

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073118\
 Data File : VX003783.D
 Acq On : 01 Aug 2018 06:50
 Operator : JC/SP
 Sample : J4143-08
 Misc : 13.49G/5.0mL/MSVOA X/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-02(8-10)

Quant Time: Aug 01 07:52:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 11:17:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	89024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	134168	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	104879	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	57290	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	36315	40.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.66%	
35) Dibromofluoromethane	5.51	113	36190	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	
50) Toluene-d8	8.72	98	131155	39.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.64%	
62) 4-Bromofluorobenzene	11.14	95	41114	33.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.70%	

Target Compounds

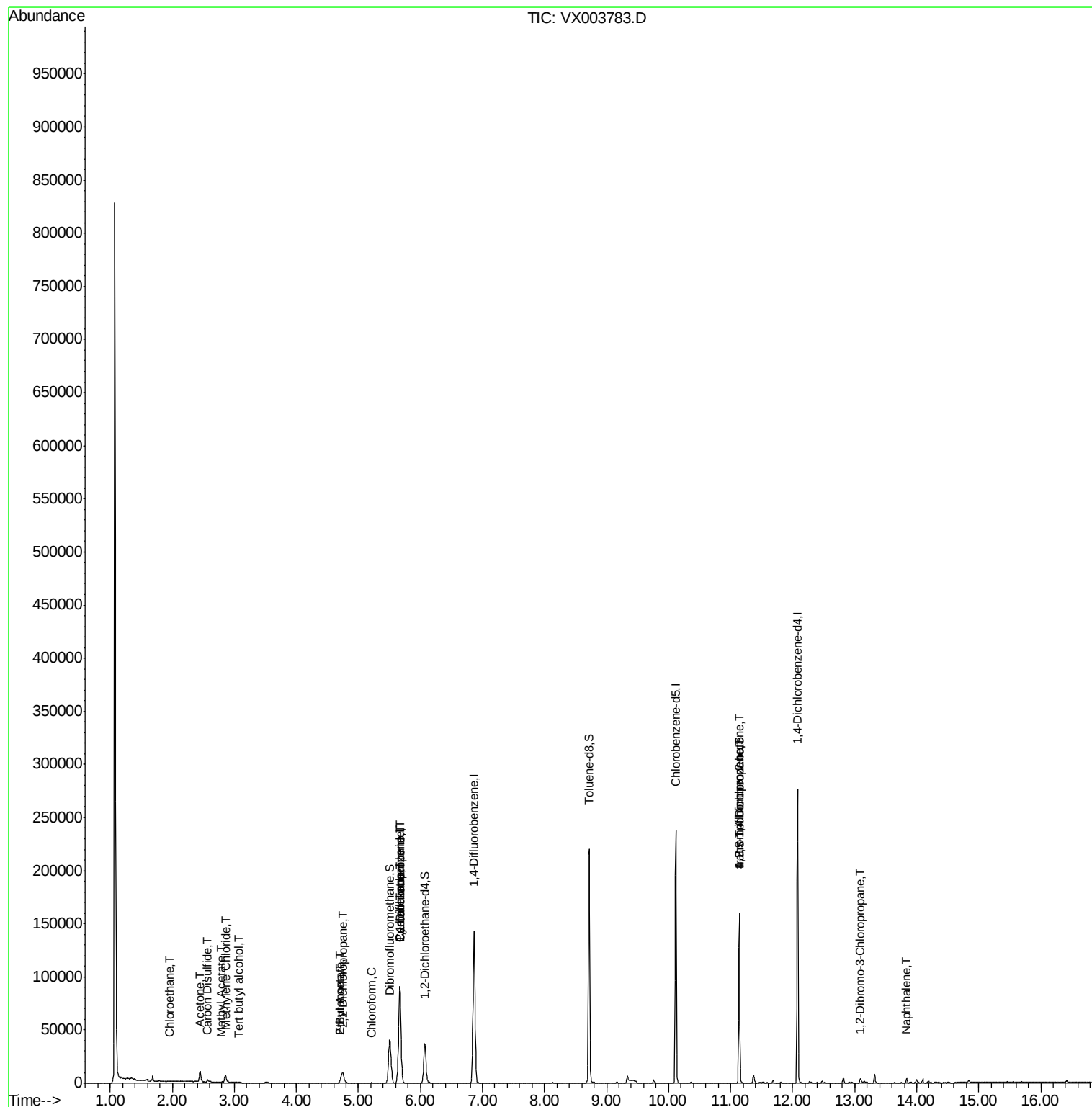
						Qvalue
5) Bromomethane	1.65	94	162	Below Cal		82
6) Chloroethane	1.96	64	252	0.38 ug/l	#	42
11) Tert butyl alcohol	3.07	59	306	2.10 ug/l	#	73
16) Acetone	2.45	43	10537	30.64 ug/l		94
17) Carbon Disulfide	2.57	76	2460	0.95 ug/l		95
18) Methyl Acetate	2.78	43	522	0.54 ug/l	#	52
20) Methylene Chloride	2.86	84	3198	0.37 ug/l		95
25) 2-Butanone	4.70	43	2111	4.21 ug/l		95
26) 2,2-Dichloropropane	4.74	77	817	0.70 ug/l	#	51
30) Chloroform	5.22	83	335	0.23 ug/l		87
31) Cyclohexane	5.67	56	1623	1.13 ug/l	#	1
36) 1,1-Dichloropropene	5.67	75	6353	5.06 ug/l	#	48
37) Ethyl Acetate	4.70	43	2111	2.19 ug/l	#	68
38) Carbon Tetrachloride	5.67	117	8308	7.15 ug/l	#	16
76) 1,2,3-Trichloropropane	11.14	75	20708	26.22 ug/l	#	35
81) trans-1,4-Dichloro-2-buten	11.14	75	20708	77.68 ug/l	#	11
92) 1,2-Dibromo-3-Chloropropan	13.09	75	234	1.26 ug/l	#	1
95) Naphthalene	13.83	128	2895	0.97 ug/l		99

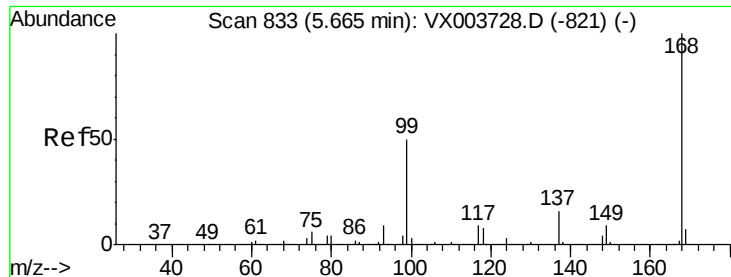
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 31 11:17:41 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

Instrument :

MSVOA_X

ClientSampleId :

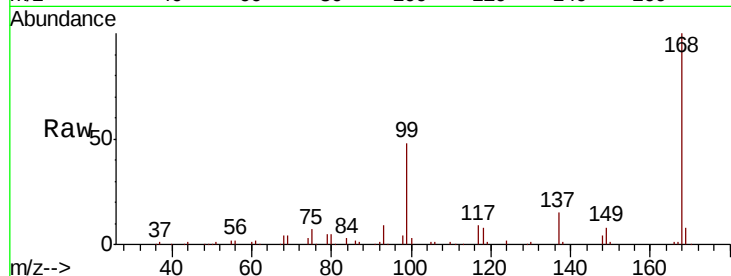
GW-02(8-10)

Tot Ion:168 Resp: 89024

Ion Ratio Lower Upper

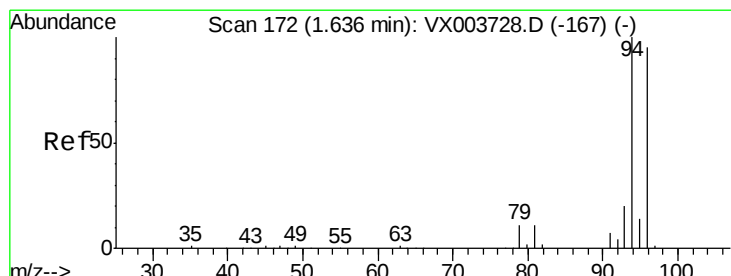
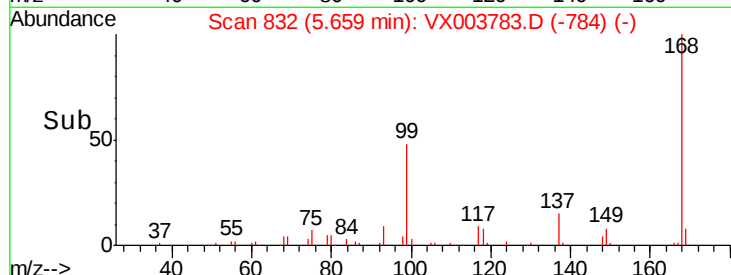
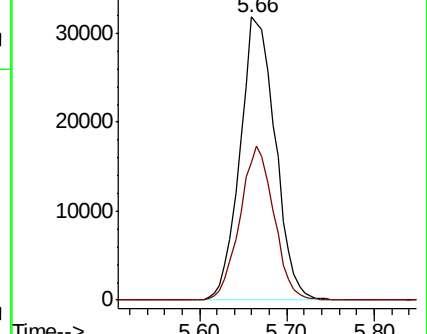
168 100

99 48.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003783.D

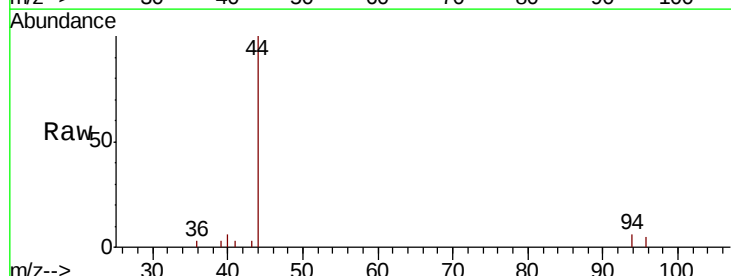
Acq: 01 Aug 2018 06:50

Tgt Ion: 94 Resp: 162

Ion Ratio Lower Upper

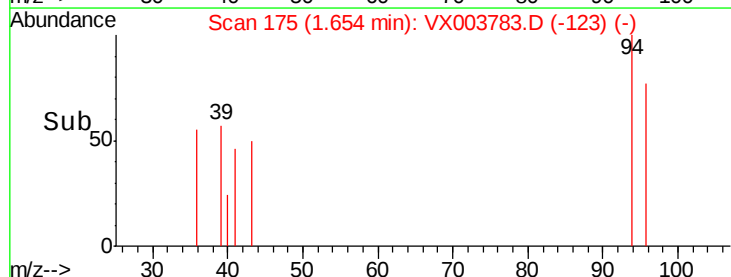
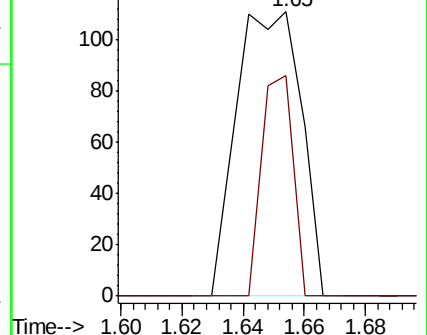
94 100

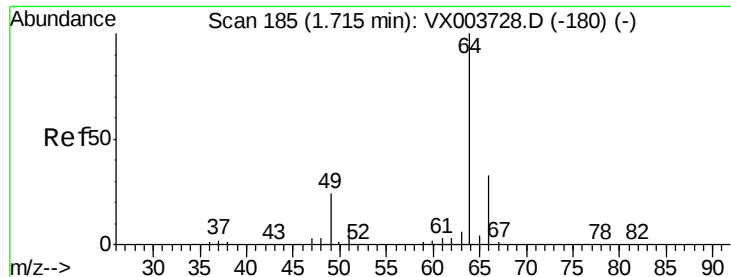
96 77.5 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.38 ug/l

RT: 1.96 min Scan# 225

Delta R.T. 0.24 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

Instrument :

MSVOA_X

ClientSampleId :

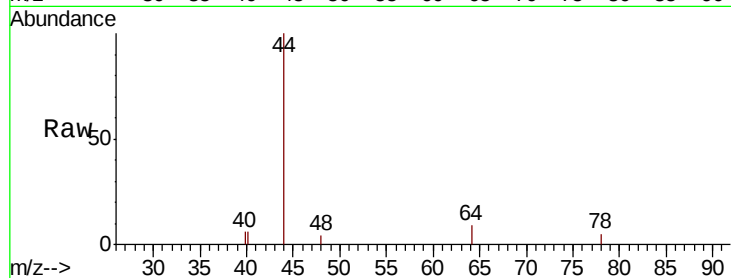
GW-02(8-10)

Tot Ion: 64 Resp: 252

Ion Ratio Lower Upper

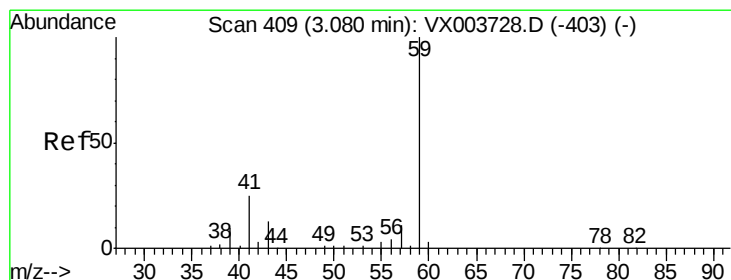
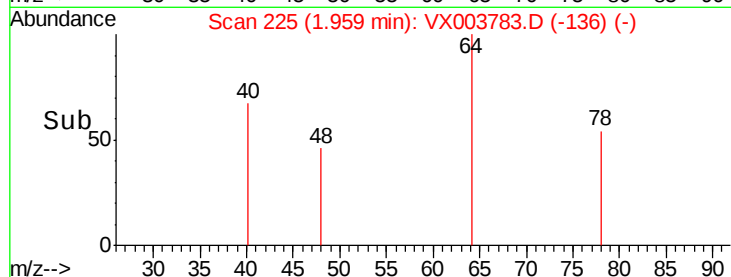
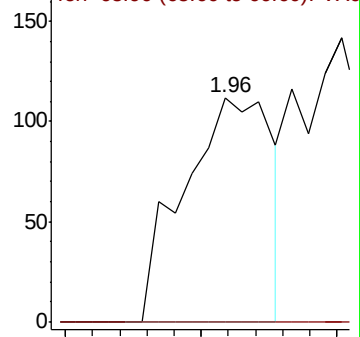
64 100

66 0.0 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 2.10 ug/l

RT: 3.07 min Scan# 407

Delta R.T. -0.01 min

Lab File: VX003783.D

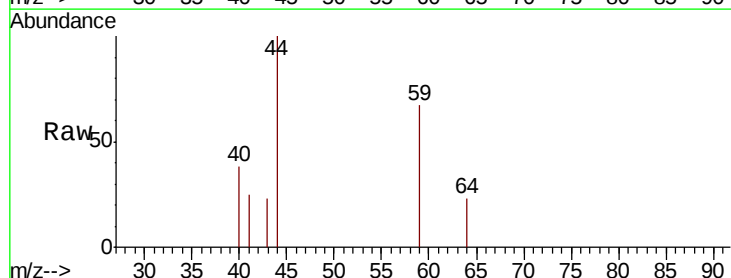
Acq: 01 Aug 2018 06:50

Tgt Ion: 59 Resp: 306

Ion Ratio Lower Upper

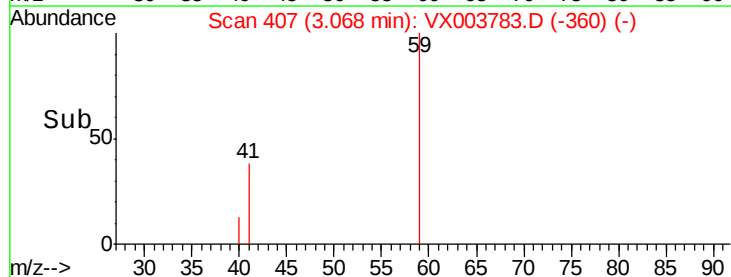
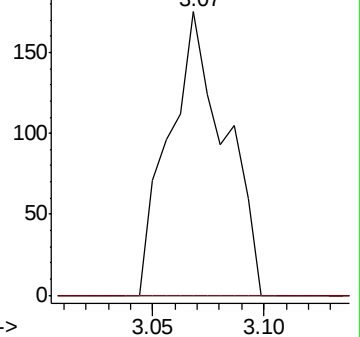
59 100

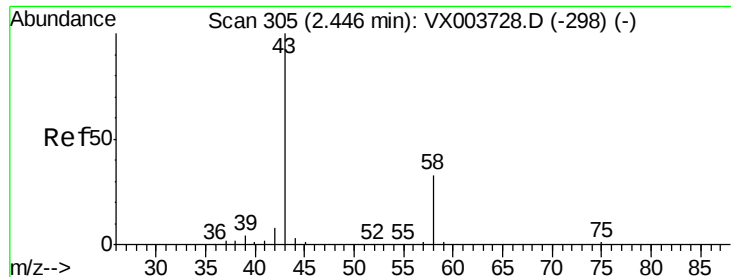
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 30.64 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

Instrument :

MSVOA_X

ClientSampleId :

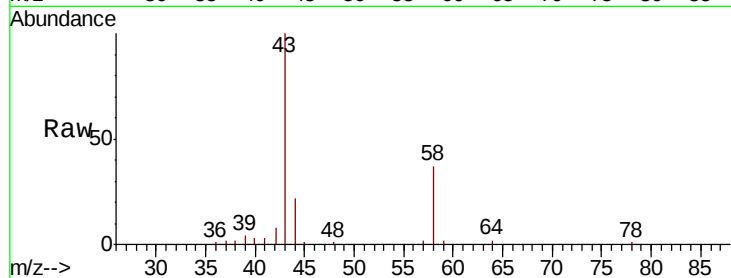
GW-02(8-10)

Tot Ion: 43 Resp: 10537

Ion Ratio Lower Upper

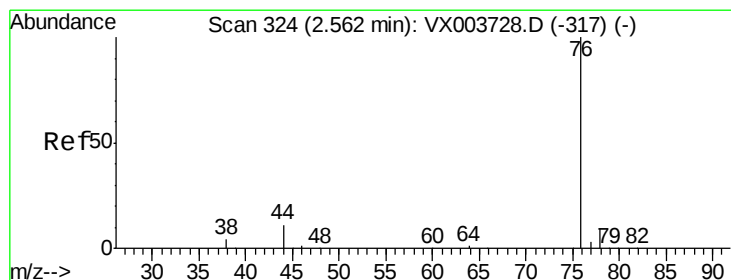
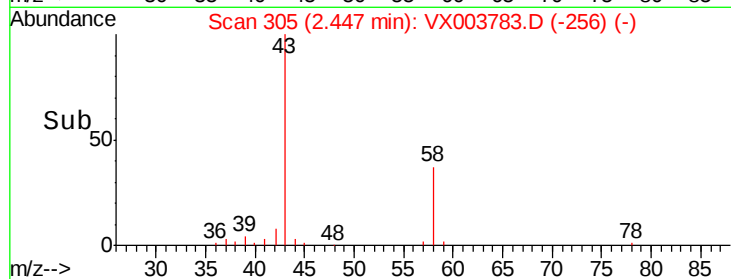
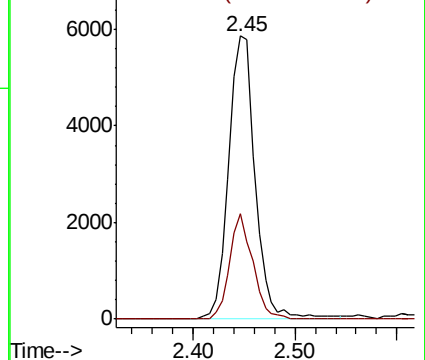
43 100

58 37.0 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.95 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003783.D

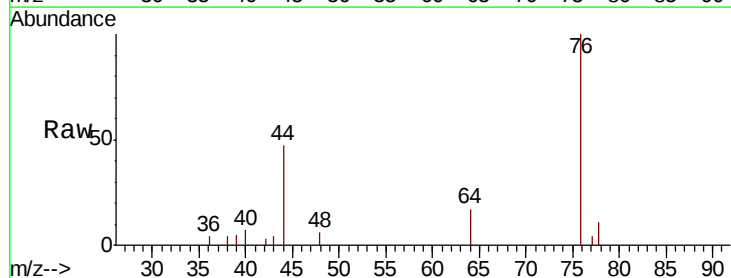
Acq: 01 Aug 2018 06:50

Tgt Ion: 76 Resp: 2460

Ion Ratio Lower Upper

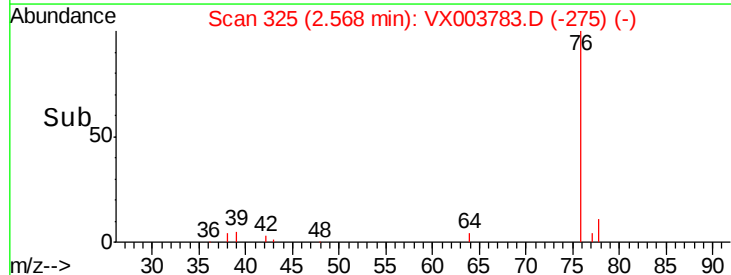
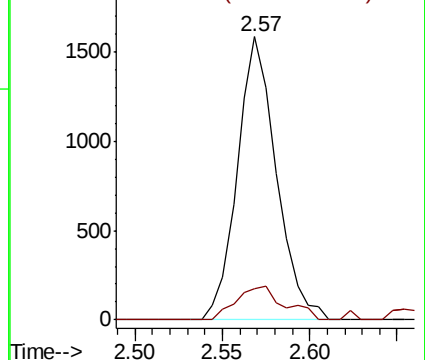
76 100

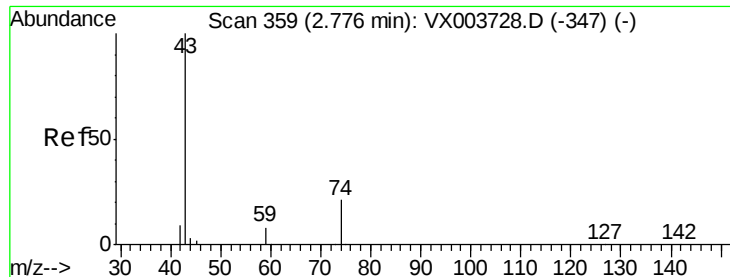
78 10.9 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

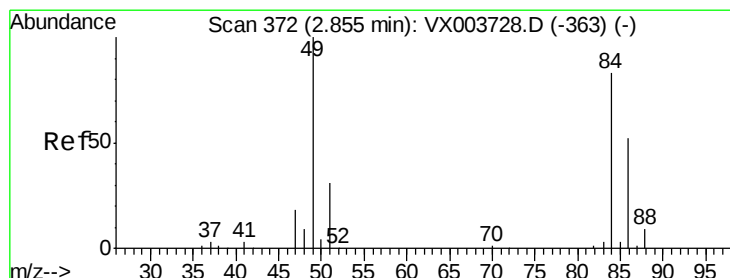
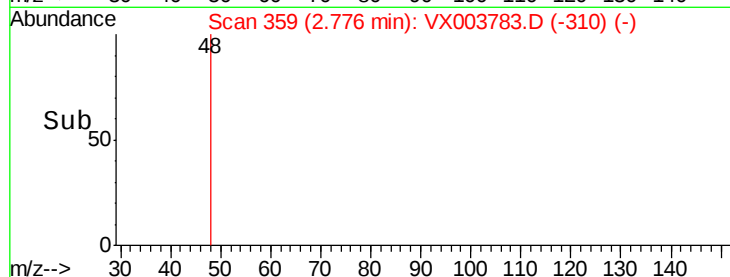
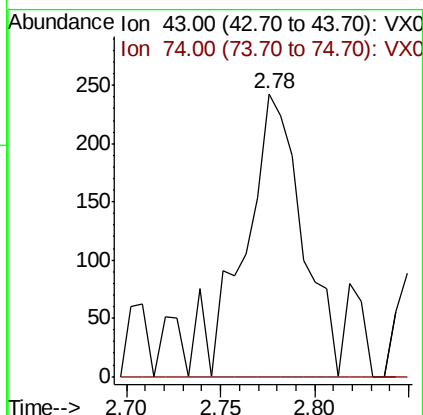
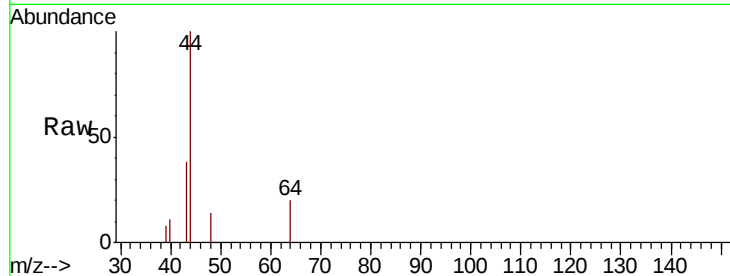




#18
Methyl Acetate
Concen: 0.54 ug/l
RT: 2.78 min Scan# 359
Delta R.T. 0.00 min
Lab File: VX003783.D
Acq: 01 Aug 2018 06:50

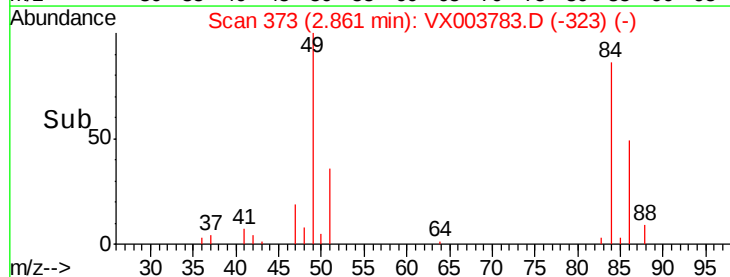
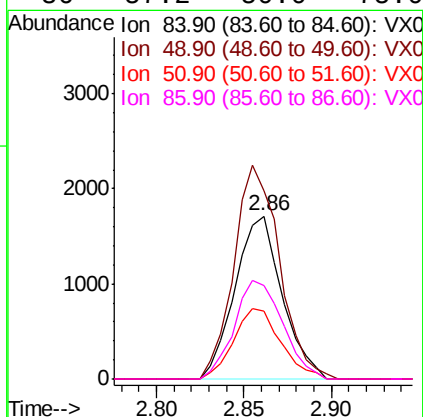
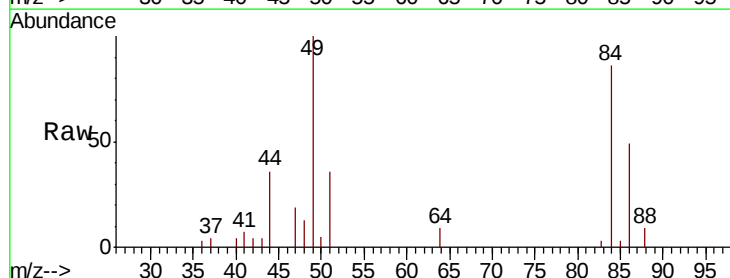
Instrument :
MSVOA_X
ClientSampled :
GW-02(8-10)

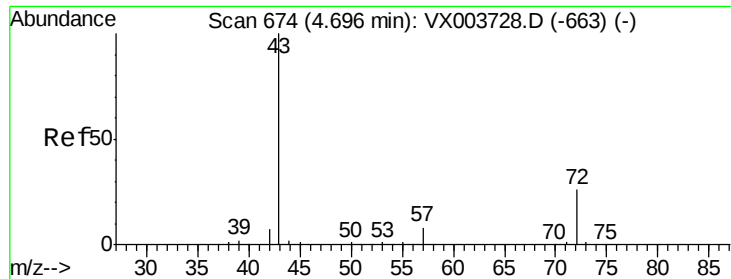
Tot Ion: 43 Resp: 522
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#20
Methylene Chloride
Concen: 0.37 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003783.D
Acq: 01 Aug 2018 06:50

Tgt Ion: 84 Resp: 3198
Ion Ratio Lower Upper
84 100
49 115.7 95.8 143.8
51 42.0 29.6 44.4
86 57.2 50.0 75.0

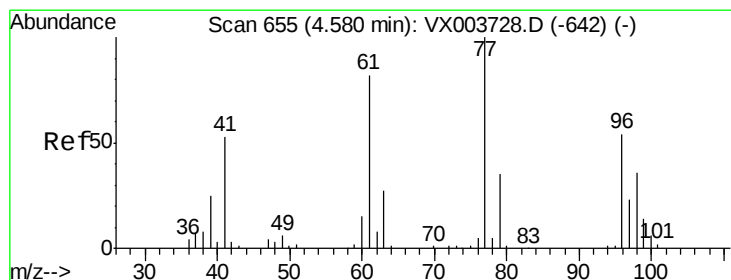
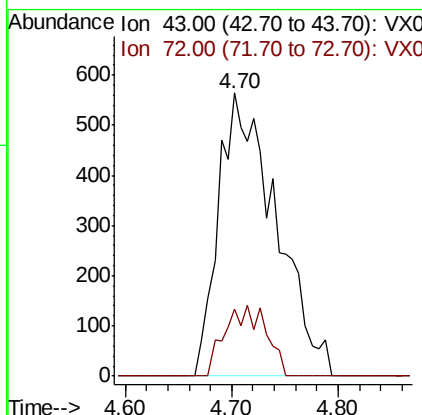
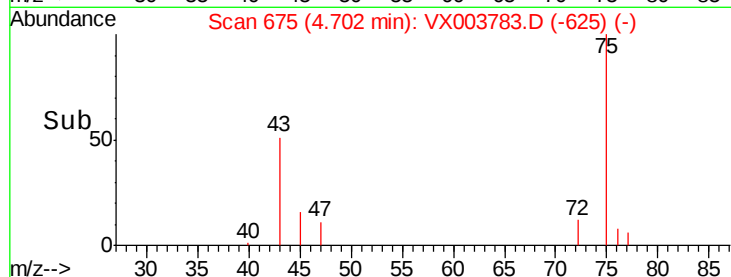
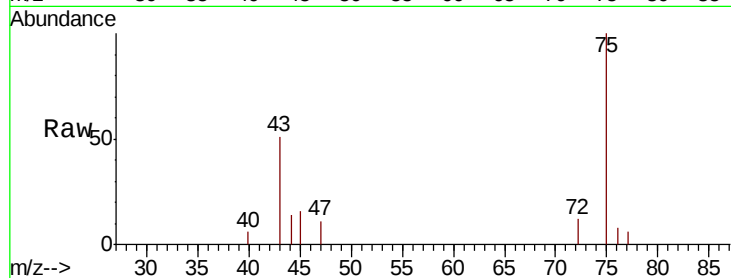




#25
 2-Butanone
 Concen: 4.21 ug/l
 RT: 4.70 min Scan# 675
 Delta R.T. 0.01 min
 Lab File: VX003783.D
 Acq: 01 Aug 2018 06:50

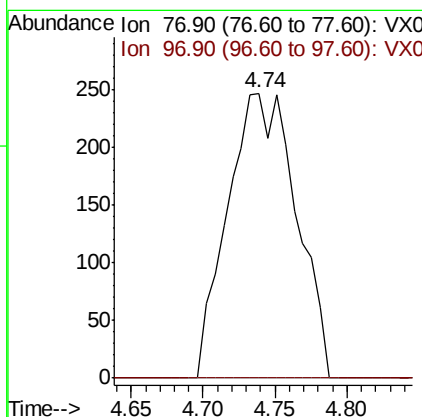
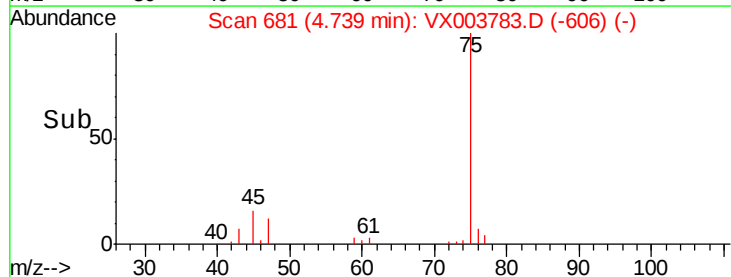
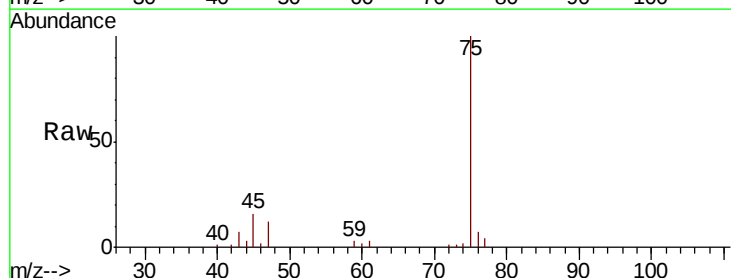
Instrument :
 MSVOA_X
 ClientSampleId :
 GW-02(8-10)

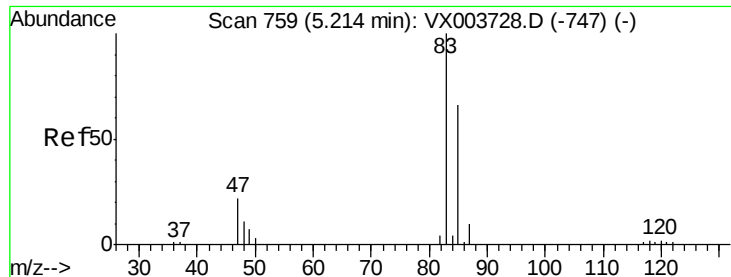
Tot Ion: 43 Resp: 2111
 Ion Ratio Lower Upper
 43 100
 72 23.8 20.9 31.3



#26
 2,2-Dichloropropane
 Concen: 0.70 ug/l
 RT: 4.74 min Scan# 681
 Delta R.T. 0.16 min
 Lab File: VX003783.D
 Acq: 01 Aug 2018 06:50

Tgt Ion: 77 Resp: 817
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.2 36.6#

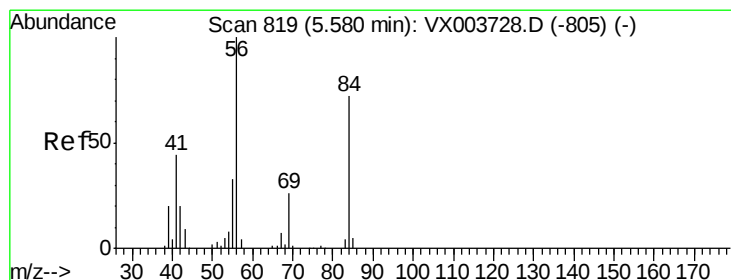
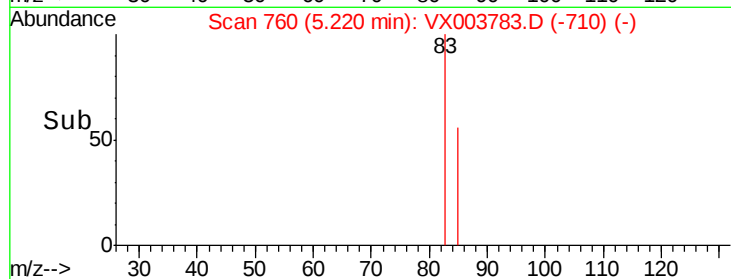
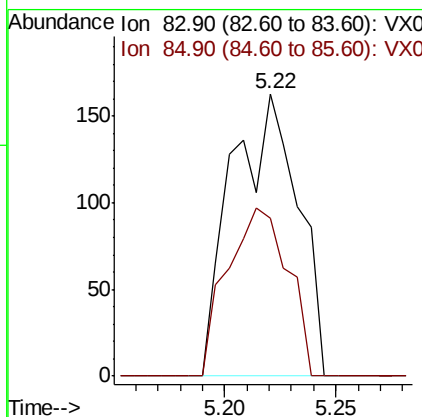
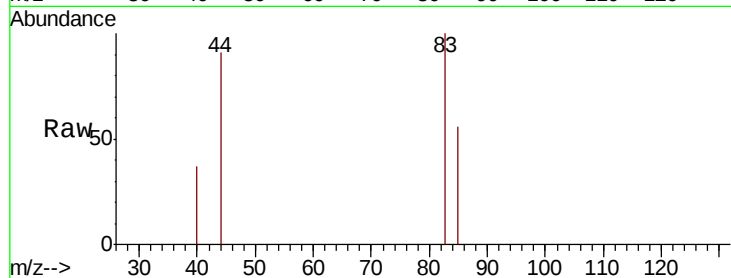




#30
Chloroform
Concen: 0.23 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX003783.D
Acq: 01 Aug 2018 06:50

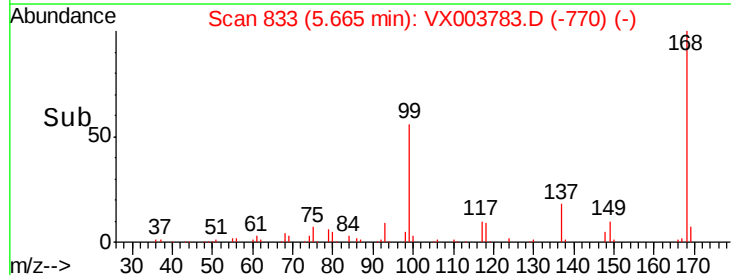
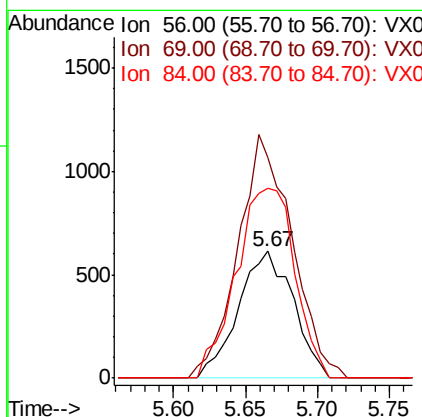
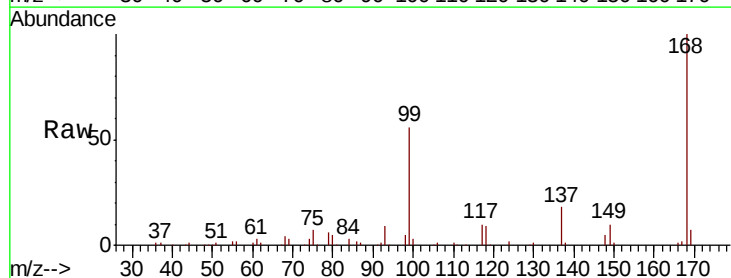
Instrument :
MSVOA_X
ClientSampleId :
GW-02(8-10)

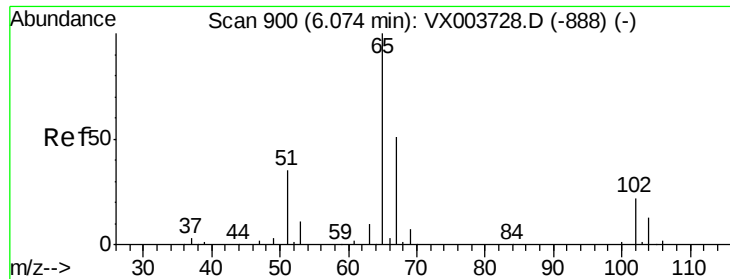
Tot Ion: 83 Resp: 335
Ion Ratio Lower Upper
83 100
85 55.8 52.8 79.2



#31
Cyclohexane
Concen: 1.13 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX003783.D
Acq: 01 Aug 2018 06:50

Tgt Ion: 56 Resp: 1623
Ion Ratio Lower Upper
56 100
69 173.7 20.6 30.8#
84 149.1 57.9 86.9#

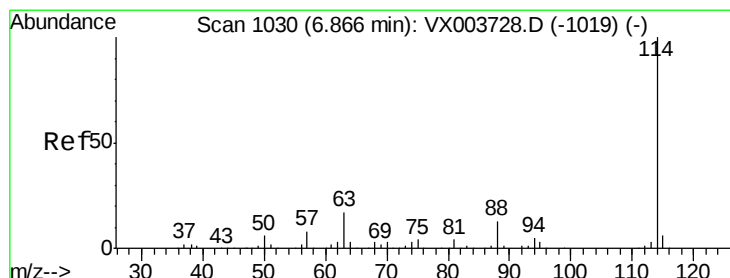
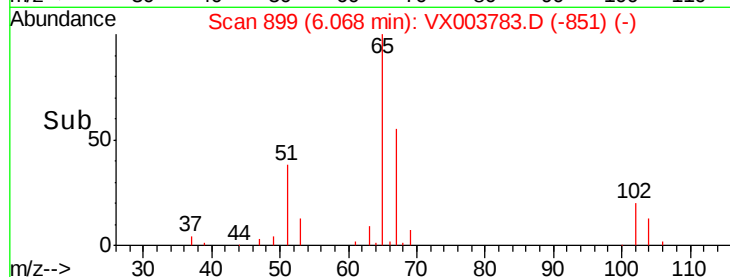
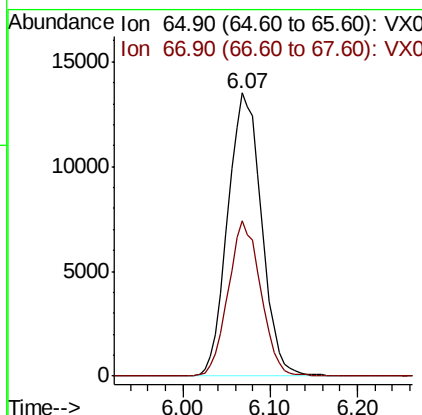
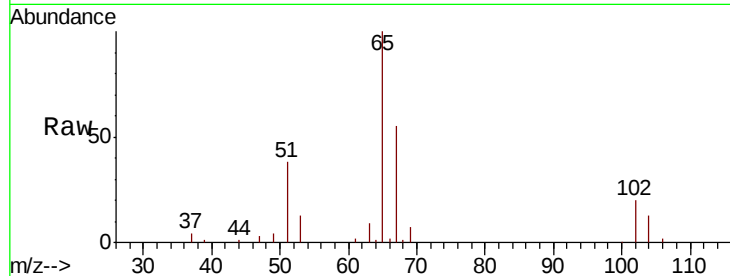




#33
 1,2-Dichloroethane-d4
 Concen: 40.33 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VX003783.D
 Acq: 01 Aug 2018 06:50

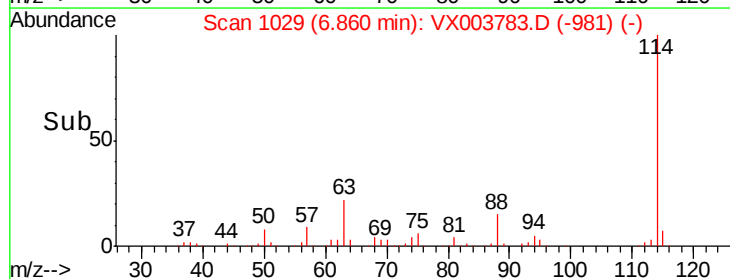
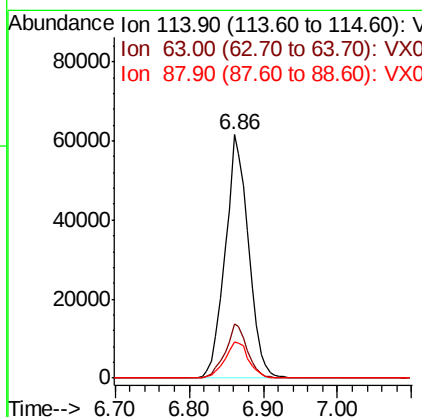
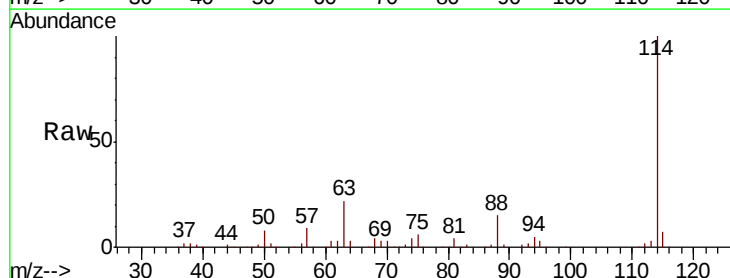
Instrument :
 MSVOA_X
 ClientSampleId :
 GW-02(8-10)

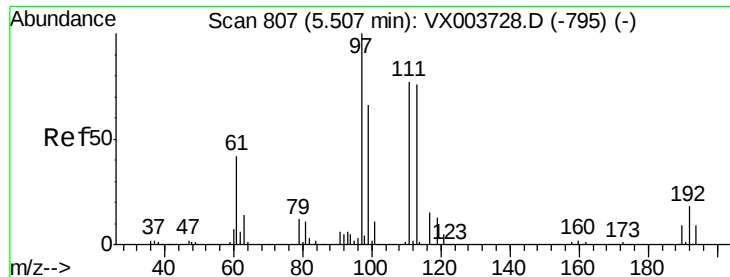
Tot Ion: 65 Resp: 36315
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX003783.D
 Acq: 01 Aug 2018 06:50

Tgt Ion: 114 Resp: 134168
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 34.0
 88 15.1 0.0 26.4





#35

Dibromofluoromethane

Concen: 45.81 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

Instrument :

MSVOA_X

ClientSampleId :

GW-02(8-10)

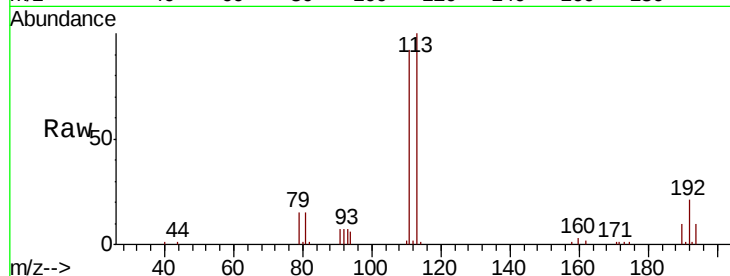
Tot Ion:113 Resp: 36190

Ion Ratio Lower Upper

113 100

111 100.2 81.8 122.6

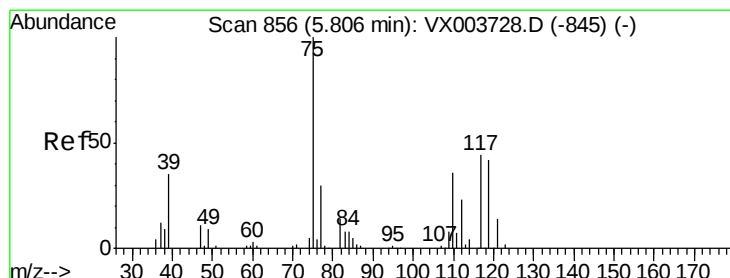
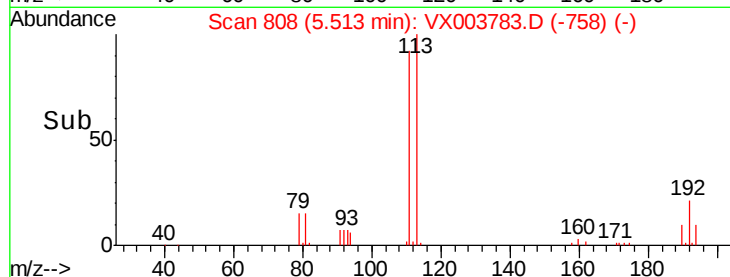
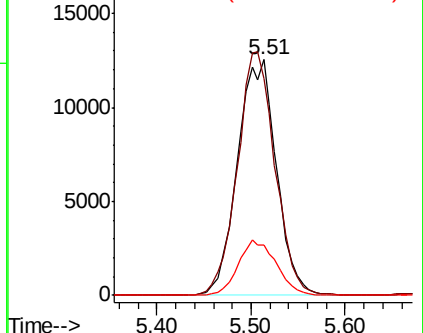
192 22.6 18.8 28.2



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: 5.06 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

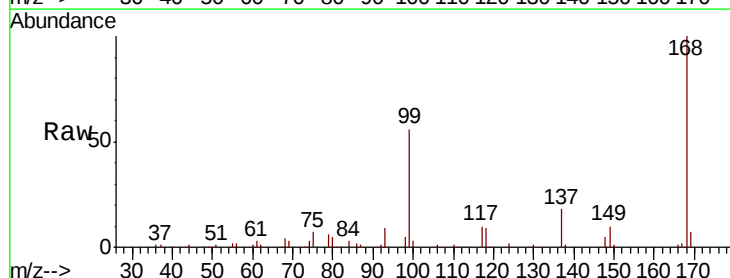
Tgt Ion: 75 Resp: 6353

Ion Ratio Lower Upper

75 100

110 8.6 18.3 54.8#

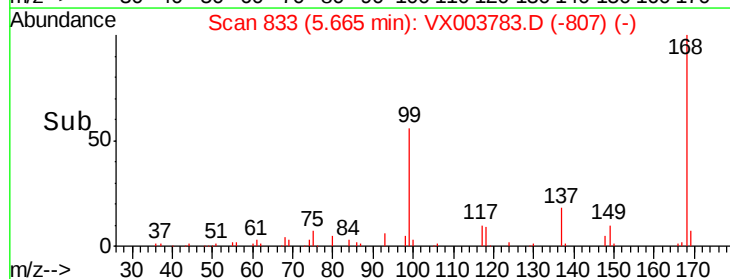
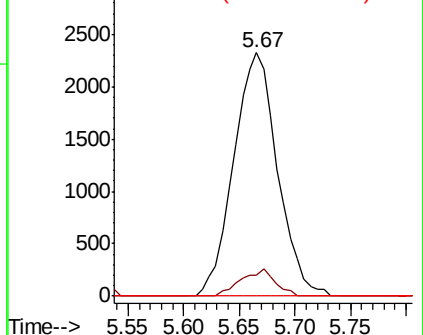
77 0.0 25.1 37.7#

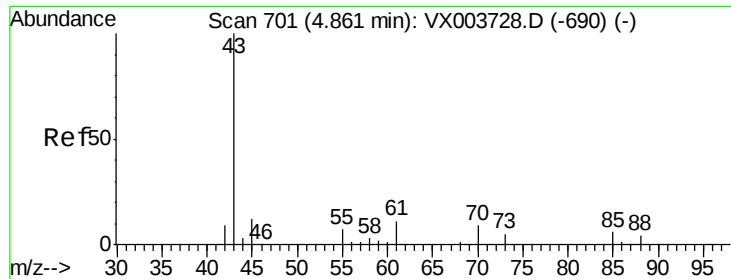


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 2.19 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.16 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

Instrument :

MSVOA_X

ClientSampleId :

GW-02(8-10)

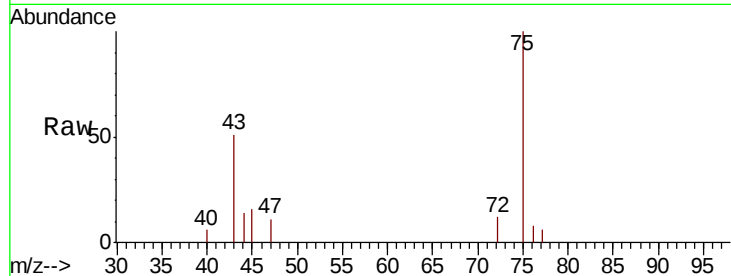
Tot Ion: 43 Resp: 2111

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

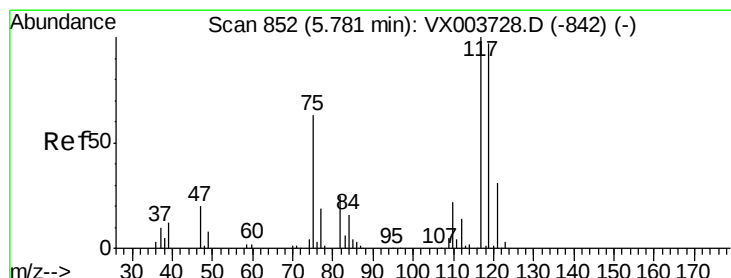
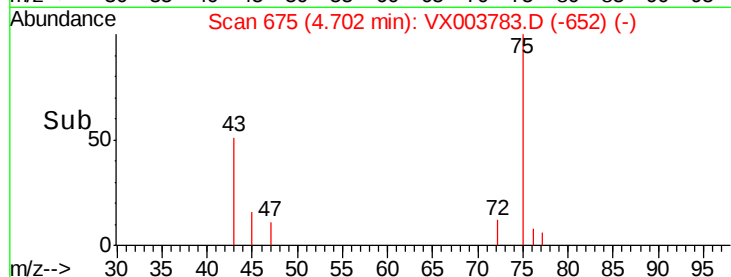
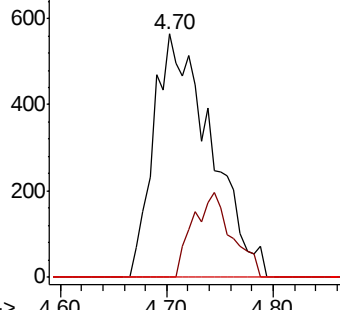
70 0.0 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 7.15 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

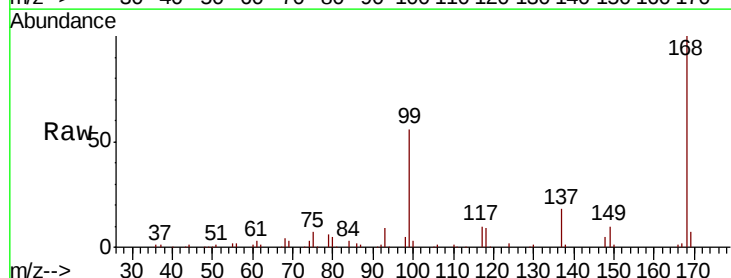
Tgt Ion: 117 Resp: 8308

Ion Ratio Lower Upper

117 100

119 5.0 77.2 115.8#

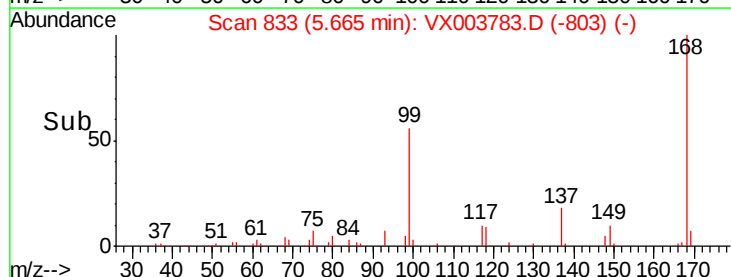
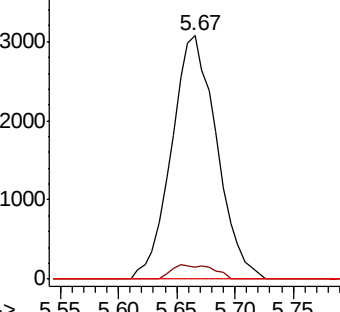
121 0.0 25.0 37.4#

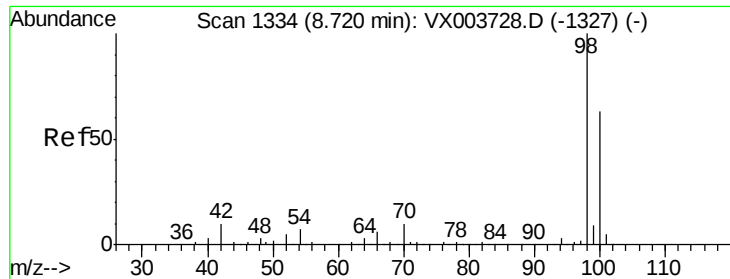


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 39.82 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

Instrument :

MSVOA_X

ClientSampleId :

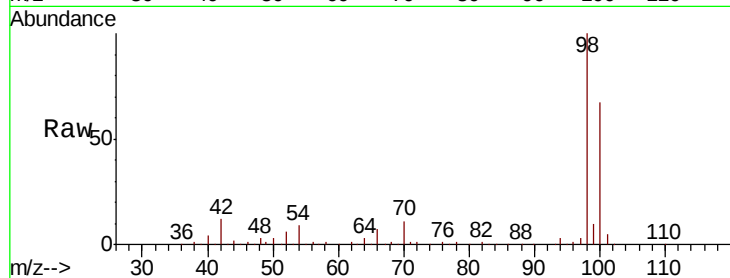
GW-02(8-10)

Tot Ion: 98 Resp: 131155

Ion Ratio Lower Upper

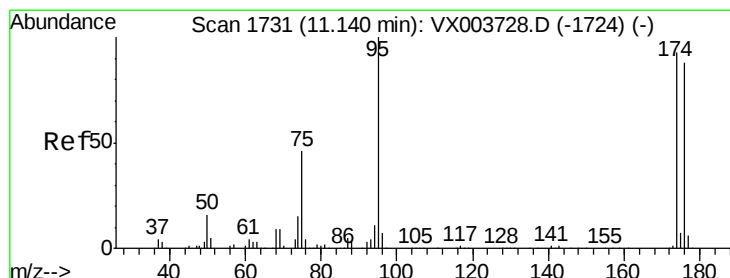
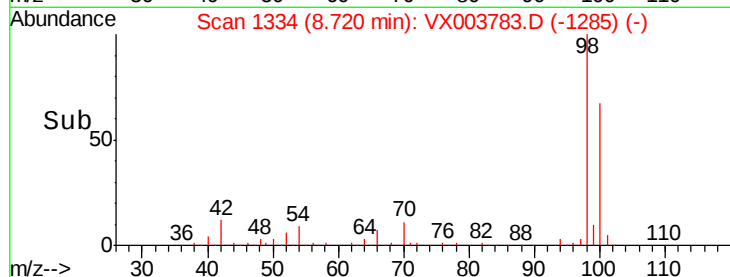
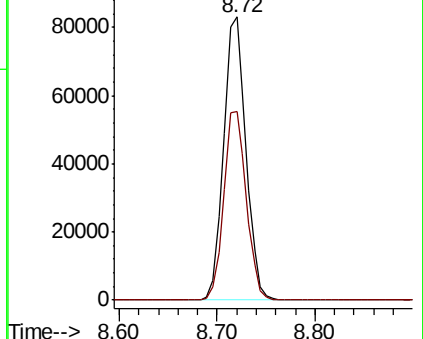
98 100

100 67.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V>



#62

4-Bromofluorobenzene

Concen: 33.85 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

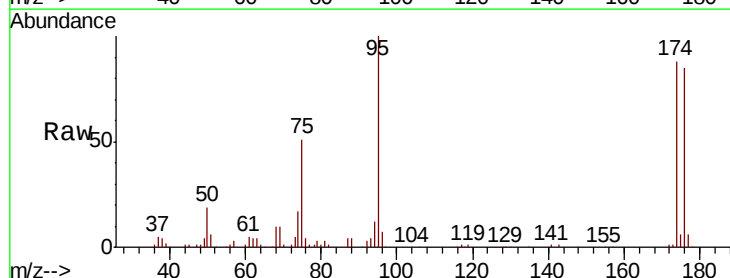
Tgt Ion: 95 Resp: 41114

Ion Ratio Lower Upper

95 100

174 90.0 0.0 186.2

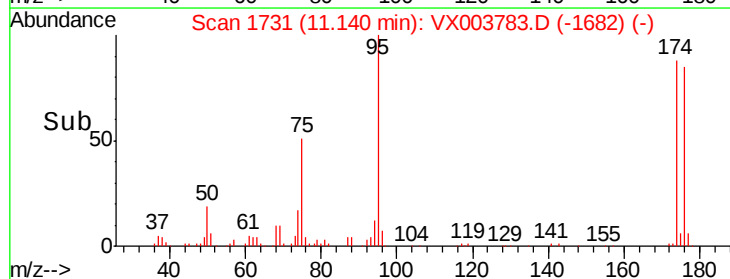
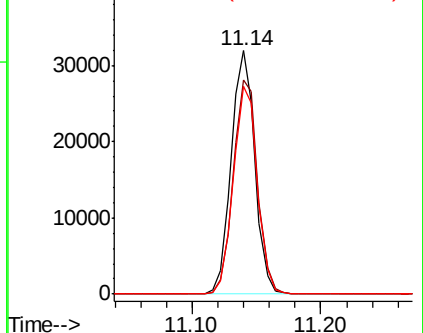
176 86.1 0.0 179.2

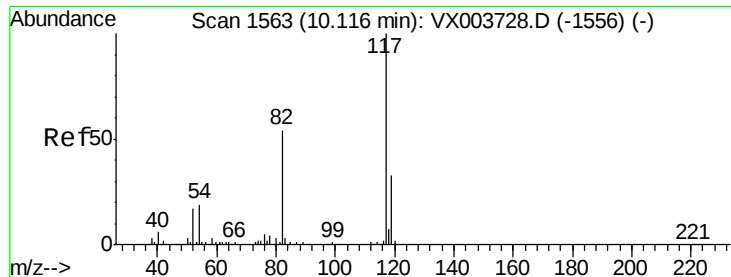


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

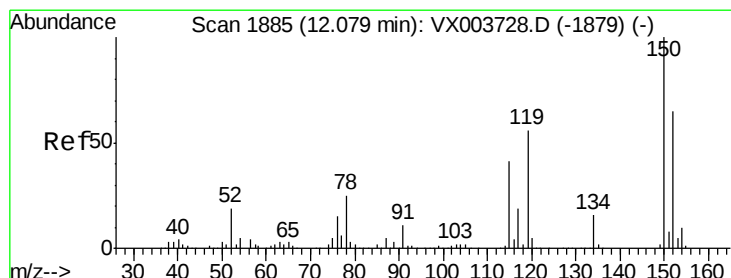
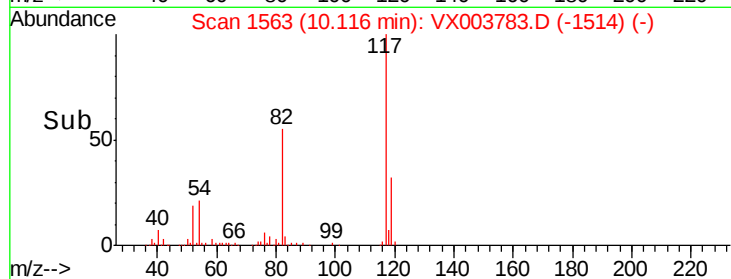
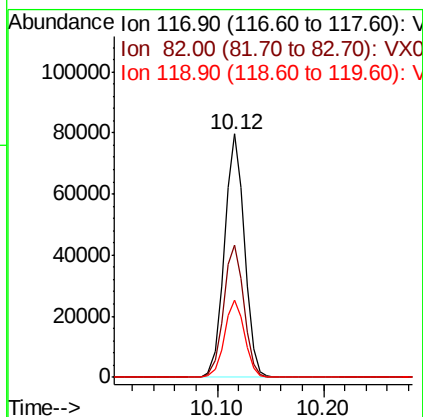
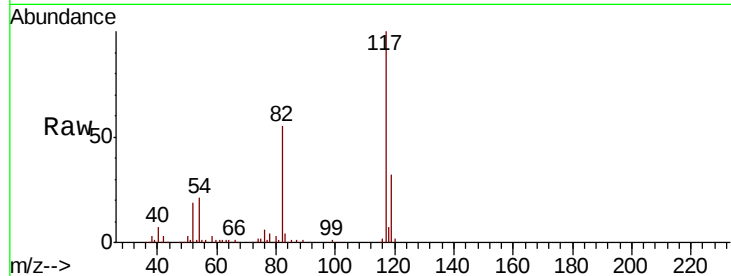




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003783.D
Acq: 01 Aug 2018 06:50

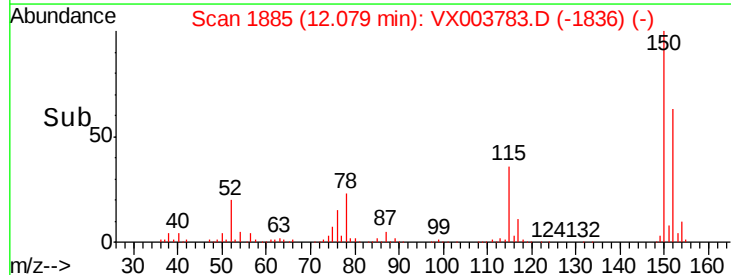
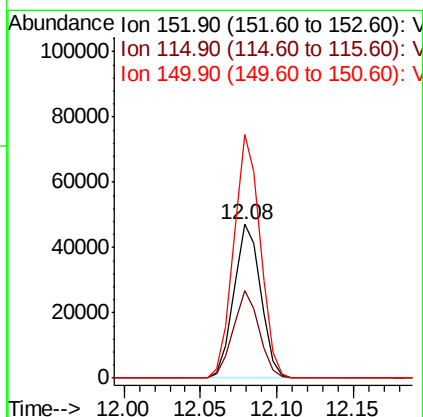
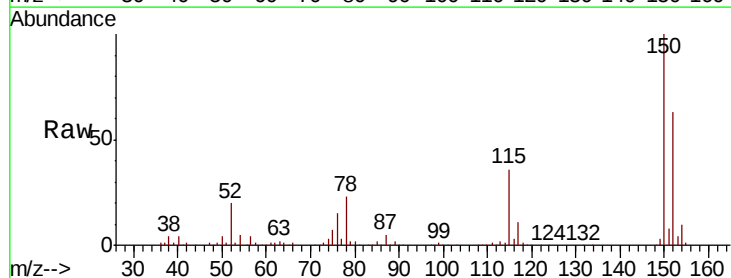
Instrument :
MSVOA_X
ClientSampled :
GW-02(8-10)

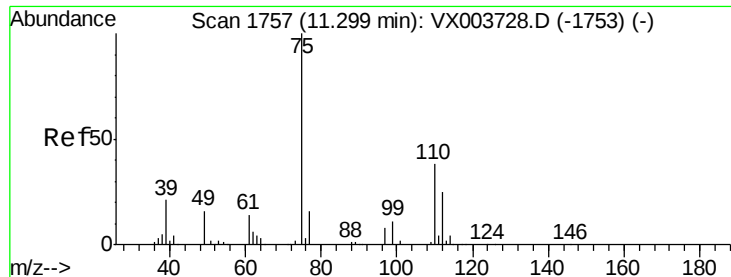
Tot Ion:117 Resp: 104879
Ion Ratio Lower Upper
117 100
82 54.5 43.2 64.8
119 31.9 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003783.D
Acq: 01 Aug 2018 06:50

Tgt Ion:152 Resp: 57290
Ion Ratio Lower Upper
152 100
115 55.0 38.5 115.3
150 156.3 0.0 346.2





#76

1,2,3-Trichloropropane

Concen: 26.22 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

Instrument :

MSVOA_X

ClientSampleId :

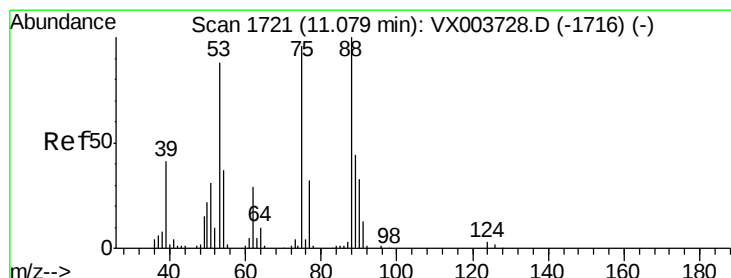
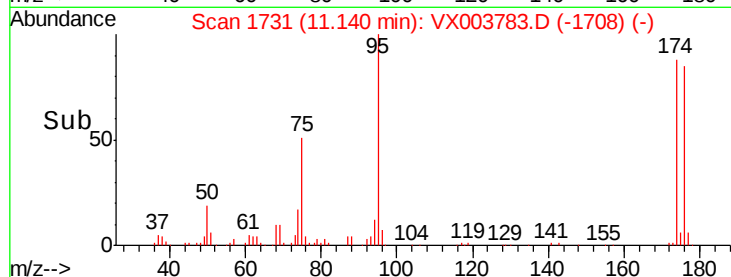
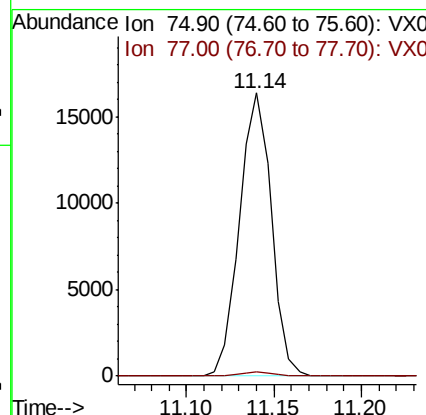
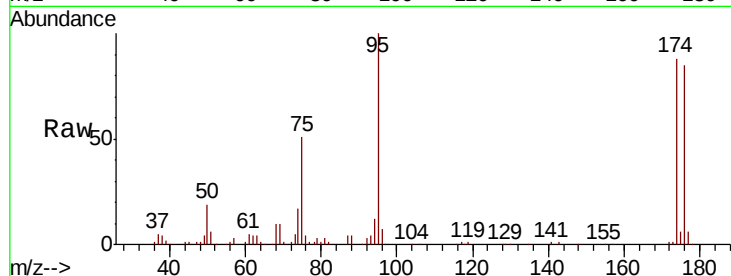
GW-02(8-10)

Tot Ion: 75 Resp: 20708

Ion Ratio Lower Upper

75 100

77 1.4 21.6 65.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003783.D

Acq: 01 Aug 2018 06:50

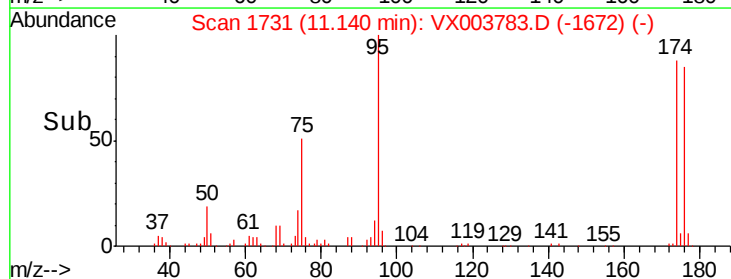
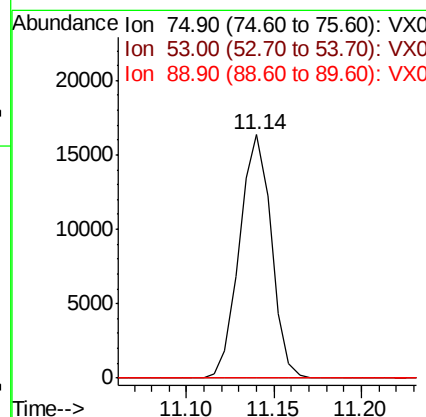
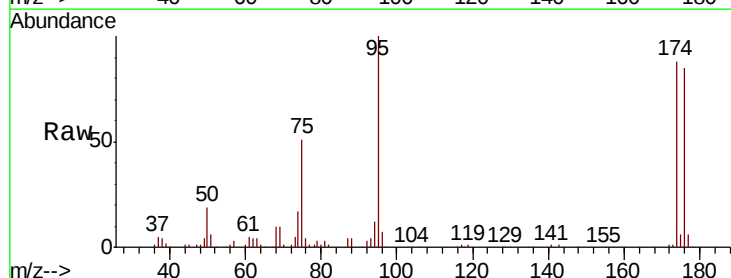
Tgt Ion: 75 Resp: 20708

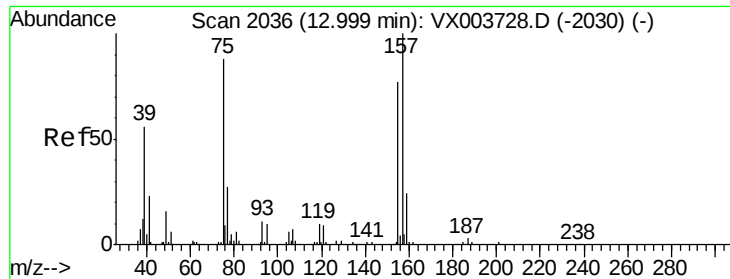
Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

89 0.0 39.1 58.7#

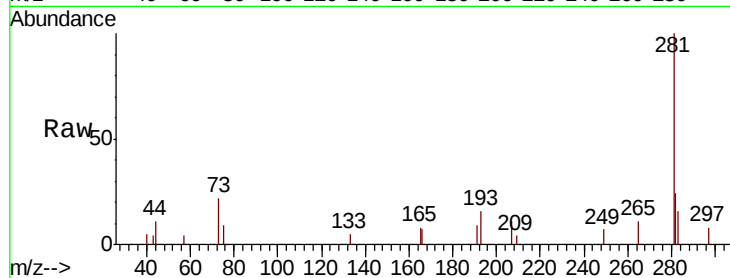




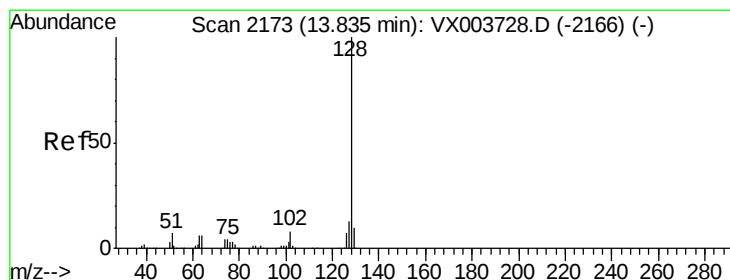
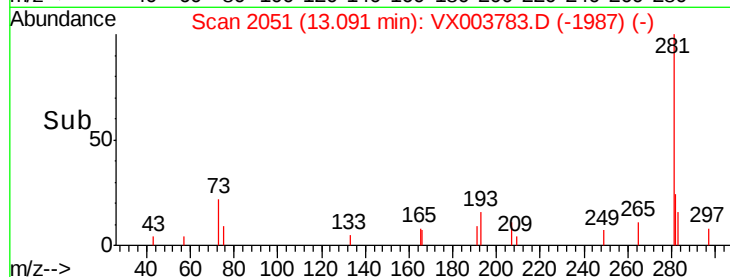
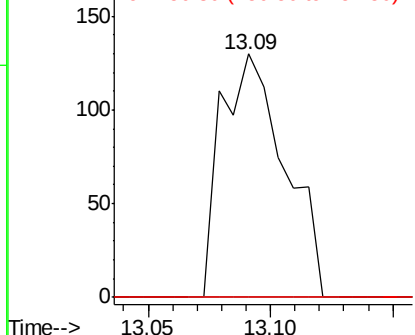
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.26 ug/l
 RT: 13.09 min Scan# 2051
 Delta R.T. 0.09 min
 Lab File: VX003783.D
 Acq: 01 Aug 2018 06:50

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-02(8-10)

Tot Ion: 75 Resp: 234
 Ion Ratio Lower Upper
 75 100
 155 0.0 48.9 146.7#
 157 0.0 63.7 191.1#

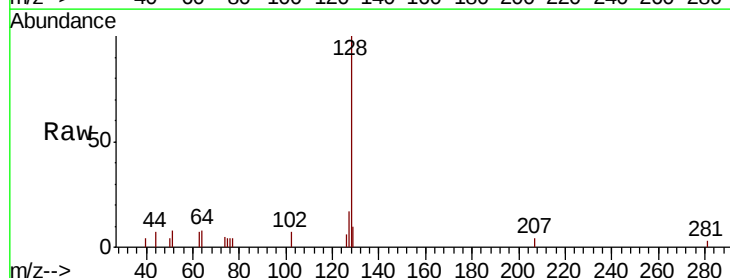


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V



#95
 Naphthalene
 Concen: 0.97 ug/l
 RT: 13.83 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: VX003783.D
 Acq: 01 Aug 2018 06:50

Tgt Ion: 128 Resp: 2895
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.2 15.2
 129 11.7 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

