

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004099.D
 Acq On : 16 Aug 2018 04:01
 Operator : JC/MD
 Sample : J4495-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW109-180814

Quant Time: Aug 16 07:18:44 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	247582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	389064	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	363436	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	195937	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	185848	53.28	ug/l	0.00
Spiked Amount			Recovery	=	106.56%	
35) Dibromofluoromethane	5.51	113	158969	54.59	ug/l	0.00
Spiked Amount			Recovery	=	109.18%	
50) Toluene-d8	8.72	98	557116	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	
62) 4-Bromofluorobenzene	11.14	95	186230	43.49	ug/l	0.00
Spiked Amount			Recovery	=	86.98%	

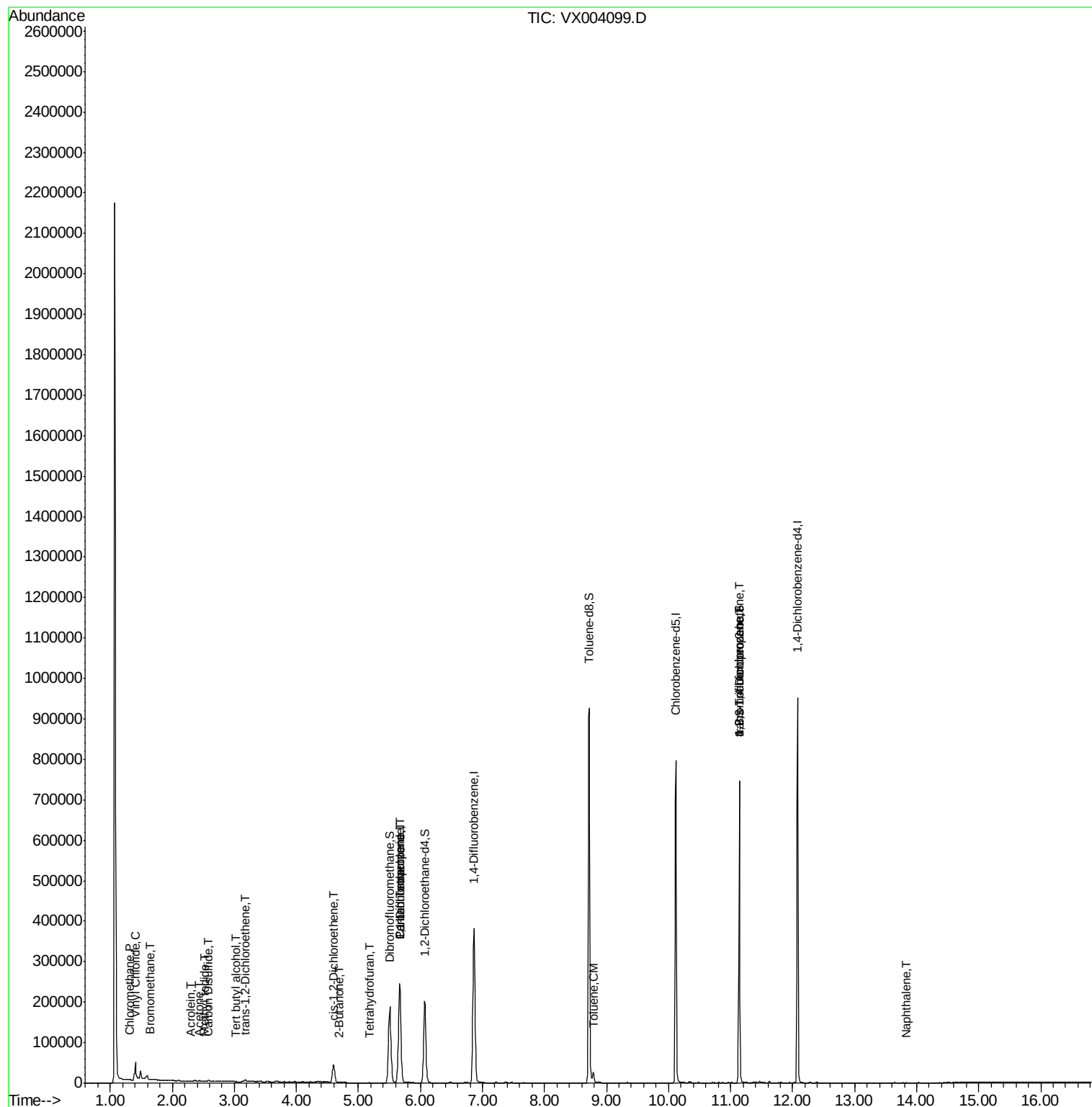
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	681	0.23	ug/l	99
4) Vinyl Chloride	1.40	62	24738	7.73	ug/l #	78
5) Bromomethane	1.65	94	1110	0.51	ug/l	88
6) Chloroethane	1.78	64	199	Below Cal	#	42
10) Methyl Iodide	2.51	142	741	5.23	ug/l #	92
11) Tert butyl alcohol	3.03	59	462	0.66	ug/l #	73
13) Acrolein	2.29	56	157	11.26	ug/l	88
16) Acetone	2.43	43	1991	1.10	ug/l	99
17) Carbon Disulfide	2.57	76	1940	0.26	ug/l #	85
20) Methylene Chloride	2.87	84	186	Below Cal	#	57
21) trans-1,2-Dichloroethene	3.17	96	1624	0.55	ug/l	85
25) 2-Butanone	4.69	43	1467	0.50	ug/l #	89
27) cis-1,2-Dichloroethene	4.60	96	28513	8.57	ug/l	90
29) Tetrahydrofuran	5.18	42	423	0.28	ug/l #	44
36) 1,1-Dichloropropene	5.67	75	16915	3.82	ug/l #	49
38) Carbon Tetrachloride	5.66	117	22445	5.22	ug/l #	16
52) Toluene	8.79	92	8134	0.97	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	92012	23.42	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	92012	72.49	ug/l #	9
95) Naphthalene	13.83	128	537	1.18	ug/l #	81

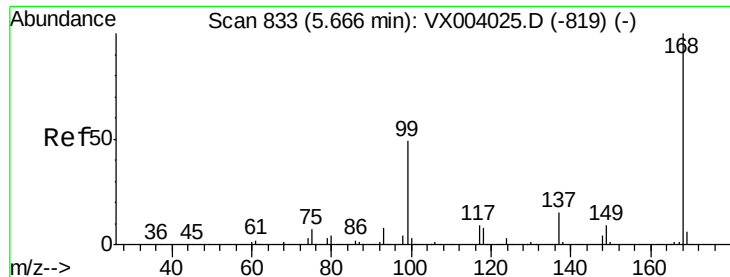
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX004099.D

Acq: 16 Aug 2018 04:01

Instrument :

MSVOA_X

ClientSampleId :

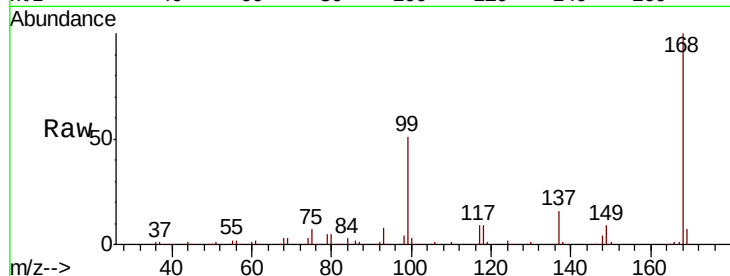
SS050MW109-180814

Tot Ion:168 Resp: 247582

Ion Ratio Lower Upper

168 100

99 51.5 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

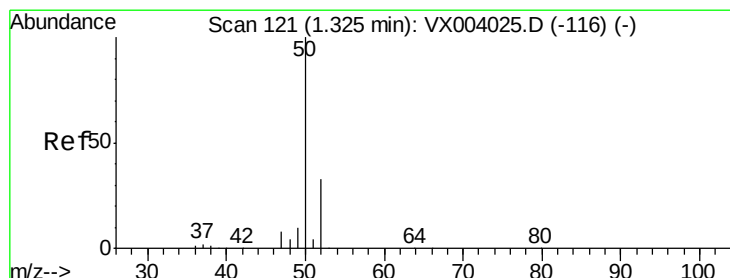
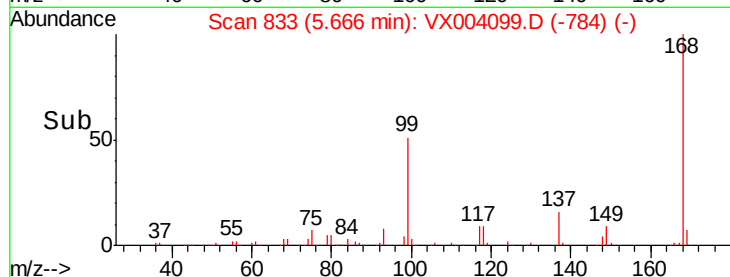
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004099.D

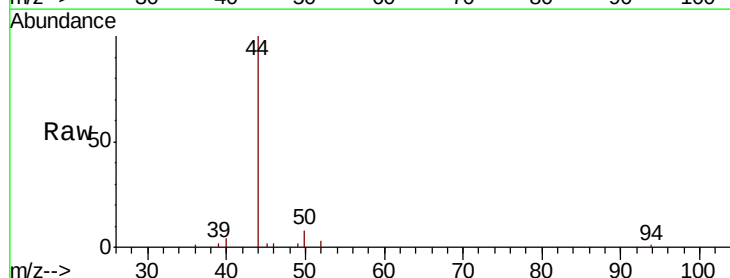
Acq: 16 Aug 2018 04:01

Tgt Ion: 50 Resp: 681

Ion Ratio Lower Upper

50 100

52 33.8 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

500

400

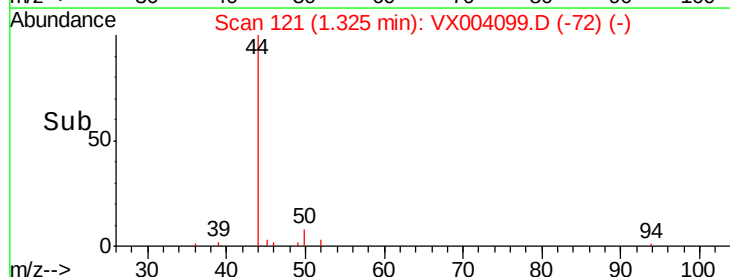
300

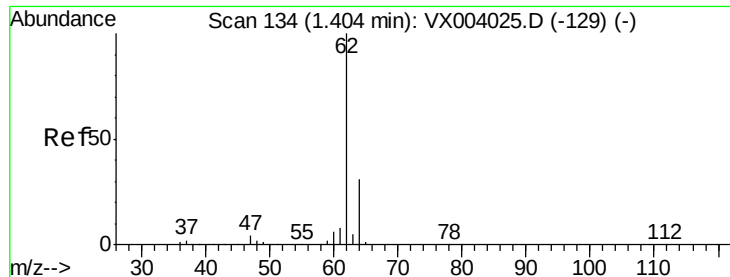
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 7.73 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX004099.D

Acq: 16 Aug 2018 04:01

Instrument :

MSVOA_X

ClientSampleId :

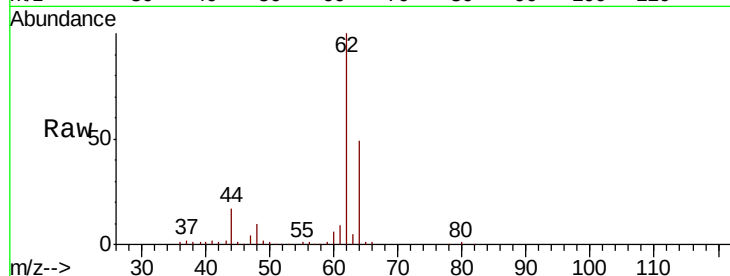
SS050MW109-180814

Tot Ion: 62 Resp: 24738

Ion Ratio Lower Upper

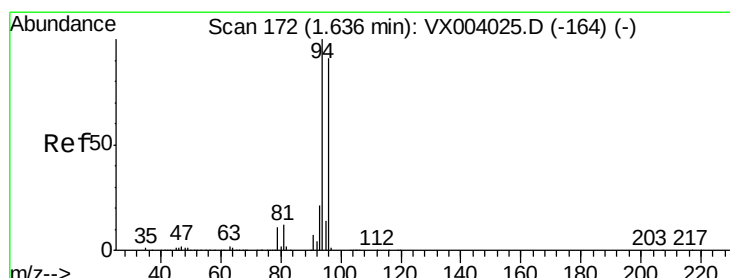
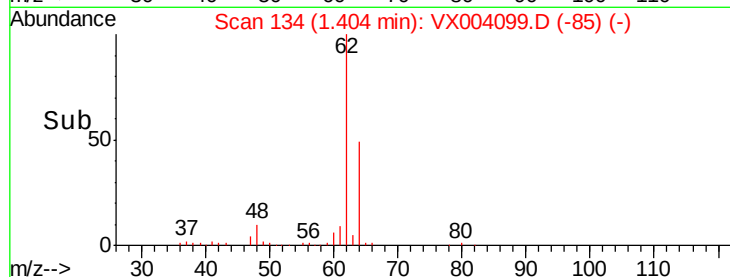
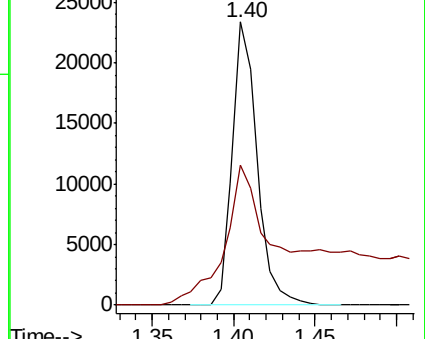
62 100

64 44.6 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.51 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004099.D

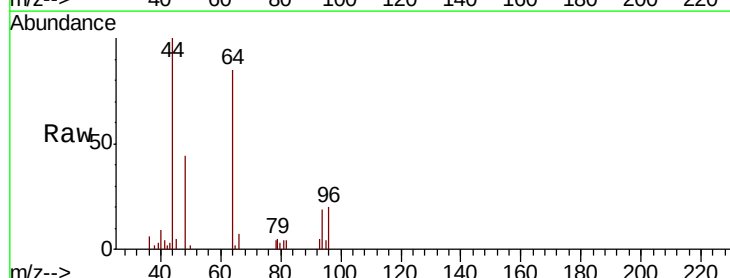
Acq: 16 Aug 2018 04:01

Tgt Ion: 94 Resp: 1110

Ion Ratio Lower Upper

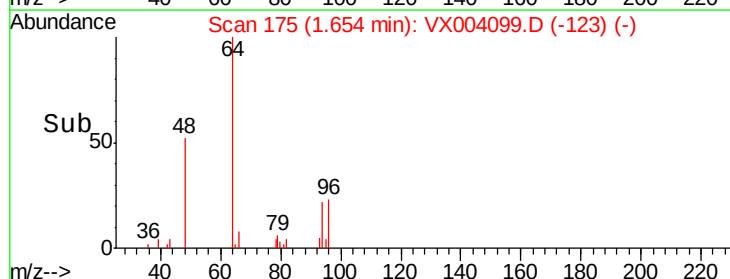
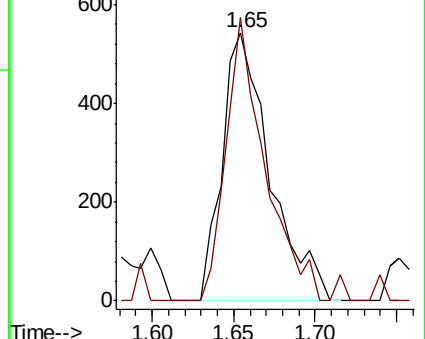
94 100

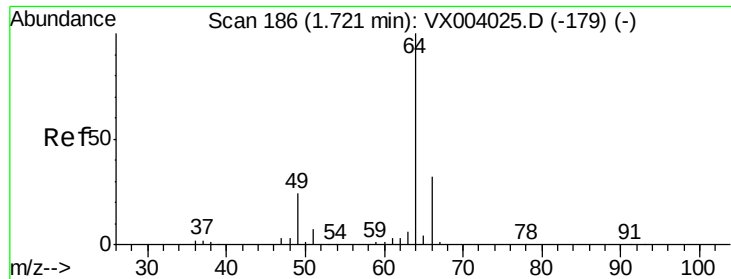
96 105.3 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.78 min Scan# 195

Delta R.T. 0.06 min

Lab File: VX004099.D

Acq: 16 Aug 2018 04:01

Instrument :

MSVOA_X

ClientSampleId :

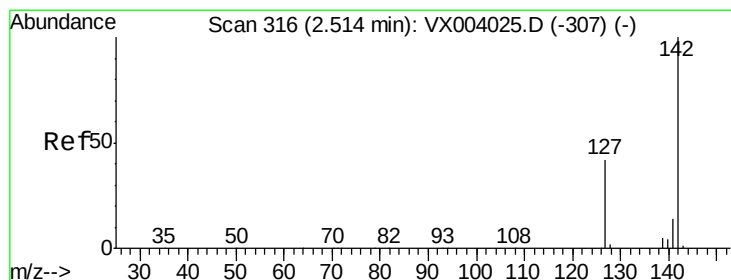
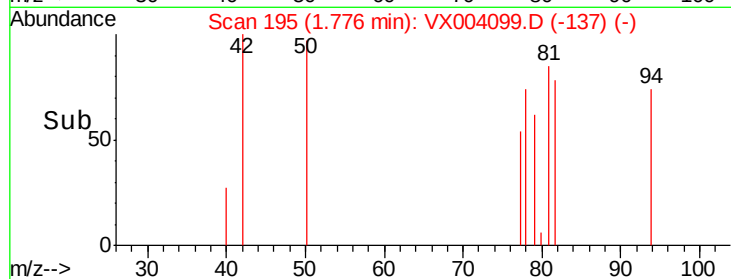
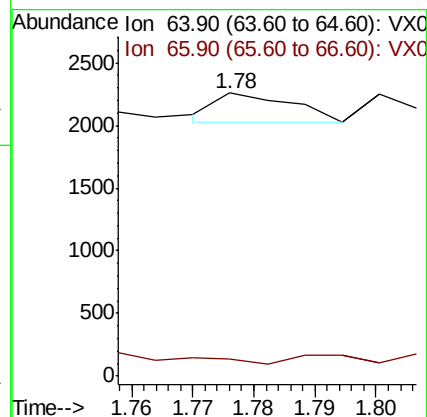
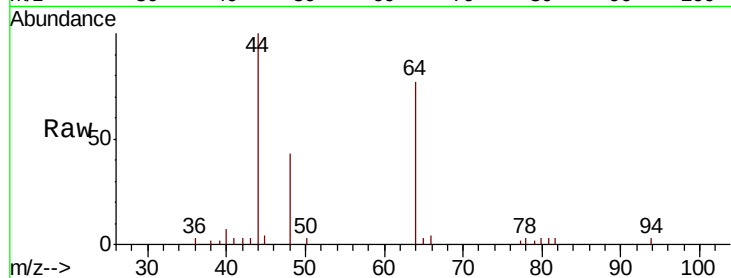
SS050MW109-180814

Tot Ion: 64 Resp: 199

Ion Ratio Lower Upper

64 100

66 0.0 26.5 39.7#



#10

Methyl Iodide

Concen: 5.23 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX004099.D

Acq: 16 Aug 2018 04:01

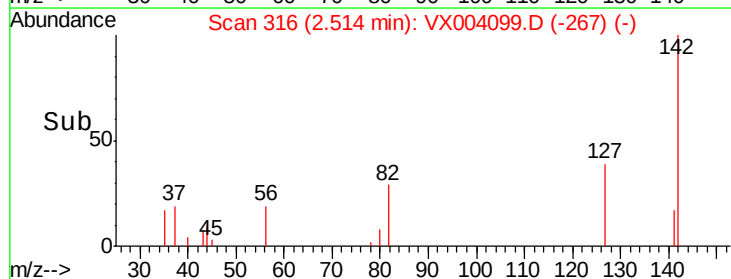
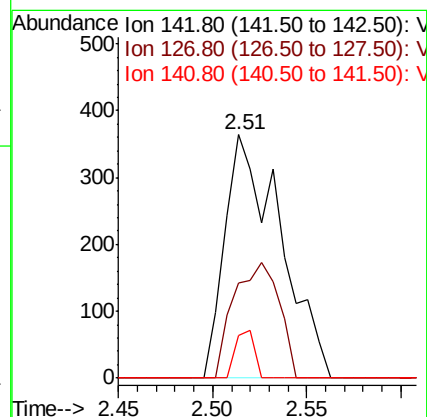
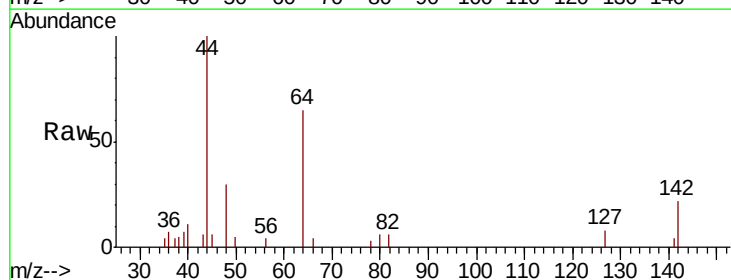
Tgt Ion:142 Resp: 741

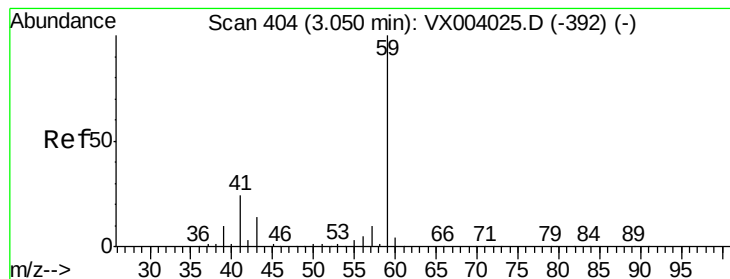
Ion Ratio Lower Upper

142 100

127 38.9 33.1 49.7

141 6.6 11.1 16.7#





#11

Tert butyl alcohol

Concen: 0.66 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.02 min

Lab File: VX004099.D

Acq: 16 Aug 2018 04:01

Instrument :

MSVOA_X

ClientSampleId :

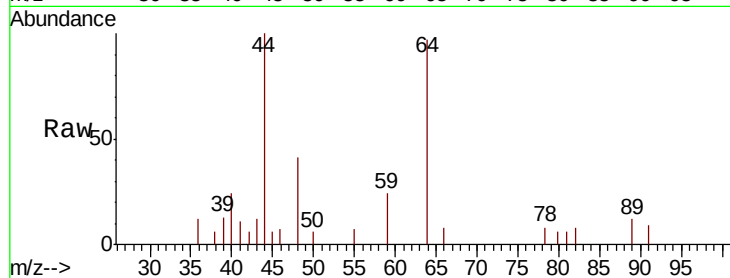
SS050MW109-180814

Tot Ion: 59 Resp: 462

Ion Ratio Lower Upper

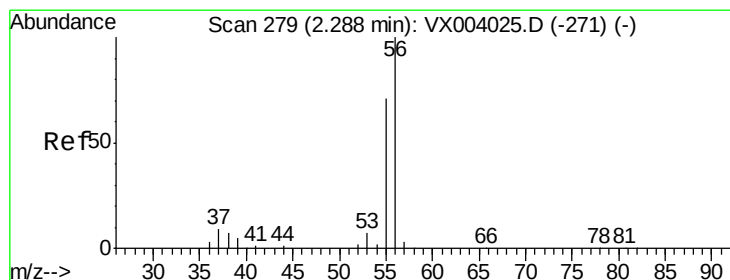
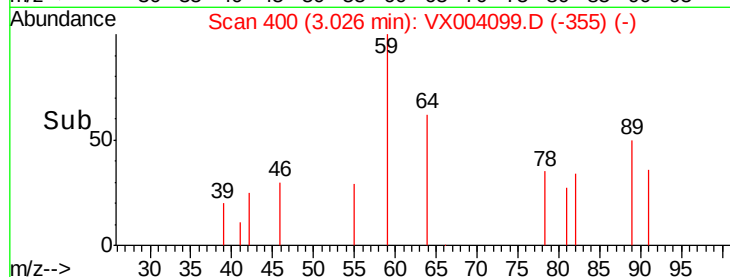
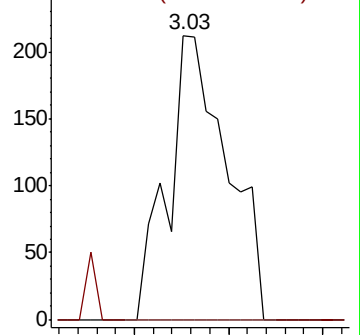
59 100

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



#13

Acrolein

Concen: 11.26 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004099.D

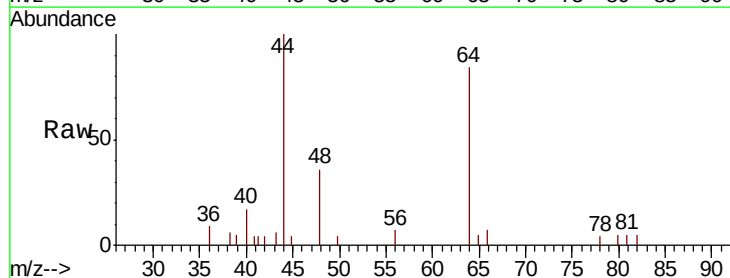
Acq: 16 Aug 2018 04:01

Tgt Ion: 56 Resp: 157

Ion Ratio Lower Upper

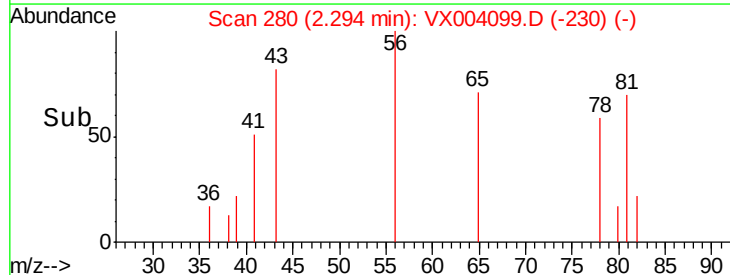
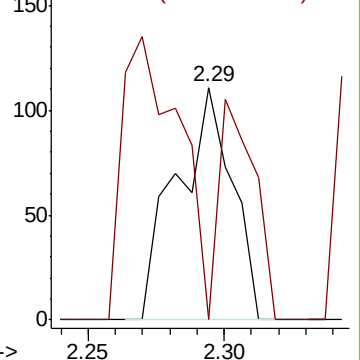
56 100

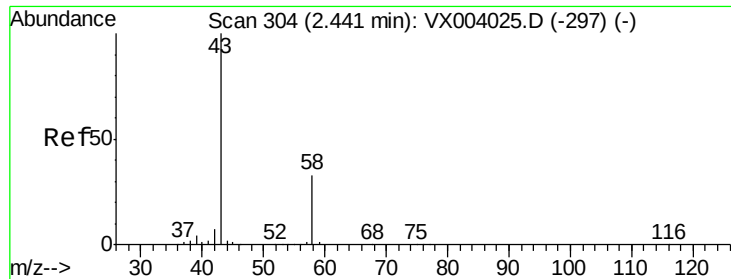
55 60.5 56.1 84.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.10 ug/l

RT: 2.43 min Scan# 303

Delta R.T. -0.01 min

Lab File: VX004099.D

Acq: 16 Aug 2018 04:01

Instrument :

MSVOA_X

ClientSampleId :

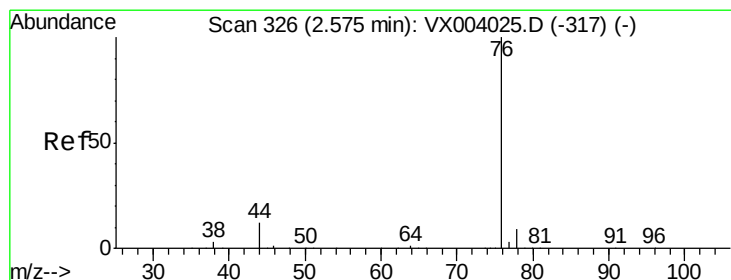
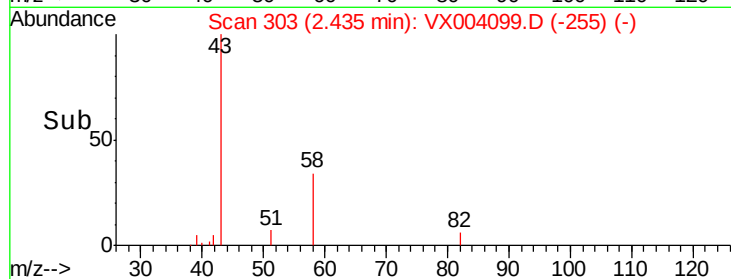
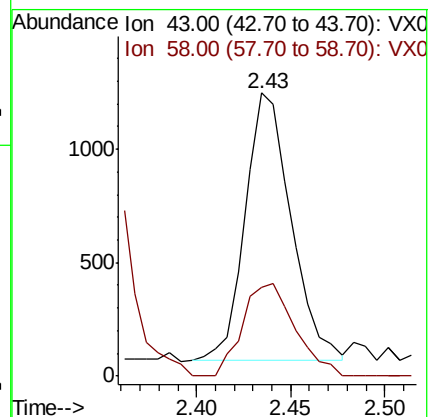
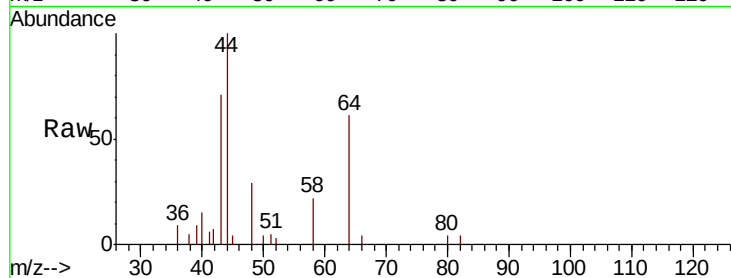
SS050MW109-180814

Tot Ion: 43 Resp: 1991

Ion Ratio Lower Upper

43 100

58 33.4 26.4 39.6



#17

Carbon Disulfide

Concen: 0.26 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX004099.D

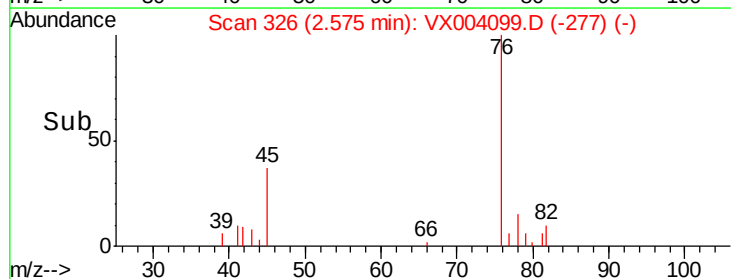
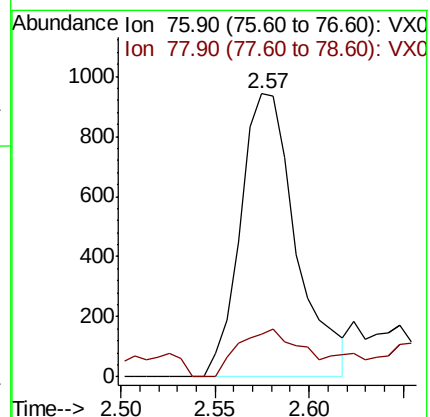
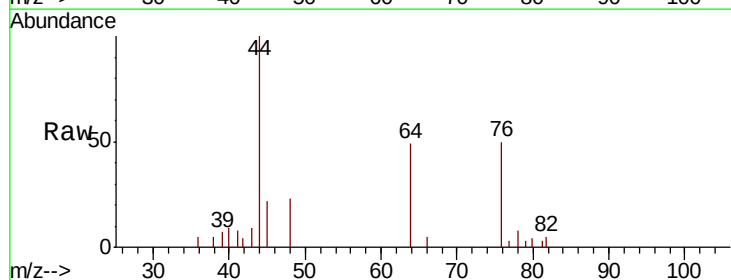
Acq: 16 Aug 2018 04:01

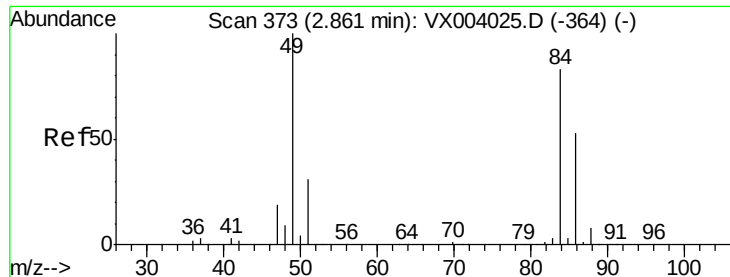
Tgt Ion: 76 Resp: 1940

Ion Ratio Lower Upper

76 100

78 15.0 7.5 11.3#

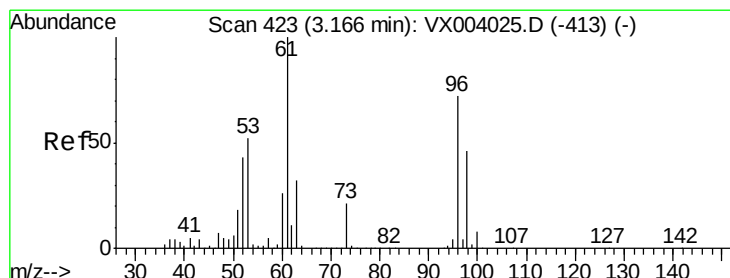
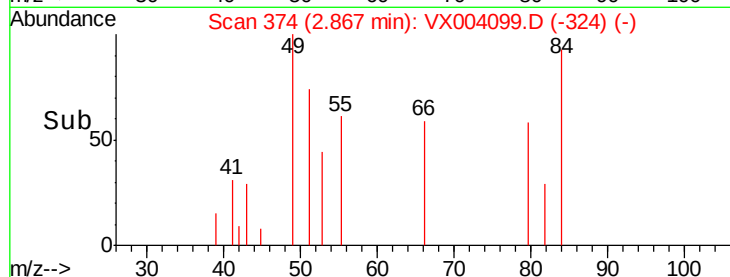
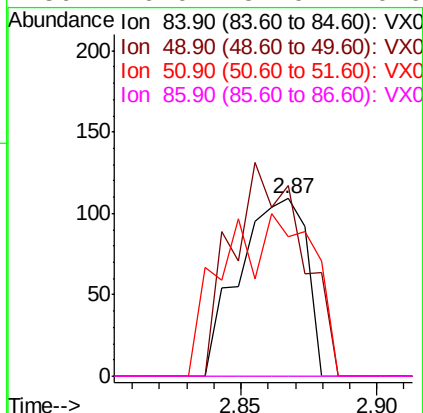
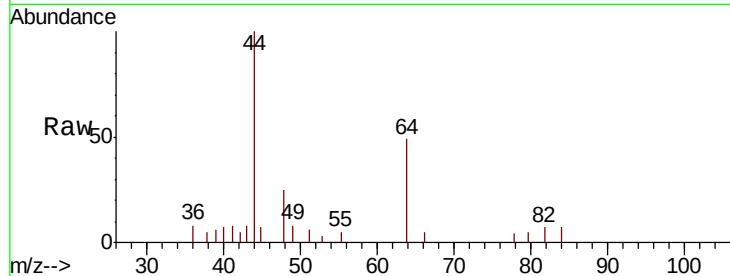




#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX004099.D
Acq: 16 Aug 2018 04:01

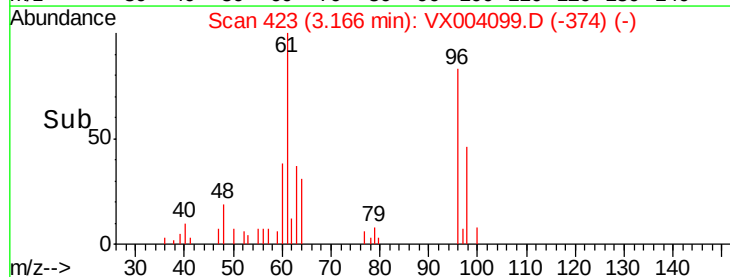
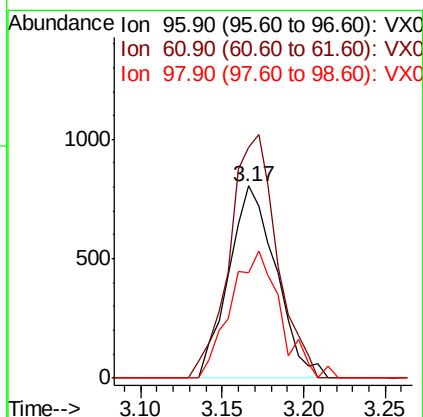
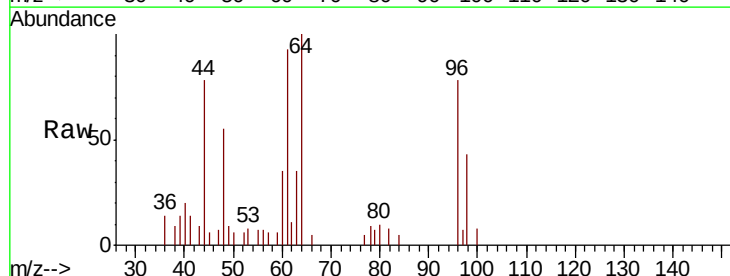
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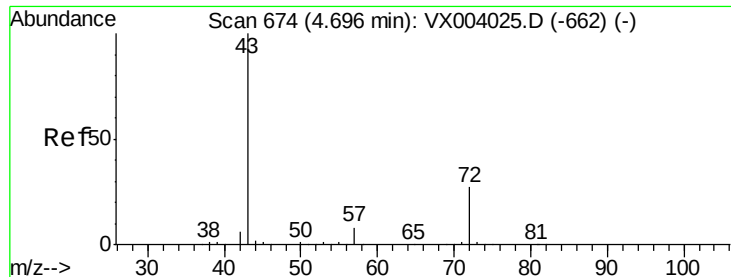
Tot Ion: 84 Resp: 186
Ion Ratio Lower Upper
84 100
49 107.3 98.9 148.3
51 78.9 29.9 44.9#
86 0.0 51.0 76.6#



#21
trans-1,2-Dichloroethene
Concen: 0.55 ug/l
RT: 3.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX004099.D
Acq: 16 Aug 2018 04:01

Tgt Ion: 96 Resp: 1624
Ion Ratio Lower Upper
96 100
61 120.0 111.8 167.6
98 54.9 51.8 77.6





#25

2-Butanone

Concen: 0.50 ug/l

RT: 4.69 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX004099.D

Acq: 16 Aug 2018 04:01

Instrument :

MSVOA_X

ClientSampleId :

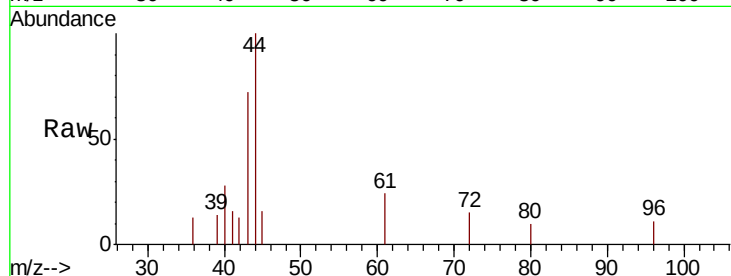
SS050MW109-180814

Tot Ion: 43 Resp: 1467

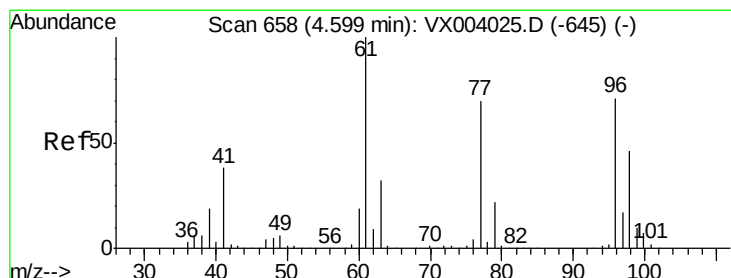
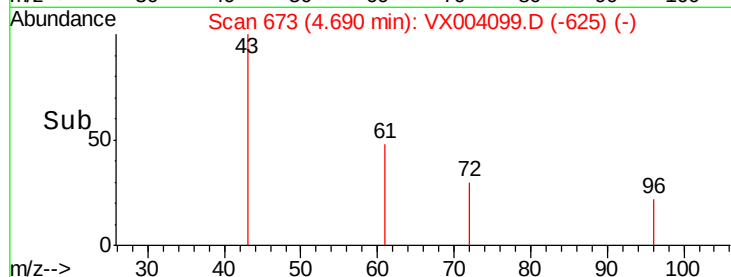
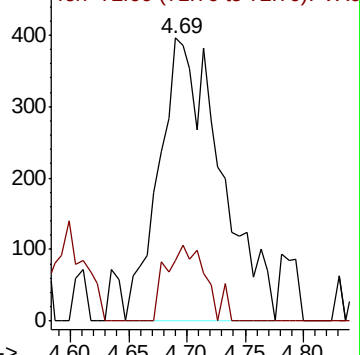
Ion Ratio Lower Upper

43 100

72 21.2 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 8.57 ug/l

RT: 4.60 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX004099.D

Acq: 16 Aug 2018 04:01

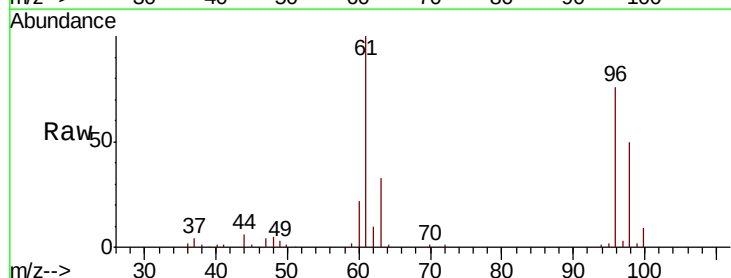
Tgt Ion: 96 Resp: 28513

Ion Ratio Lower Upper

96 100

61 130.6 0.0 293.0

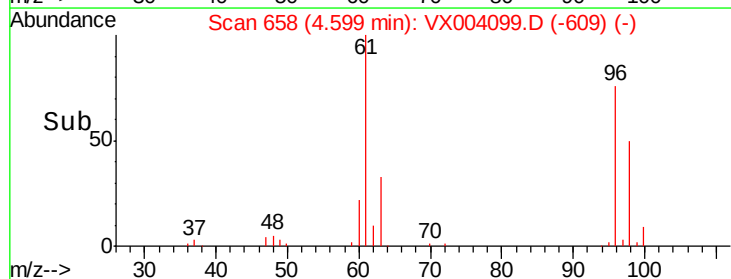
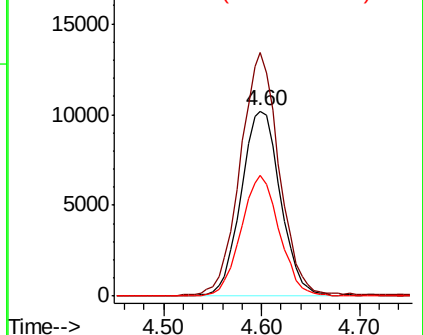
98 63.4 0.0 131.8

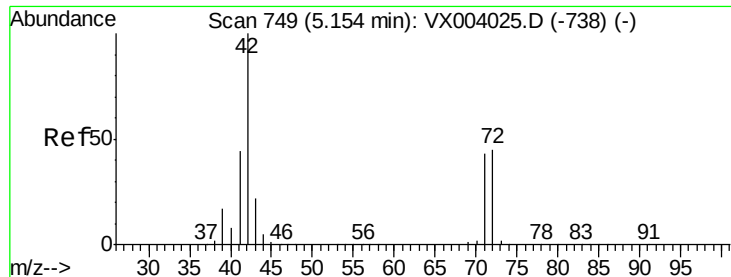


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 0.28 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.02 min

Lab File: VX004099.D

Acq: 16 Aug 2018 04:01

Instrument :

MSVOA_X

ClientSampleId :

SS050MW109-180814

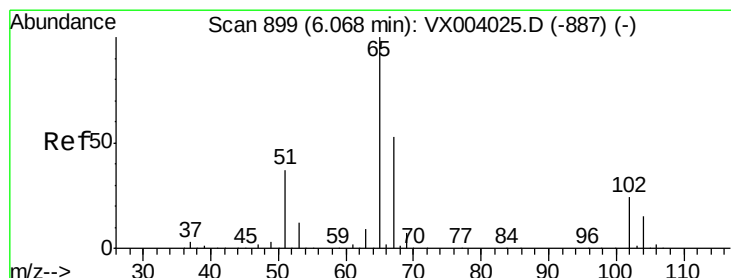
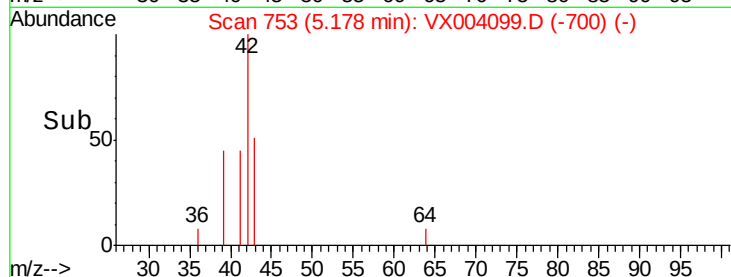
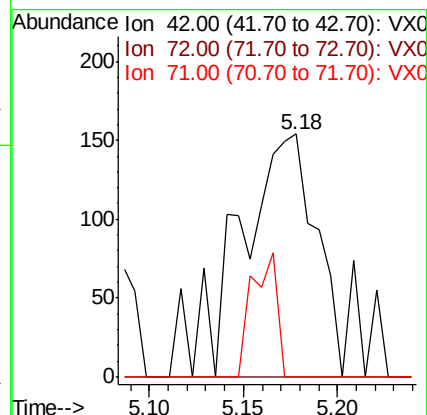
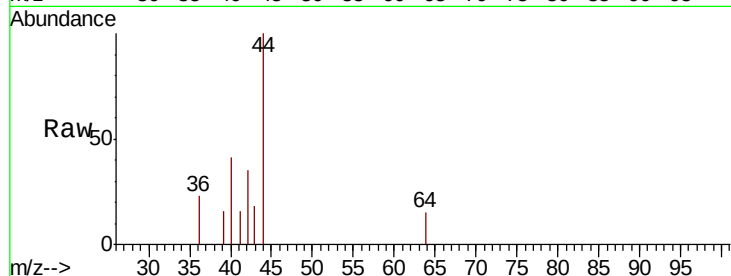
Tot Ion: 42 Resp: 423

Ion Ratio Lower Upper

42 100

72 0.0 37.7 56.5#

71 17.3 35.0 52.6#



#33

1,2-Dichloroethane-d4

Concen: 53.28 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX004099.D

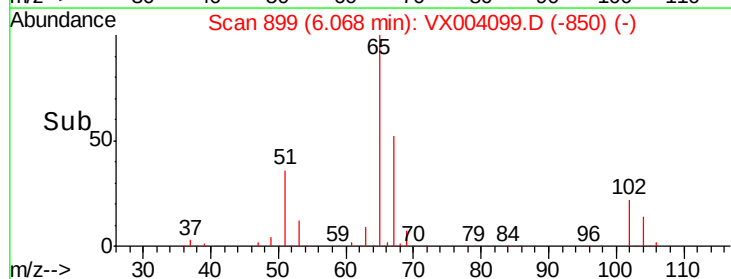
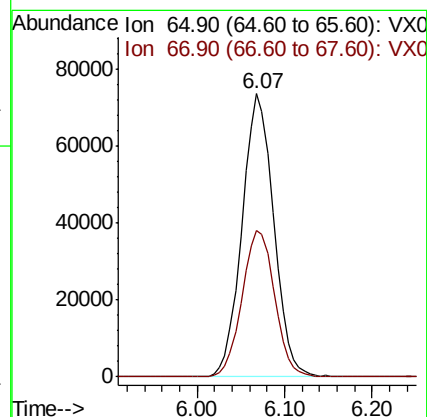
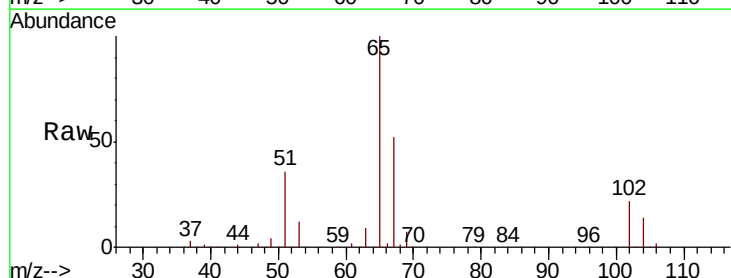
Acq: 16 Aug 2018 04:01

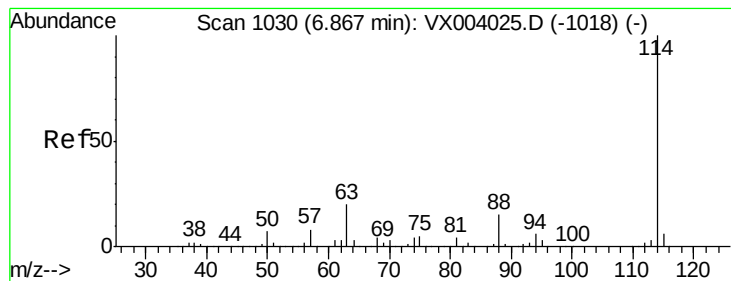
Tgt Ion: 65 Resp: 185848

Ion Ratio Lower Upper

65 100

67 53.3 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: VX004099.D

Acq: 16 Aug 2018 04:01

Instrument :

MSVOA_X

ClientSampleId :

SS050MW109-180814

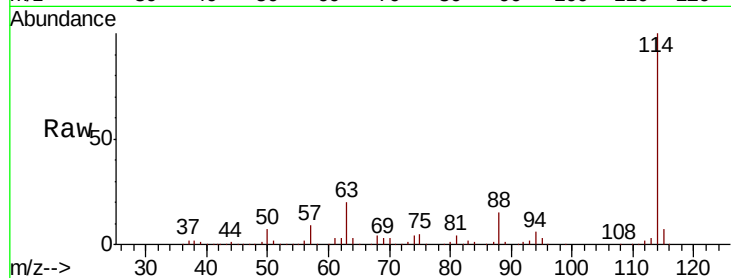
Tot Ion:114 Resp: 389064

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

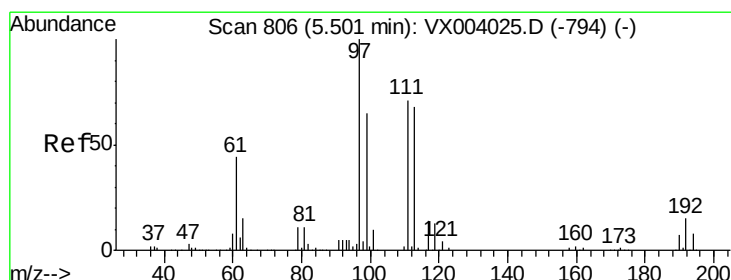
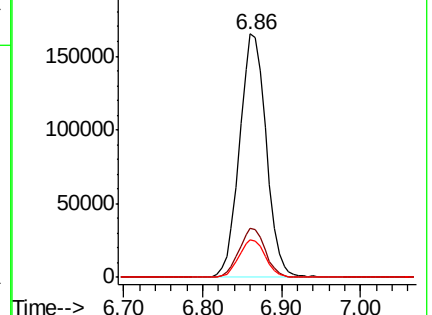
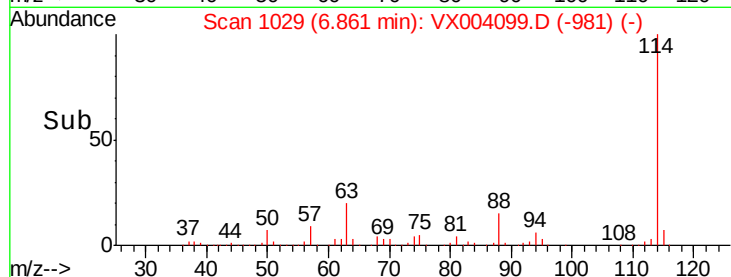
88 15.2 0.0 32.0



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: 54.59 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004099.D

Acq: 16 Aug 2018 04:01

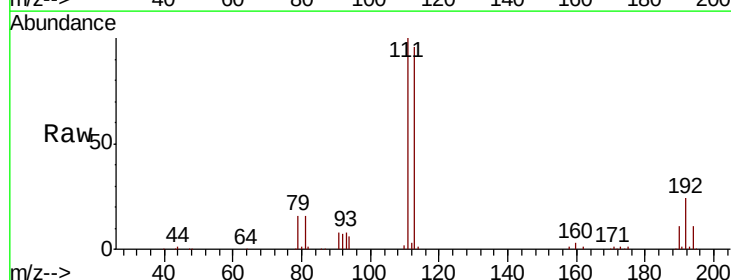
Tgt Ion:113 Resp: 158969

Ion Ratio Lower Upper

113 100

111 102.9 82.0 123.0

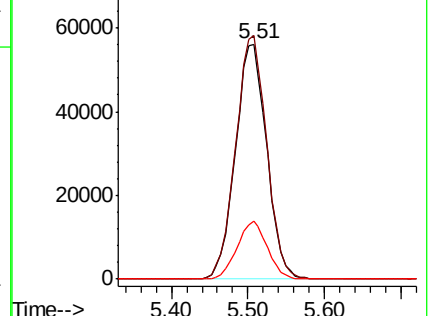
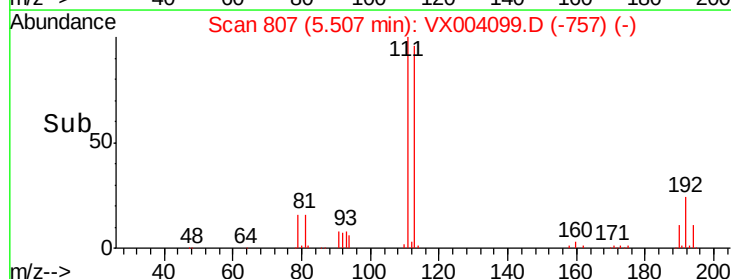
192 23.8 19.0 28.4

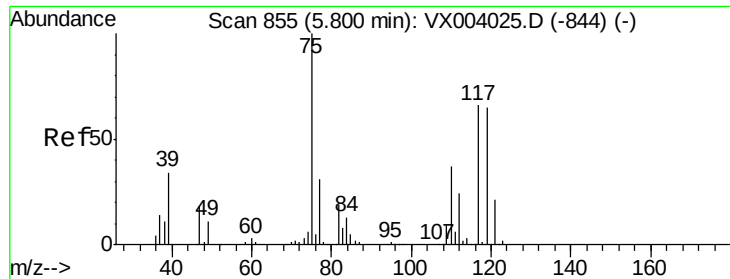


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

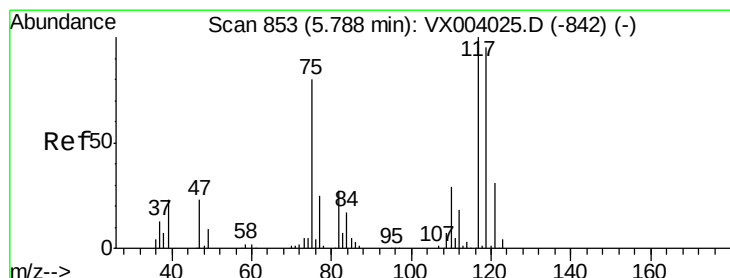
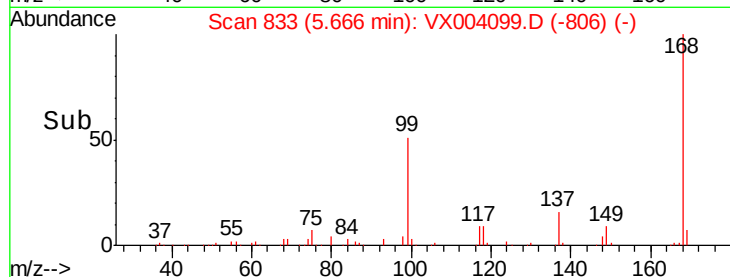
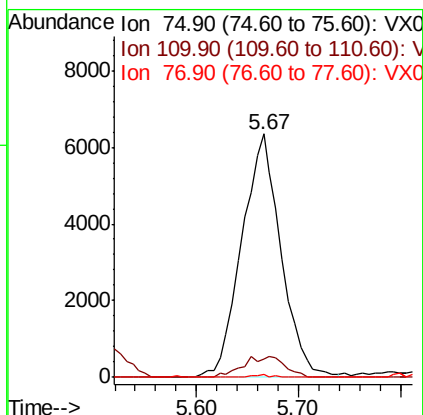
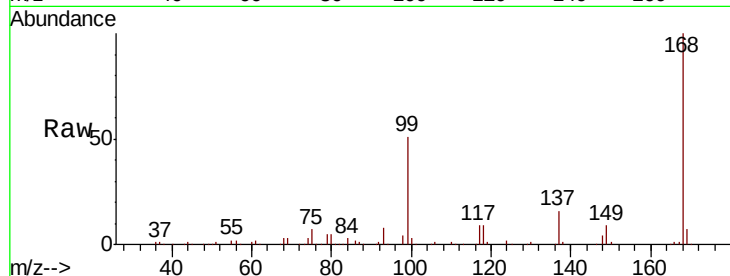




#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004099.D
 Acq: 16 Aug 2018 04:01

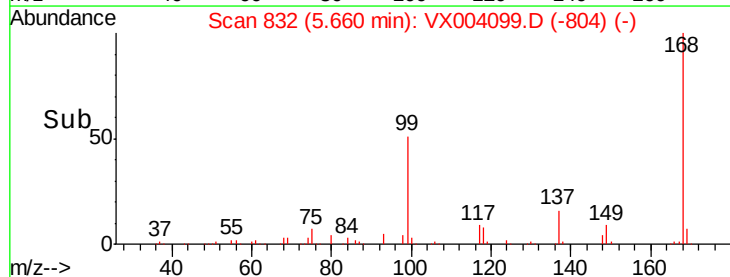
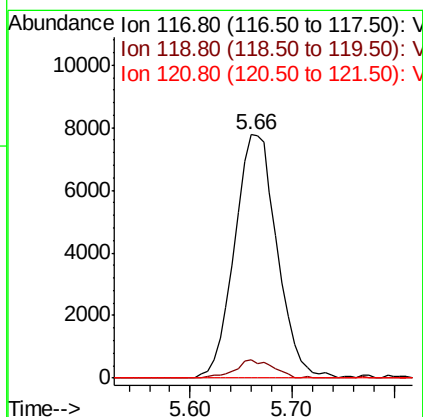
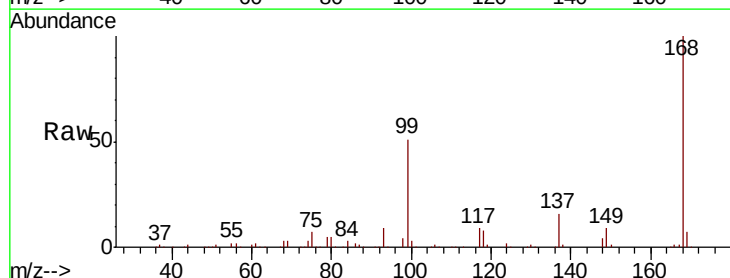
Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW109-180814

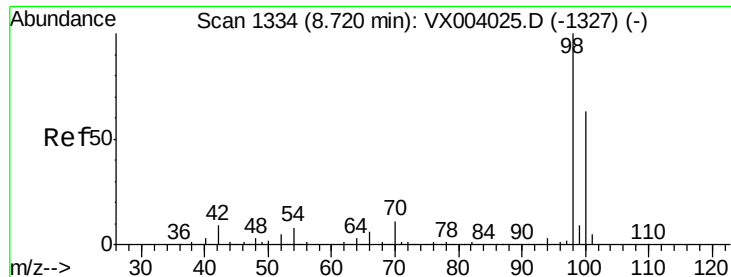
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.2	54.6#
77	0.5	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.22 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.13 min
 Lab File: VX004099.D
 Acq: 16 Aug 2018 04:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.7	79.5	119.3#
121	0.0	25.0	37.4#

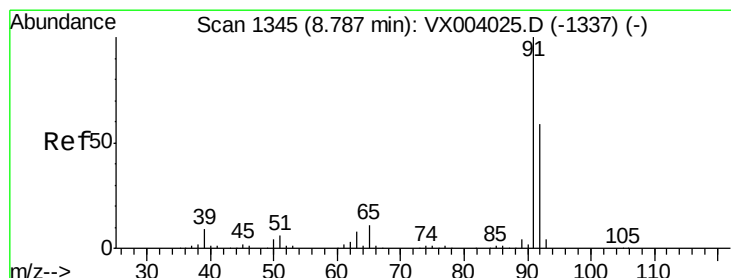
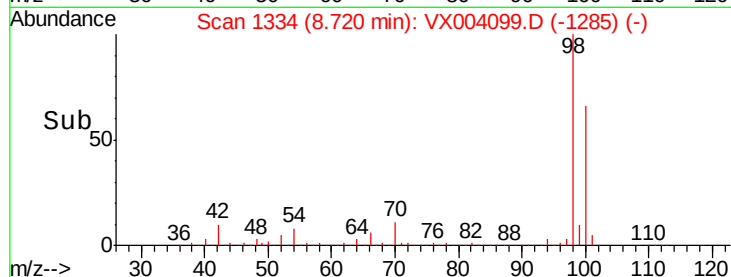
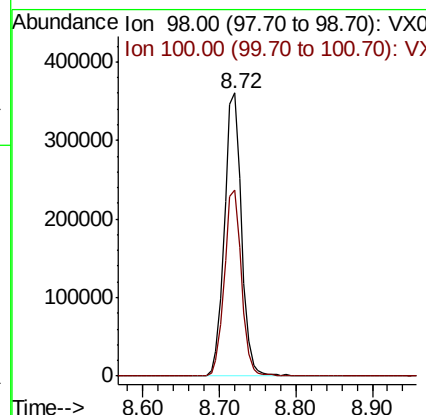
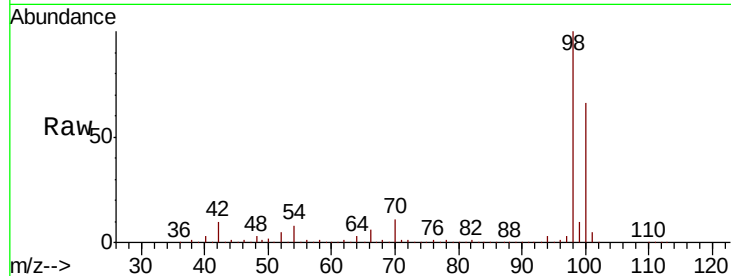




#50
Toluene-d8
Concen: 47.19 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX004099.D
Acq: 16 Aug 2018 04:01

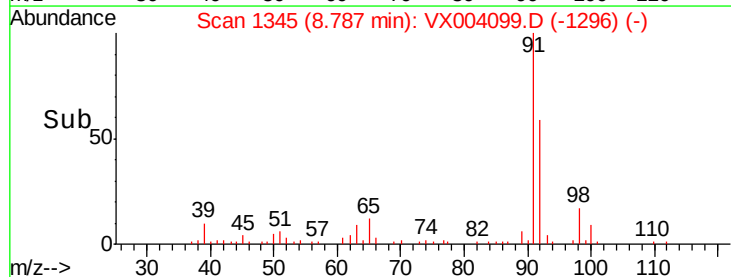
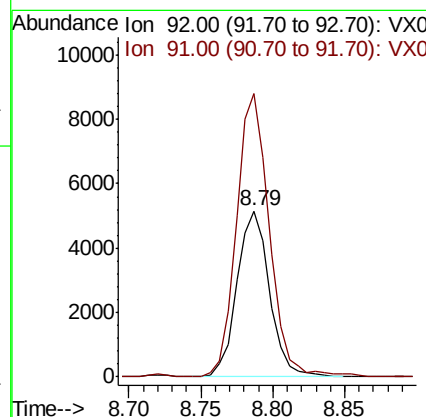
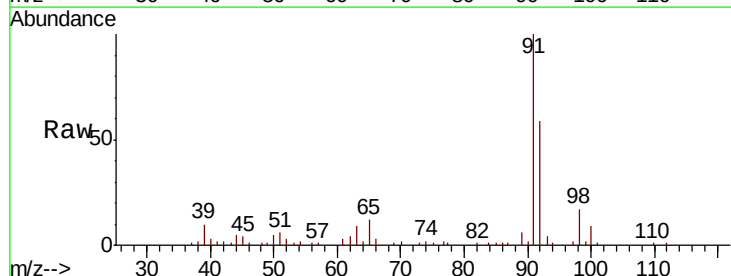
Instrument :
MSVOA_X
ClientSampleId :
SS050MW109-180814

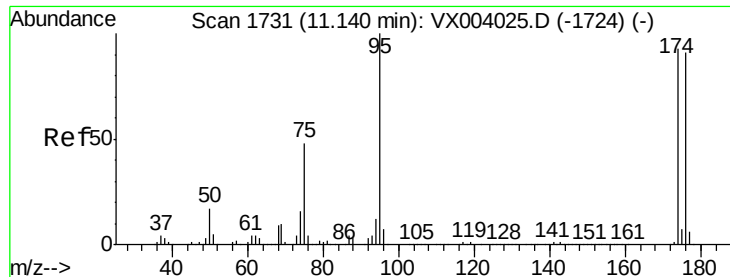
Tot Ion: 98 Resp: 557116
Ion Ratio Lower Upper
98 100
100 65.9 53.3 79.9



#52
Toluene
Concen: 0.97 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. 0.00 min
Lab File: VX004099.D
Acq: 16 Aug 2018 04:01

Tgt Ion: 92 Resp: 8134
Ion Ratio Lower Upper
92 100
91 172.2 136.1 204.1

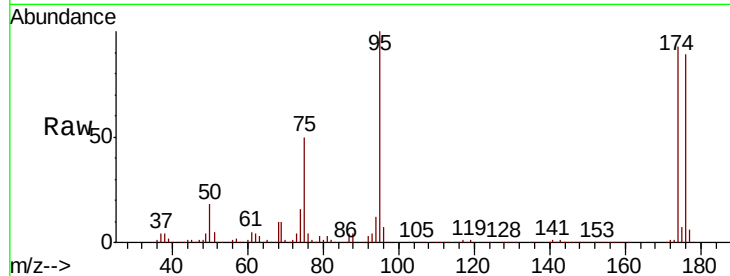




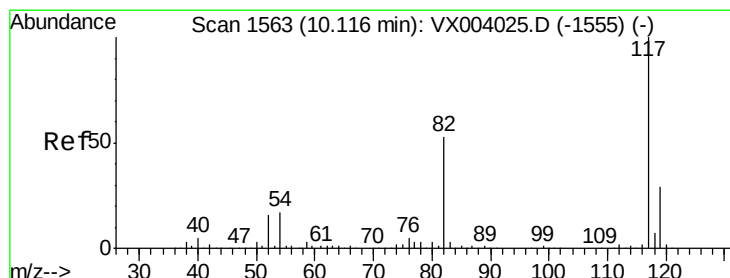
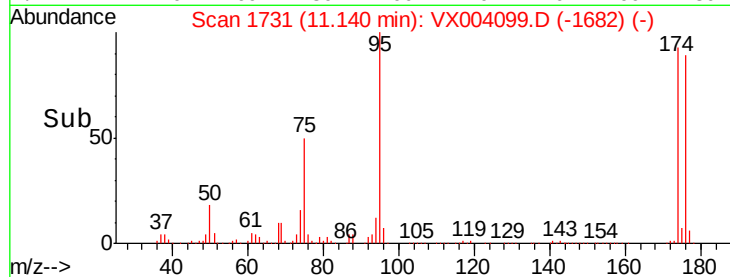
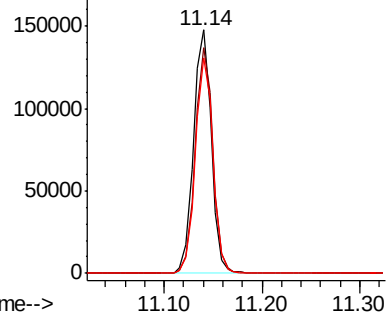
#62
4-Bromofluorobenzene
Concen: 43.49 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX004099.D
Acq: 16 Aug 2018 04:01

Instrument :
MSVOA_X
ClientSampleId :
SS050MW109-180814

Tot Ion: 95 Resp: 186230
Ion Ratio Lower Upper
95 100
174 92.2 0.0 182.8
176 88.0 0.0 179.0

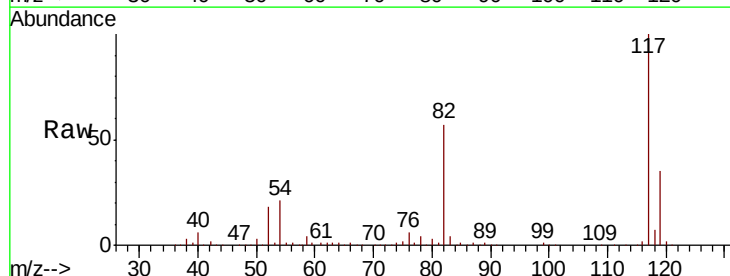


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

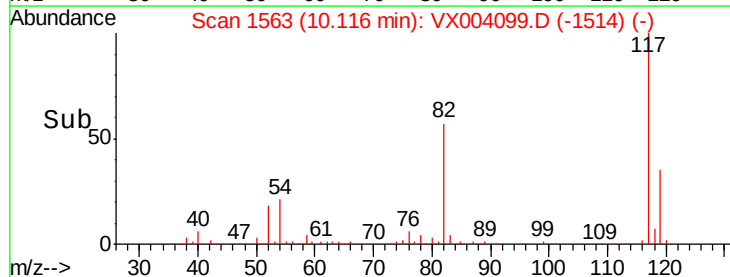
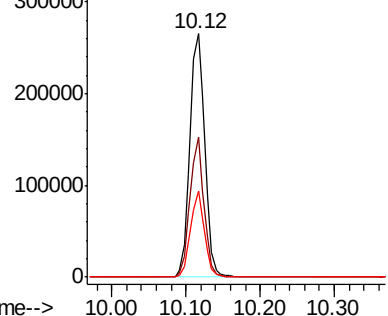


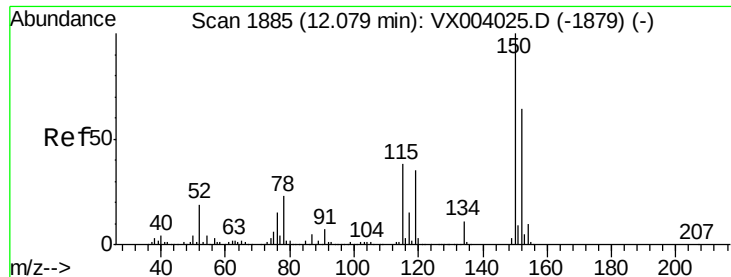
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX004099.D
Acq: 16 Aug 2018 04:01

Tgt Ion: 117 Resp: 363436
Ion Ratio Lower Upper
117 100
82 57.5 45.4 68.0
119 35.1 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: VX004099.D

Acq: 16 Aug 2018 04:01

Instrument :

MSVOA_X

ClientSampleId :

SS050MW109-180814

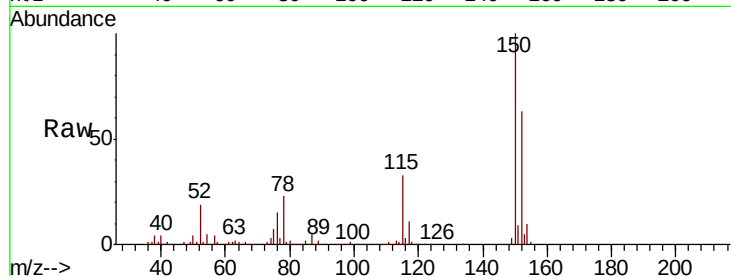
Tot Ion:152 Resp: 195937

Ion Ratio Lower Upper

152 100

115 54.6 39.1 117.3

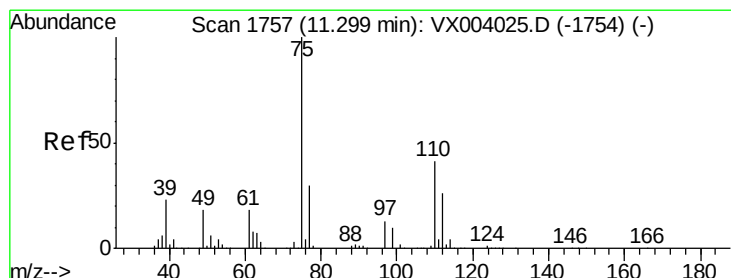
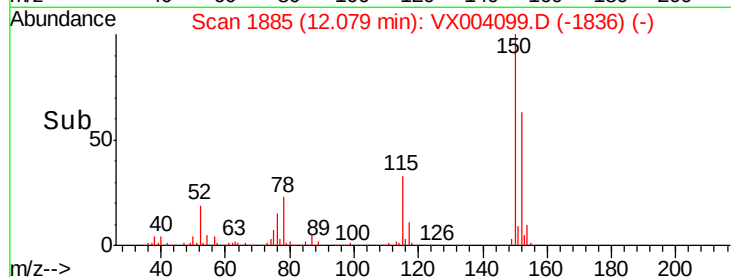
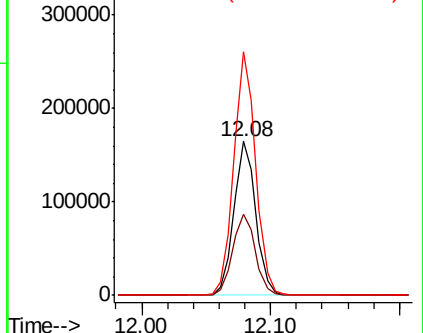
150 158.1 0.0 349.2



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: 23.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004099.D

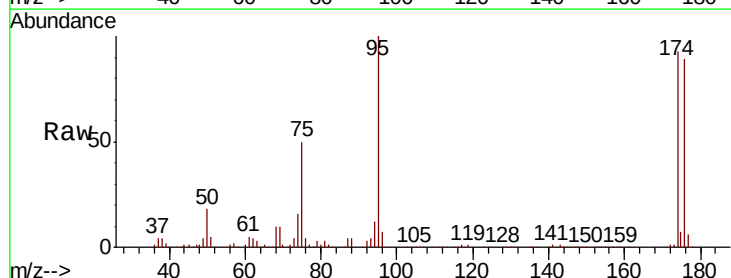
Acq: 16 Aug 2018 04:01

Tgt Ion: 75 Resp: 92012

Ion Ratio Lower Upper

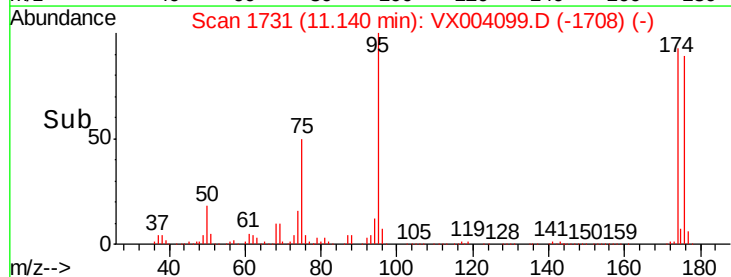
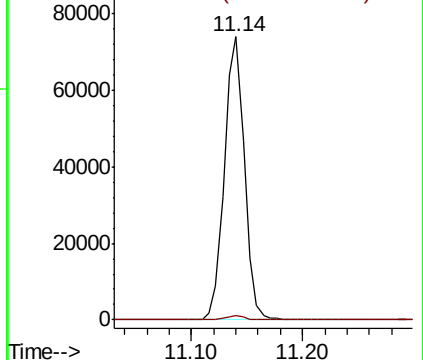
75 100

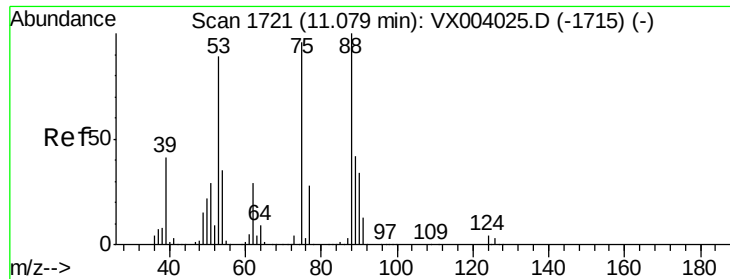
77 1.3 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

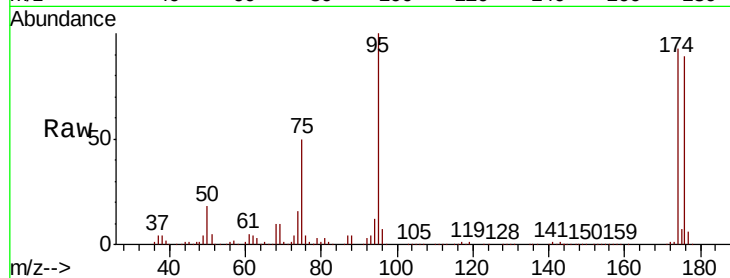




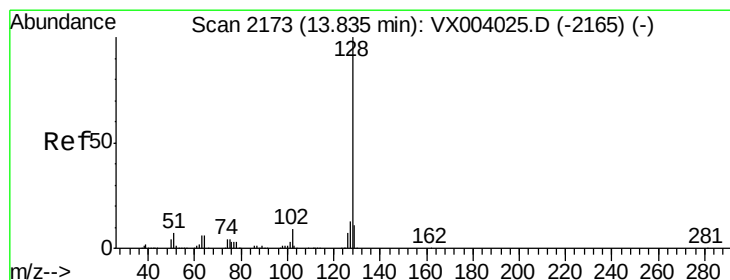
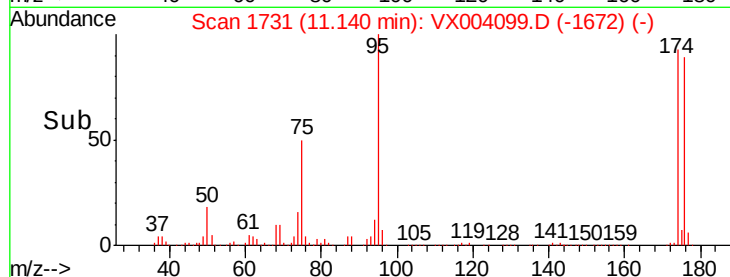
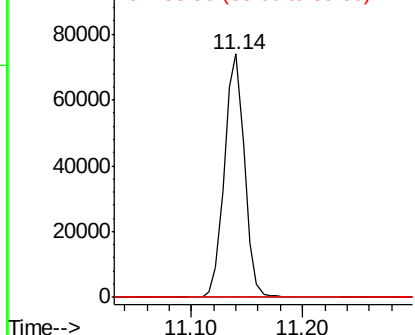
#81
trans-1,4-Dichloro-2-butene
Concen: 72.49 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX004099.D
Acq: 16 Aug 2018 04:01

Instrument :
MSVOA_X
ClientSampleId :
SS050MW109-180814

Tot Ion: 75 Resp: 92012
Ion Ratio Lower Upper
75 100
53 0.3 80.3 120.5#
89 0.0 37.8 56.8#

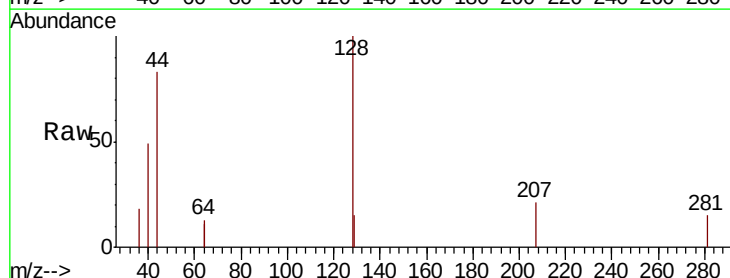


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95
Naphthalene
Concen: 1.18 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX004099.D
Acq: 16 Aug 2018 04:01

Tgt Ion: 128 Resp: 537
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 12.1 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

