

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004088.D
 Acq On : 15 Aug 2018 22:14
 Operator : JC/MD
 Sample : J4429-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-295-SRI3

Quant Time: Aug 16 05:54:34 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	5.67	168	239726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	358343	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	344562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	182290	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	171085	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
35) Dibromofluoromethane	5.51	113	141380	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	
50) Toluene-d8	8.72	98	510532	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	
62) 4-Bromofluorobenzene	11.14	95	169577	43.00	ug/l	0.00
Spiked Amount			Recovery	=	86.00%	

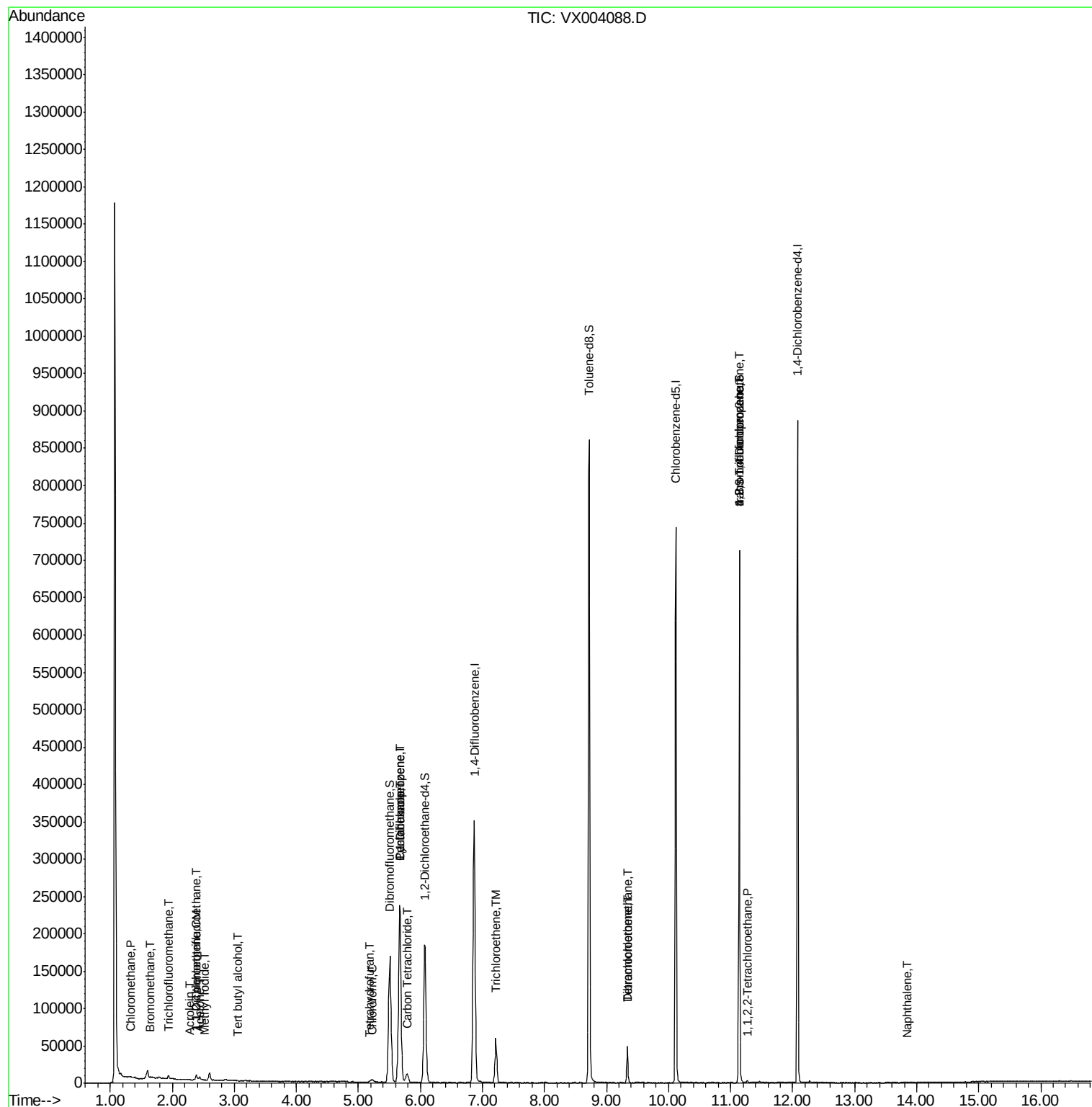
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	585	0.20	ug/l #	67
5) Bromomethane	1.65	94	708	0.27	ug/l #	71
6) Chloroethane	1.61	64	2726	Below Cal	#	72
7) Trichlorofluoromethane	1.93	101	2518	0.58	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2154	0.79	ug/l	98
10) Methyl Iodide	2.52	142	403	5.14	ug/l #	82
11) Tert butyl alcohol	3.05	59	278	0.41	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	530	0.21	ug/l #	54
13) Acrolein	2.28	56	27	11.01	ug/l #	1
16) Acetone	2.44	43	4545	2.59	ug/l	92
20) Methylene Chloride	2.86	84	517	Below Cal	#	86
29) Tetrahydrofuran	5.17	42	304	0.21	ug/l #	31
30) Chloroform	5.23	83	3576	0.69	ug/l	95
31) Cyclohexane	5.67	56	4461	0.96	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16326	4.00	ug/l #	49
38) Carbon Tetrachloride	5.78	117	10150	2.56	ug/l	91
44) Trichloroethene	7.21	130	23408	7.04	ug/l	98
60) Dibromochloromethane	9.34	129	8252	2.68	ug/l #	11
64) Tetrachloroethene	9.34	164	9530	2.92	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.27	83	921	0.21	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	83758	22.91	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	83758	70.92	ug/l #	9
95) Naphthalene	13.83	128	298	1.17	ug/l #	81

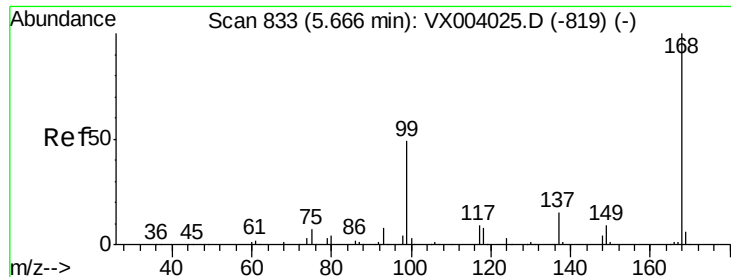
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 13:27:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

Instrument :

MSVOA_X

ClientSampleId :

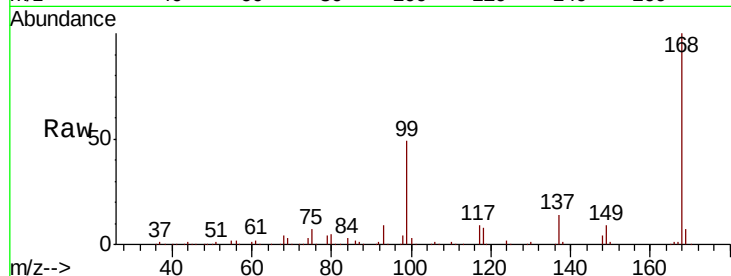
MW-295-SRI3

Tot Ion:168 Resp: 239726

Ion Ratio Lower Upper

168 100

99 48.5 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

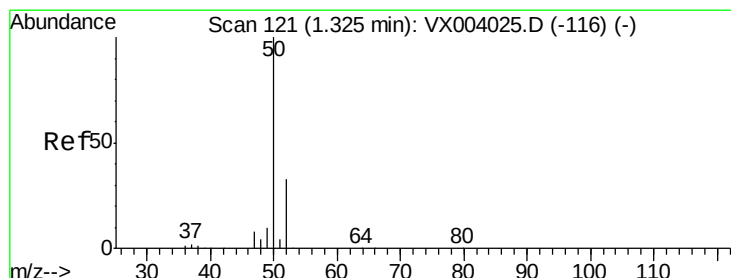
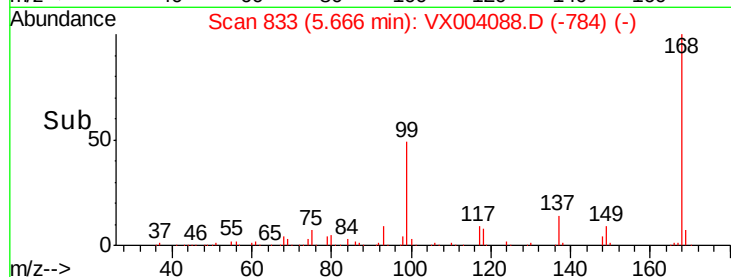
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.20 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004088.D

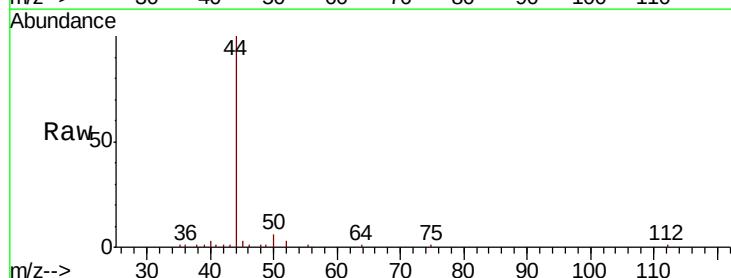
Acq: 15 Aug 2018 22:14

Tgt Ion: 50 Resp: 585

Ion Ratio Lower Upper

50 100

52 52.1 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

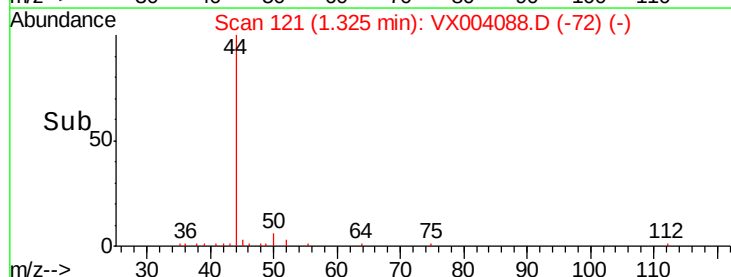
300

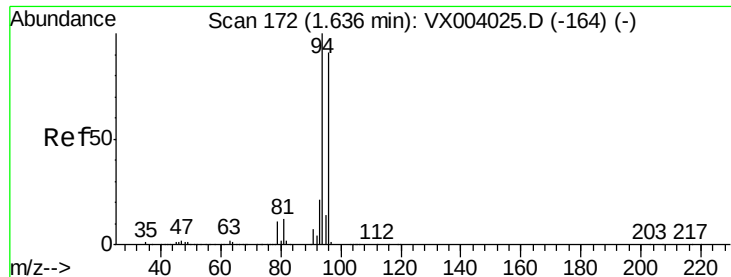
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.27 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

Instrument :

MSVOA_X

ClientSampleId :

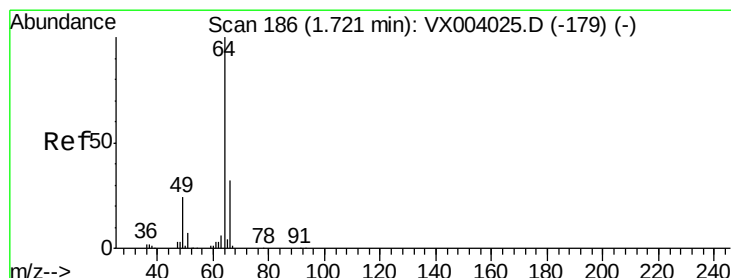
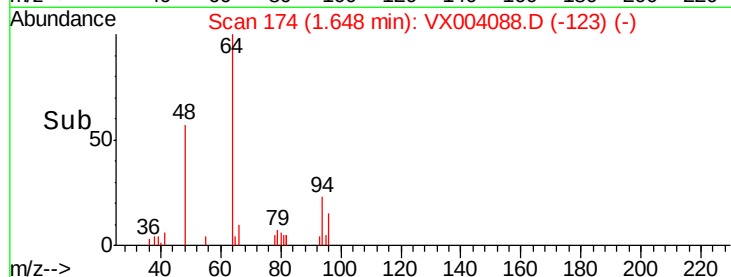
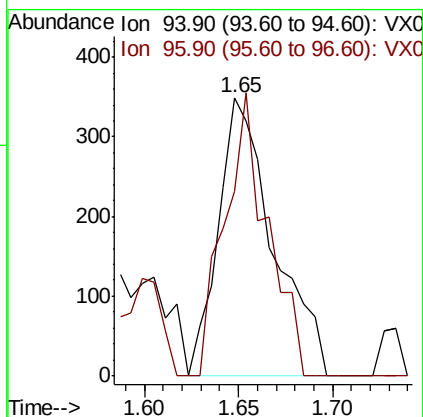
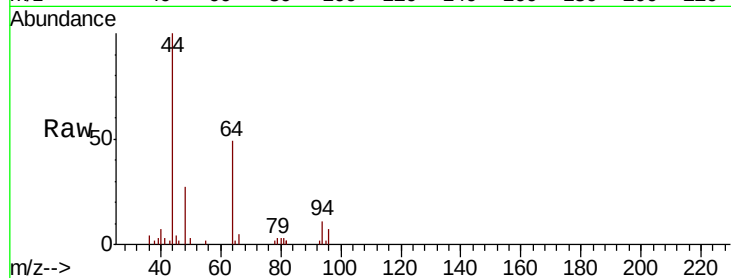
MW-295-SRI3

Tot Ion: 94 Resp: 708

Ion Ratio Lower Upper

94 100

96 66.2 75.2 112.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.61 min Scan# 167

Delta R.T. -0.12 min

Lab File: VX004088.D

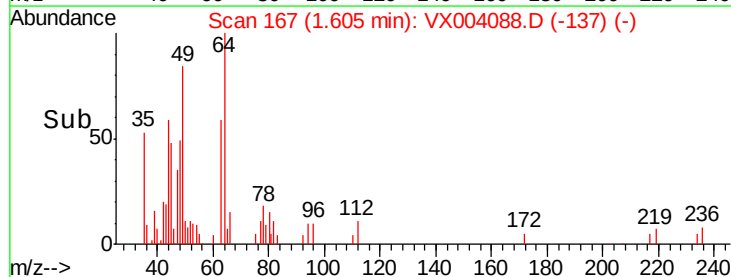
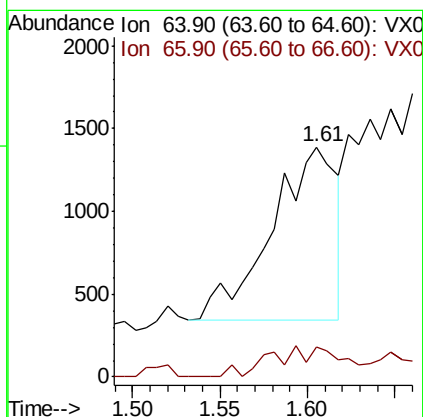
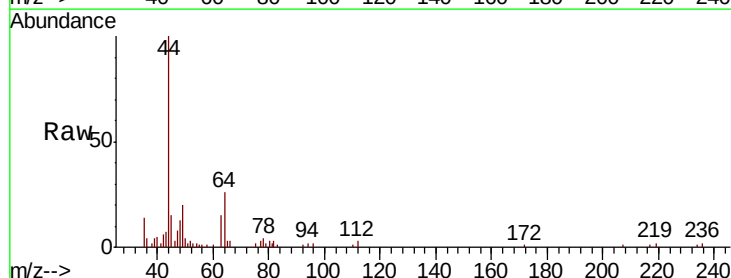
Acq: 15 Aug 2018 22:14

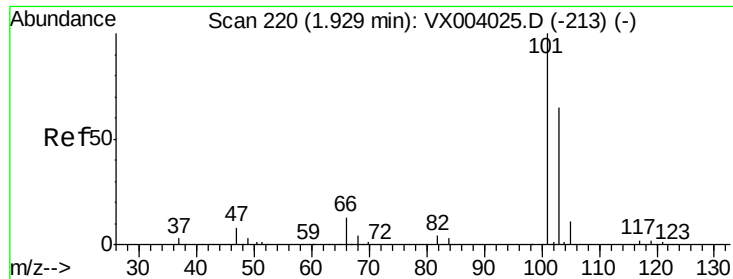
Tgt Ion: 64 Resp: 2726

Ion Ratio Lower Upper

64 100

66 17.4 26.5 39.7#



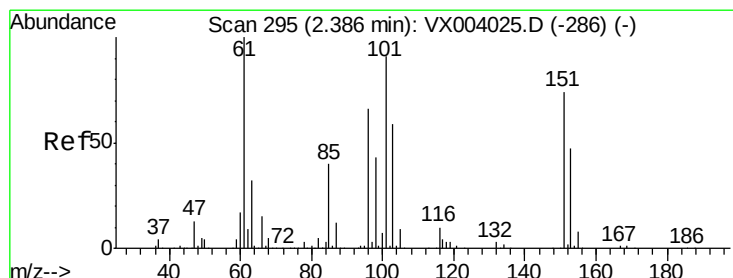
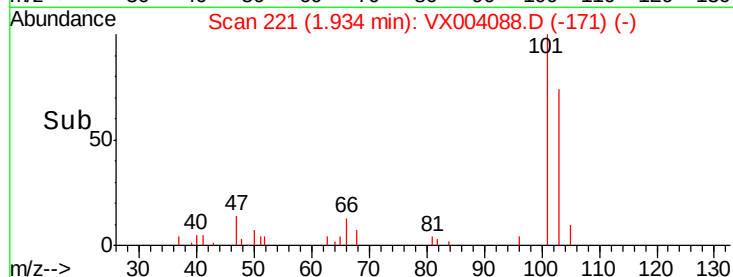
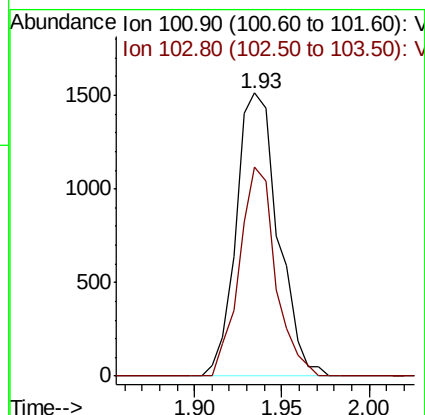
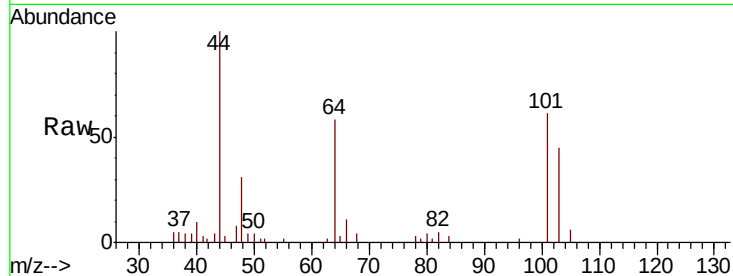


#7

Trichlorofluoromethane
 Concen: 0.58 ug/l
 RT: 1.93 min Scan# 221
 Delta R.T. 0.01 min
 Lab File: VX004088.D
 Acq: 15 Aug 2018 22:14

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-295-SRI3

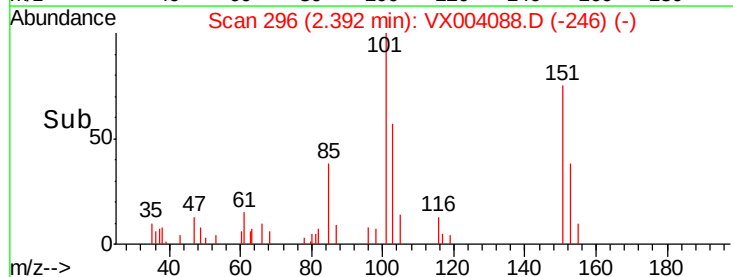
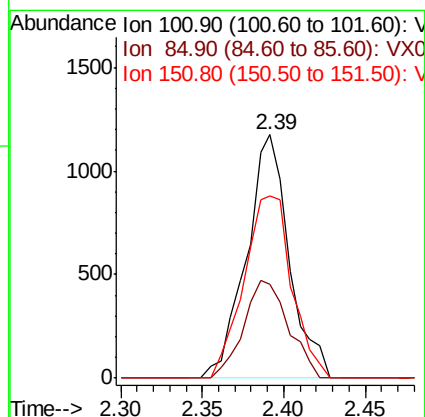
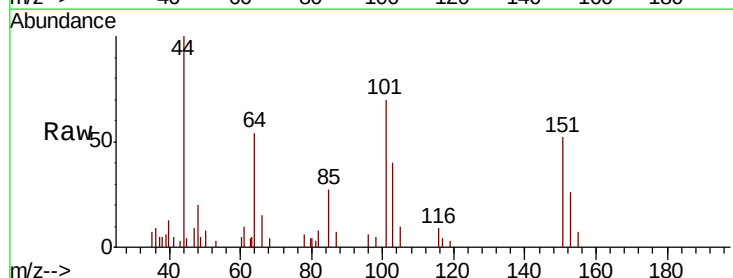
Tot Ion:101 Resp: 2518
 Ion Ratio Lower Upper
 101 100
 103 73.9 52.3 78.5

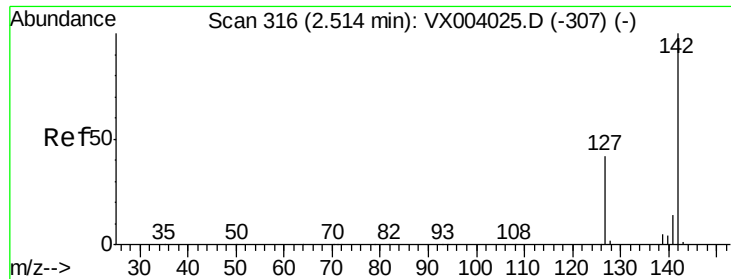


#9

1,1,2-Trichlorotrifluoroethane
 Concen: 0.79 ug/l
 RT: 2.39 min Scan# 296
 Delta R.T. 0.01 min
 Lab File: VX004088.D
 Acq: 15 Aug 2018 22:14

Tgt Ion:101 Resp: 2154
 Ion Ratio Lower Upper
 101 100
 85 41.9 34.2 51.4
 151 83.3 65.0 97.4

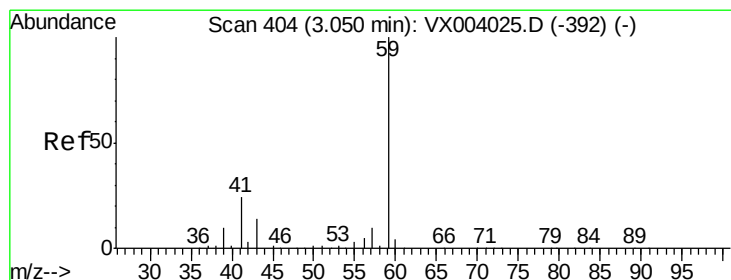
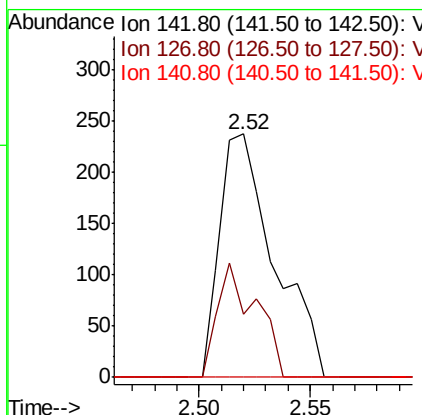
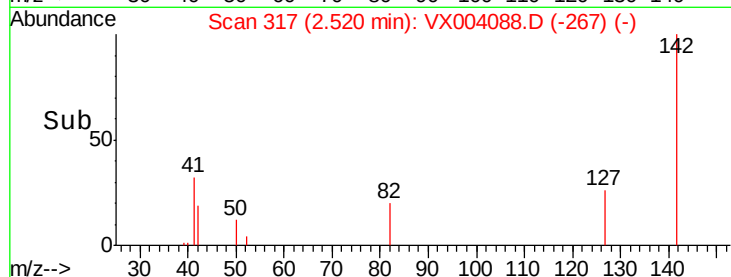
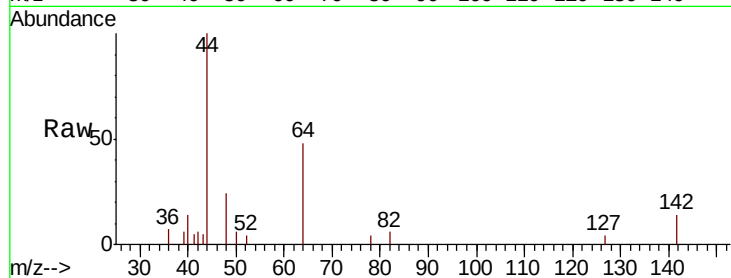




#10
Methvl Iodide
Concen: 5.14 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004088.D
Acq: 15 Aug 2018 22:14

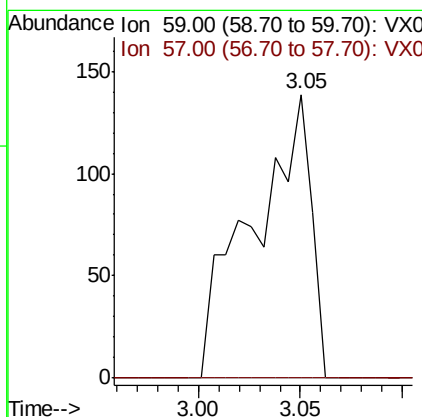
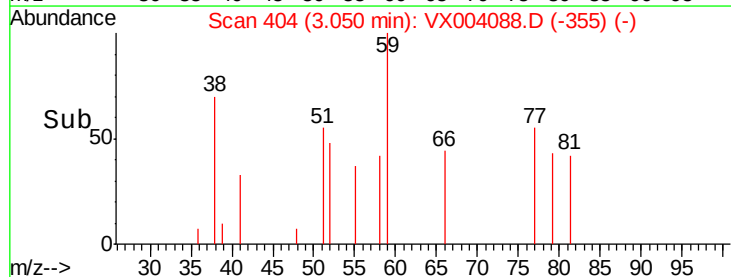
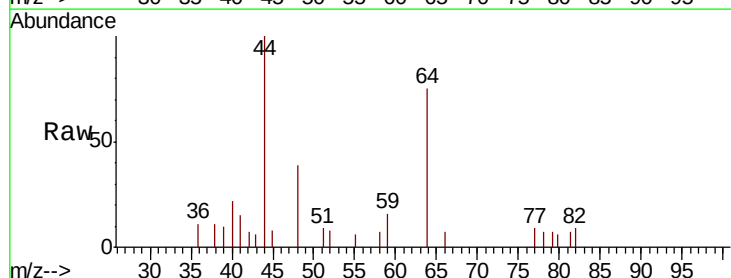
Instrument :
MSVOA_X
ClientSampleId :
MW-295-SRI3

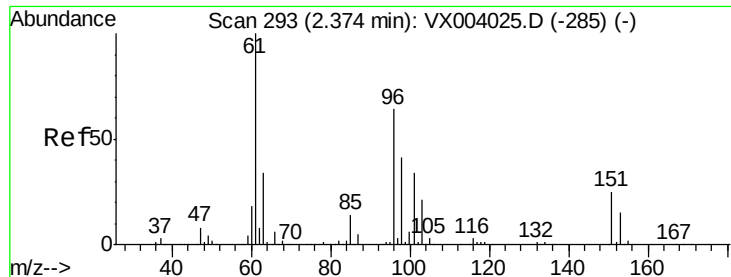
Tot Ion:142 Resp: 403
Ion Ratio Lower Upper
142 100
127 33.3 33.1 49.7
141 0.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 0.41 ug/l
RT: 3.05 min Scan# 404
Delta R.T. -0.00 min
Lab File: VX004088.D
Acq: 15 Aug 2018 22:14

Tgt Ion: 59 Resp: 278
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#12

1,1-Dichloroethene

Concen: 0.21 ug/l

RT: 2.37 min Scan# 293

Delta R.T. -0.00 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

Instrument :

MSVOA_X

ClientSampleId :

MW-295-SRI3

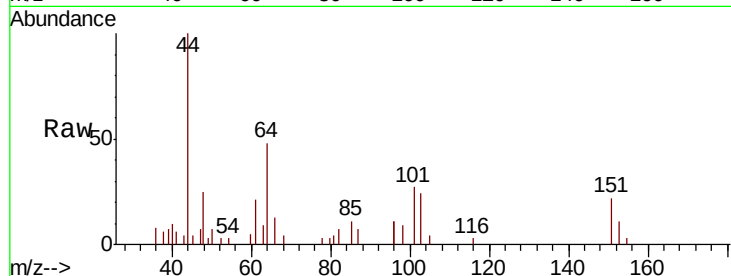
Tot Ion: 96 Resp: 530

Ion Ratio Lower Upper

96 100

61 92.9 131.3 196.9#

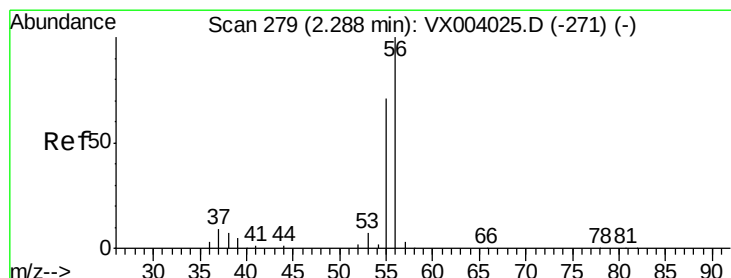
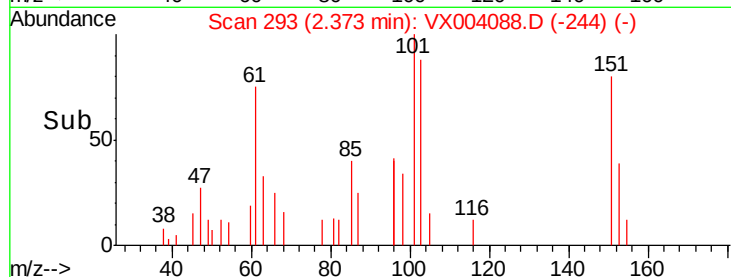
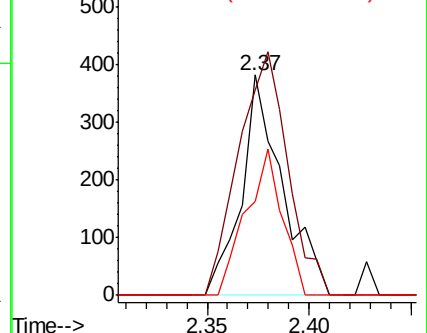
98 42.4 51.8 77.6#



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



#13

Acrolein

Concen: 11.01 ug/l

RT: 2.28 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX004088.D

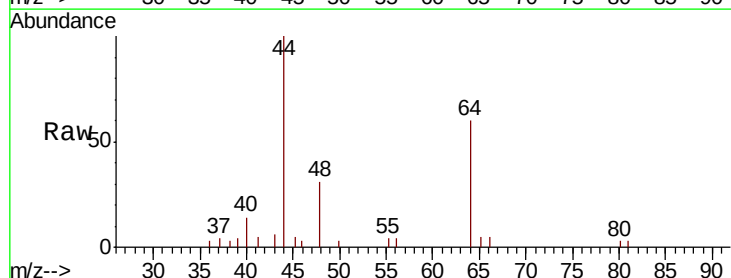
Acq: 15 Aug 2018 22:14

Tgt Ion: 56 Resp: 27

Ion Ratio Lower Upper

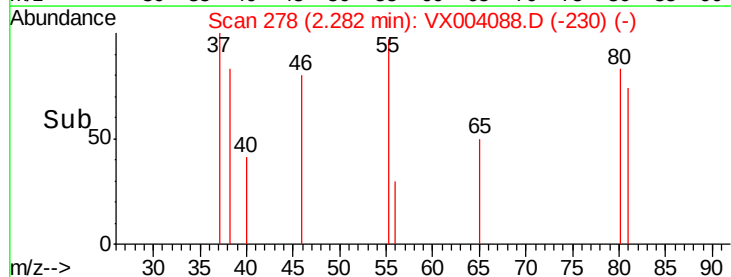
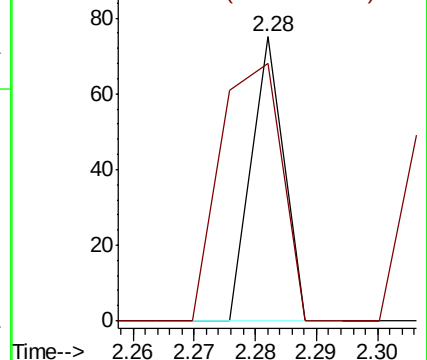
56 100

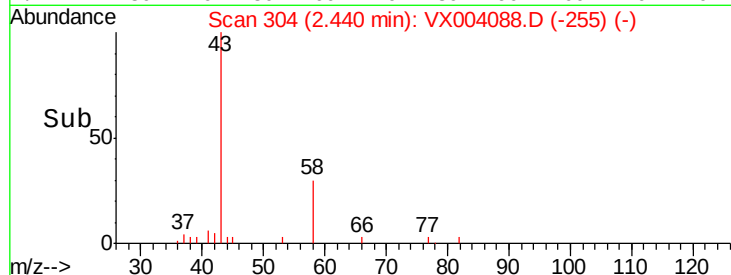
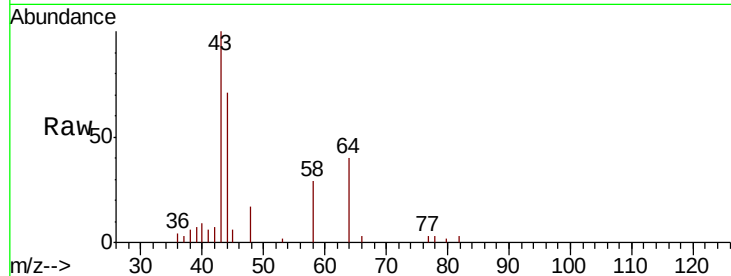
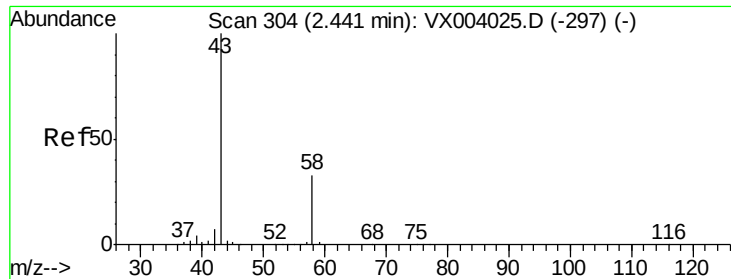
55 174.1 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.59 ua/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

Instrument :

MSVOA_X

ClientSampleId :

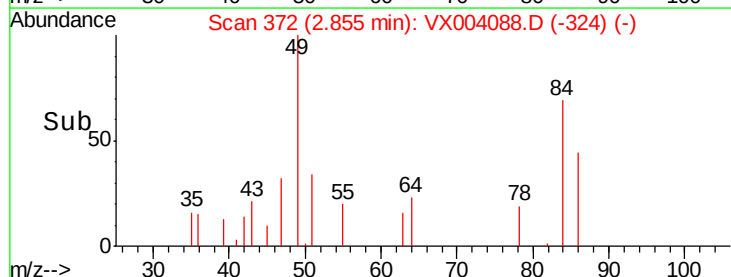
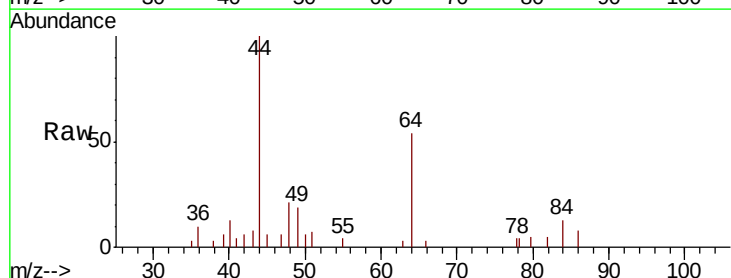
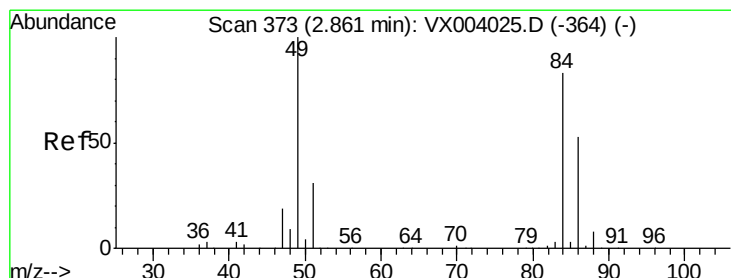
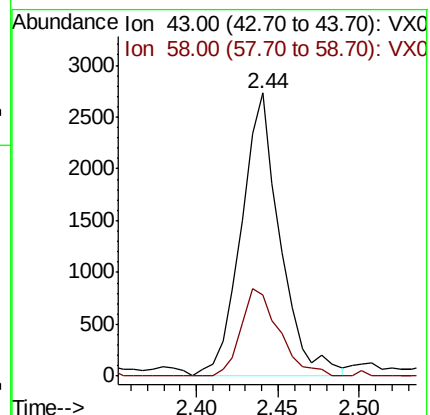
MW-295-SRI3

Tot Ion: 43 Resp: 4545

Ion Ratio Lower Upper

43 100

58 28.7 26.4 39.6



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

Tgt Ion: 84 Resp: 517

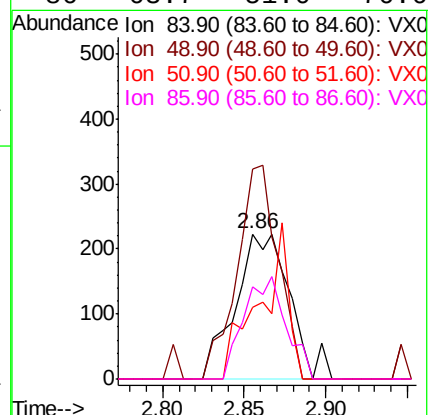
Ion Ratio Lower Upper

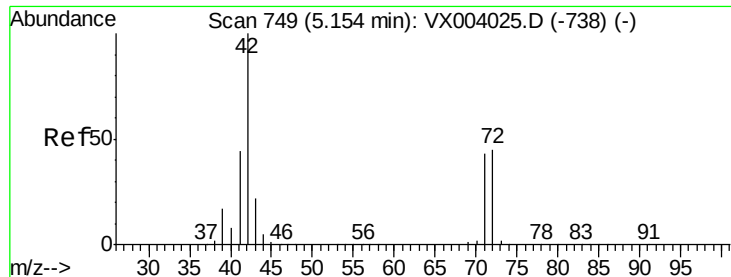
84 100

49 145.3 98.9 148.3

51 49.8 29.9 44.9#

86 63.7 51.0 76.6





#29

Tetrahydrofuran

Concen: 0.21 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

Instrument :

MSVOA_X

ClientSampleId :

MW-295-SRI3

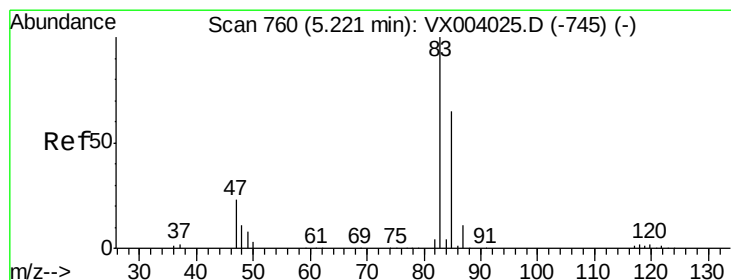
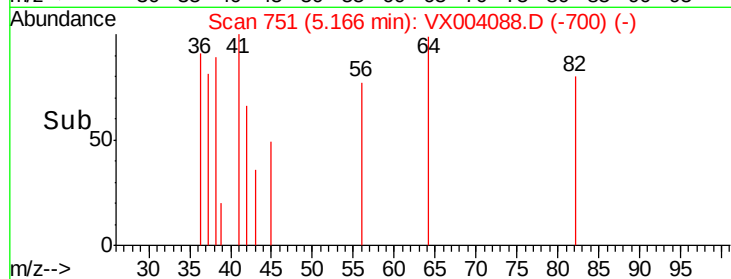
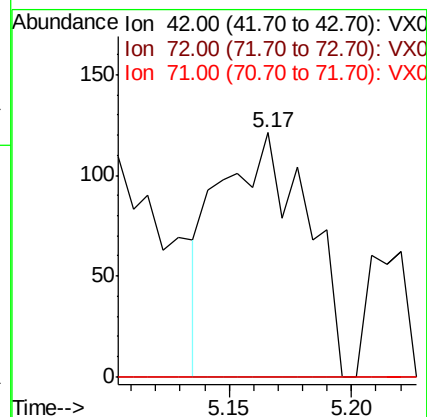
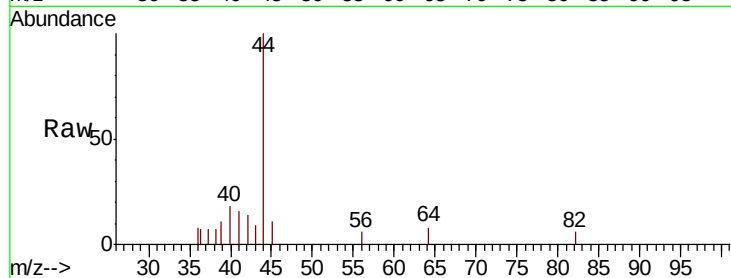
Tot Ion: 42 Resp: 304

Ion Ratio Lower Upper

42 100

72 0.0 37.7 56.5#

71 0.0 35.0 52.6#



#30

Chloroform

Concen: 0.69 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX004088.D

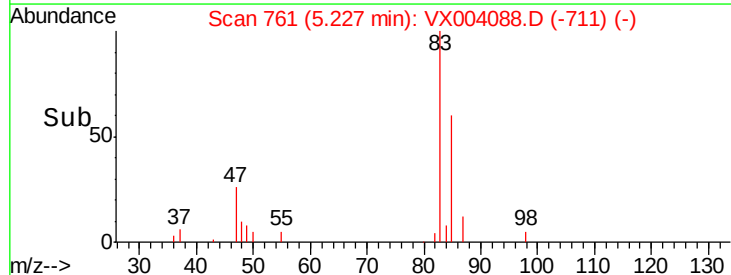
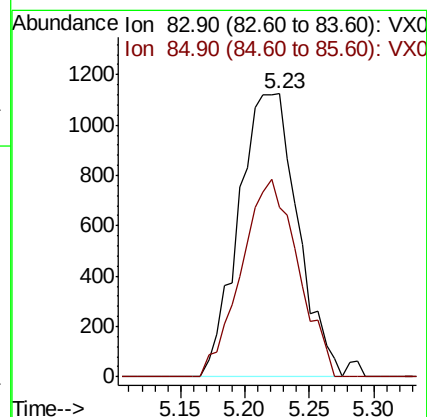
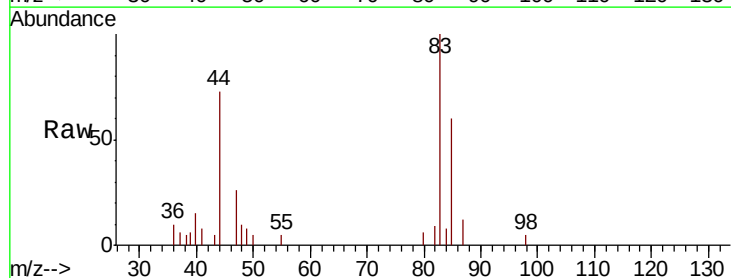
Acq: 15 Aug 2018 22:14

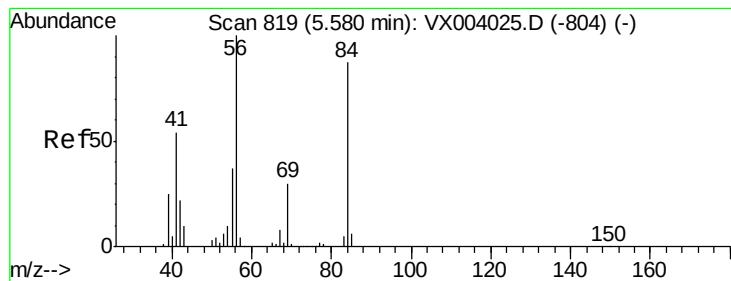
Tgt Ion: 83 Resp: 3576

Ion Ratio Lower Upper

83 100

85 59.9 50.7 76.1





#31

Cyclohexane

Concen: 0.96 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

Instrument :

MSVOA_X

ClientSampleId :

MW-295-SRI3

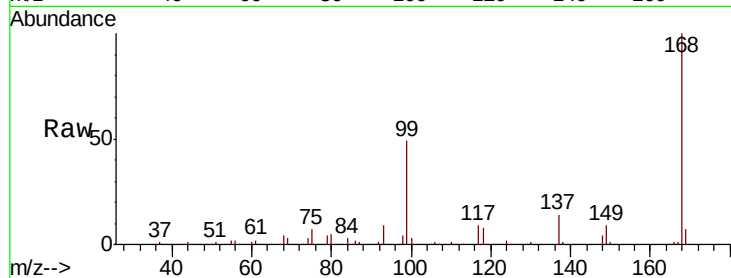
Tot Ion: 56 Resp: 4461

Ion Ratio Lower Upper

56 100

69 172.5 24.9 37.3#

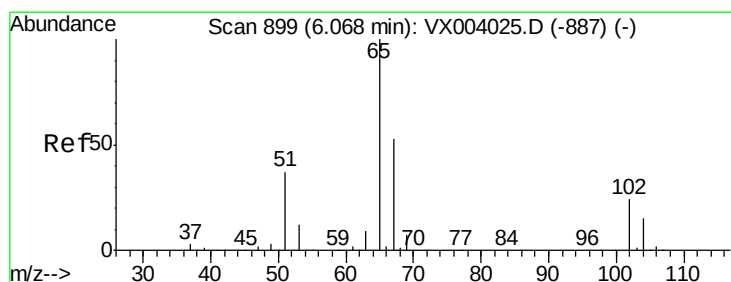
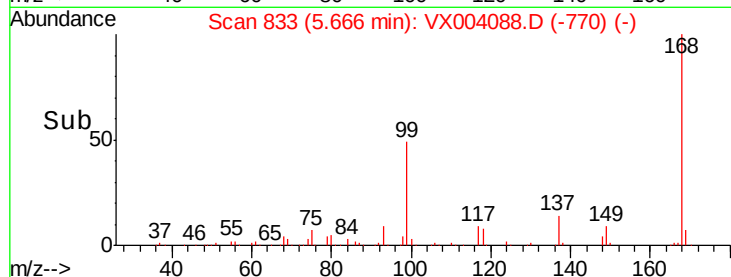
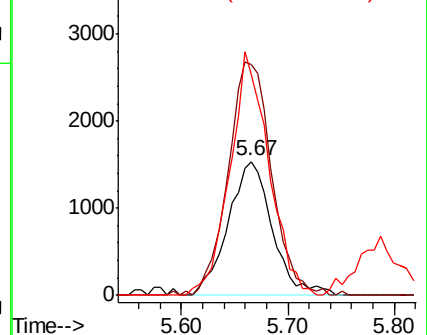
84 159.3 71.7 107.5#



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: 50.65 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004088.D

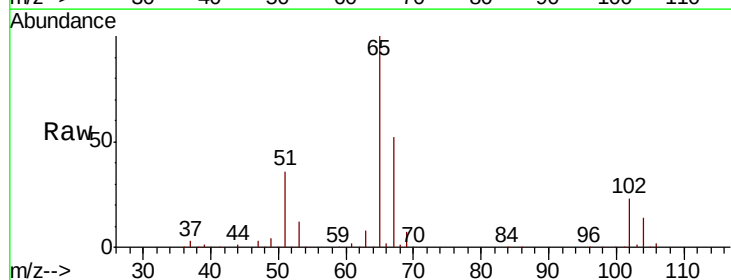
Acq: 15 Aug 2018 22:14

Tgt Ion: 65 Resp: 171085

Ion Ratio Lower Upper

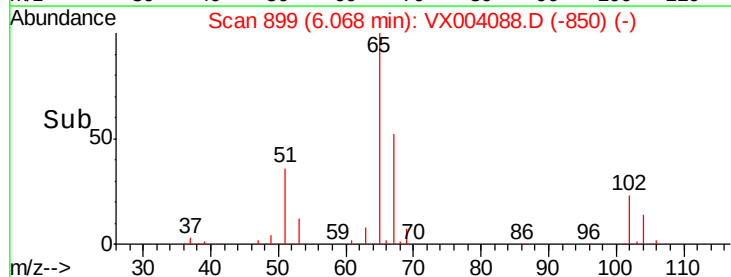
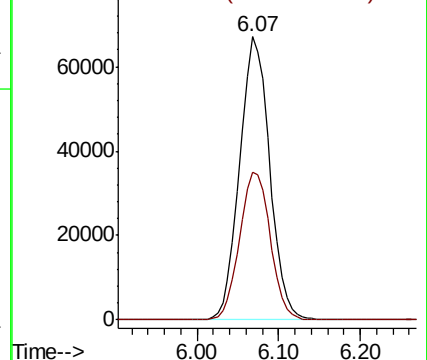
65 100

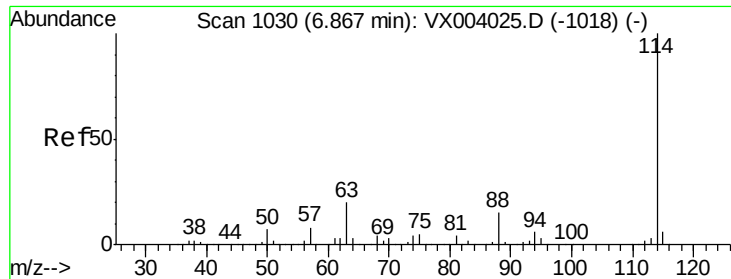
67 53.5 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

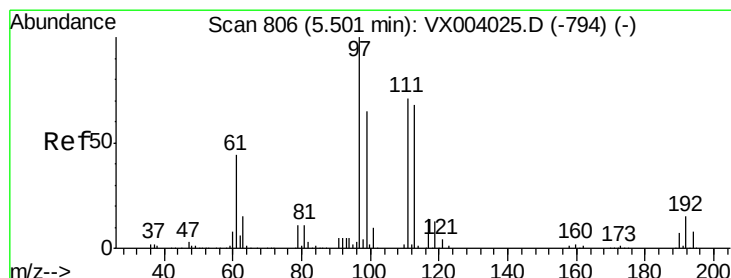
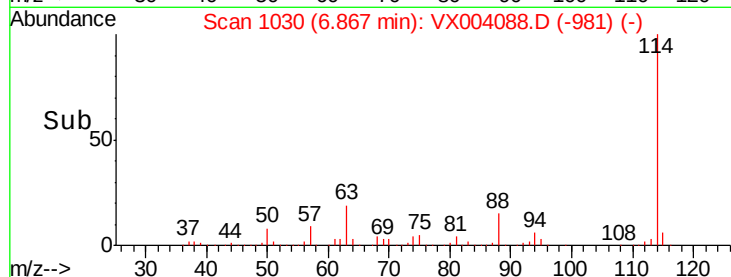
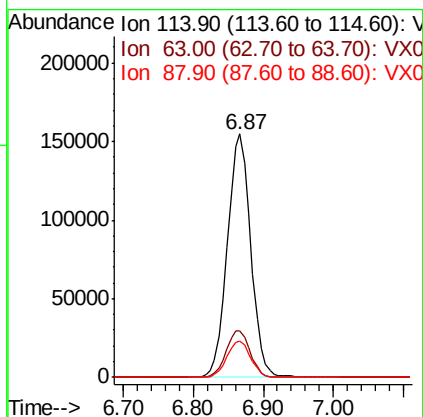
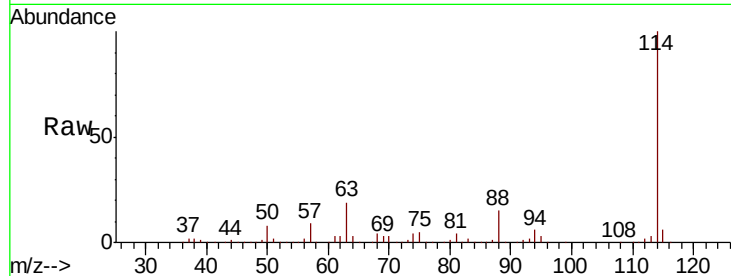




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004088.D
 Acq: 15 Aug 2018 22:14

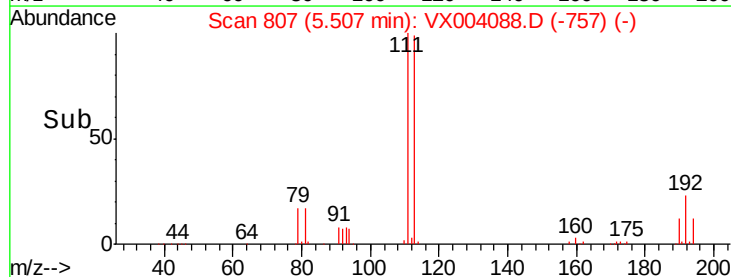
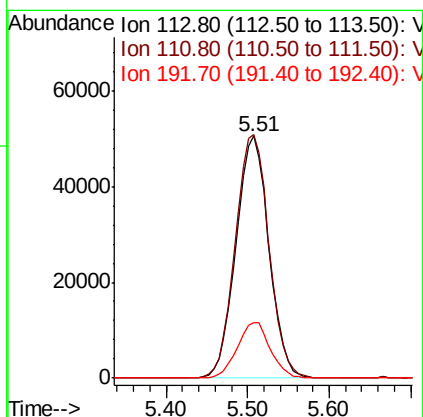
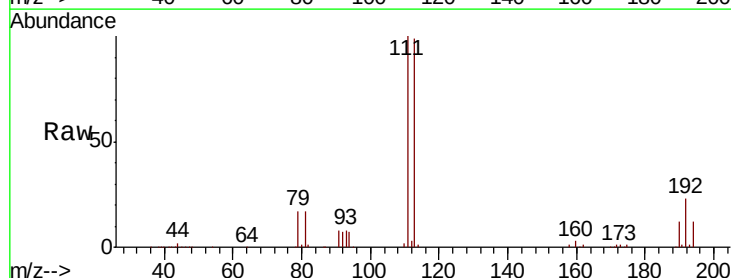
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-295-SRI3

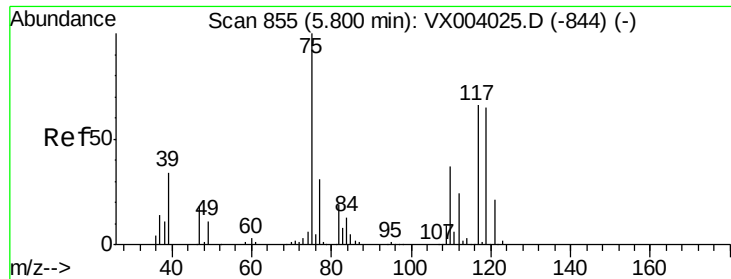
Tot Ion:114 Resp: 358343
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.0
 88 15.1 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 52.72 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004088.D
 Acq: 15 Aug 2018 22:14

Tgt Ion:113 Resp: 141380
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.0 123.0
 192 23.2 19.0 28.4

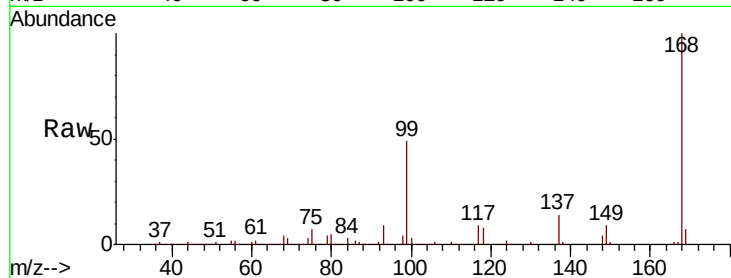




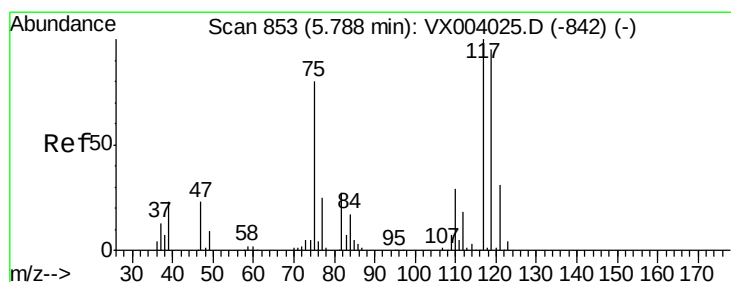
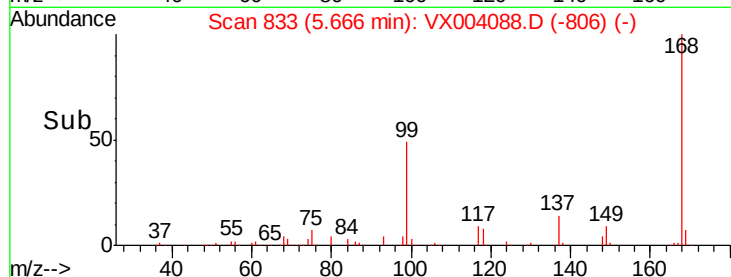
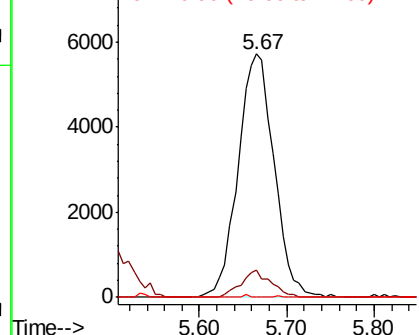
#36
 1,1-Dichloropropene
 Concen: 4.00 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004088.D
 Acq: 15 Aug 2018 22:14

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-295-SRI3

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.2	54.6#
77	0.1	25.0	37.4#

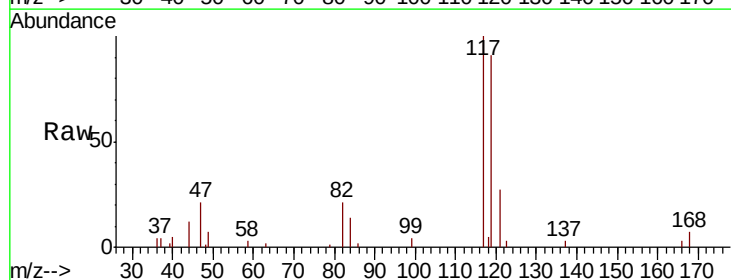


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

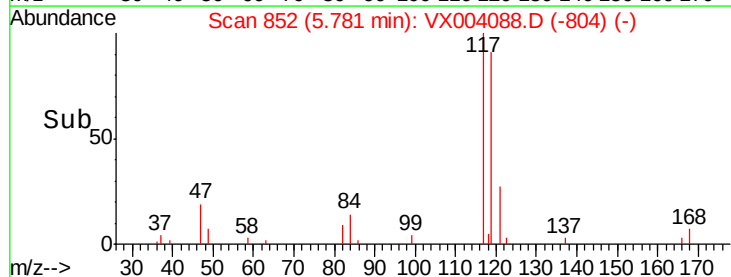
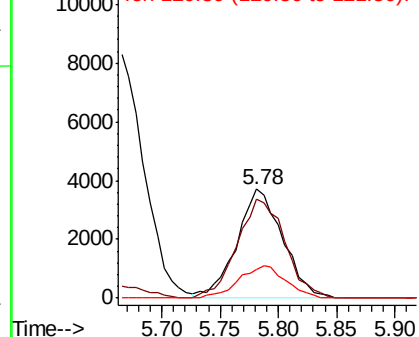


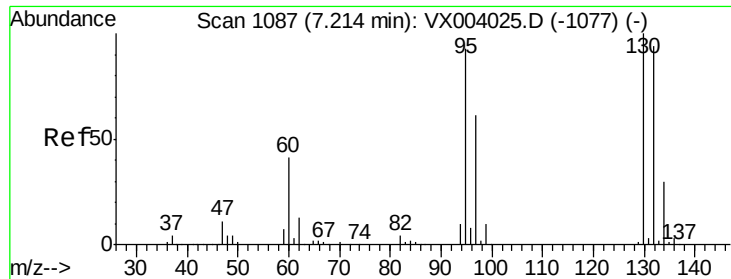
#38
 Carbon Tetrachloride
 Concen: 2.56 ug/l
 RT: 5.78 min Scan# 852
 Delta R.T. -0.01 min
 Lab File: VX004088.D
 Acq: 15 Aug 2018 22:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.6	79.5	119.3
121	26.7	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





#44

Trichloroethene

Concen: 7.04 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

Instrument :

MSVOA_X

ClientSampleId :

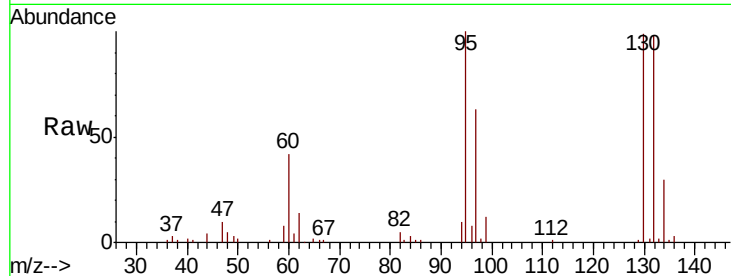
MW-295-SRI3

Tot Ion:130 Resp: 23408

Ion Ratio Lower Upper

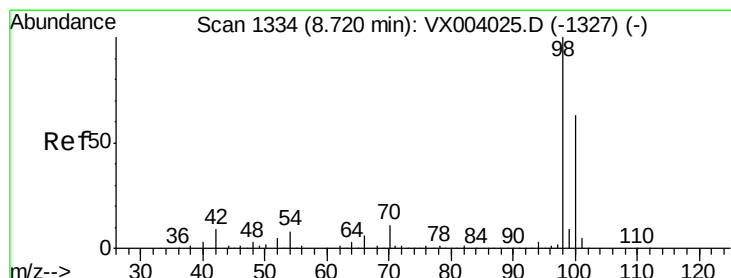
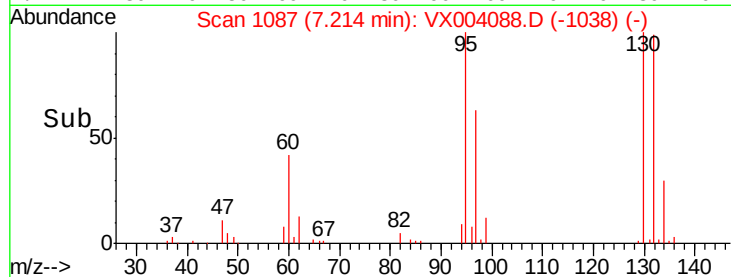
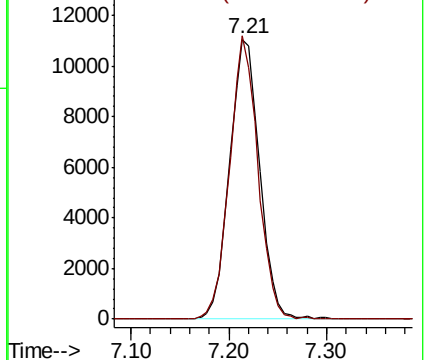
130 100

95 101.2 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 46.95 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004088.D

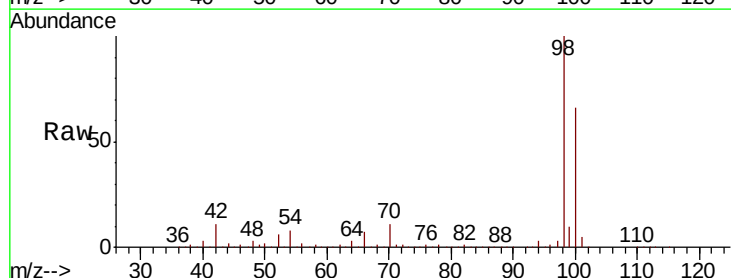
Acq: 15 Aug 2018 22:14

Tgt Ion: 98 Resp: 510532

Ion Ratio Lower Upper

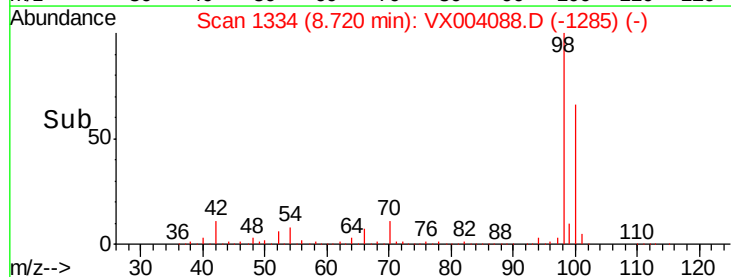
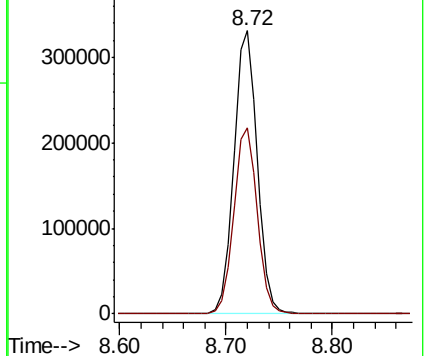
98 100

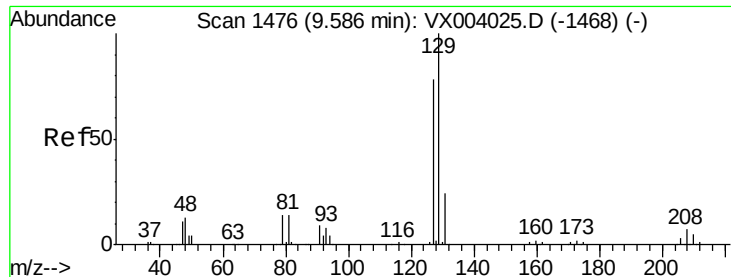
100 65.9 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

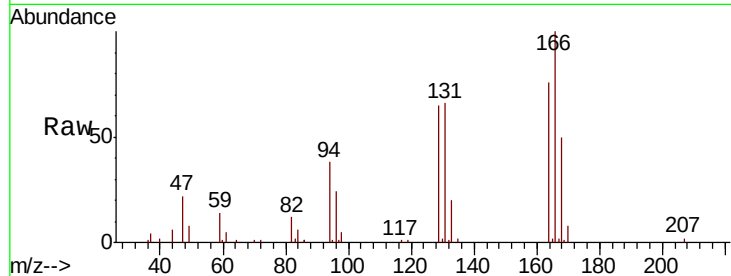




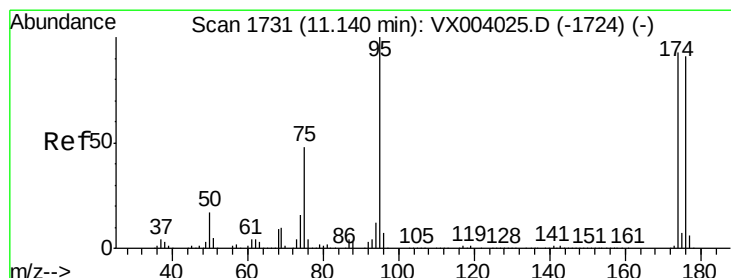
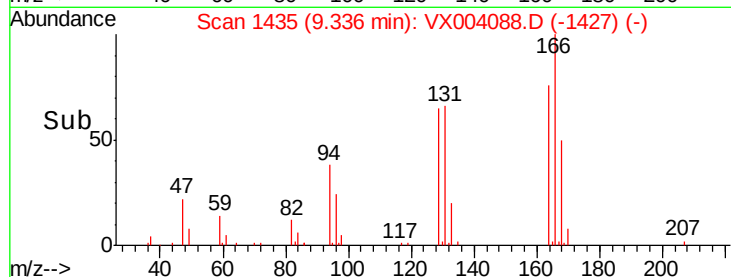
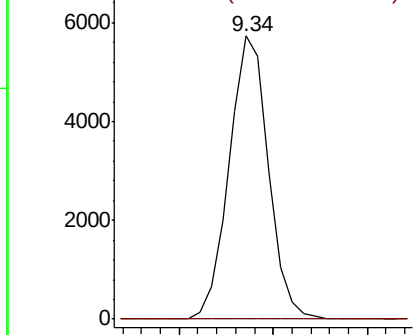
#60
 Dibromochloromethane
 Concen: 2.68 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. -0.25 min
 Lab File: VX004088.D
 Acq: 15 Aug 2018 22:14

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-295-SRI3

Tot Ion:129 Resp: 8252
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.8 116.3#

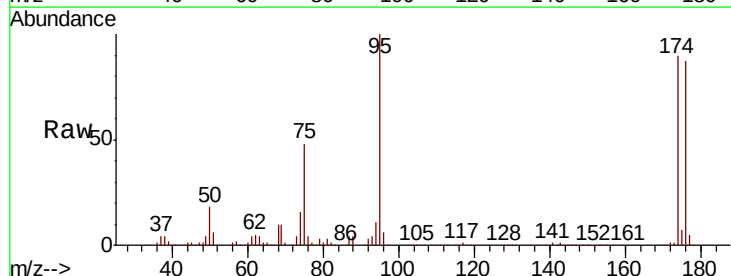


Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V

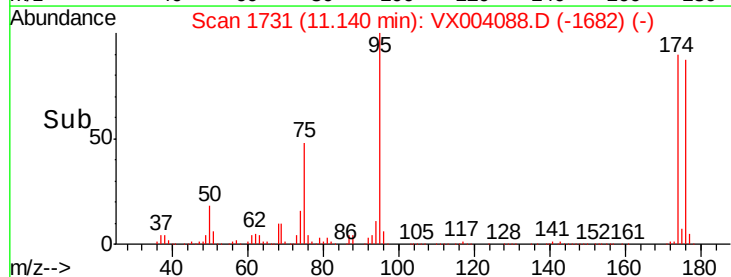
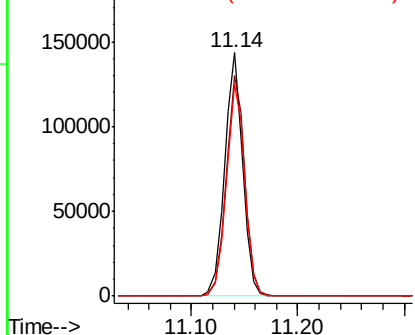


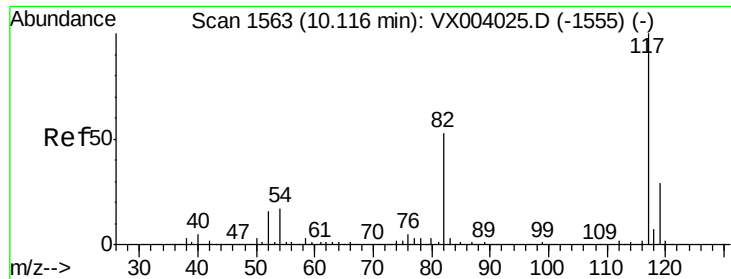
#62
 4-Bromofluorobenzene
 Concen: 43.00 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.00 min
 Lab File: VX004088.D
 Acq: 15 Aug 2018 22:14

Tgt Ion: 95 Resp: 169577
 Ion Ratio Lower Upper
 95 100
 174 94.1 0.0 182.8
 176 89.2 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

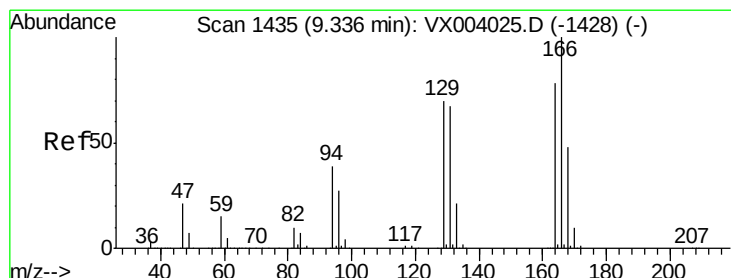
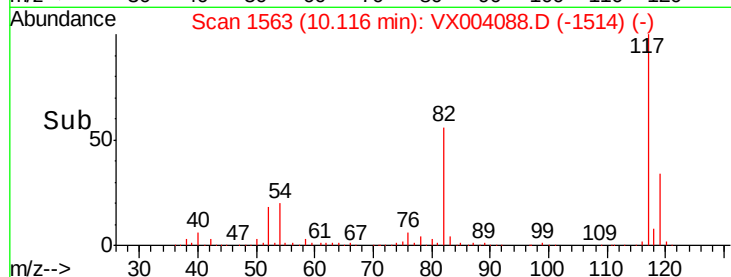
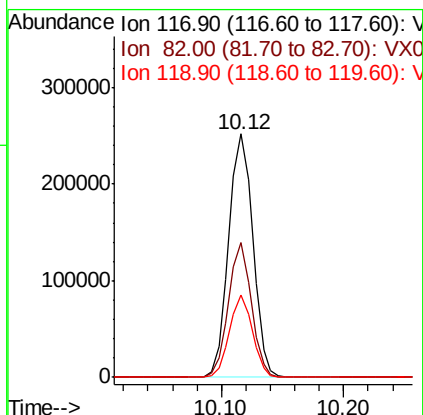
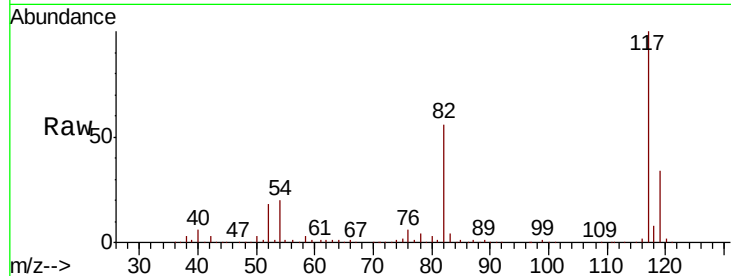




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004088.D
Acq: 15 Aug 2018 22:14

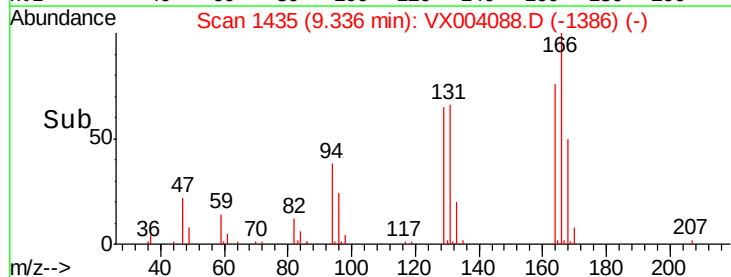
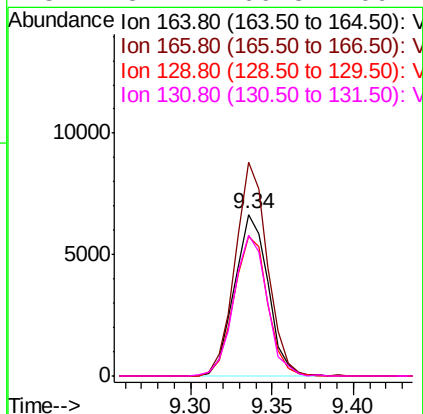
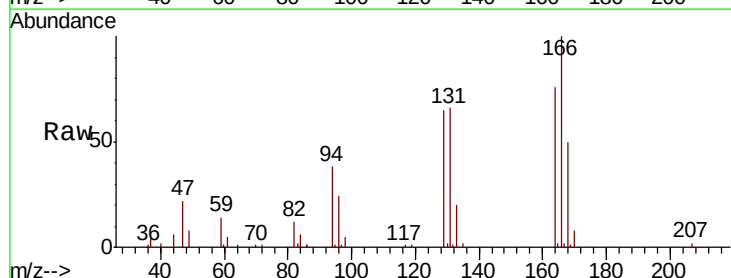
Instrument :
MSVOA_X
ClientSampleId :
MW-295-SRI3

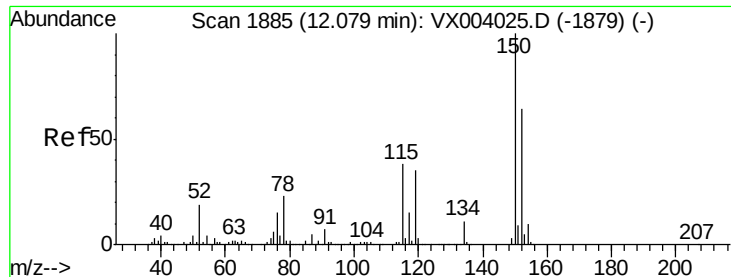
Tot Ion:117 Resp: 344562
Ion Ratio Lower Upper
117 100
82 55.6 45.4 68.0
119 33.7 26.6 40.0



#64
Tetrachloroethene
Concen: 2.92 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VX004088.D
Acq: 15 Aug 2018 22:14

Tgt Ion:164 Resp: 9530
Ion Ratio Lower Upper
164 100
166 132.4 98.0 147.0
129 86.2 64.3 96.5
131 87.2 66.8 100.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

Instrument :

MSVOA_X

ClientSampleId :

MW-295-SRI3

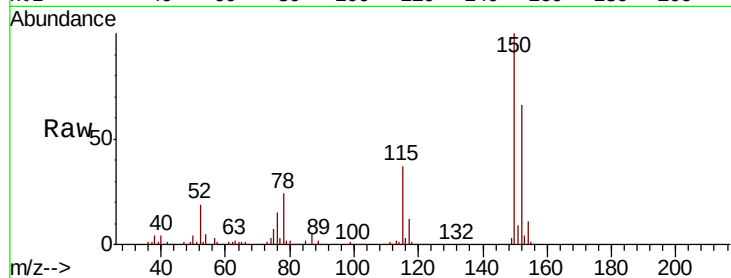
Tot Ion:152 Resp: 182290

Ion Ratio Lower Upper

152 100

115 55.2 39.1 117.3

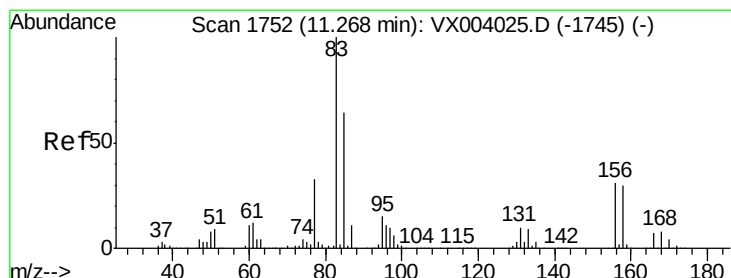
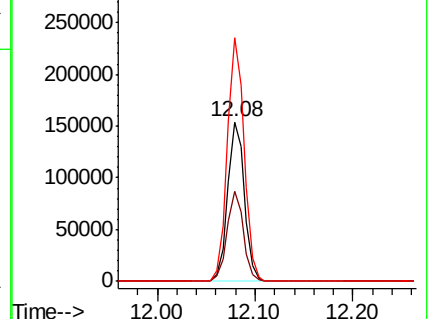
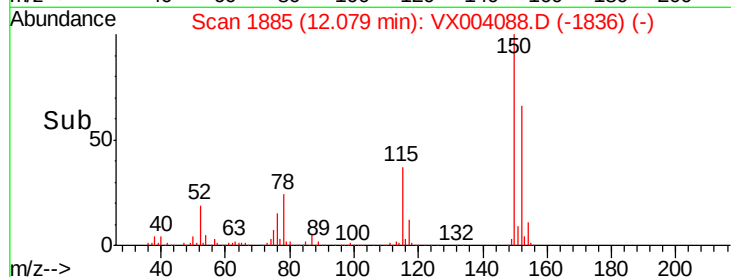
150 153.8 0.0 349.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 0.21 ug/l

RT: 11.27 min Scan# 1752

Delta R.T. -0.00 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

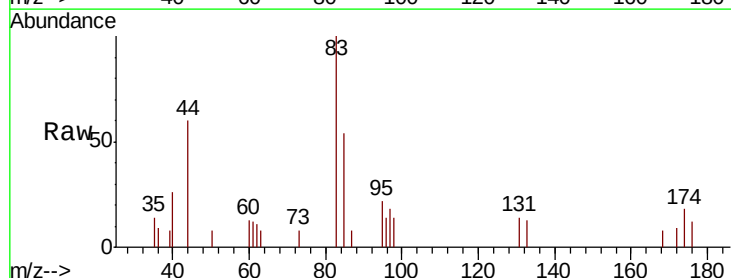
Tgt Ion: 83 Resp: 921

Ion Ratio Lower Upper

83 100

131 9.9 5.2 15.6

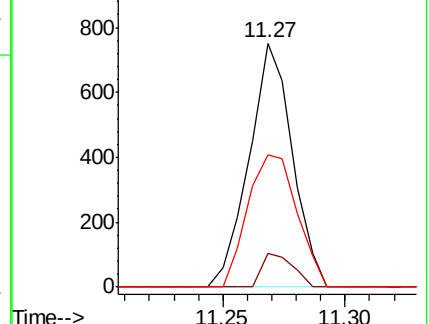
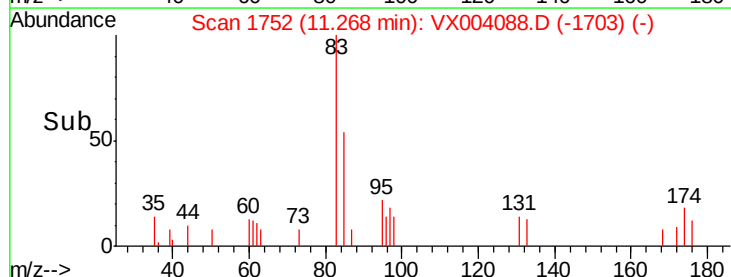
85 61.8 32.2 96.6

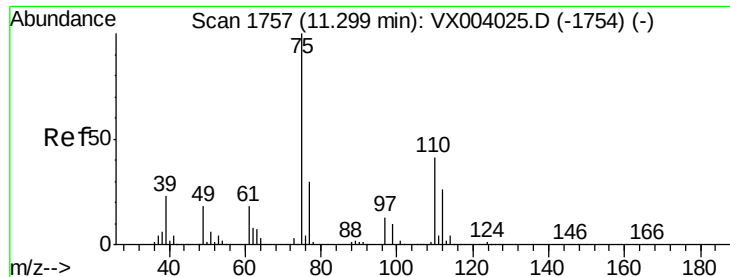


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

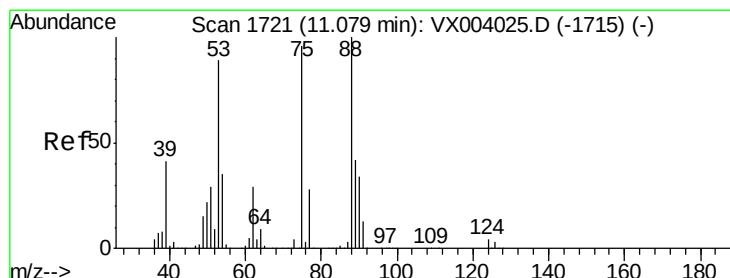
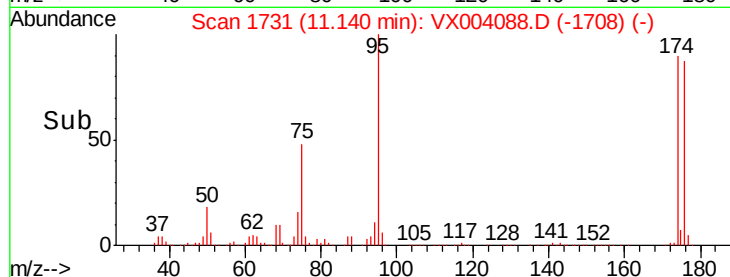
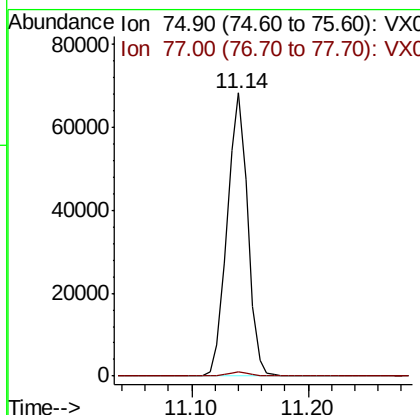
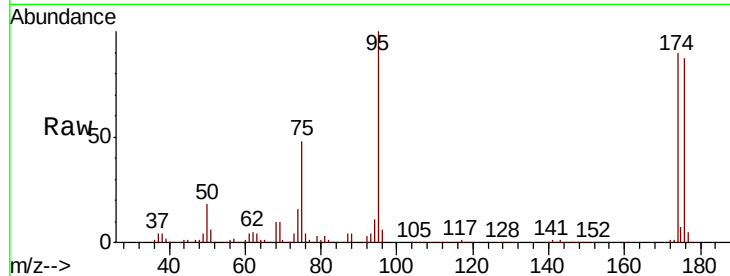




#76
 1,2,3-Trichloropropane
 Concen: 22.91 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX004088.D
 Acq: 15 Aug 2018 22:14

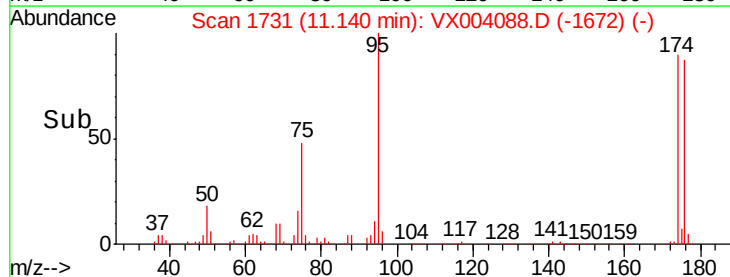
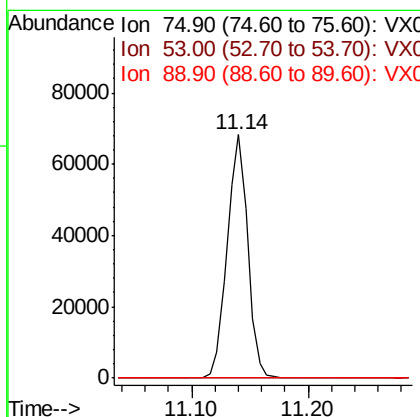
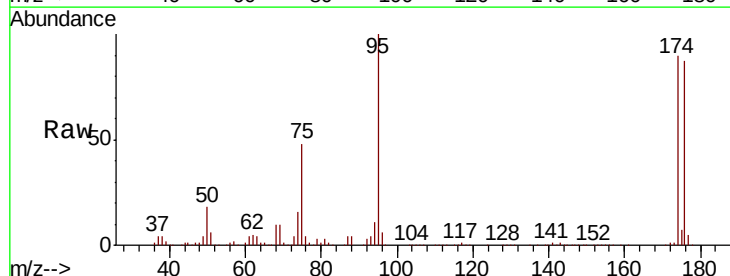
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-295-SRI3

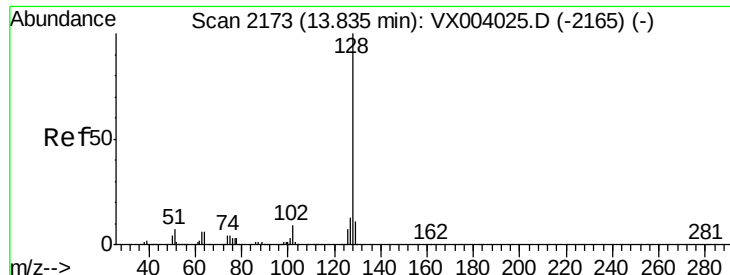
Tot Ion: 75 Resp: 83758
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.92 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX004088.D
 Acq: 15 Aug 2018 22:14

Tgt Ion: 75 Resp: 83758
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.3 120.5#
 89 0.0 37.8 56.8#





#95

Naphthalene

Concen: 1.17 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004088.D

Acq: 15 Aug 2018 22:14

Instrument :

MSVOA_X

ClientSampleId :

MW-295-SRI3

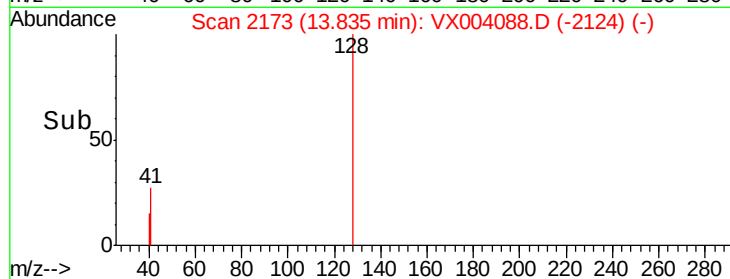
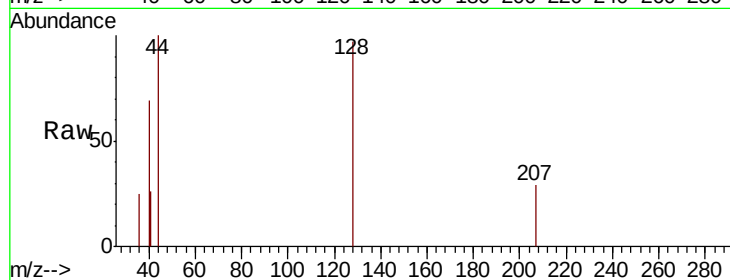
Tot Ion:128 Resp: 298

Ion Ratio Lower Upper

128 100

127 8.4 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

