

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004106.D
 Acq On : 16 Aug 2018 07:07
 Operator : JC/MD
 Sample : J4495-02DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW504-180814DL

Quant Time: Aug 16 08:32:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	242098	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	388751	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	374863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	206802	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	186898	54.79	ug/l	0.00
Spiked Amount			Recovery	=	109.58%	
35) Dibromofluoromethane	5.50	113	154515	53.11	ug/l	0.00
Spiked Amount			Recovery	=	106.22%	
50) Toluene-d8	8.71	98	555861	47.12	ug/l	0.00
Spiked Amount			Recovery	=	94.24%	
62) 4-Bromofluorobenzene	11.14	95	193658	45.26	ug/l	0.00
Spiked Amount			Recovery	=	90.52%	

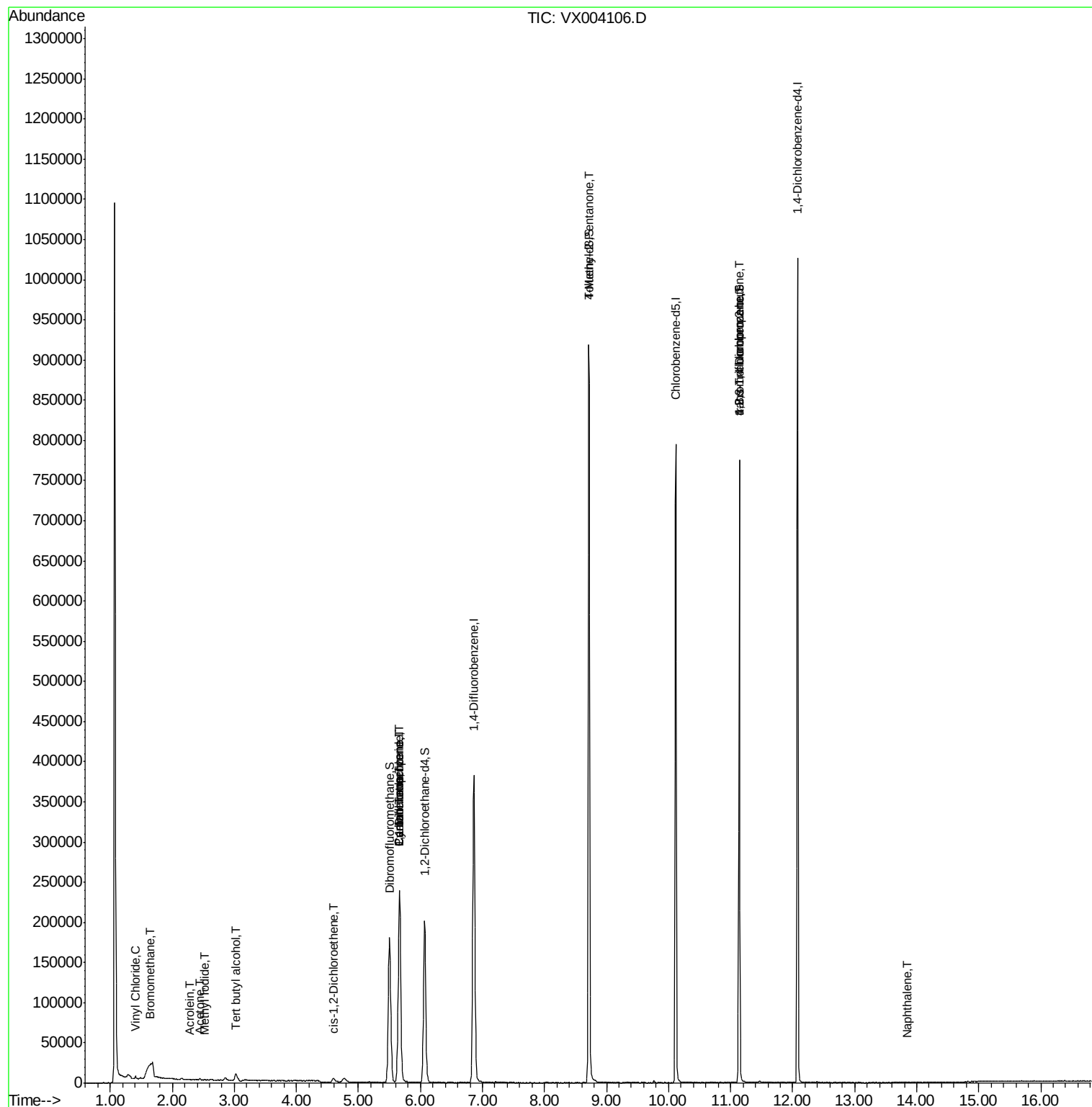
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	2211	0.71	ug/l	95
5) Bromomethane	1.64	94	1098	0.52	ug/l	# 68
6) Chloroethane	1.70	64	753	Below Cal	#	51
10) Methyl Iodide	2.52	142	398	5.13	ug/l	# 82
11) Tert butyl alcohol	3.03	59	7267	10.58	ug/l	# 75
13) Acrolein	2.29	56	46	11.04	ug/l	# 15
16) Acetone	2.45	43	1518	0.86	ug/l	95
20) Methylene Chloride	2.85	84	1433	Below Cal	#	82
27) cis-1,2-Dichloroethene	4.60	96	2737	0.84	ug/l	# 1
31) Cyclohexane	5.65	56	4534	0.96	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	17119	3.87	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	22011	5.12	ug/l	# 15
51) 4-Methyl-2-Pentanone	8.72	43	2244	0.39	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	94244	22.72	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	94244	70.34	ug/l	# 9
95) Naphthalene	13.83	128	289	1.16	ug/l	# 69

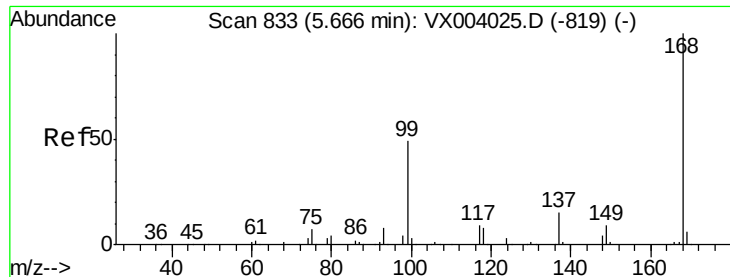
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
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QLast Update : Tue Aug 14 13:27:25 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX004106.D

Acq: 16 Aug 2018 07:07

Instrument :

MSVOA_X

ClientSampleId :

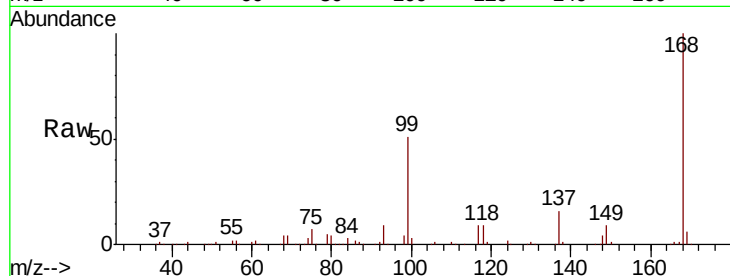
SS050MW504-180814DL

Tot Ion:168 Resp: 242098

Ion Ratio Lower Upper

168 100

99 51.3 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

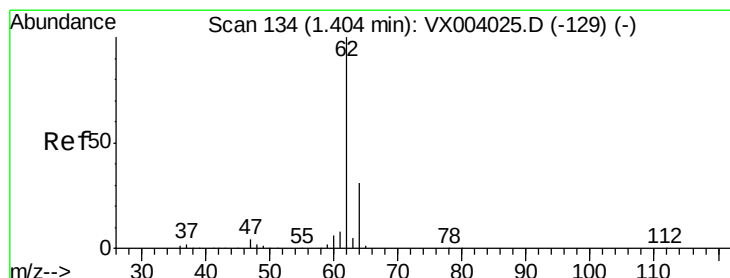
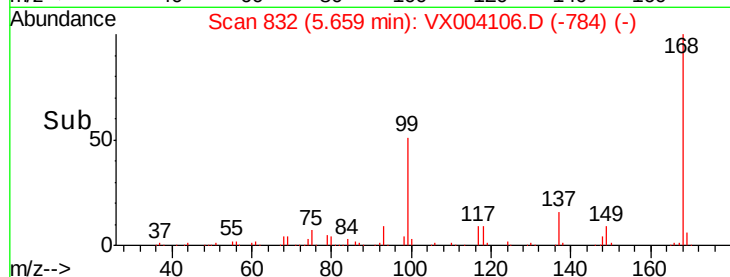
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.71 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX004106.D

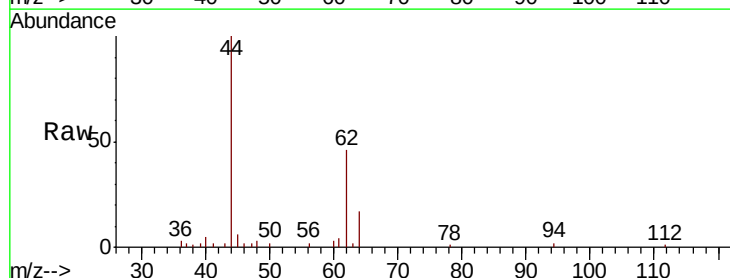
Acq: 16 Aug 2018 07:07

Tgt Ion: 62 Resp: 2211

Ion Ratio Lower Upper

62 100

64 29.7 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

2000

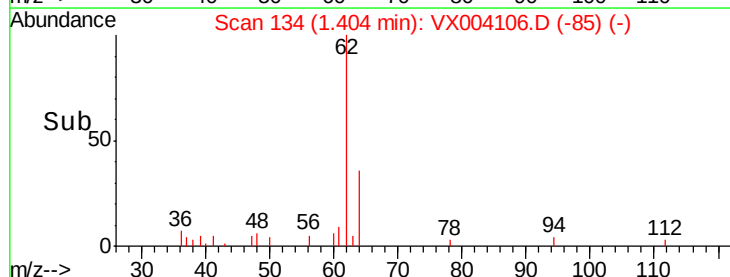
1500

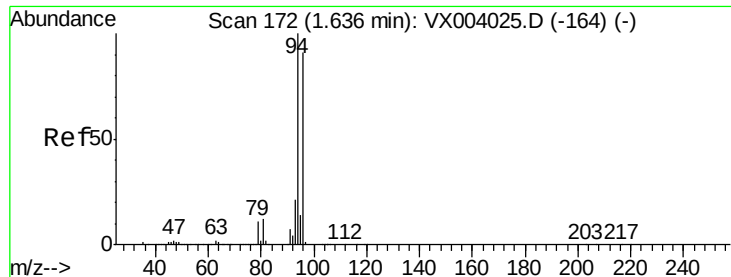
1000

500

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 0.52 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX004106.D

Acq: 16 Aug 2018 07:07

Instrument :

MSVOA_X

ClientSampleId :

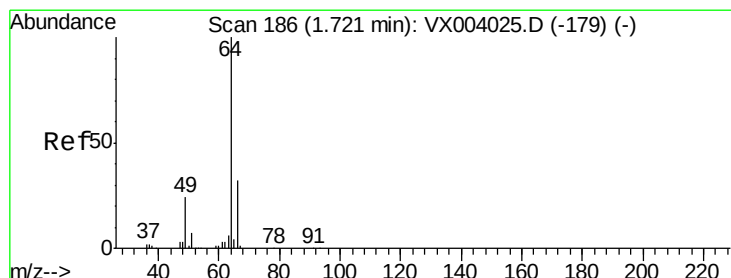
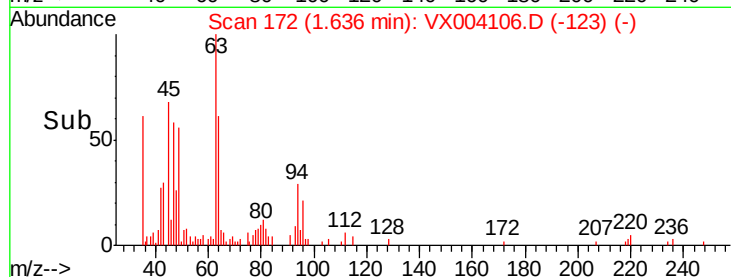
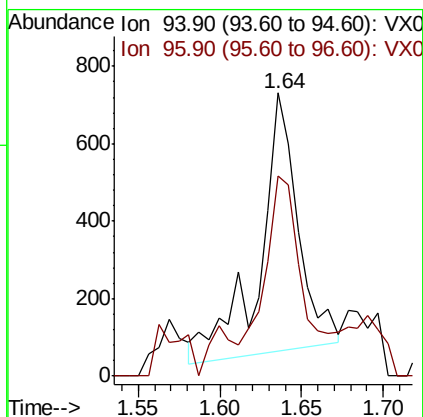
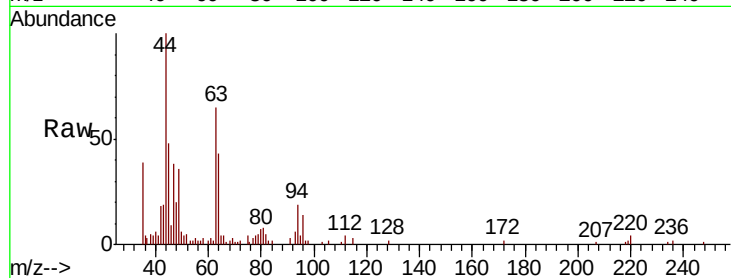
SS050MW504-180814DL

Tot Ion: 94 Resp: 1098

Ion Ratio Lower Upper

94 100

96 63.6 75.2 112.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX004106.D

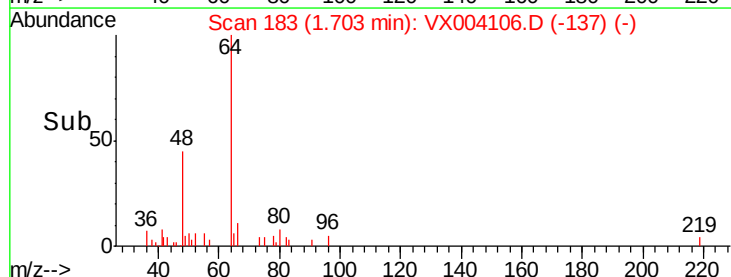
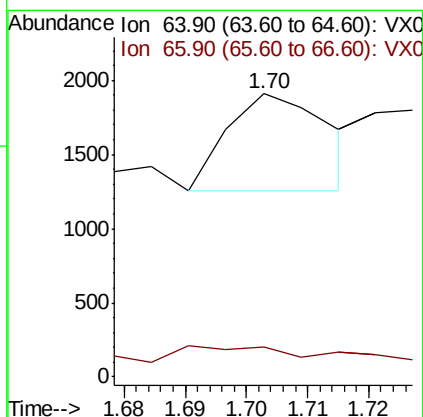
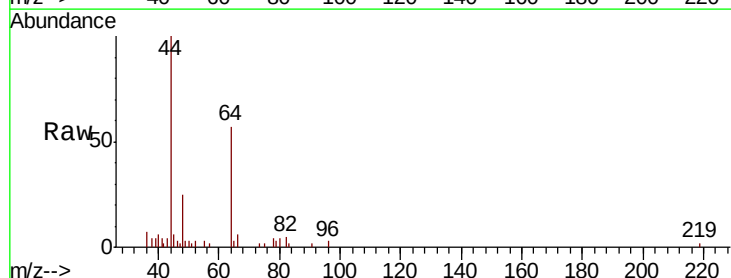
Acq: 16 Aug 2018 07:07

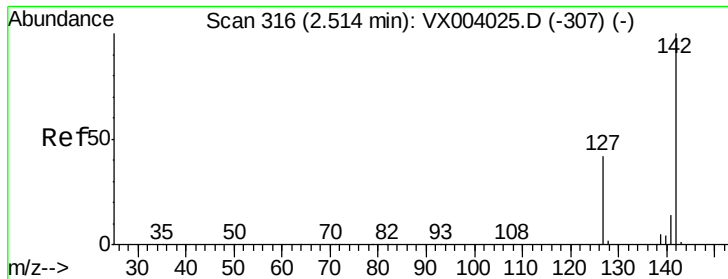
Tgt Ion: 64 Resp: 753

Ion Ratio Lower Upper

64 100

66 5.5 26.5 39.7#

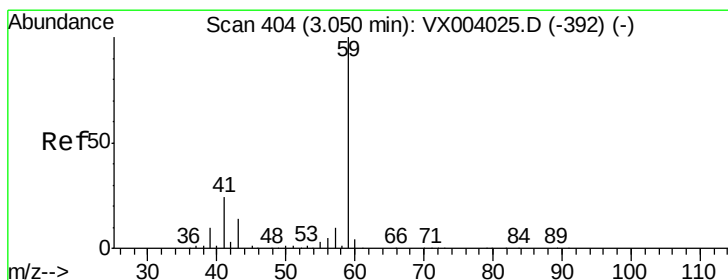
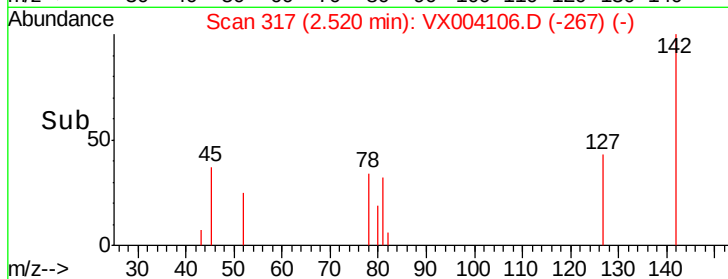
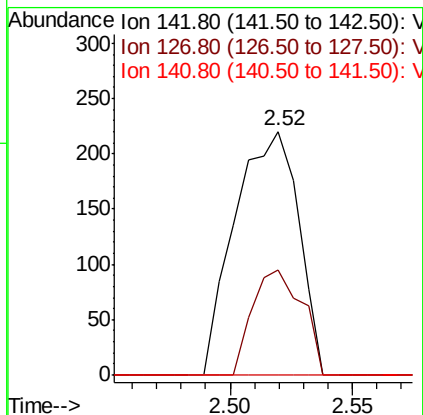
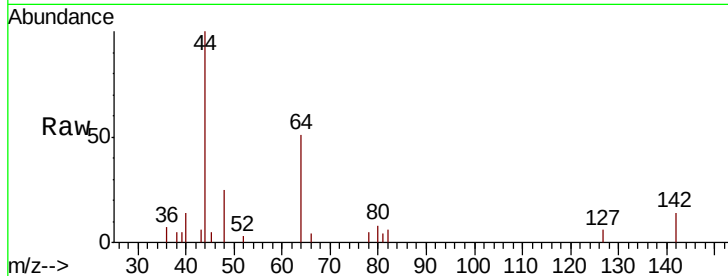




#10
Methvl Iodide
Concen: 5.13 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004106.D
Acq: 16 Aug 2018 07:07

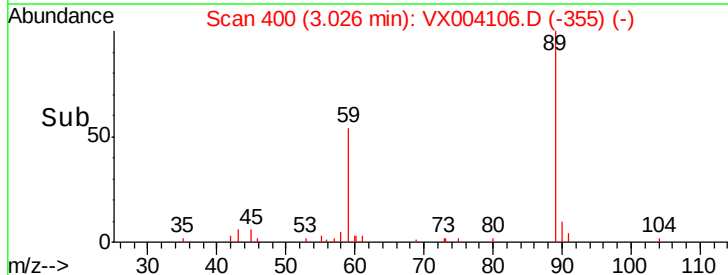
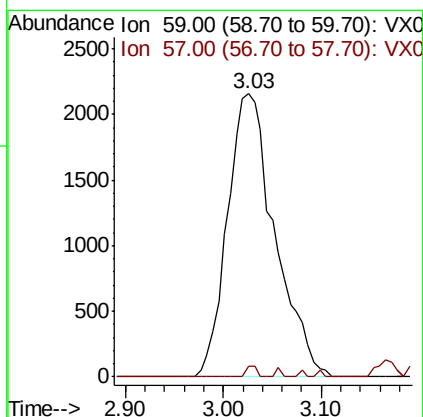
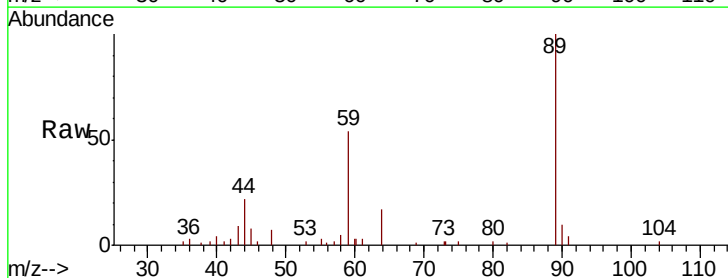
Instrument :
MSVOA_X
ClientSampleId :
SS050MW504-180814DL

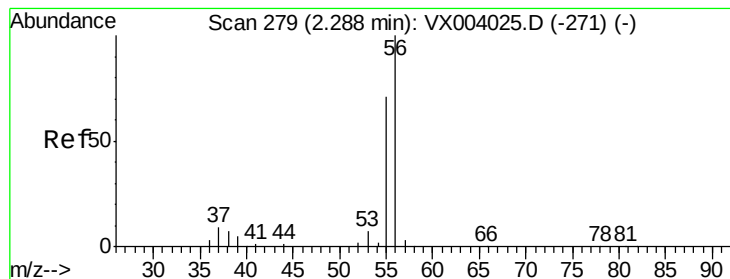
Tot Ion:142 Resp: 398
Ion Ratio Lower Upper
142 100
127 33.7 33.1 49.7
141 0.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 10.58 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.02 min
Lab File: VX004106.D
Acq: 16 Aug 2018 07:07

Tgt Ion: 59 Resp: 7267
Ion Ratio Lower Upper
59 100
57 0.8 8.1 12.1#





#13

Acrolein

Concen: 11.04 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004106.D

Acq: 16 Aug 2018 07:07

Instrument :

MSVOA_X

ClientSampleId :

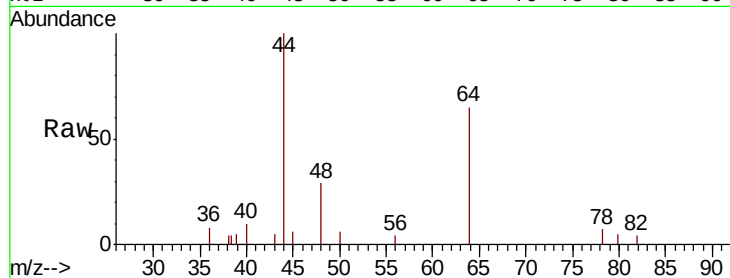
SS050MW504-180814DL

Tot Ion: 56 Resp: 46

Ion Ratio Lower Upper

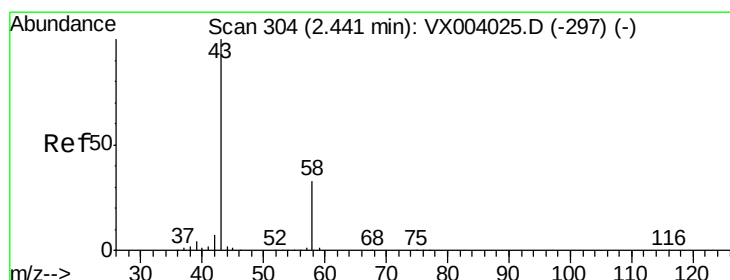
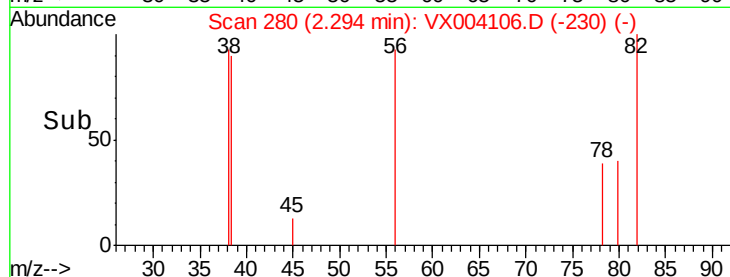
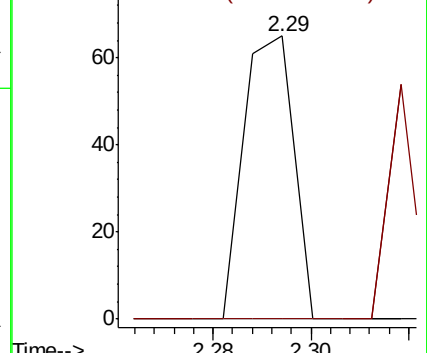
56 100

55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.86 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.01 min

Lab File: VX004106.D

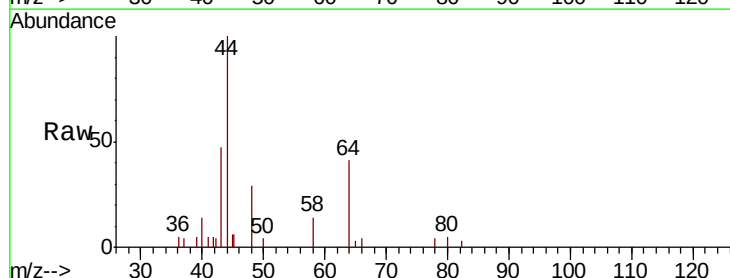
Acq: 16 Aug 2018 07:07

Tgt Ion: 43 Resp: 1518

Ion Ratio Lower Upper

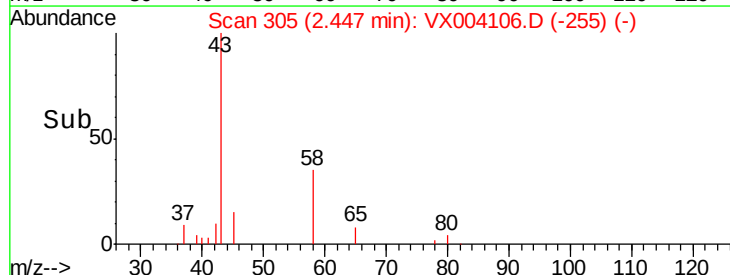
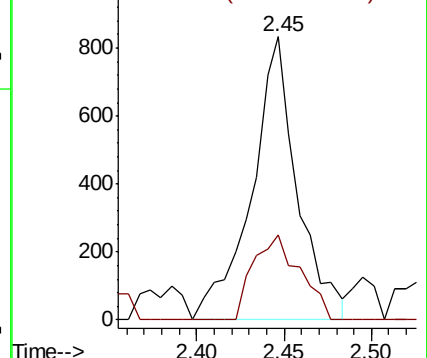
43 100

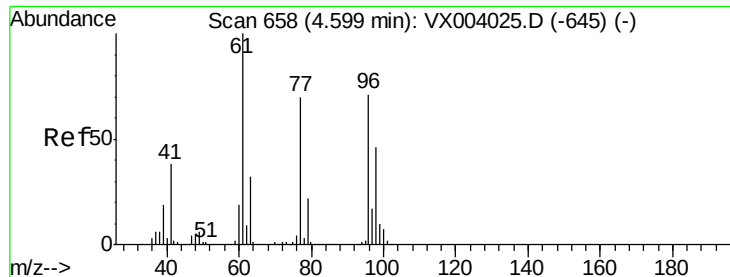
58 30.1 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.84 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004106.D

Acq: 16 Aug 2018 07:07

Instrument :

MSVOA_X

ClientSampleId :

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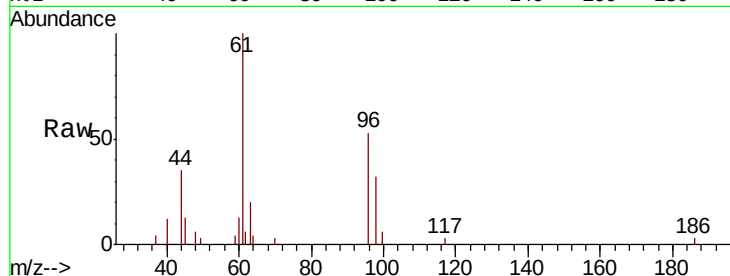
Tot Ion: 96 Resp: 2737

Ion Ratio Lower Upper

96 100

61 340.6 0.0 293.0#

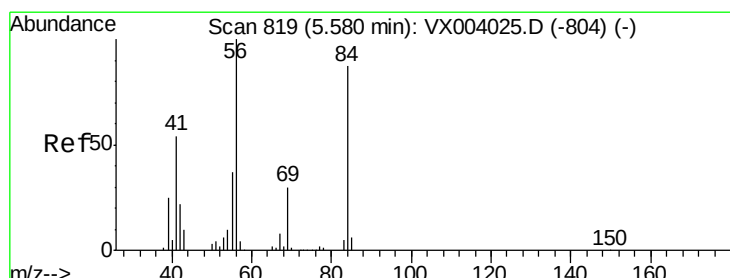
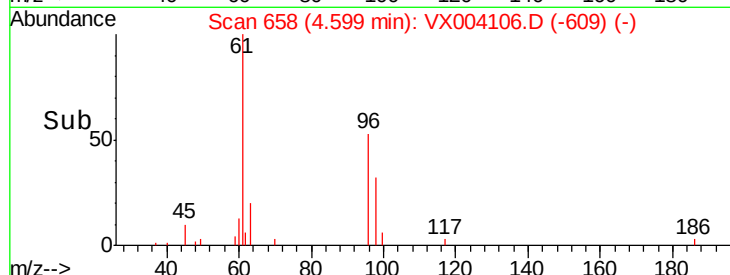
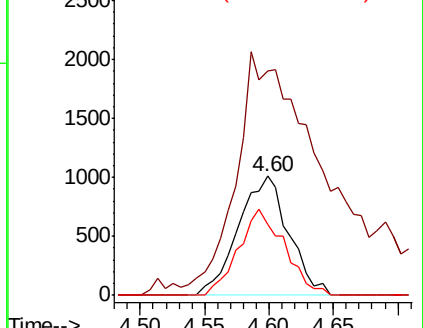
98 66.2 0.0 131.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane

Concen: 0.96 ug/l

RT: 5.65 min Scan# 831

Delta R.T. 0.07 min

Lab File: VX004106.D

Acq: 16 Aug 2018 07:07

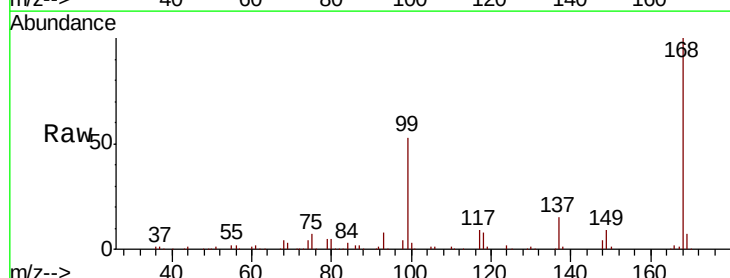
Tgt Ion: 56 Resp: 4534

Ion Ratio Lower Upper

56 100

69 164.5 24.9 37.3#

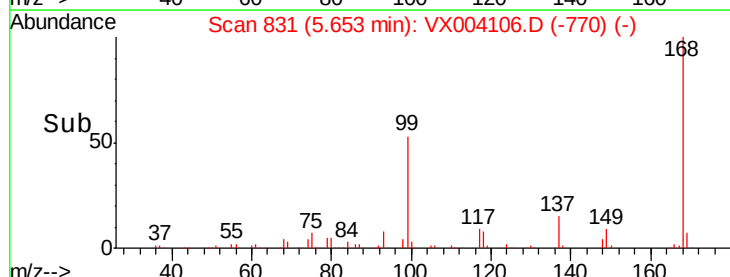
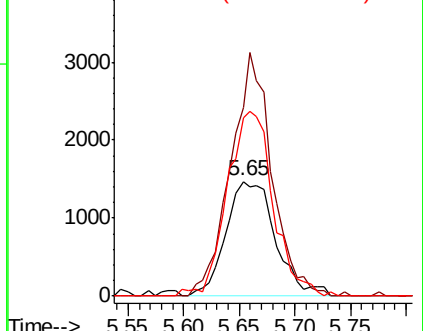
84 155.6 71.7 107.5#

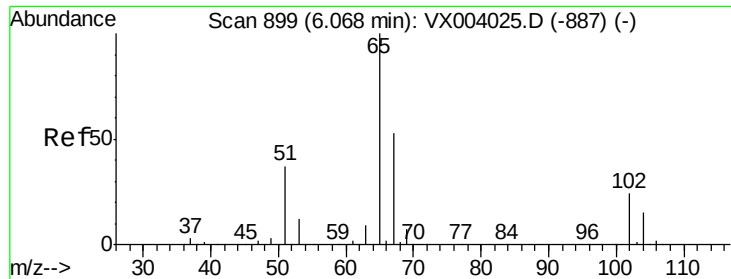


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

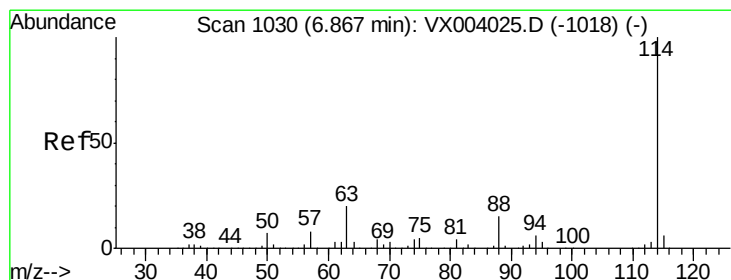
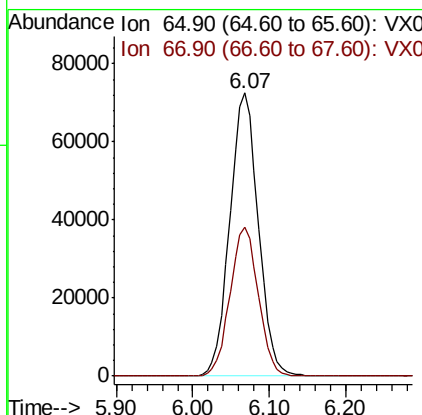
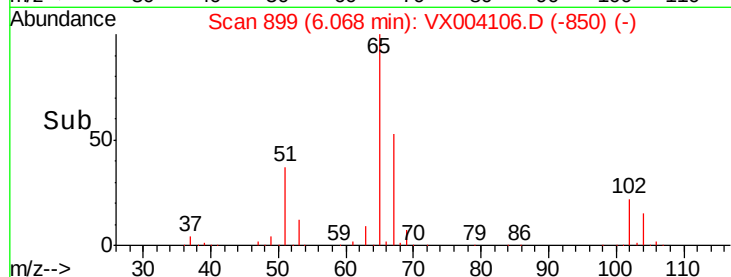
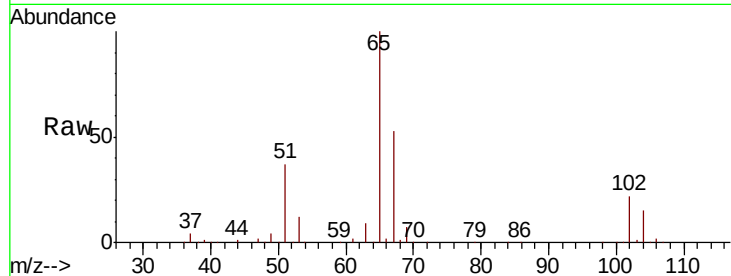




#33
 1,2-Dichloroethane-d4
 Concen: 54.79 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004106.D
 Acq: 16 Aug 2018 07:07

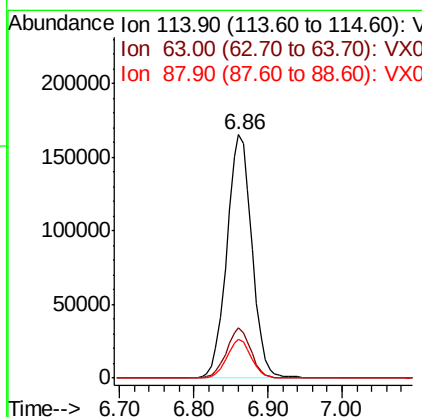
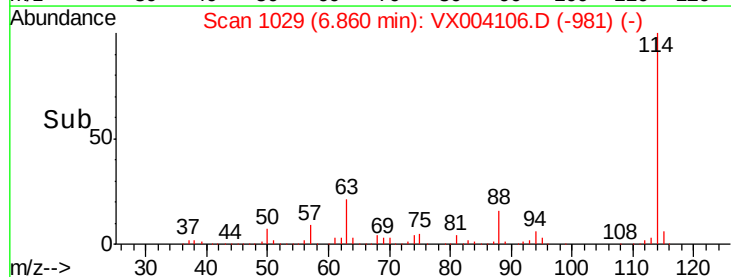
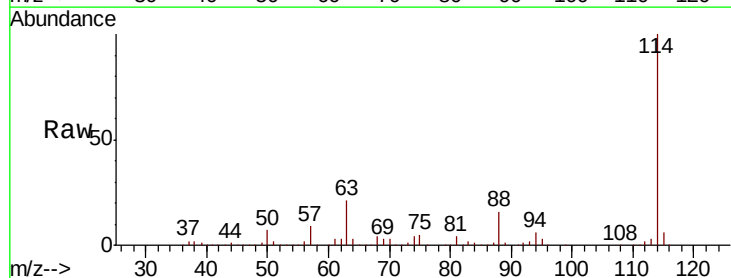
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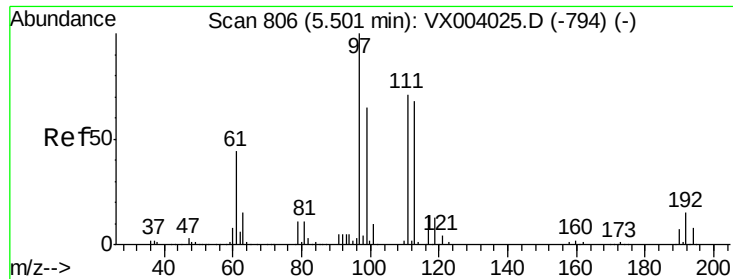
Tot Ion: 65 Resp: 186898
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX004106.D
 Acq: 16 Aug 2018 07:07

Tgt Ion: 114 Resp: 388751
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 39.0
 88 15.9 0.0 32.0

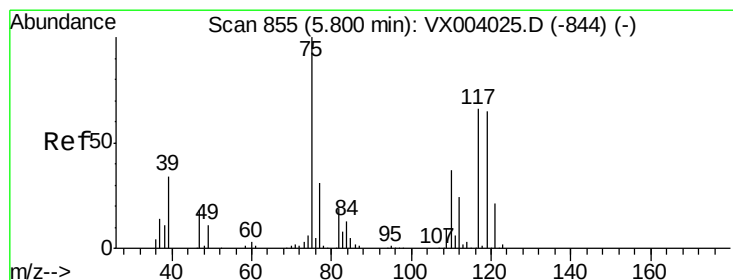
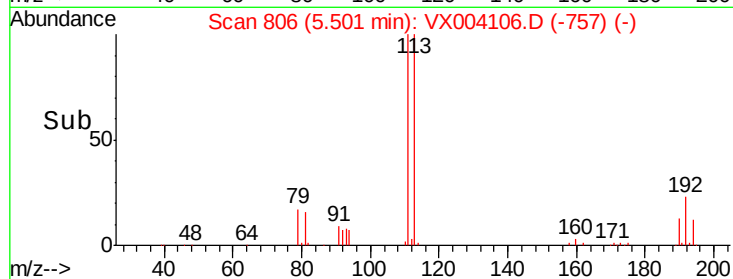
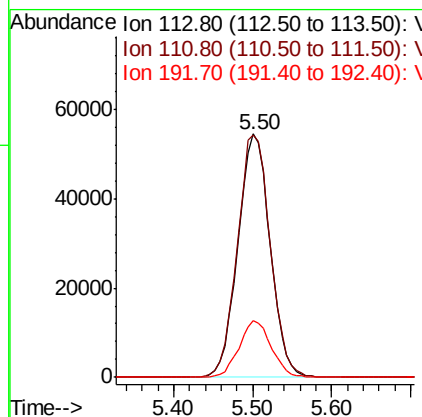
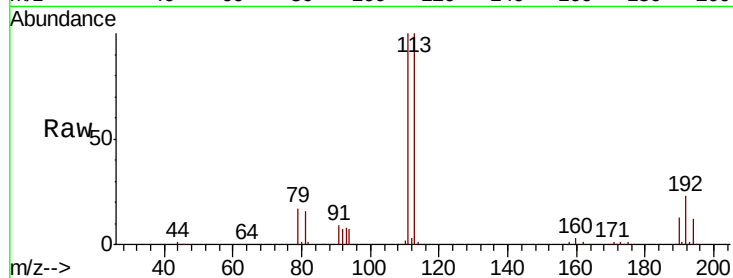




#35
 Dibromofluoromethane
 Concen: 53.11 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004106.D
 Acq: 16 Aug 2018 07:07

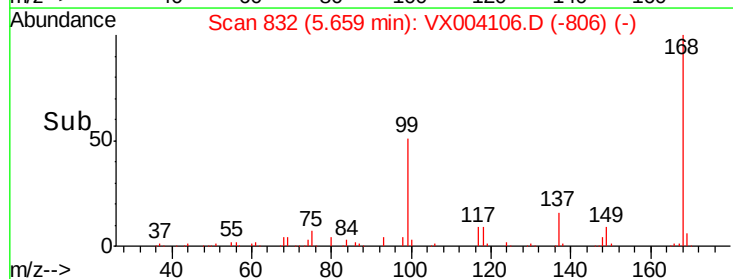
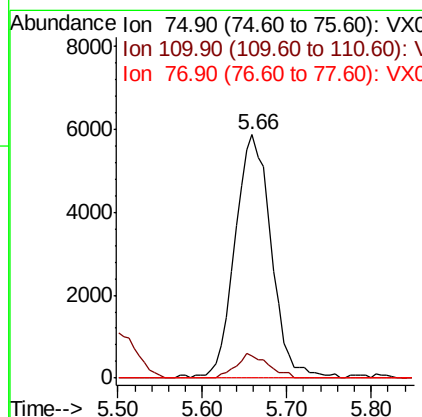
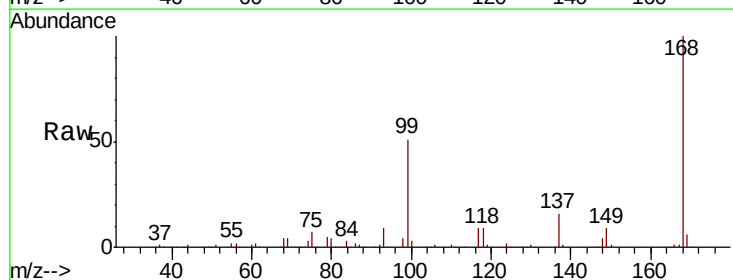
Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW504-180814DL

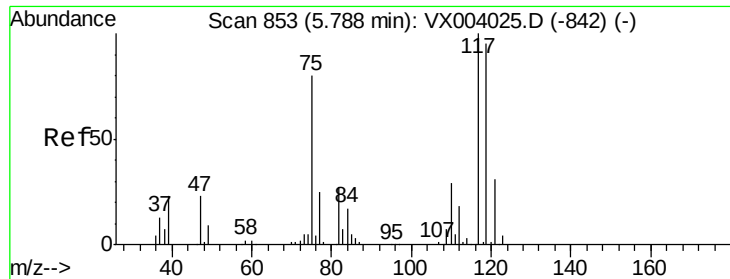
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.0	123.0
192	23.2	19.0	28.4



#36
 1,1-Dichloropropene
 Concen: 3.87 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004106.D
 Acq: 16 Aug 2018 07:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.2	54.6#
77	0.0	25.0	37.4#

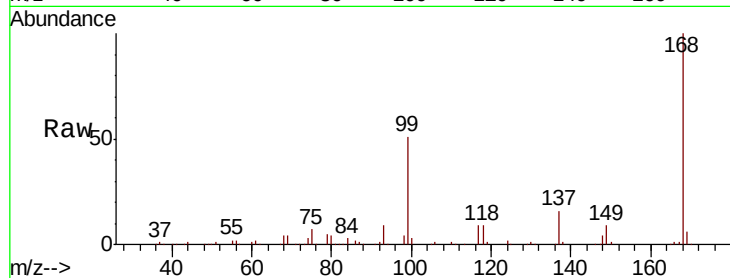




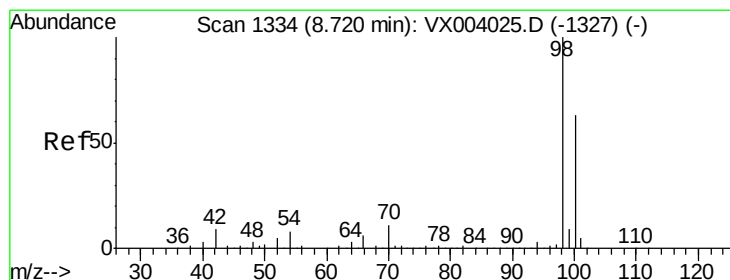
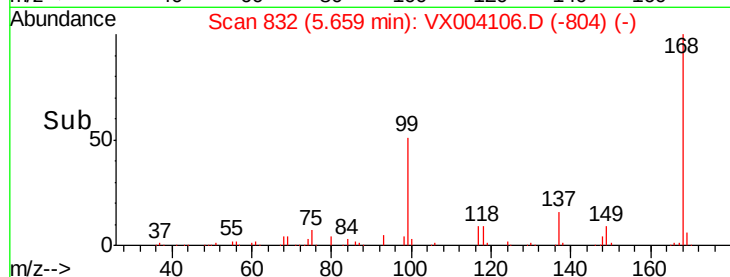
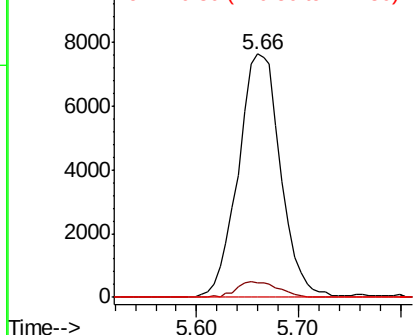
#38
Carbon Tetrachloride
Concen: 5.12 ug/l
RT: 5.66 min Scan# 832
Delta R.T. -0.13 min
Lab File: VX004106.D
Acq: 16 Aug 2018 07:07

Instrument :
MSVOA_X
ClientSampleId :
SS050MW504-180814DL

Tot Ion:117 Resp: 22011
Ion Ratio Lower Upper
117 100
119 5.8 79.5 119.3#
121 0.0 25.0 37.4#

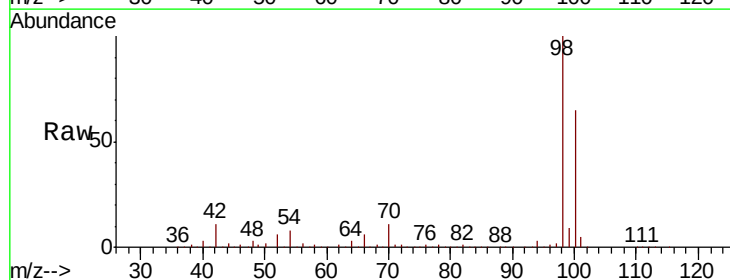


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

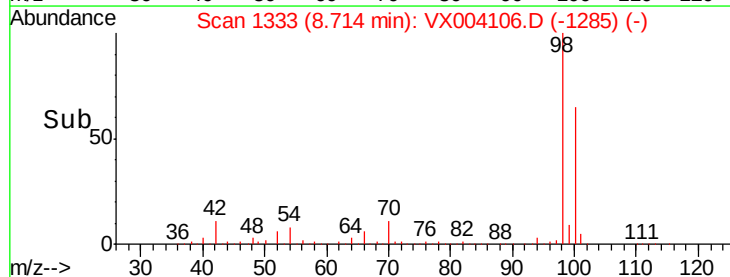
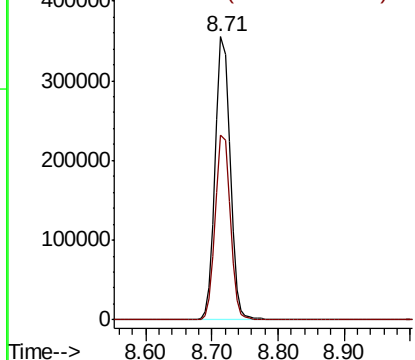


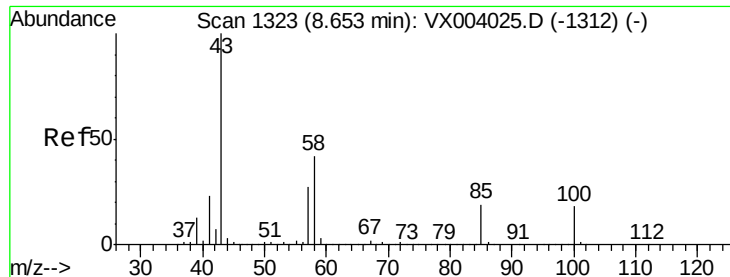
#50
Toluene-d8
Concen: 47.12 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VX004106.D
Acq: 16 Aug 2018 07:07

Tgt Ion: 98 Resp: 555861
Ion Ratio Lower Upper
98 100
100 65.5 53.3 79.9



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: 0.39 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.07 min

Lab File: VX004106.D

Acq: 16 Aug 2018 07:07

Instrument :

MSVOA_X

ClientSampleId :

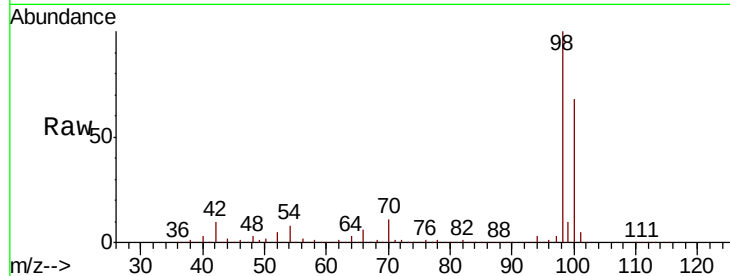
SS050MW504-180814DL

Tot Ion: 43 Resp: 2244

Ion Ratio Lower Upper

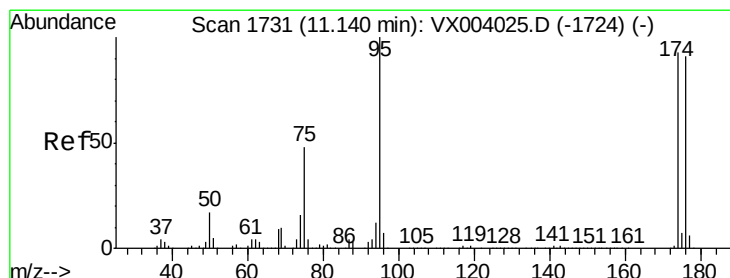
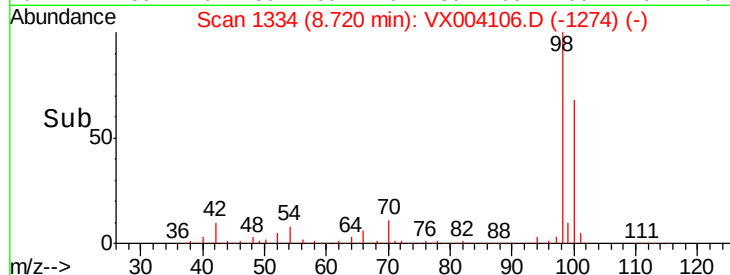
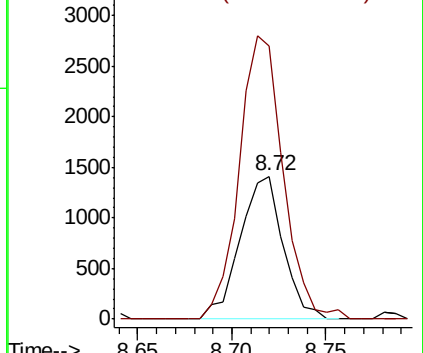
43 100

58 201.2 33.0 49.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.26 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004106.D

Acq: 16 Aug 2018 07:07

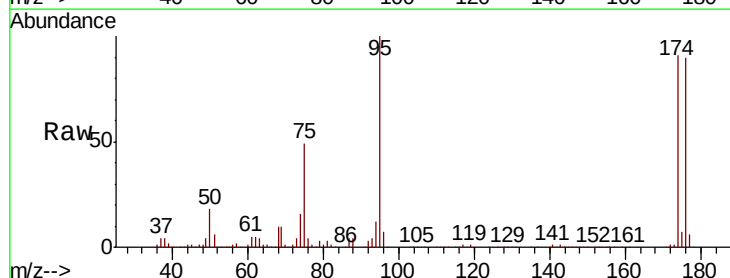
Tgt Ion: 95 Resp: 193658

Ion Ratio Lower Upper

95 100

174 91.3 0.0 182.8

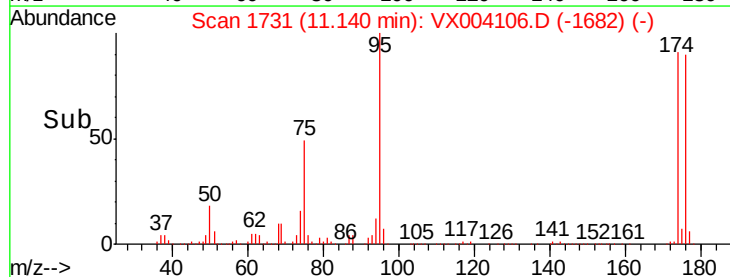
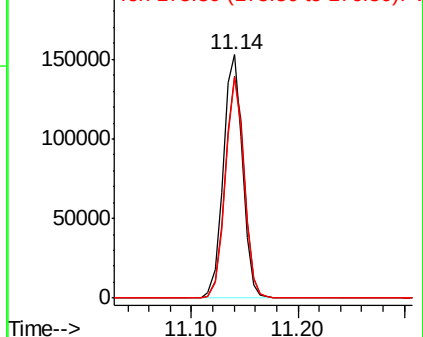
176 88.3 0.0 179.0

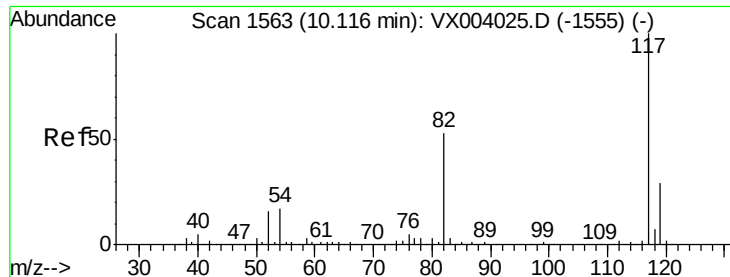


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

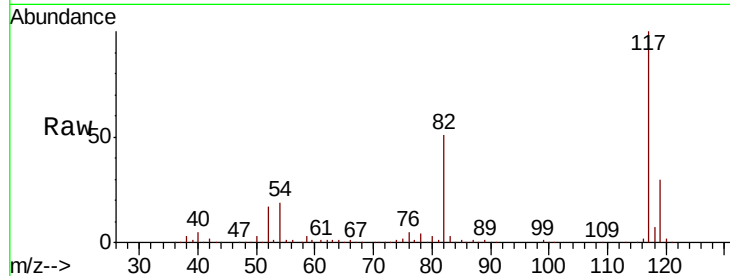




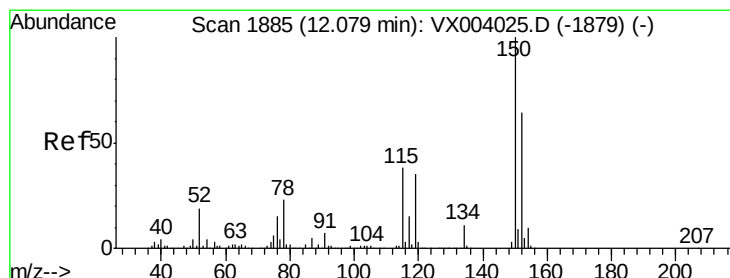
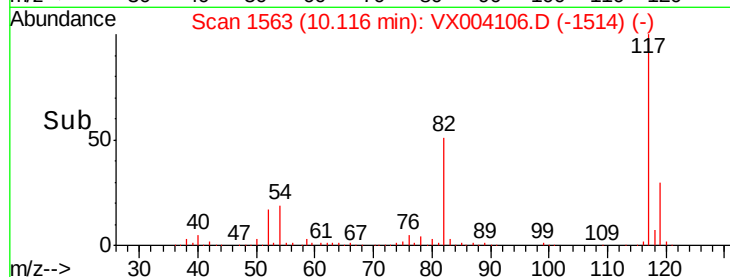
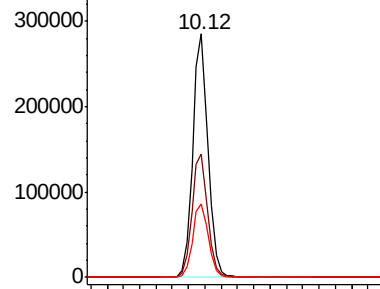
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004106.D
Acq: 16 Aug 2018 07:07

Instrument :
MSVOA_X
ClientSampleId :
SS050MW504-180814DL

Tot Ion:117 Resp: 374863
Ion Ratio Lower Upper
117 100
82 50.6 45.4 68.0
119 30.0 26.6 40.0

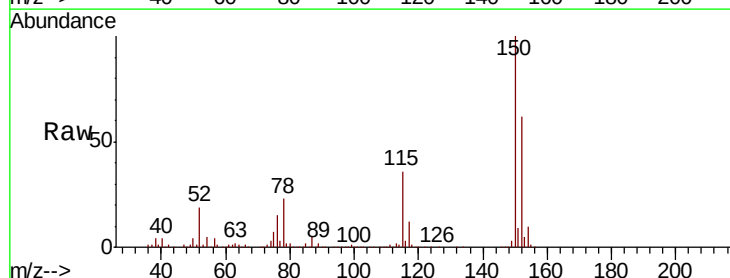


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

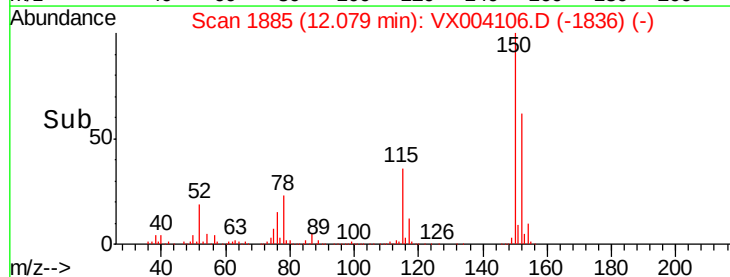
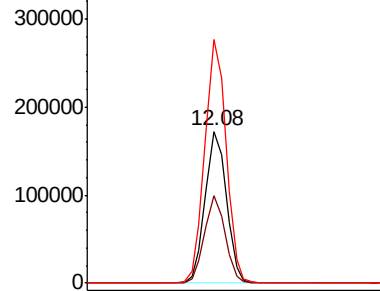


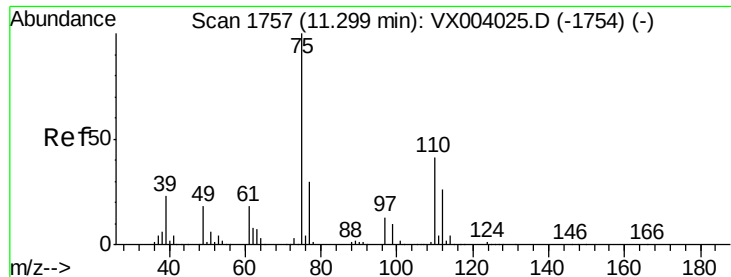
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004106.D
Acq: 16 Aug 2018 07:07

Tgt Ion:152 Resp: 206802
Ion Ratio Lower Upper
152 100
115 55.8 39.1 117.3
150 160.4 0.0 349.2



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: 22.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004106.D

Acq: 16 Aug 2018 07:07

Instrument :

MSVOA_X

ClientSampleId :

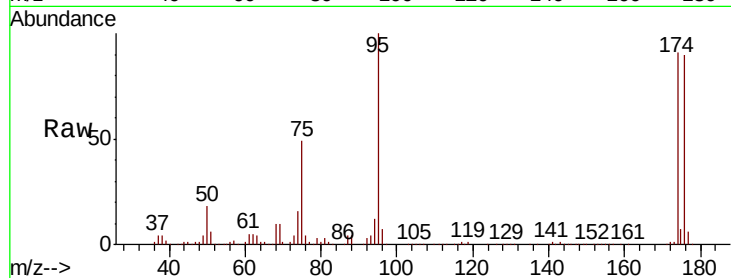
SS050MW504-180814DL

Tot Ion: 75 Resp: 94244

Ion Ratio Lower Upper

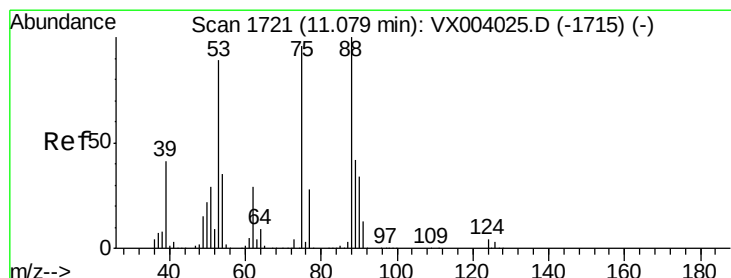
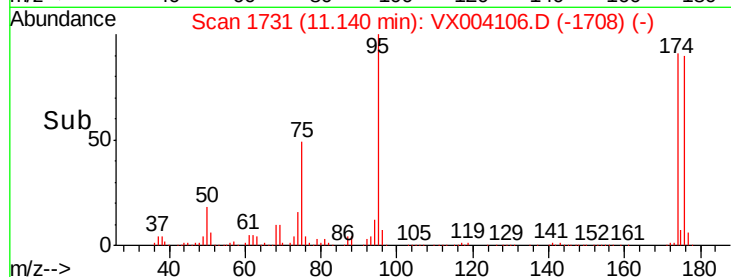
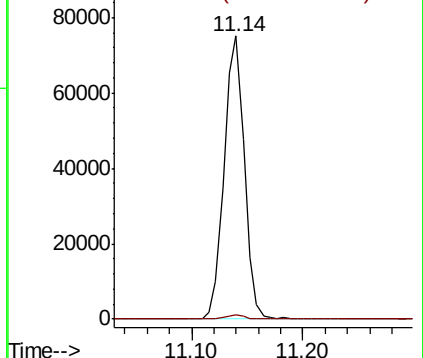
75 100

77 1.5 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 70.34 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004106.D

Acq: 16 Aug 2018 07:07

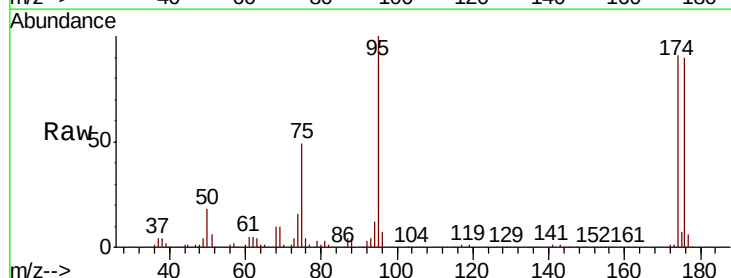
Tgt Ion: 75 Resp: 94244

Ion Ratio Lower Upper

75 100

53 0.3 80.3 120.5#

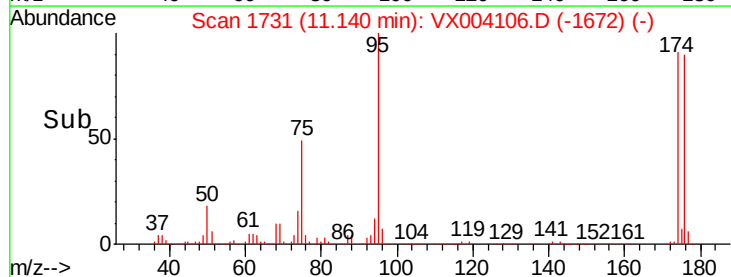
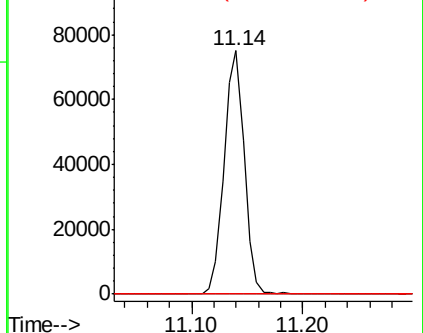
89 0.0 37.8 56.8#

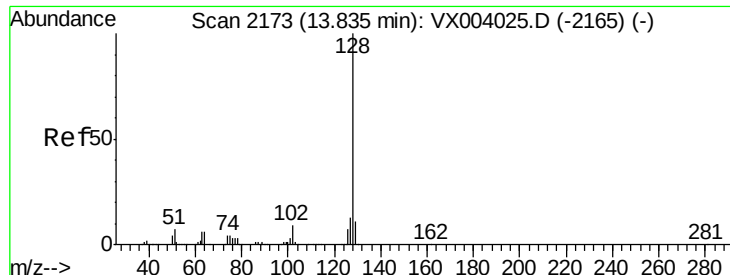


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 1.16 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004106.D

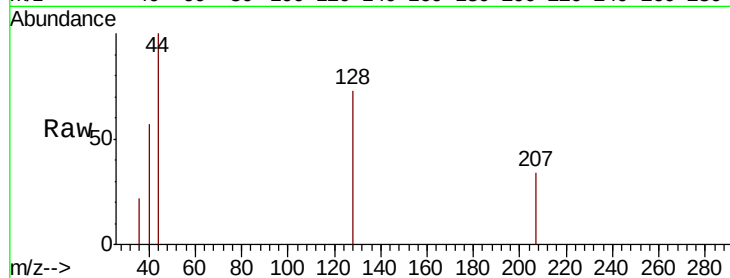
Acq: 16 Aug 2018 07:07

Instrument :

MSVOA_X

ClientSampleId :

SS050MW504-180814DL



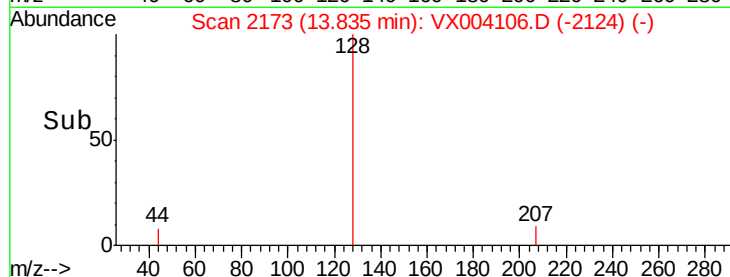
Tot Ion:128 Resp: 289

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#



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

13.83

200

150

100

50

0

Time-->

13.80

13.85