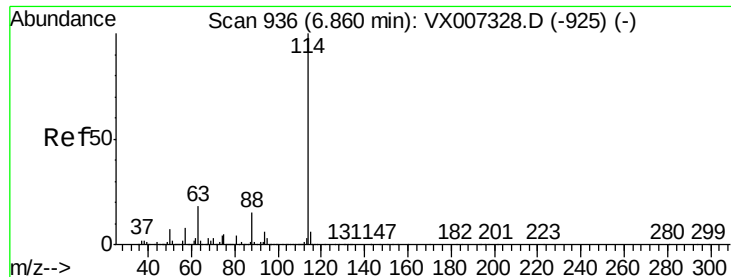
67 53.3 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

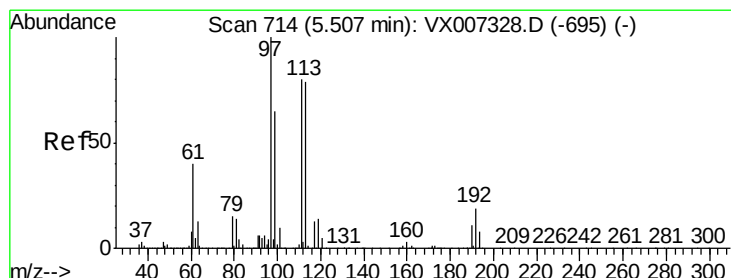
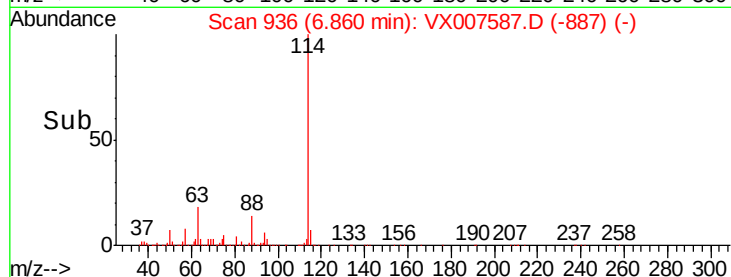
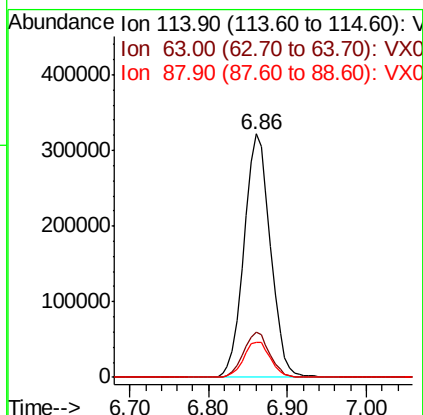
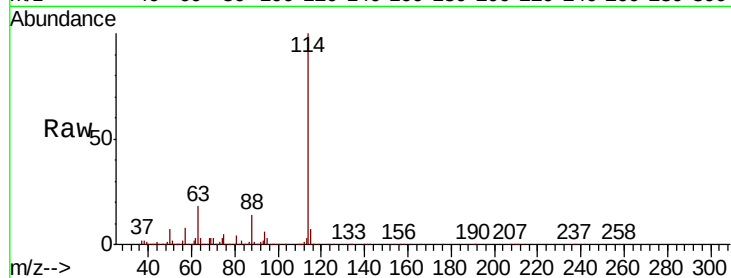




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007587.D
 Acq: 18 Feb 2019 14:38

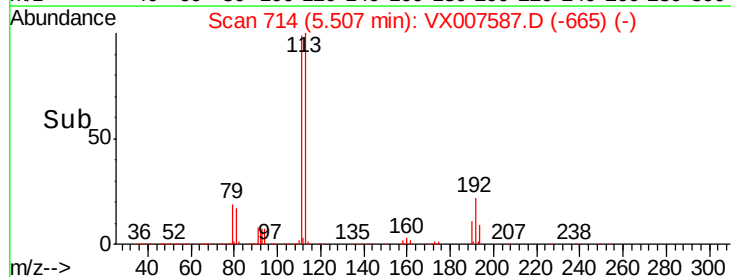
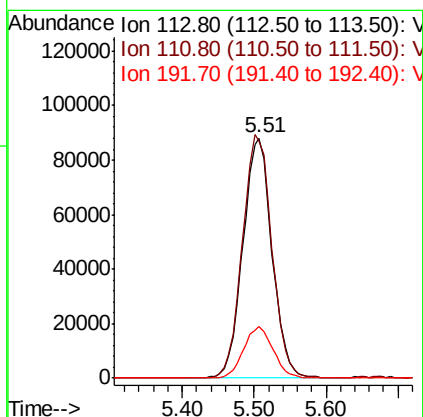
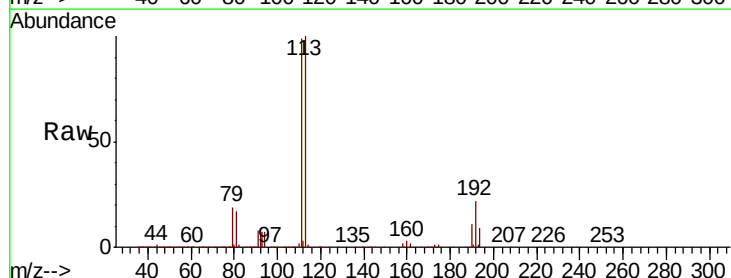
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117159TB

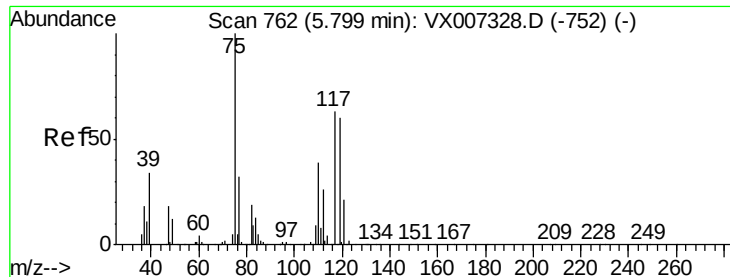
Tgt Ion:114 Resp: 749472
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 35.6
 88 14.2 0.0 29.6



#35
 Dibromofluoromethane
 Concen: 50.618 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.00 min
 Lab File: VX007587.D
 Acq: 18 Feb 2019 14:38

Tgt Ion:113 Resp: 246841
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.8 122.8
 192 21.7 18.5 27.7





#36

1,1-Dichloropropene

Concen: 4.423 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

PB117159TB

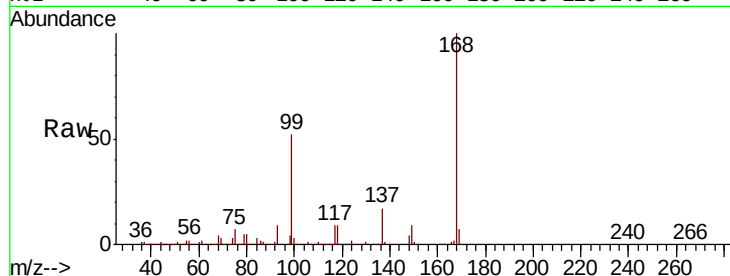
Tgt Ion: 75 Resp: 29746

Ion Ratio Lower Upper

75 100

110 10.9 20.0 59.9#

77 0.6 24.7 37.1#

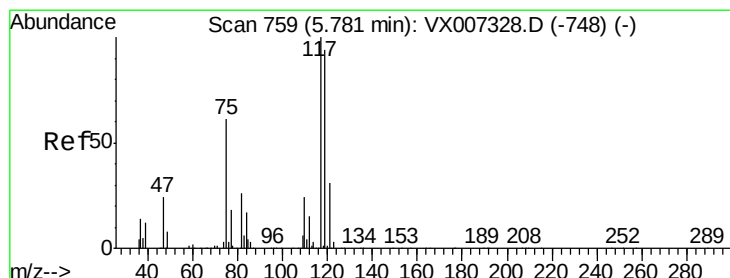
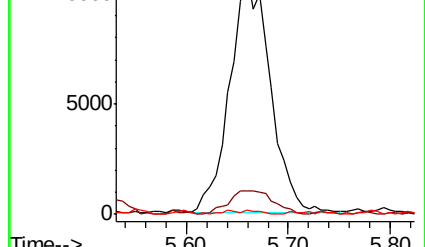
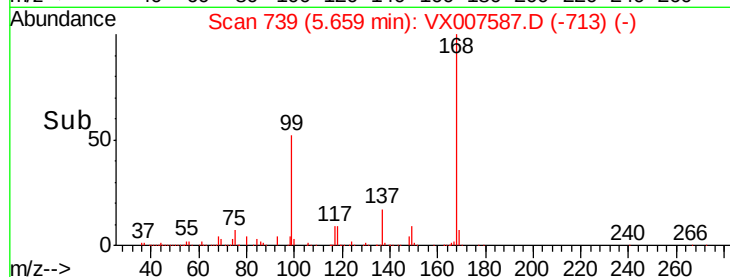


Abundance Ion 74.90 (74.60 to 75.60): VX007587.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX007587.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX007587.D (-713) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.614 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

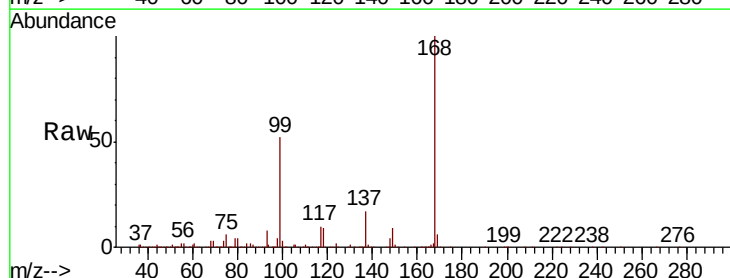
Tgt Ion: 117 Resp: 43150

Ion Ratio Lower Upper

117 100

119 3.9 75.3 112.9#

121 0.4 25.0 37.4#

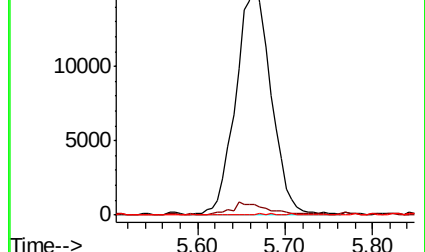
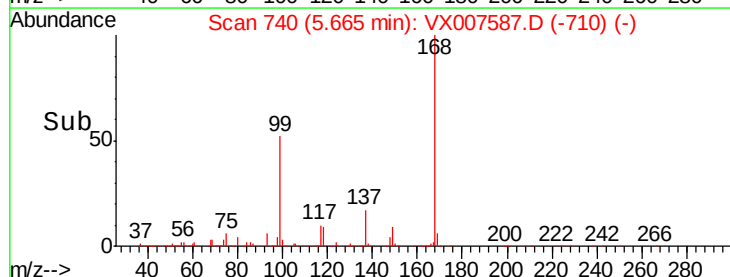


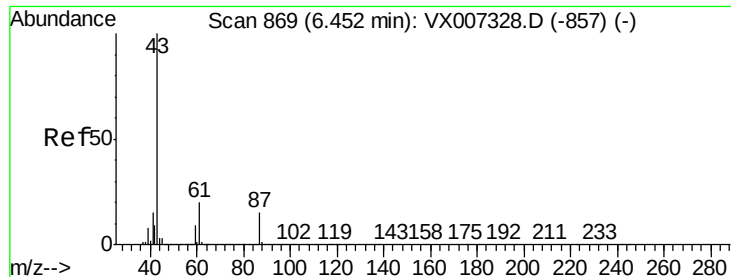
Abundance Ion 116.80 (116.50 to 117.50): VX007587.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX007587.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX007587.D (-710) (-)

Time-->





#43

Isopropyl Acetate

Concen: 2.386 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

PB117159TB

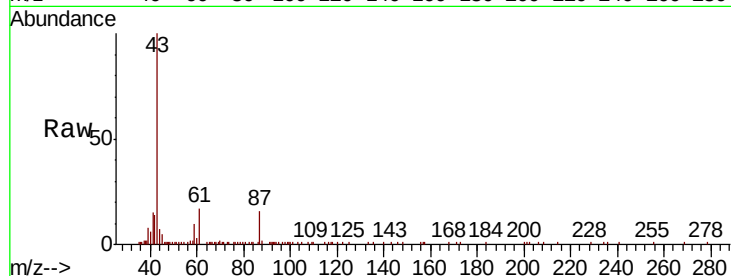
Tgt Ion: 43 Resp: 25031

Ion Ratio Lower Upper

43 100

61 22.3 16.1 24.1

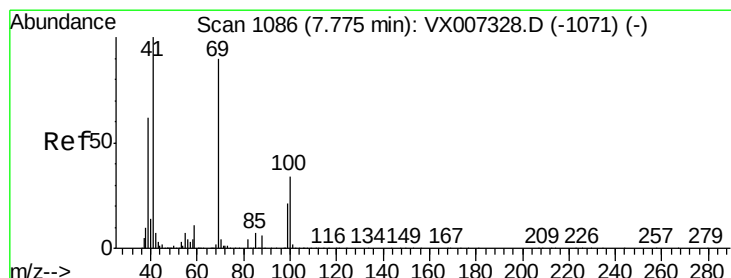
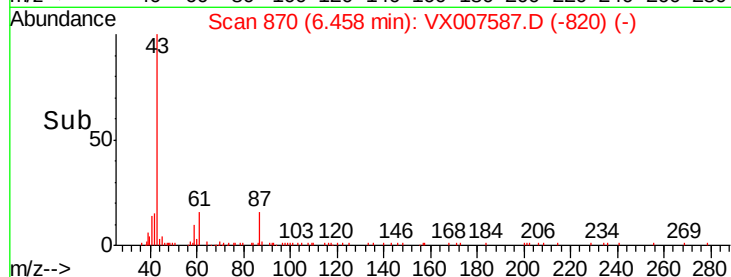
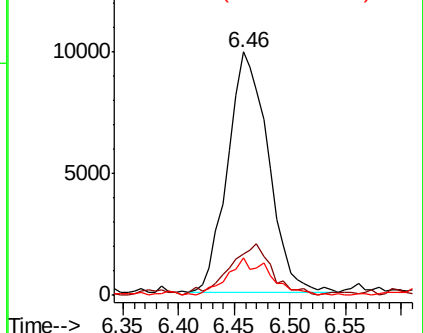
87 16.3 11.5 17.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.186 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

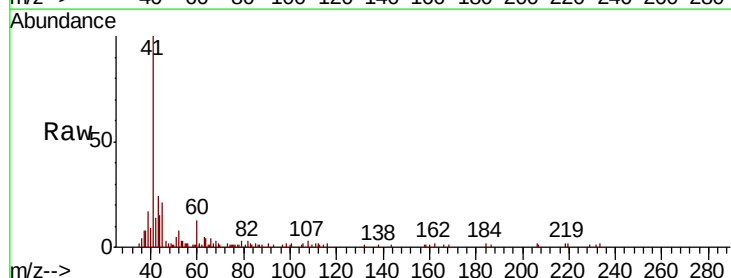
Tgt Ion: 41 Resp: 11474

Ion Ratio Lower Upper

41 100

69 3.1 70.2 105.4#

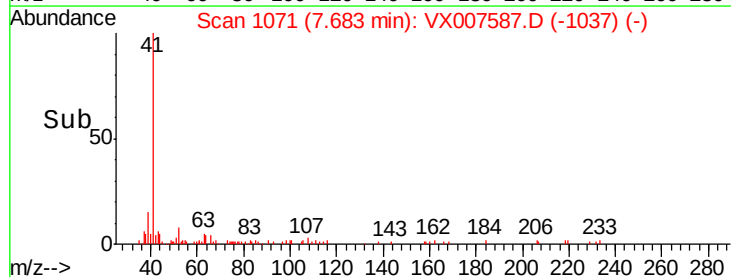
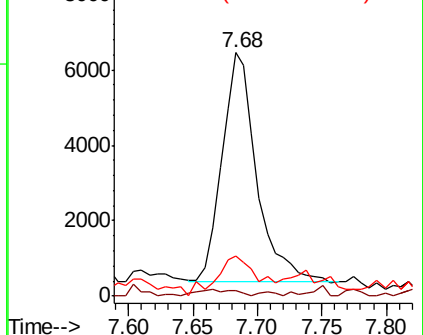
39 0.0 47.4 71.0#

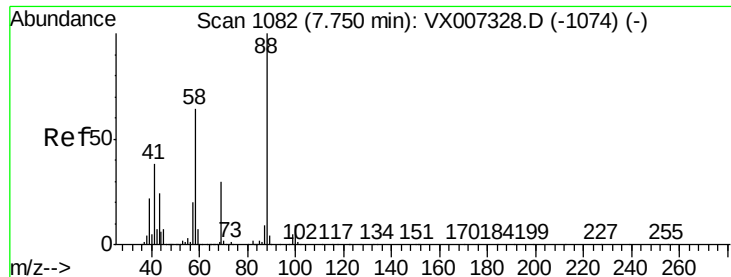


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 7.386 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

PB117159TB

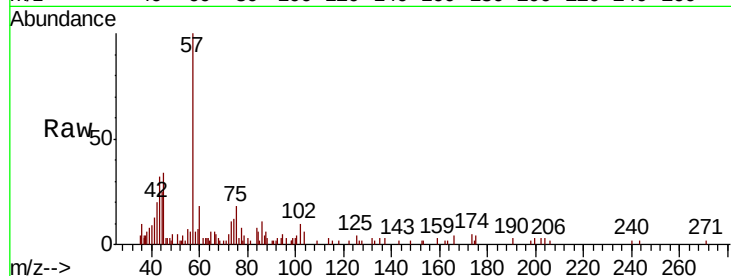
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

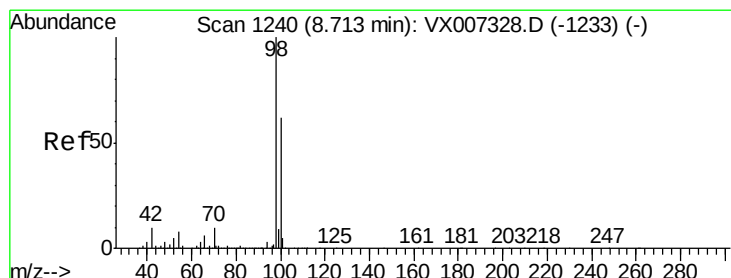
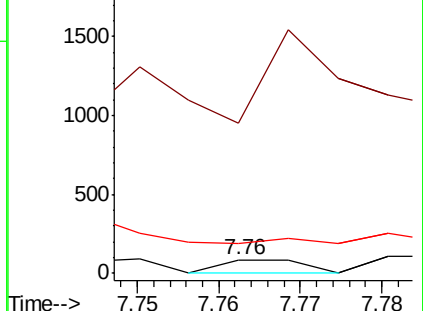
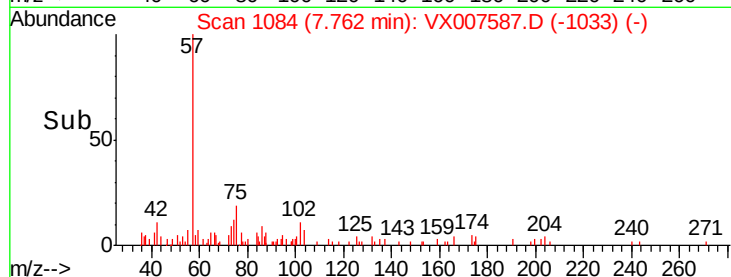
58 0.0 53.0 79.4#



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: 50.821 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007587.D

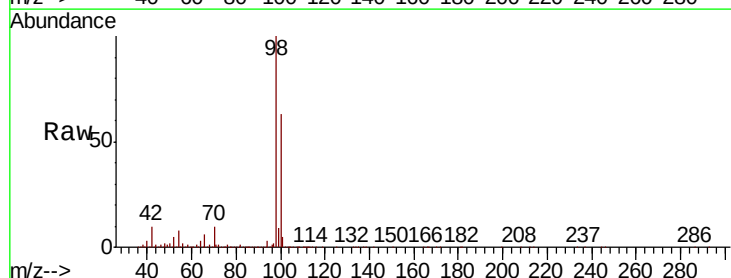
Acq: 18 Feb 2019 14:38

Tgt Ion: 98 Resp: 919504

Ion Ratio Lower Upper

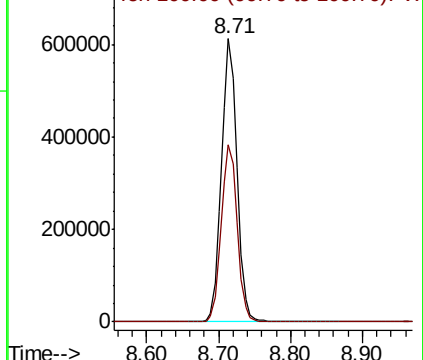
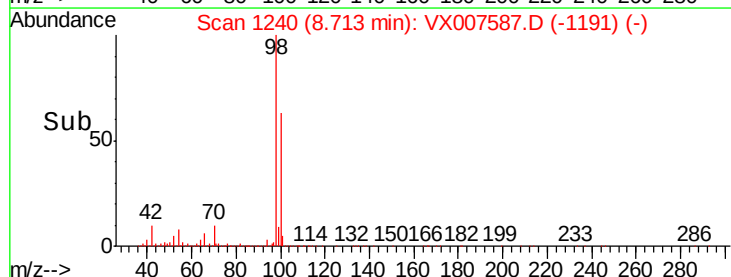
98 100

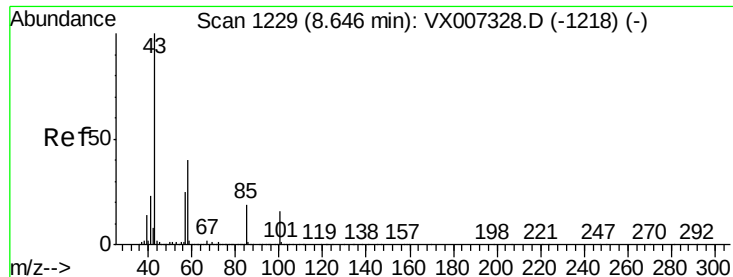
100 63.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

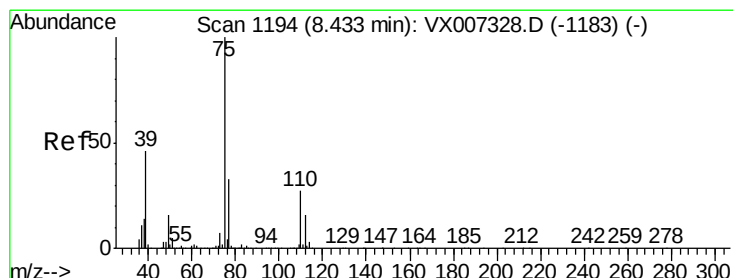
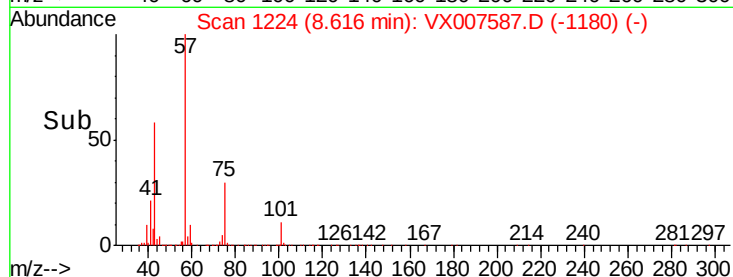
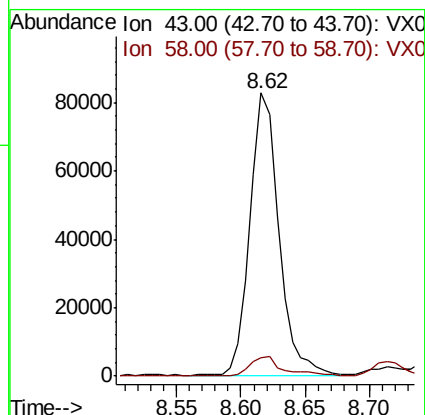
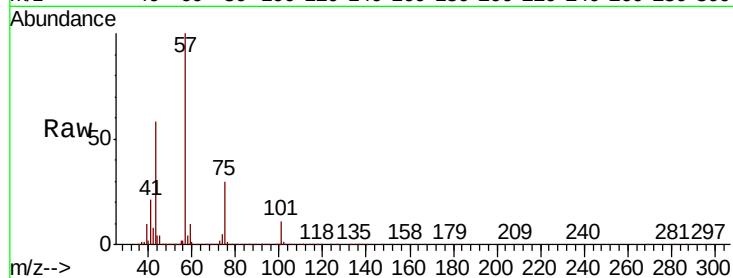




#51
 4-Methyl-2-Pentanone
 Concen: 18.535 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. -0.03 min
 Lab File: VX007587.D
 Acq: 18 Feb 2019 14:38

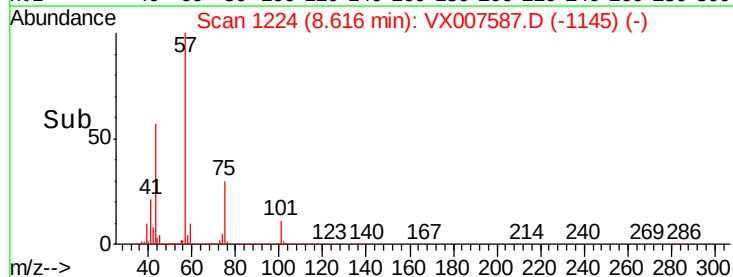
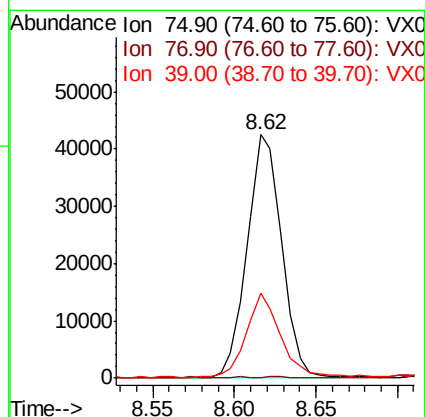
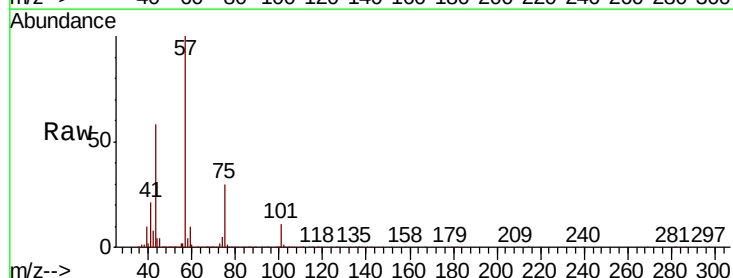
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117159TB

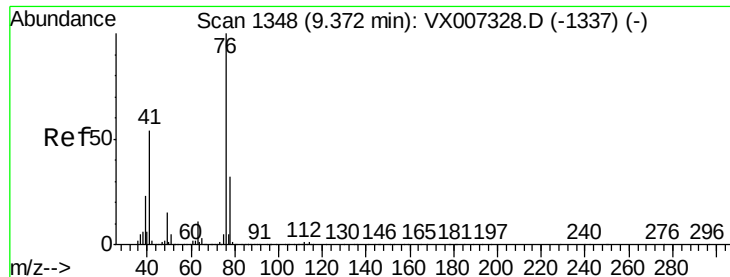
Tgt Ion: 43 Resp: 128027
 Ion Ratio Lower Upper
 43 100
 58 8.4 31.2 46.8#



#54
 cis-1,3-Dichloropropene
 Concen: 8.740 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX007587.D
 Acq: 18 Feb 2019 14:38

Tgt Ion: 75 Resp: 63113
 Ion Ratio Lower Upper
 75 100
 77 0.1 26.2 39.4#
 39 34.4 37.1 55.7#





#57

1,3-Dichloropropane

Concen: 1.827 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

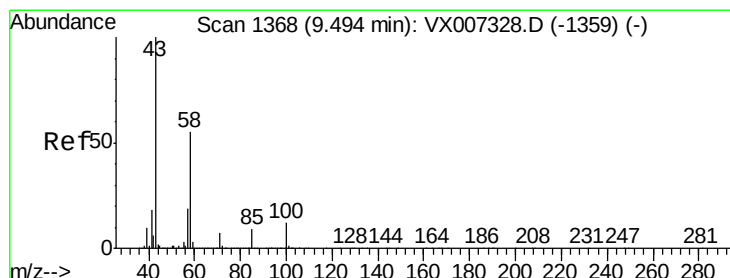
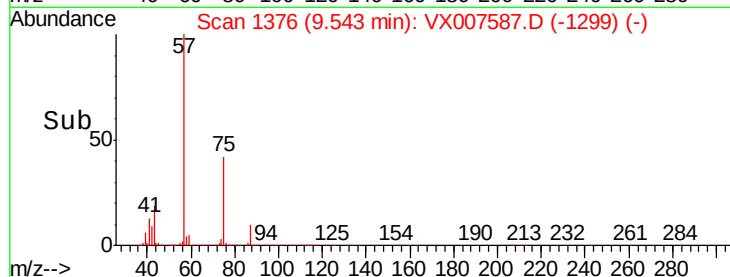
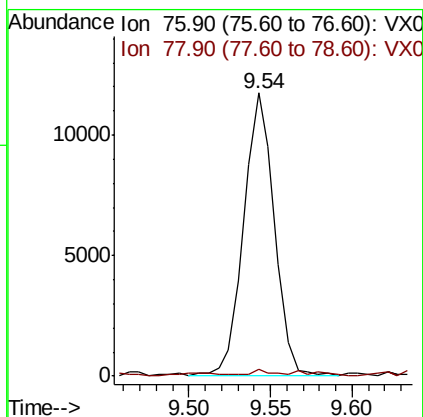
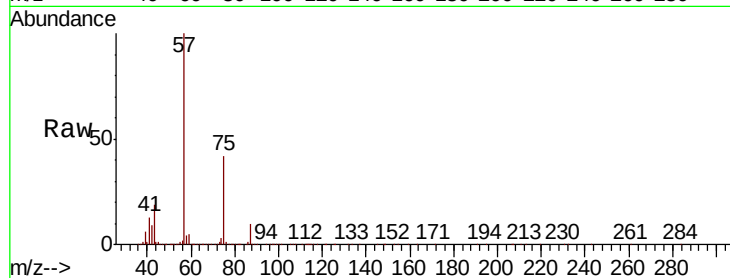
PB117159TB

Tgt Ion: 76 Resp: 15479

Ion Ratio Lower Upper

76 100

78 0.9 25.8 38.8#



#59

2-Hexanone

Concen: 37.297 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007587.D

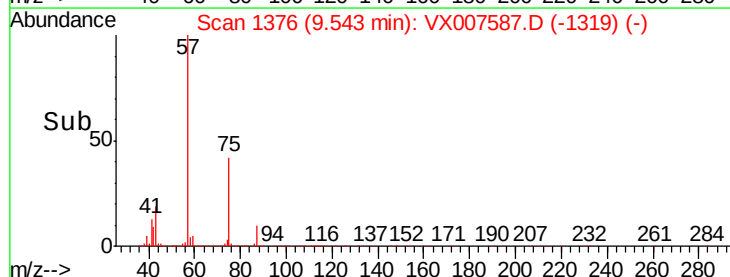
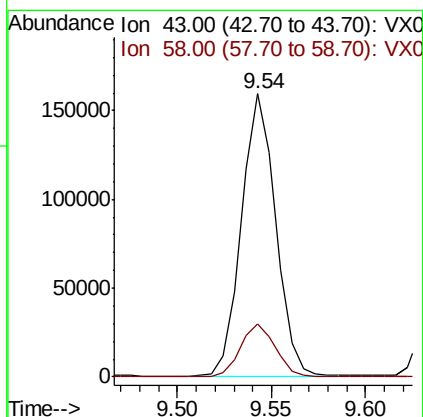
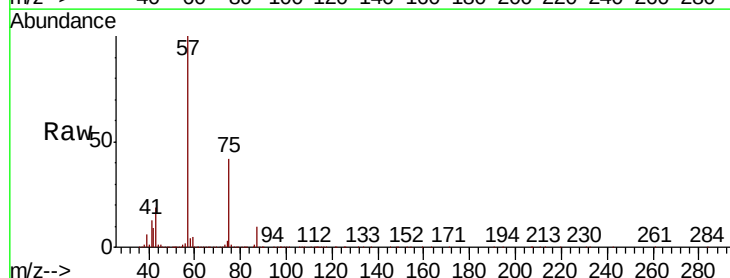
Acq: 18 Feb 2019 14:38

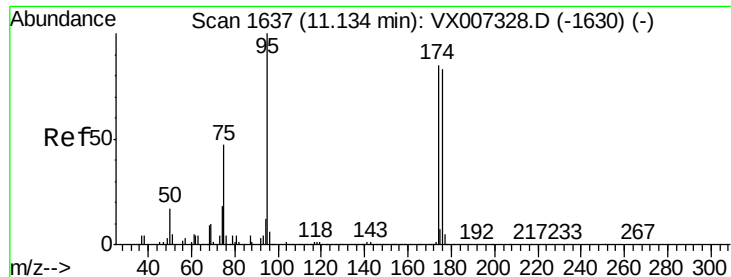
Tgt Ion: 43 Resp: 200469

Ion Ratio Lower Upper

43 100

58 19.5 27.1 81.3#





#62

4-Bromofluorobenzene

Concen: 47.726 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

PB117159TB

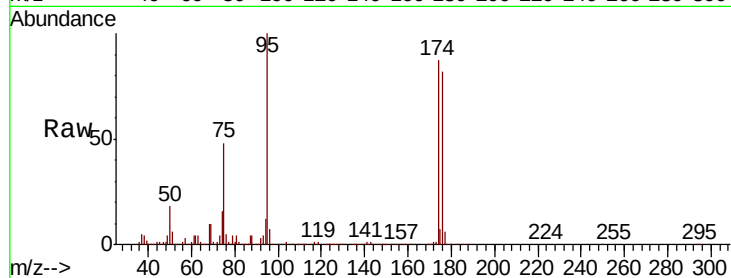
Tgt Ion: 95 Resp: 315263

Ion Ratio Lower Upper

95 100

174 93.6 0.0 189.2

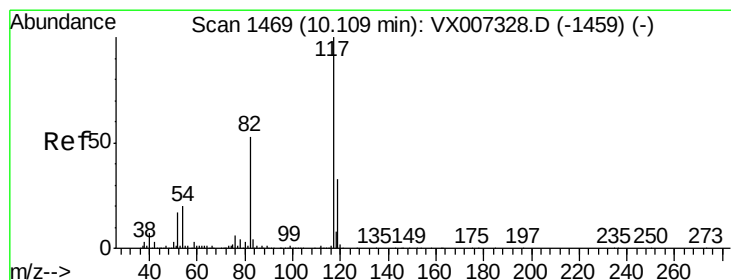
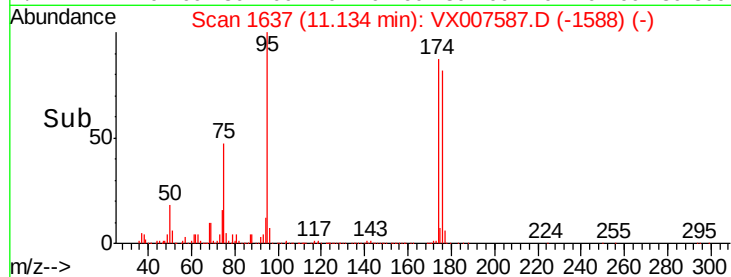
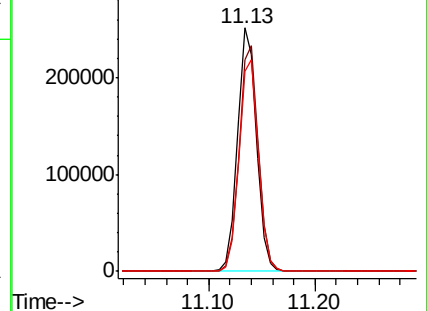
176 89.4 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

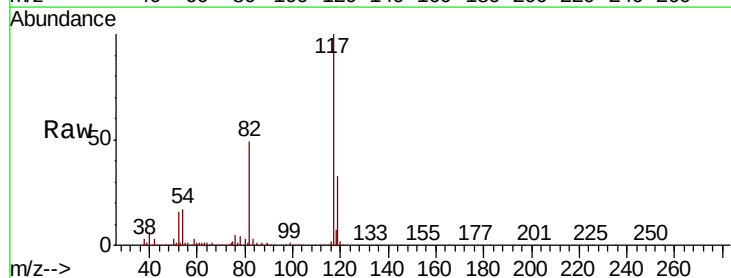
Tgt Ion: 117 Resp: 721605

Ion Ratio Lower Upper

117 100

82 49.0 42.1 63.1

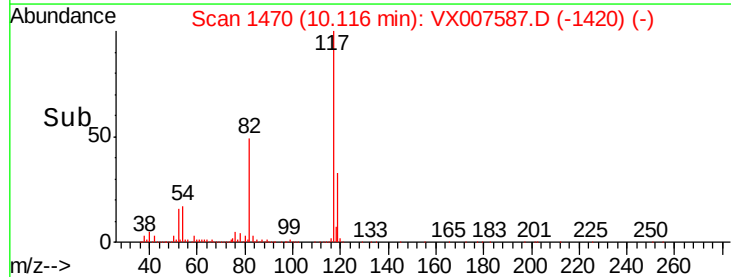
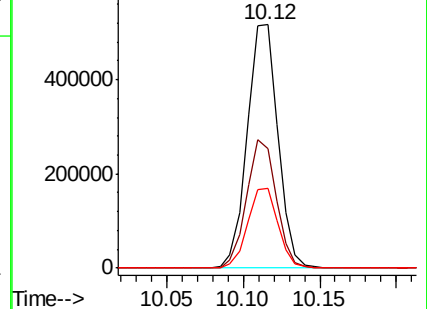
119 32.6 26.5 39.7

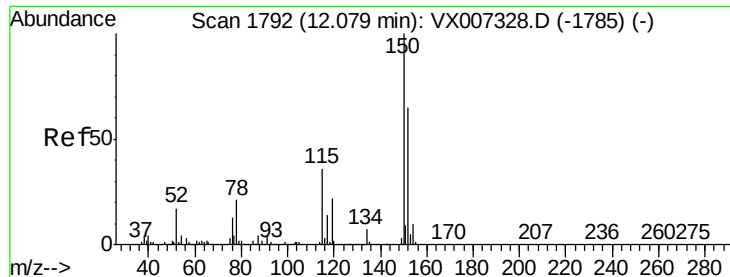


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): 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: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

PB117159TB

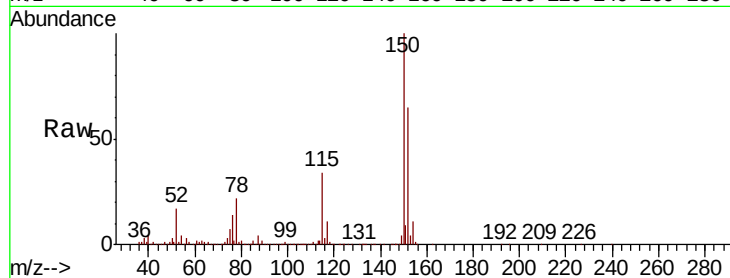
Tgt Ion: 152 Resp: 338823

Ion Ratio Lower Upper

152 100

115 53.8 38.0 114.0

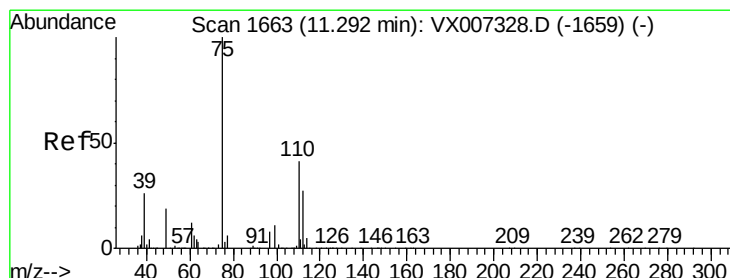
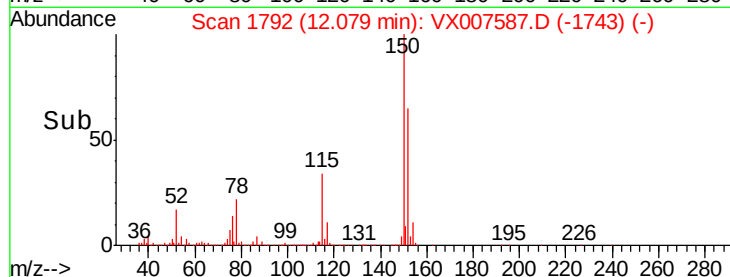
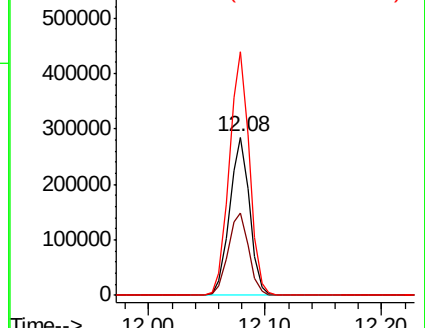
150 154.7 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 23.012 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007587.D

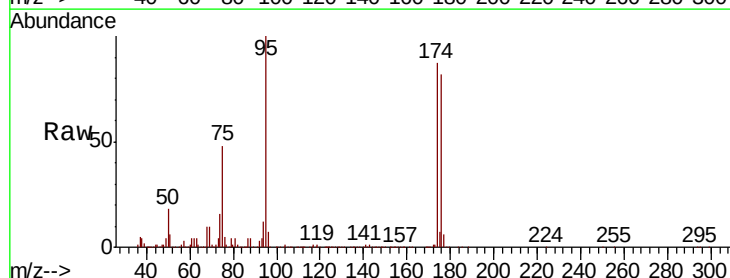
Acq: 18 Feb 2019 14:38

Tgt Ion: 75 Resp: 151659

Ion Ratio Lower Upper

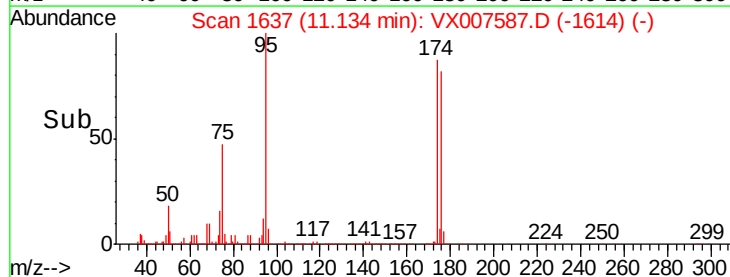
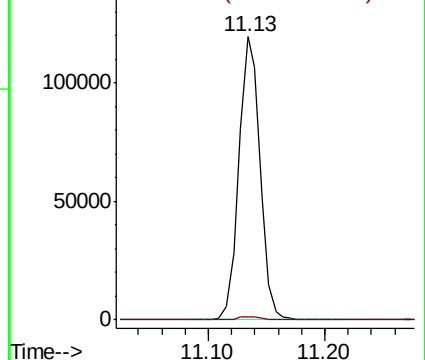
75 100

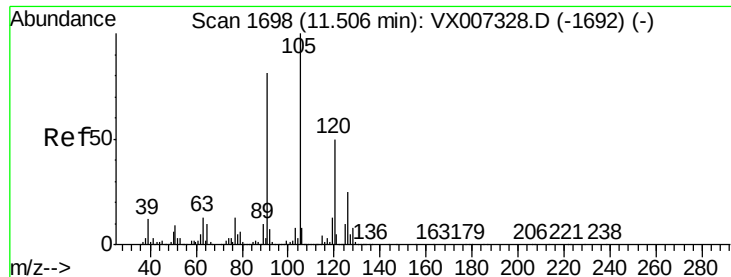
77 1.4 23.0 69.0#



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: 0.506 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

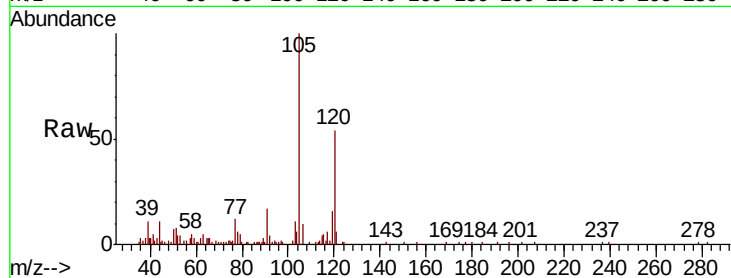
PB117159TB

Tgt Ion: 105 Resp: 9537

Ion Ratio Lower Upper

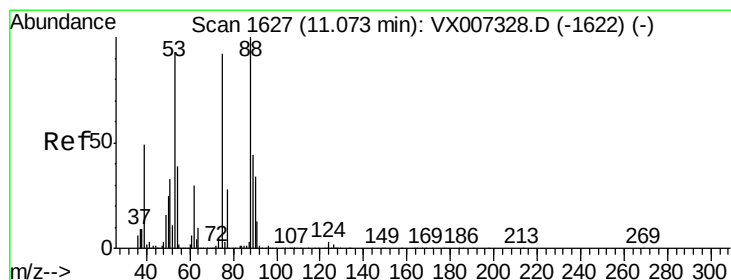
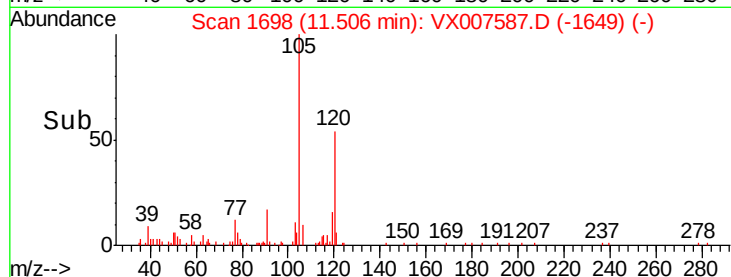
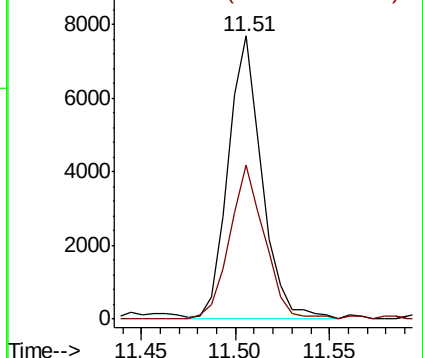
105 100

120 56.3 25.3 75.8



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: 69.340 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007587.D

Acq: 18 Feb 2019 14:38

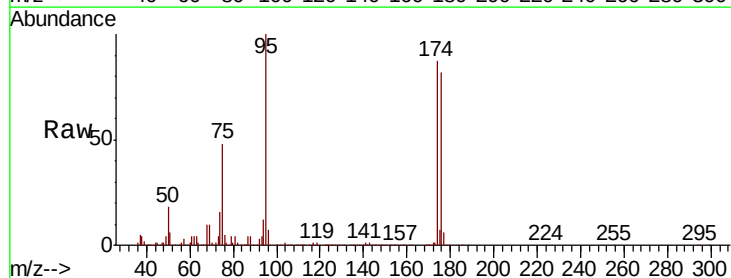
Tgt Ion: 75 Resp: 151659

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

