

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021419\
 Data File : VX007527.D
 Acq On : 13 Feb 2019 18:17
 Operator : JC/SP
 Sample : K1458-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-7

Quant Time: Feb 14 02:38:31 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	540542	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	843619	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	772840	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	371116	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	284269	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
35) Dibromofluoromethane	5.50	113	269784	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	8.71	98	982566	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
62) 4-Bromofluorobenzene	11.13	95	349359	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	

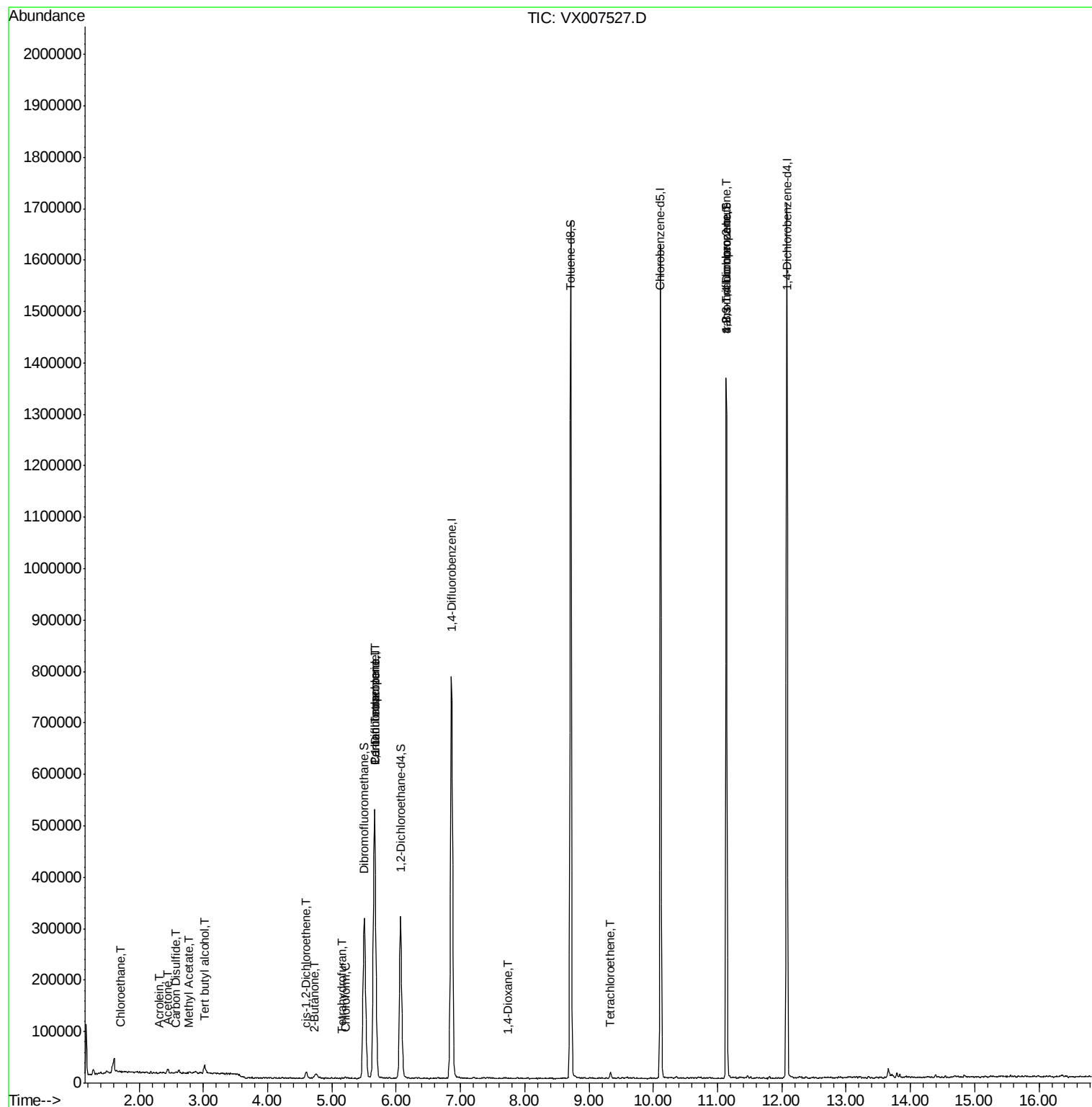
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	550	Below Cal		88
6) Chloroethane	1.71	64	1073	0.278	ug/l #	43
11) Tert butyl alcohol	3.03	59	10805	9.100	ug/l #	82
13) Acrolein	2.31	56	302	0.542	ug/l	98
16) Acetone	2.45	43	8159	3.104	ug/l #	88
17) Carbon Disulfide	2.57	76	3161	2.345	ug/l #	94
18) Methyl Acetate	2.77	43	1214	0.768	ug/l #	44
20) Methylene Chloride	2.86	84	2049	Below Cal	#	80
25) 2-Butanone	4.71	43	1680	0.449	ug/l #	73
27) cis-1,2-Dichloroethene	4.60	96	7642	1.273	ug/l	84
29) Tetrahydrofuran	5.15	42	643	0.273	ug/l #	58
30) Chloroform	5.21	83	2159	0.233	ug/l #	35
36) 1,1-Dichloropropene	5.67	75	33671	4.448	ug/l #	50
38) Carbon Tetrachloride	5.66	117	48553	6.612	ug/l #	17
49) 1,4-Dioxane	7.74	88	106	7.662	ug/l #	40
64) Tetrachloroethene	9.34	164	2714	0.373	ug/l #	87
76) 1,2,3-Trichloropropane	11.13	75	166237	23.029	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	166237	69.389	ug/l #	9

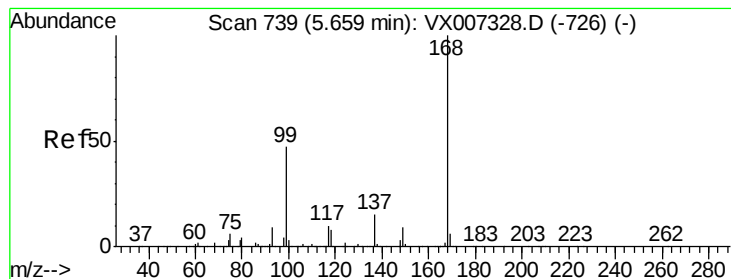
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampled :

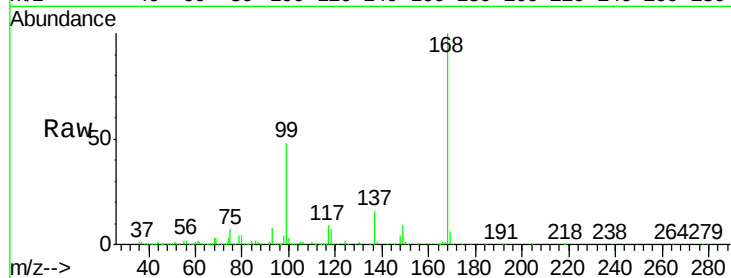
GW-7

Tot Ion:168 Resp: 540542

Ion Ratio Lower Upper

168 100

99 48.1 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

200000

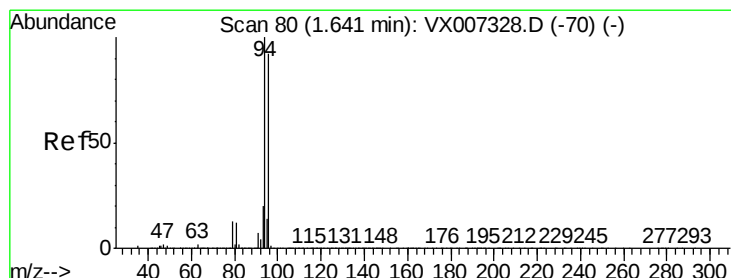
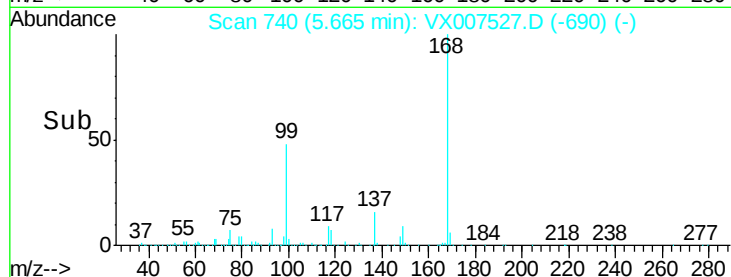
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007527.D

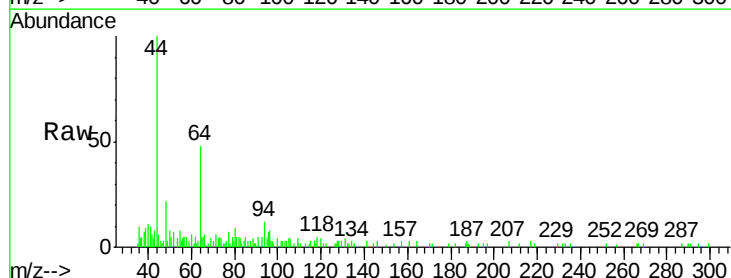
Acq: 13 Feb 2019 18:17

Tgt Ion: 94 Resp: 550

Ion Ratio Lower Upper

94 100

96 103.8 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

600

500

400

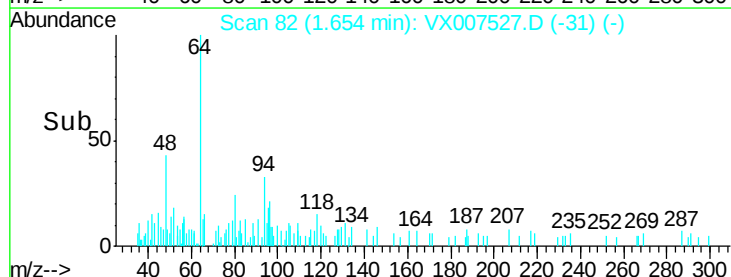
300

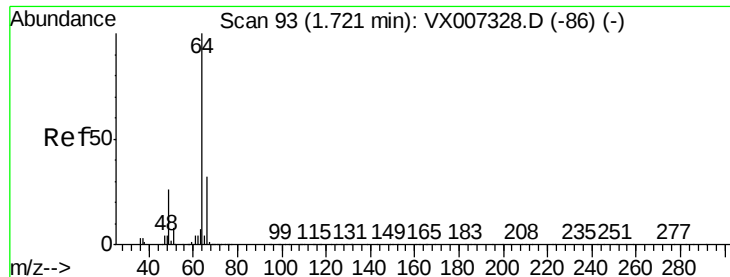
200

100

0

Time-->





#6

Chloroethane

Concen: 0.278 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

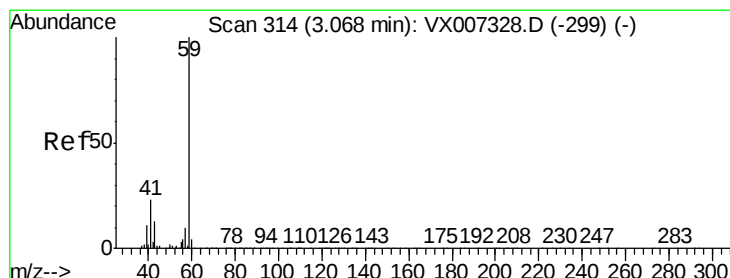
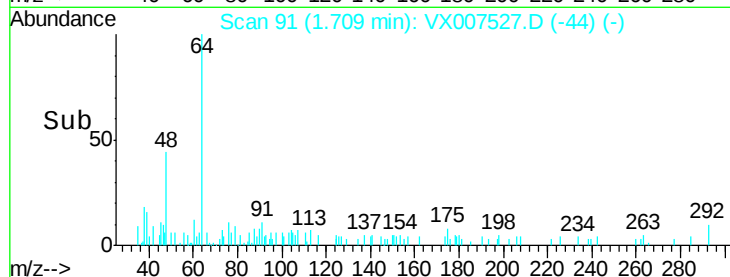
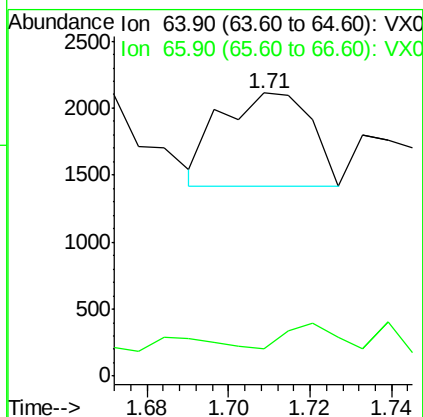
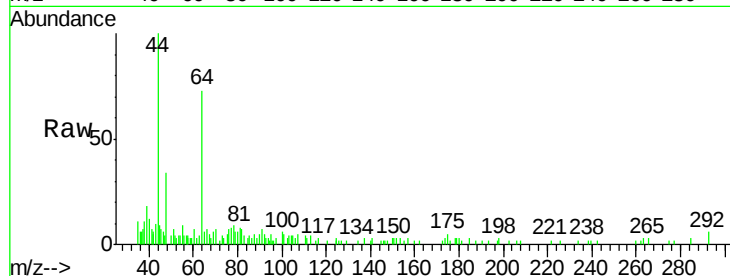
GW-7

Tot Ion: 64 Resp: 1073

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#11

Tert butyl alcohol

Concen: 9.100 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.04 min

Lab File: VX007527.D

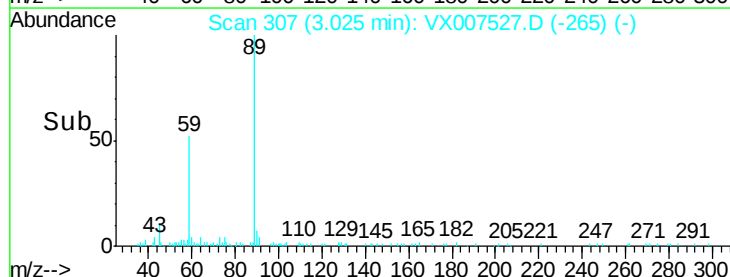
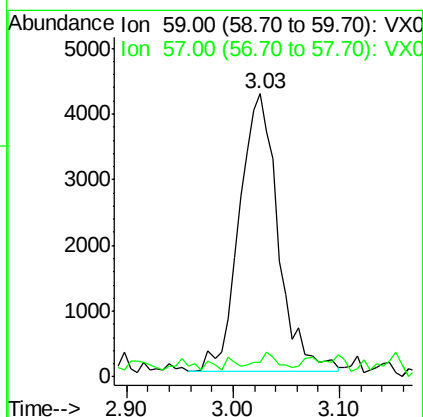
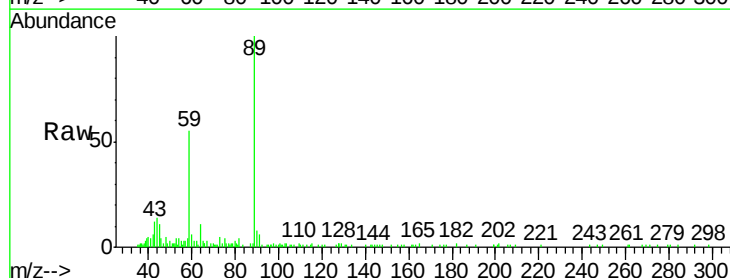
Acq: 13 Feb 2019 18:17

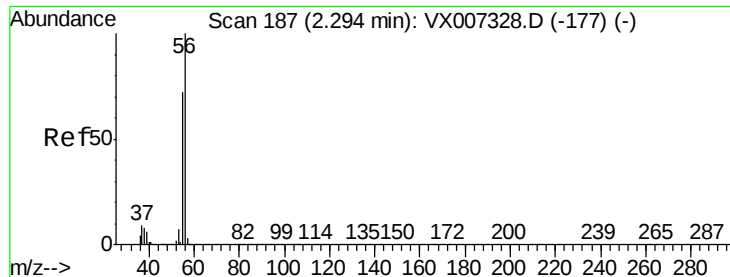
Tgt Ion: 59 Resp: 10805

Ion Ratio Lower Upper

59 100

57 3.3 8.1 12.1#





#13

Acrolein

Concen: 0.542 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

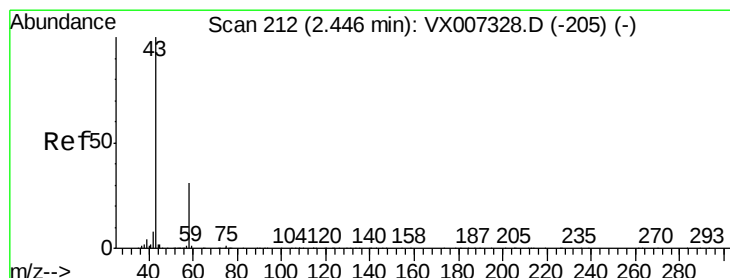
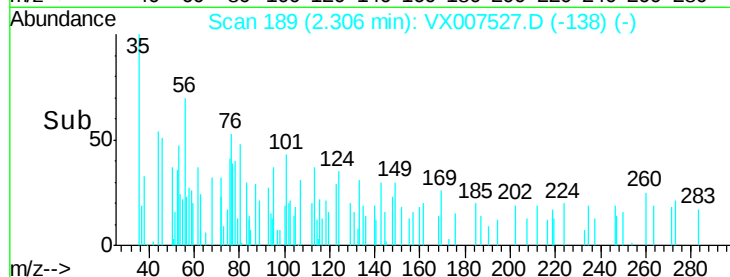
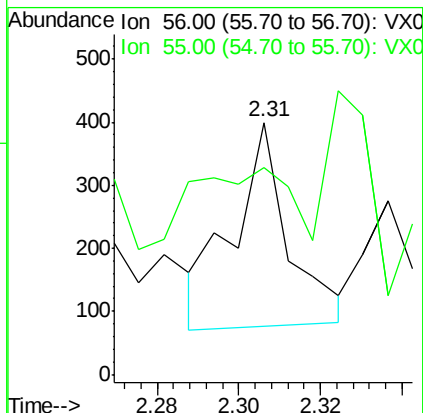
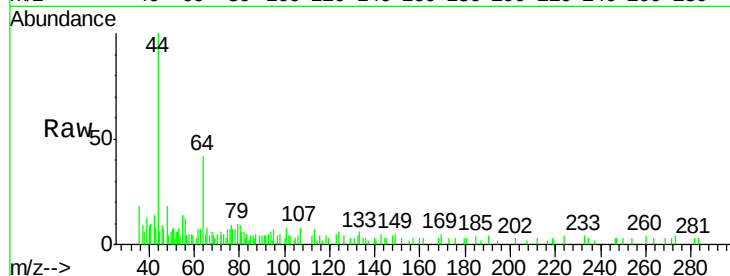
GW-7

Tot Ion: 56 Resp: 302

Ion Ratio Lower Upper

56 100

55 72.8 56.9 85.3



#16

Acetone

Concen: 3.104 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007527.D

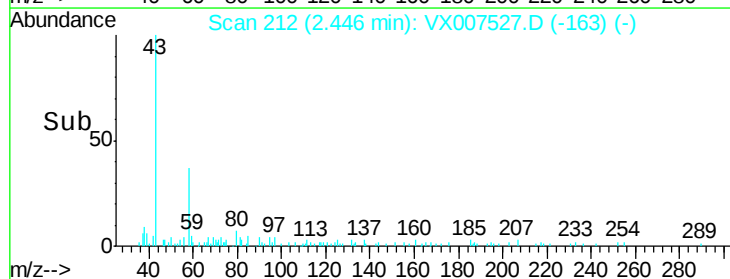
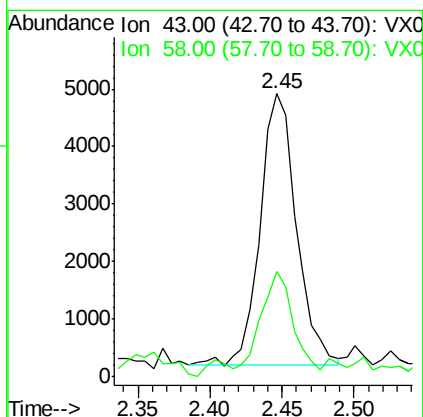
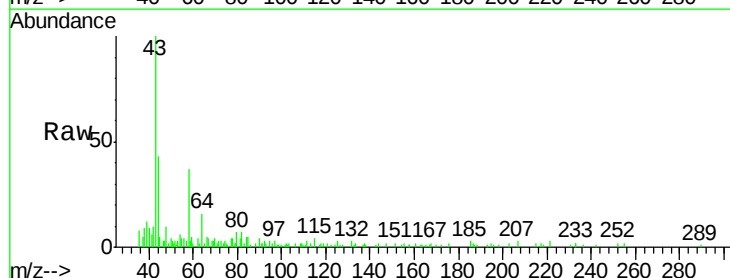
Acq: 13 Feb 2019 18:17

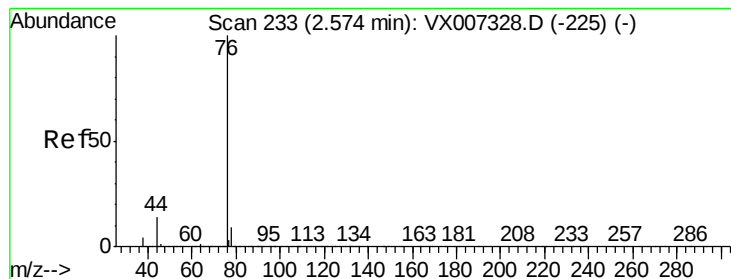
Tgt Ion: 43 Resp: 8159

Ion Ratio Lower Upper

43 100

58 37.7 24.9 37.3#





#17

Carbon Disulfide

Concen: 2.345 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

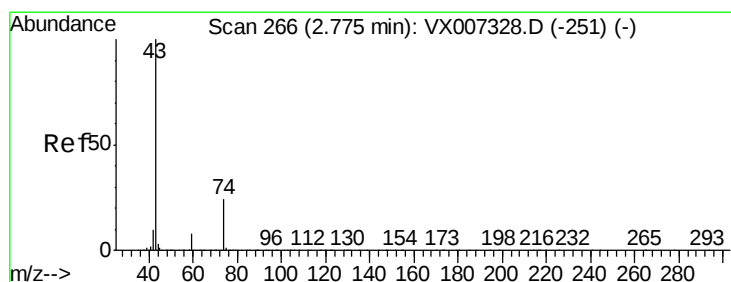
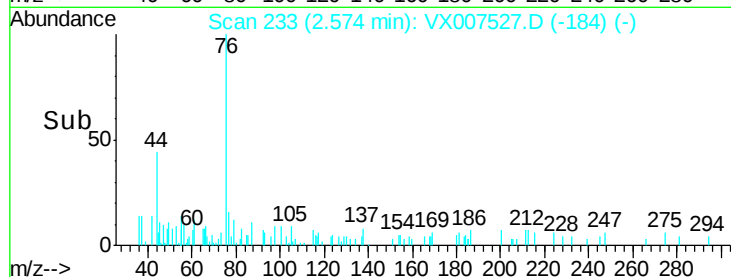
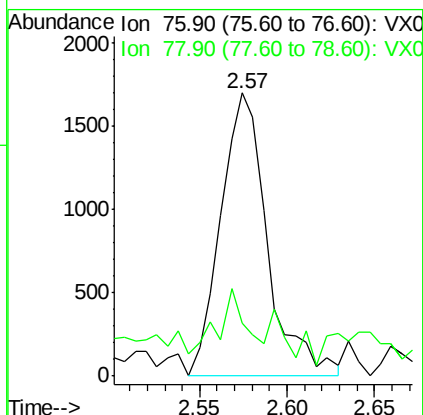
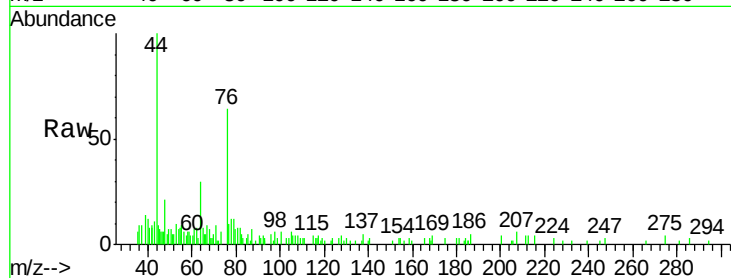
GW-7

Tot Ion: 76 Resp: 3161

Ion Ratio Lower Upper

76 100

78 10.9 7.1 10.7#



#18

Methyl Acetate

Concen: 0.768 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX007527.D

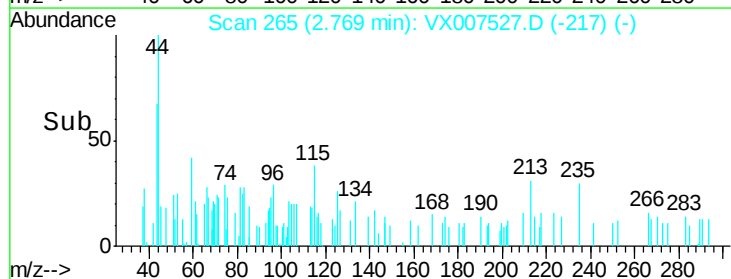
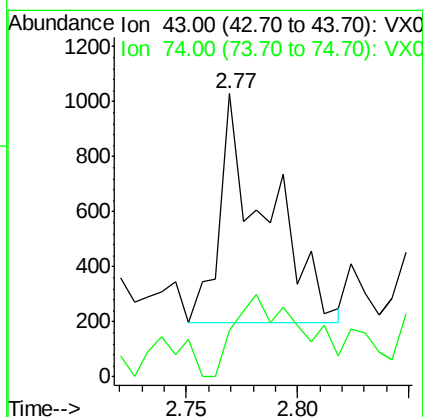
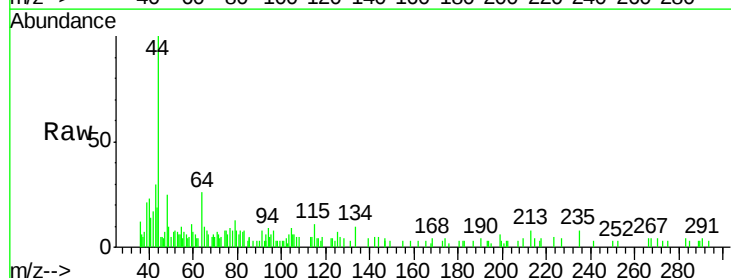
Acq: 13 Feb 2019 18:17

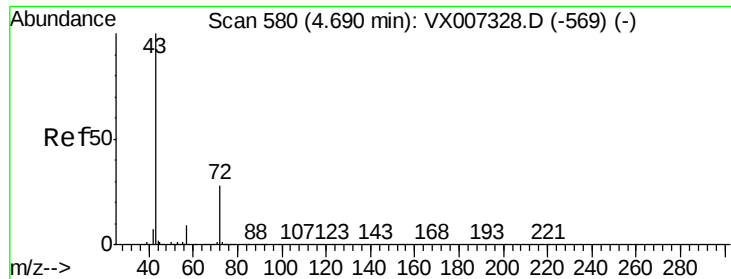
Tgt Ion: 43 Resp: 1214

Ion Ratio Lower Upper

43 100

74 52.3 19.4 29.2#





#25

2-Butanone

Concen: 0.449 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampled :

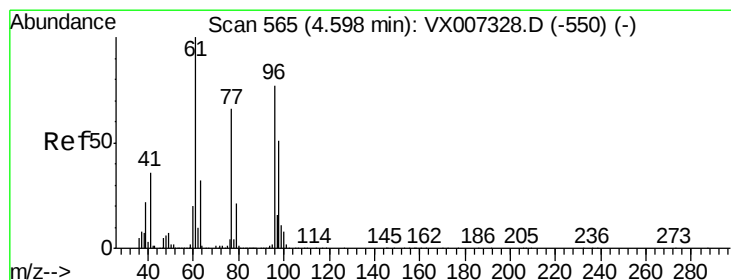
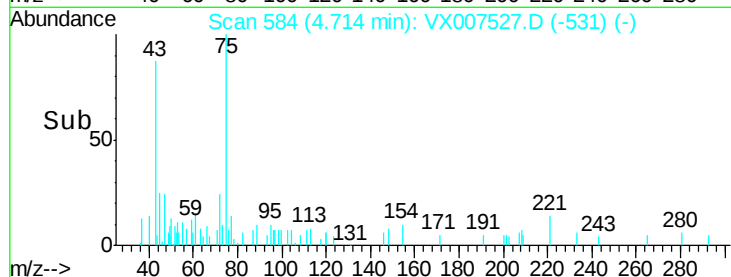
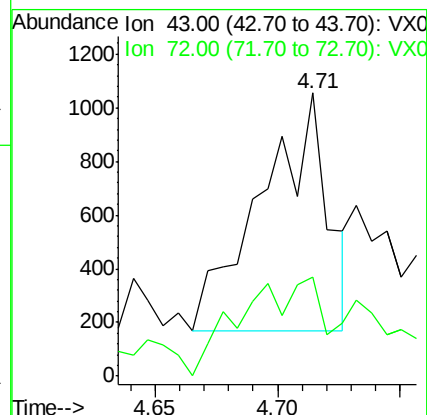
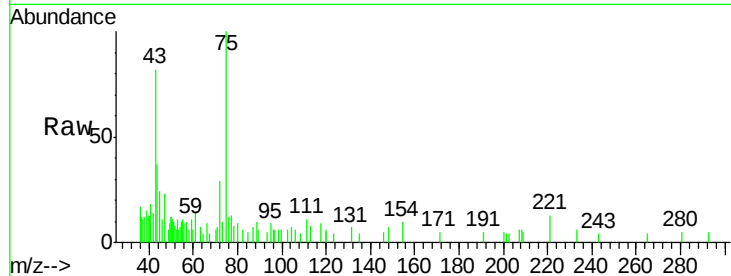
GW-7

Tot Ion: 43 Resp: 1680

Ion Ratio Lower Upper

43 100

72 41.9 22.2 33.2#



#27

cis-1,2-Dichloroethene

Concen: 1.273 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

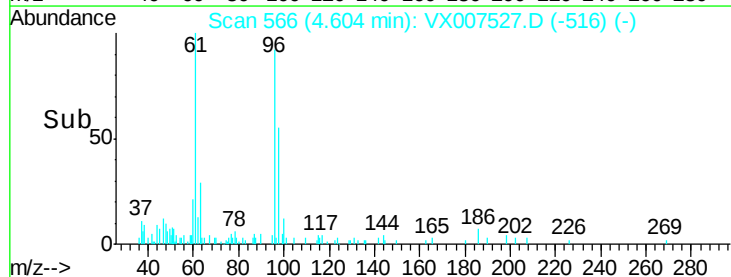
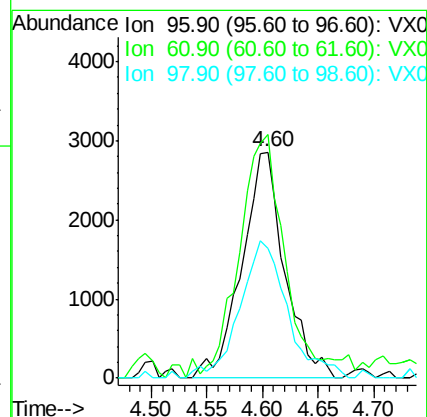
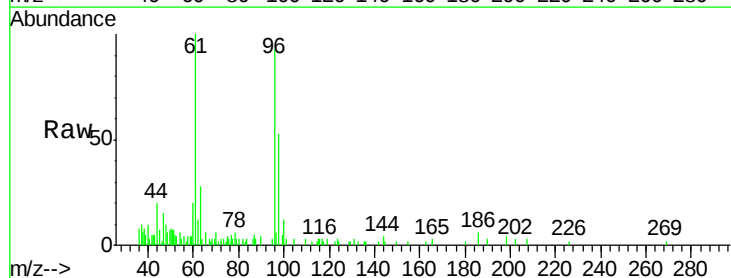
Tgt Ion: 96 Resp: 7642

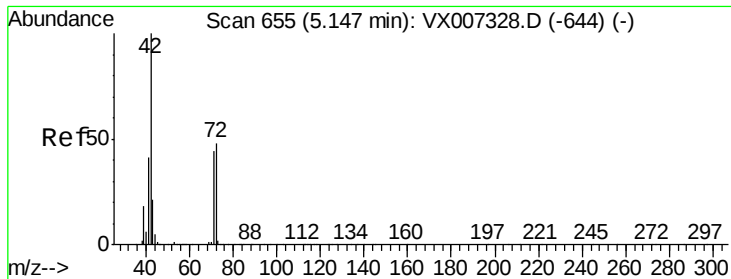
Ion Ratio Lower Upper

96 100

61 106.6 0.0 265.6

98 67.7 0.0 131.6





#29

Tetrahydrofuran

Concen: 0.273 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.01 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

GW-7

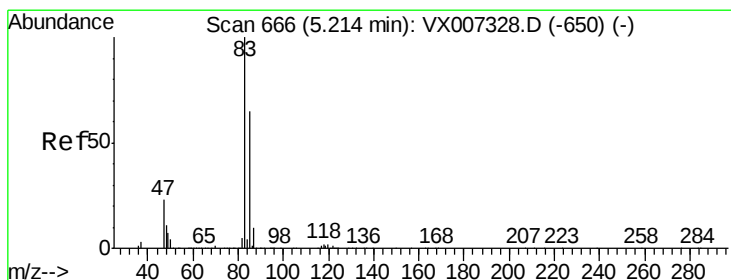
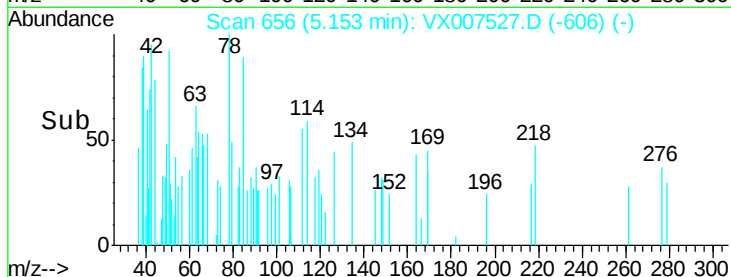
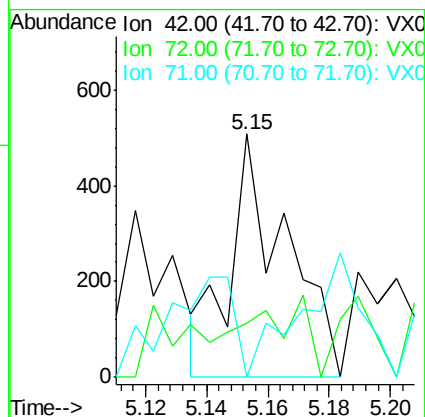
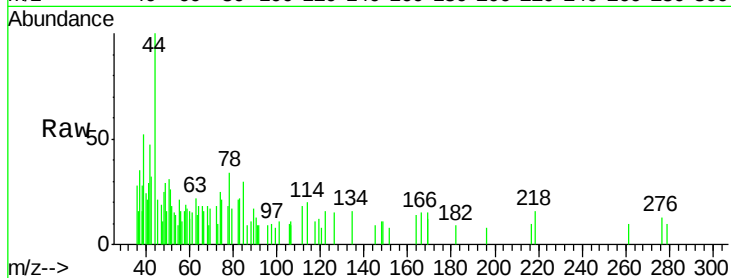
Tot Ion: 42 Resp: 643

Ion Ratio Lower Upper

42 100

72 0.0 37.6 56.4#

71 49.8 34.6 51.8



#30

Chloroform

Concen: 0.233 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.01 min

Lab File: VX007527.D

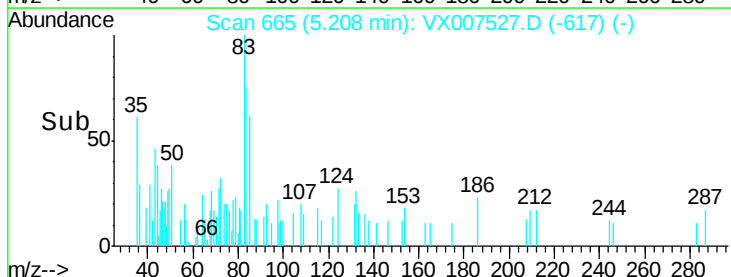
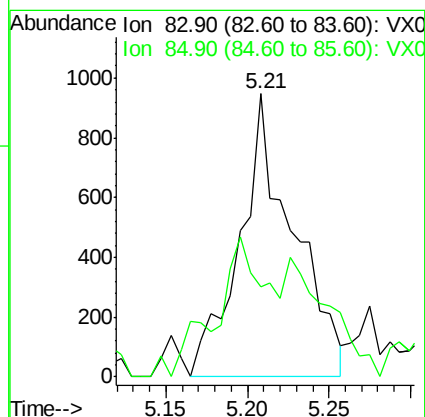
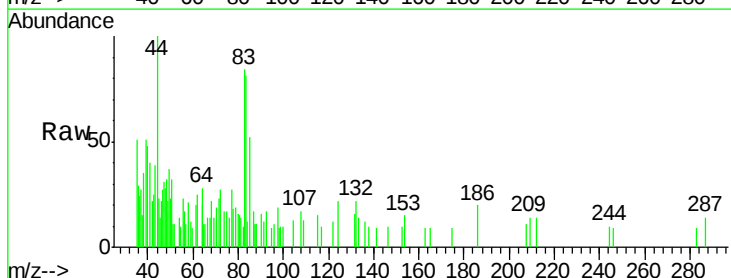
Acq: 13 Feb 2019 18:17

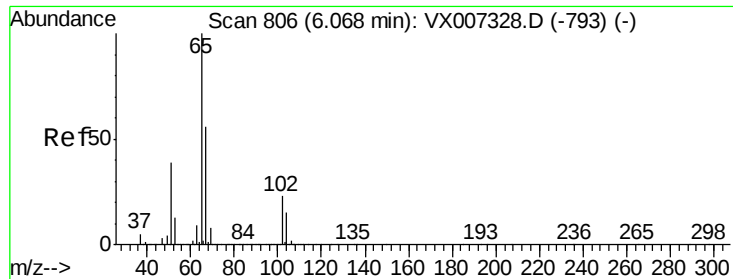
Tgt Ion: 83 Resp: 2159

Ion Ratio Lower Upper

83 100

85 13.8 51.6 77.4#





#33

1,2-Dichloroethane-d4

Concen: 49.546 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampled :

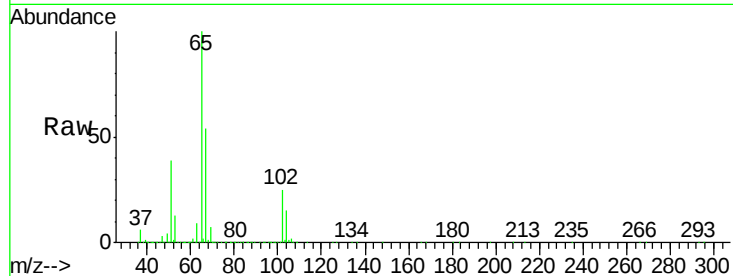
GW-7

Tot Ion: 65 Resp: 284269

Ion Ratio Lower Upper

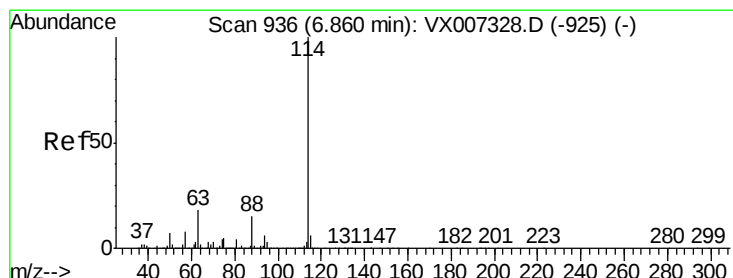
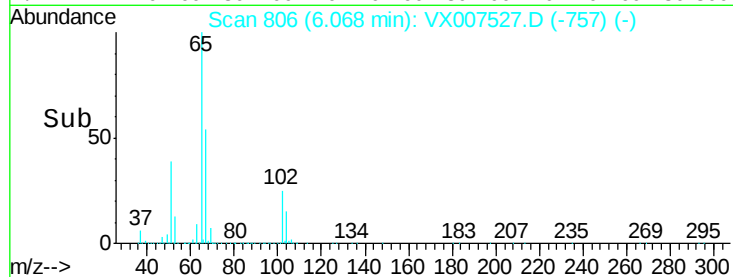
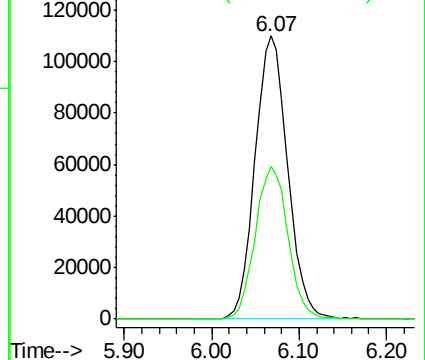
65 100

67 54.5 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: VX007527.D

Acq: 13 Feb 2019 18:17

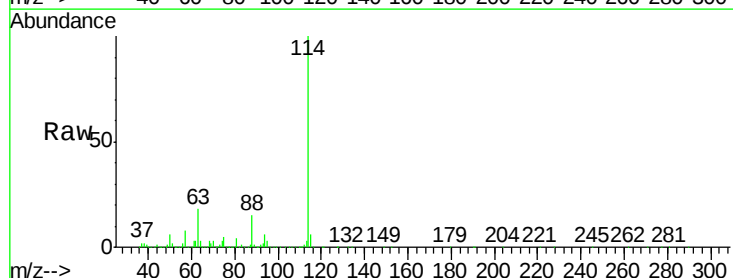
Tgt Ion: 114 Resp: 843619

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.6

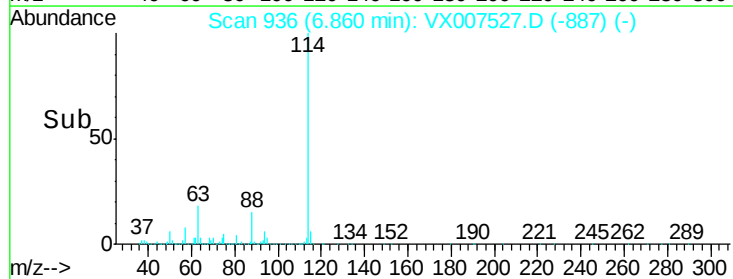
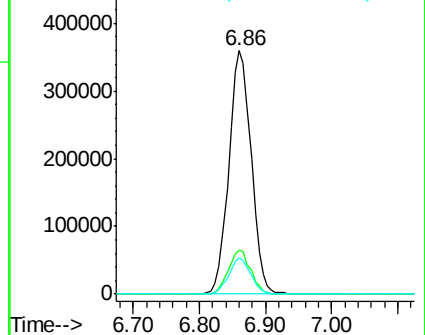
88 14.9 0.0 29.6

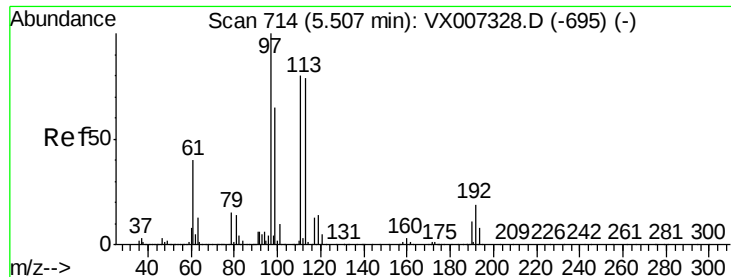


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.149 ug/l

RT: 5.50 min Scan# 713

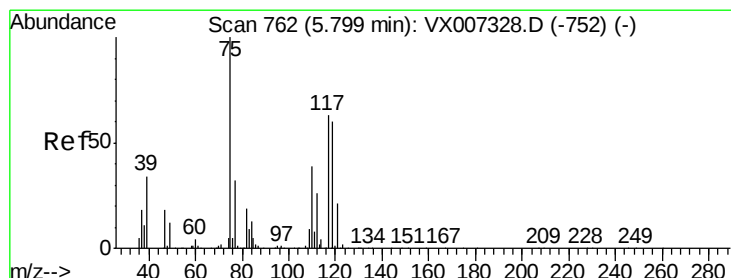
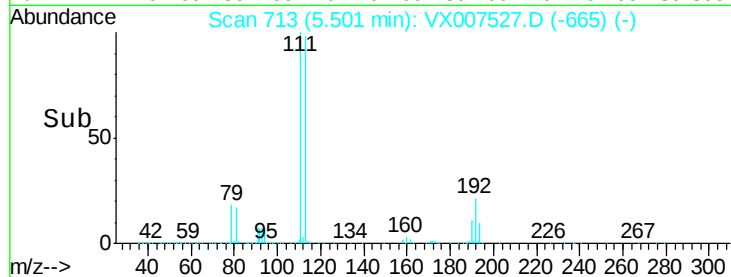
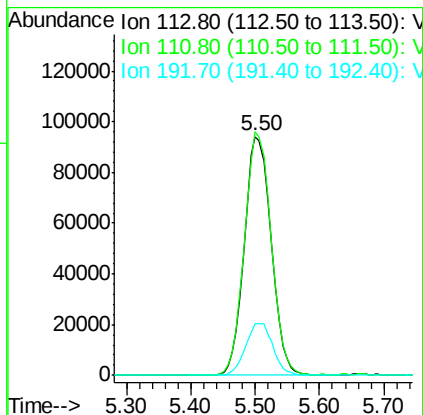
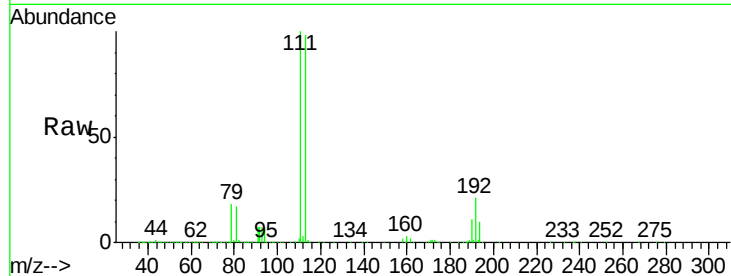
Delta R.T. -0.01 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :
MSVOA_X
ClientSampleId :
GW-7

Tot Ion:	113	Resp:	269784
Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.8	122.8
192	21.9	18.5	27.7



#36

1,1-Dichloropropene

Concen: 4.448 ug/l

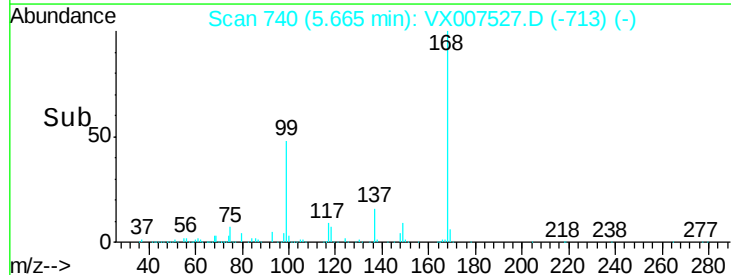
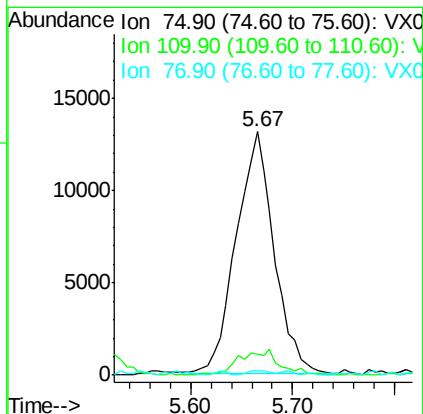
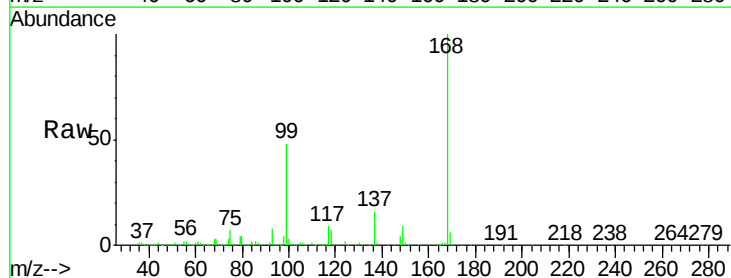
RT: 5.67 min Scan# 740

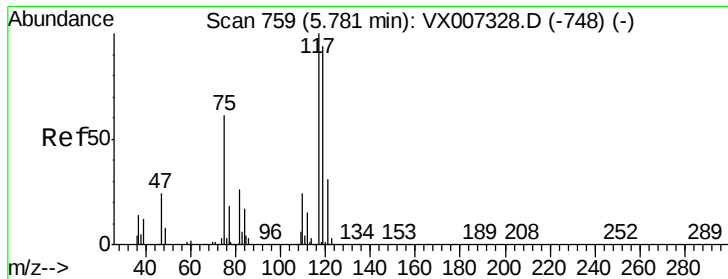
Delta R.T. -0.13 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Tgt Ion:	75	Resp:	33671
Ion	Ratio	Lower	Upper
75	100		
110	11.2	20.0	59.9#
77	1.1	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.612 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampled :

GW-7

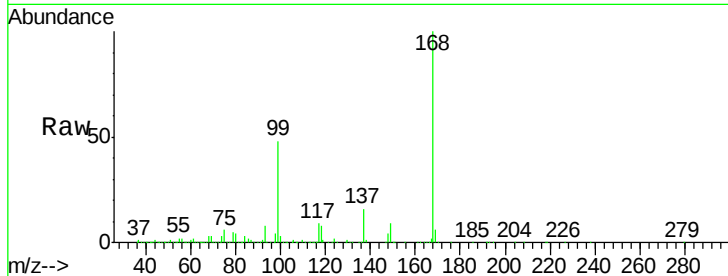
Tot Ion:117 Resp: 48553

Ion Ratio Lower Upper

117 100

119 5.4 75.3 112.9#

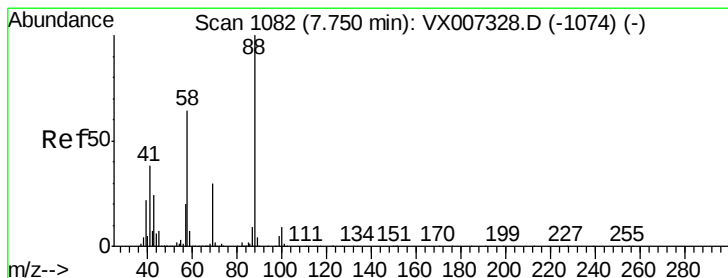
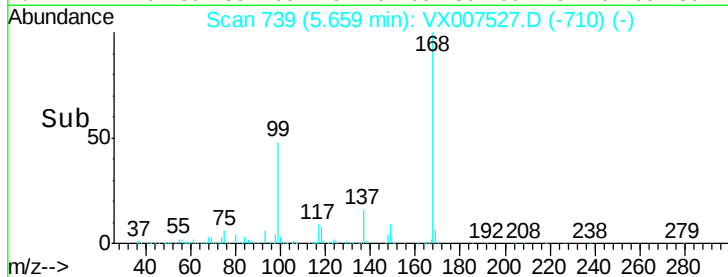
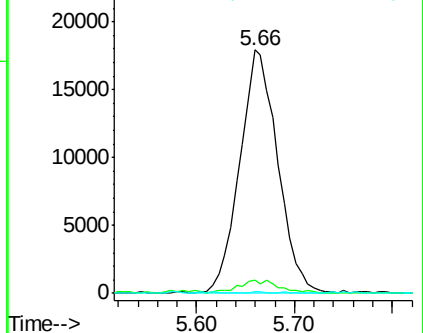
121 0.6 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 7.662 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

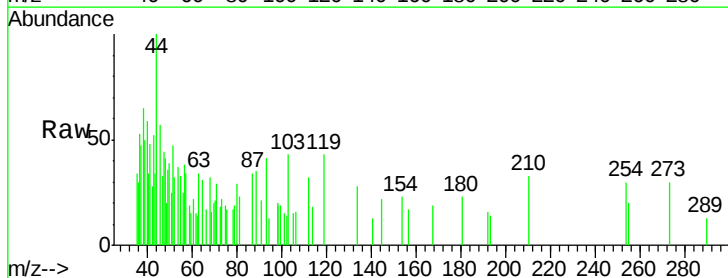
Tgt Ion: 88 Resp: 106

Ion Ratio Lower Upper

88 100

43 111.3 24.2 36.4#

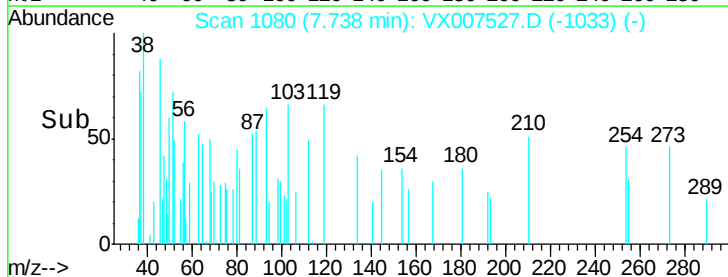
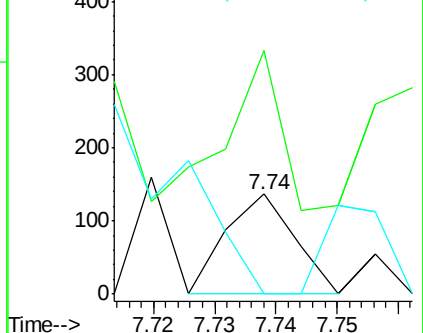
58 81.1 53.0 79.4#

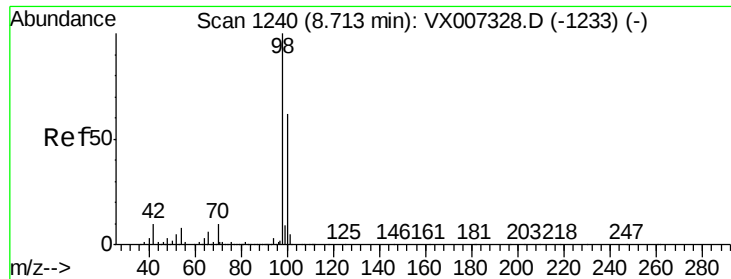


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.246 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

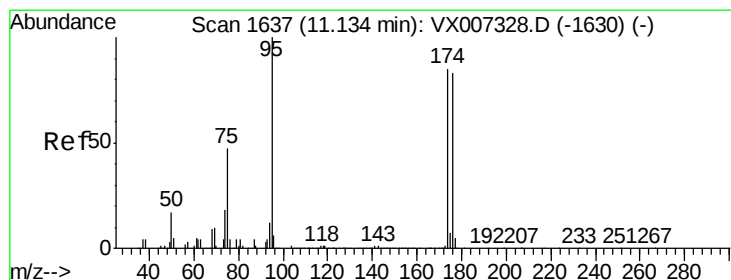
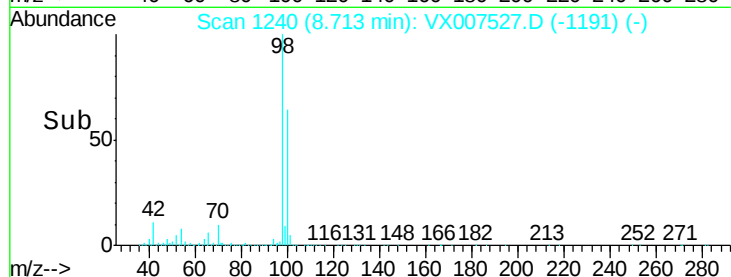
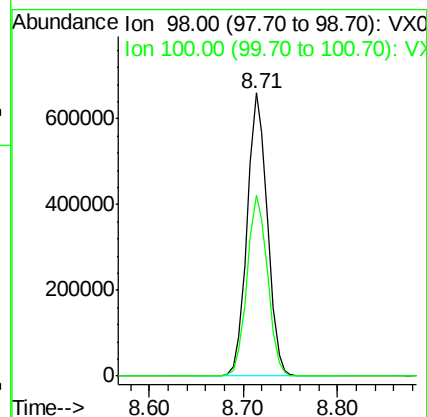
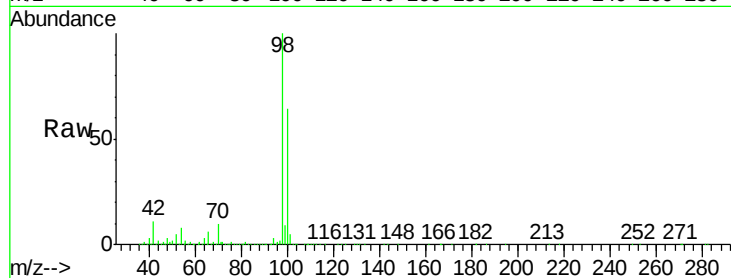
GW-7

Tot Ion: 98 Resp: 982566

Ion Ratio Lower Upper

98 100

100 64.7 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 46.985 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

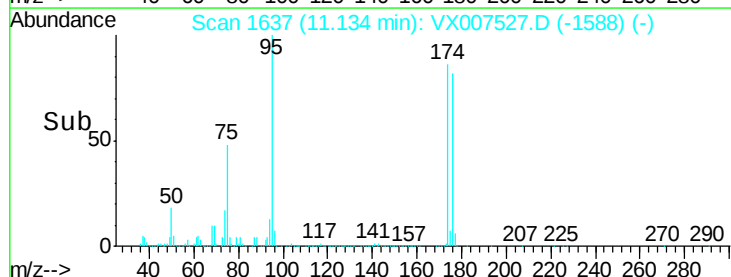
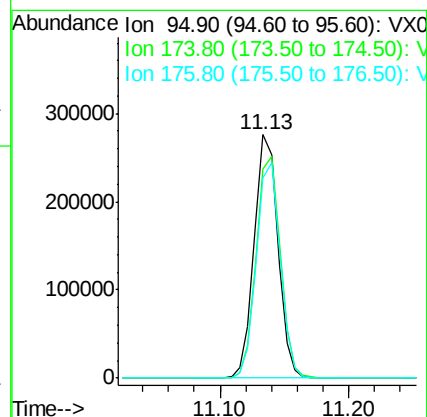
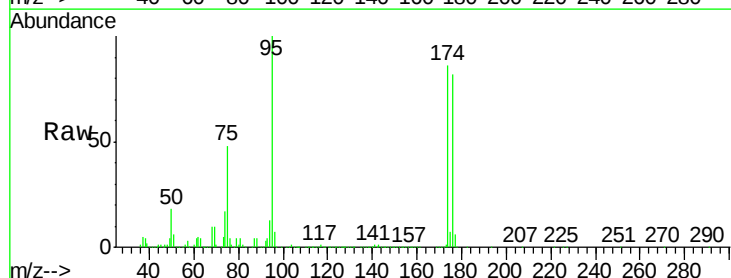
Tgt Ion: 95 Resp: 349359

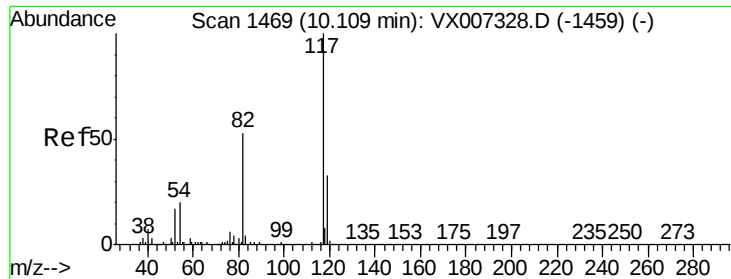
Ion Ratio Lower Upper

95 100

174 92.6 0.0 189.2

176 89.0 0.0 186.2

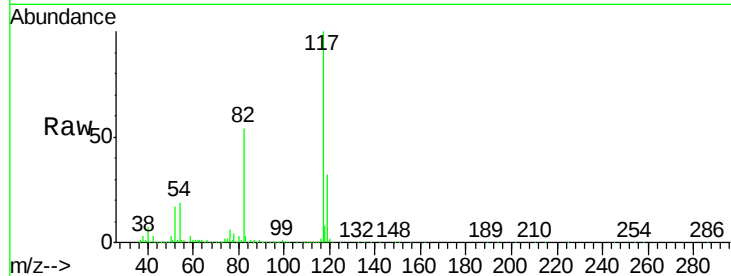




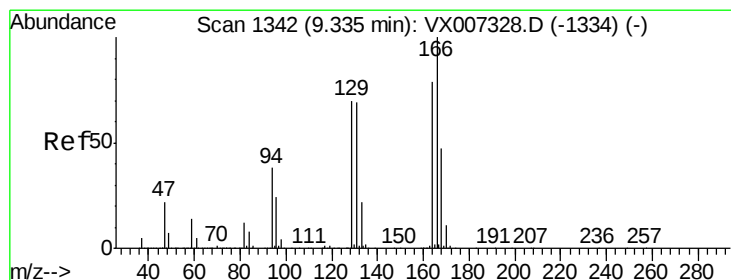
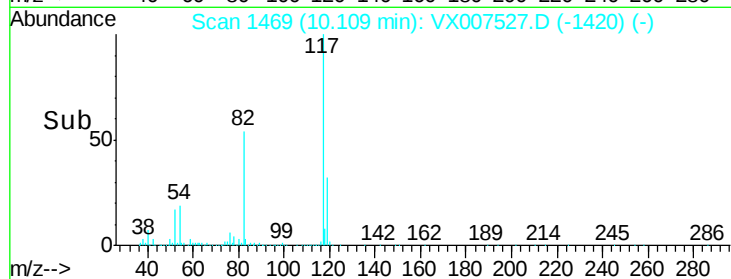
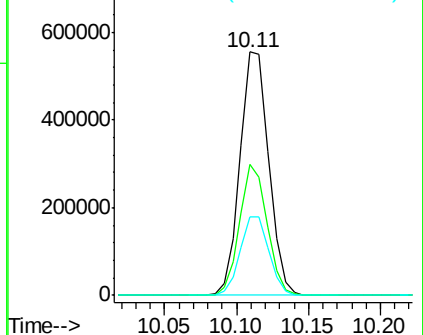
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007527.D
Acq: 13 Feb 2019 18:17

Instrument :
MSVOA_X
ClientSampleId :
GW-7

Tot Ion:117 Resp: 772840
Ion Ratio Lower Upper
117 100
82 53.7 42.1 63.1
119 32.3 26.5 39.7

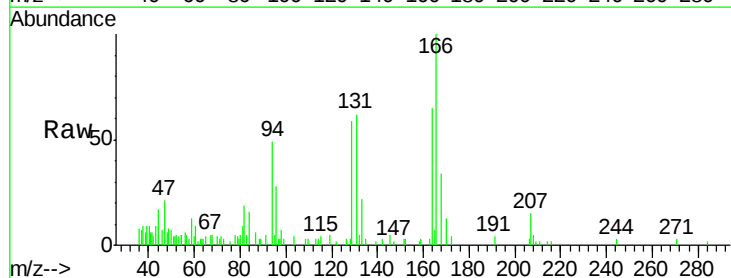


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

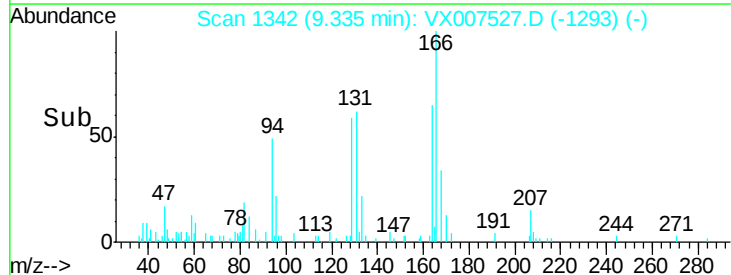
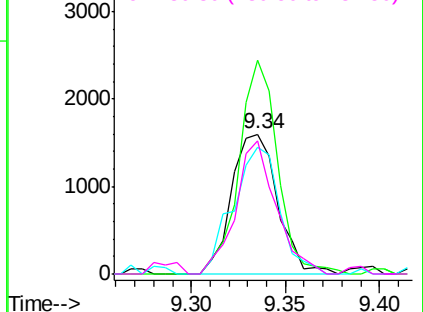


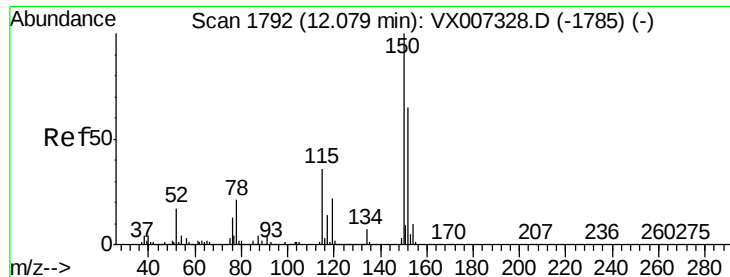
#64
Tetrachloroethene
Concen: 0.373 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX007527.D
Acq: 13 Feb 2019 18:17

Tgt Ion:164 Resp: 2714
Ion Ratio Lower Upper
164 100
166 152.7 101.0 151.4#
129 90.2 70.5 105.7
131 95.2 69.8 104.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampled :

GW-7

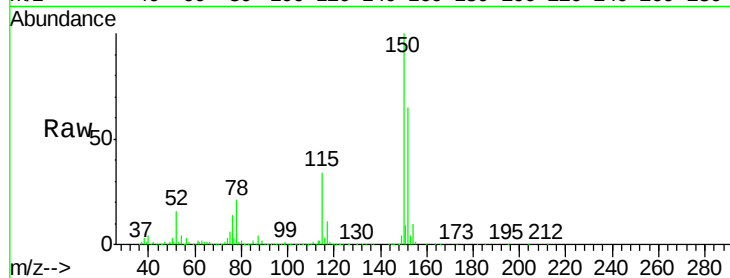
Tot Ion:152 Resp: 371116

Ion Ratio Lower Upper

152 100

115 54.4 38.0 114.0

150 157.8 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

600000

500000

400000

300000

200000

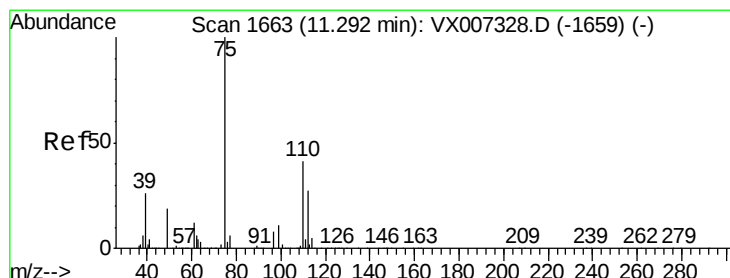
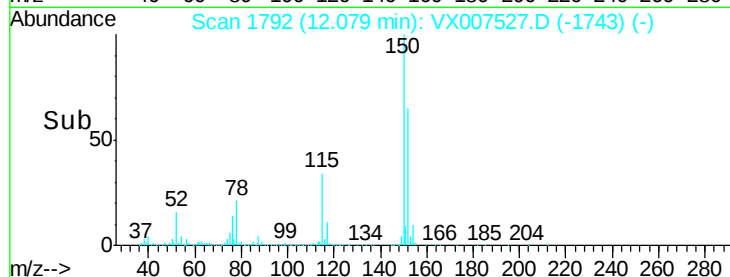
100000

0

12.00

12.10

Time-->



#76

1,2,3-Trichloropropane

Concen: 23.029 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007527.D

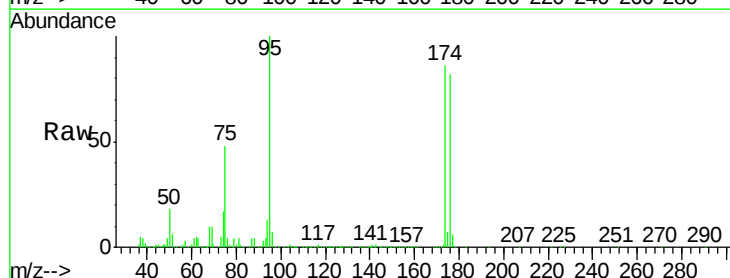
Acq: 13 Feb 2019 18:17

Tgt Ion: 75 Resp: 166237

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

150000

100000

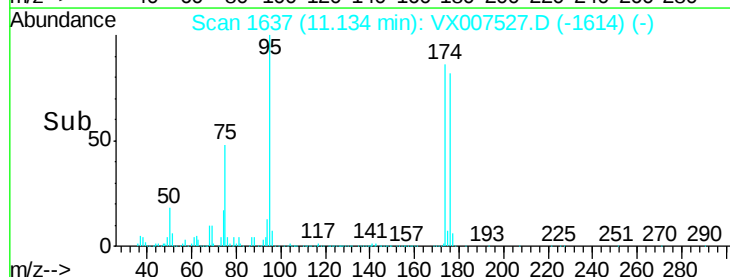
50000

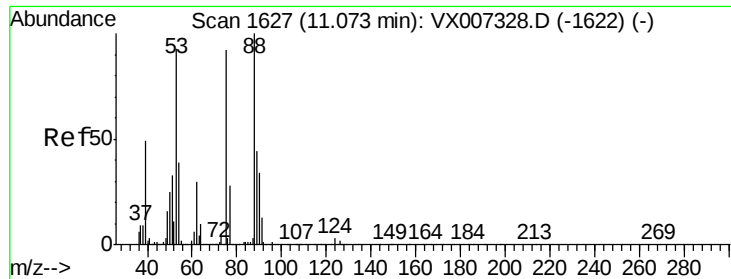
0

11.10

11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 69.389 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007527.D

Acq: 13 Feb 2019 18:17

Instrument :

MSVOA_X

ClientSampleId :

GW-7

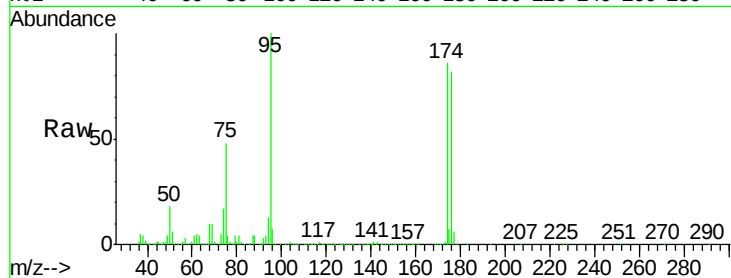
Tot Ion: 75 Resp: 166237

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.0 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

