

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101018\
 Data File : VX005233.D
 Acq On : 11 Oct 2018 04:58
 Operator : JC/MD
 Sample : J5390-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA18-GMZ5-ER1

Quant Time: Oct 11 08:08:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

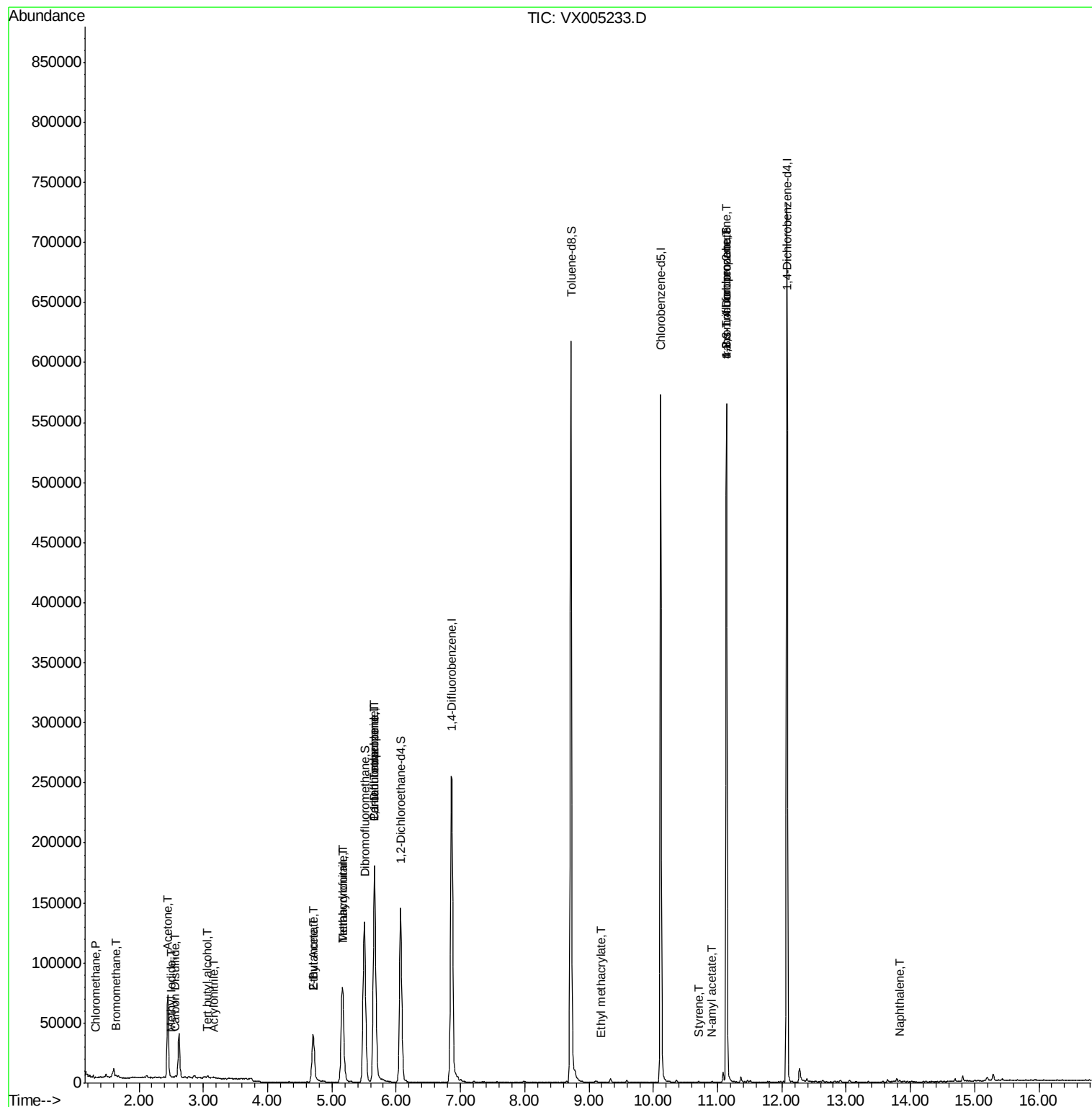
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	179473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	268728	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	268376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	149207	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	133866	52.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.42%	
35) Dibromofluoromethane	5.51	113	113511	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
50) Toluene-d8	8.72	98	390857	51.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.24%	
62) 4-Bromofluorobenzene	11.14	95	140597	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	944	0.318	ug/l	100
5) Bromomethane	1.64	94	706	0.428	ug/l	96
6) Chloroethane	1.71	64	48	Below Cal	#	9
10) Methyl Iodide	2.51	142	594	0.226	ug/l #	87
11) Tert butyl alcohol	3.07	59	2549	3.556	ug/l	96
15) Acrylonitrile	3.15	53	436	0.276	ug/l #	68
16) Acetone	2.45	43	74273	49.622	ug/l	92
17) Carbon Disulfide	2.57	76	1276	0.218	ug/l #	91
20) Methylene Chloride	2.85	84	926	Below Cal	#	91
25) 2-Butanone	4.71	43	72972	33.074	ug/l	98
29) Tetrahydrofuran	5.17	42	72771	53.067	ug/l	96
36) 1,1-Dichloropropene	5.67	75	11978	3.855	ug/l #	46
37) Ethyl Acetate	4.71	43	72972	17.691	ug/l #	70
38) Carbon Tetrachloride	5.67	117	16090	4.926	ug/l #	18
41) Methacrylonitrile	5.17	41	42774	18.699	ug/l #	50
56) Ethyl methacrylate	9.18	69	19	2.867	ug/l #	1
70) Styrene	10.71	104	179	2.164	ug/l #	78
74) N-amyl acetate	10.90	43	172	1.780	ug/l #	69
76) 1,2,3-Trichloropropane	11.14	75	70262	21.010	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	308	Below Cal	#	61
81) trans-1,4-Dichloro-2-buten	11.14	75	70262	57.011	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	496	Below Cal		89
95) Naphthalene	13.83	128	795	0.783	ug/l #	86

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

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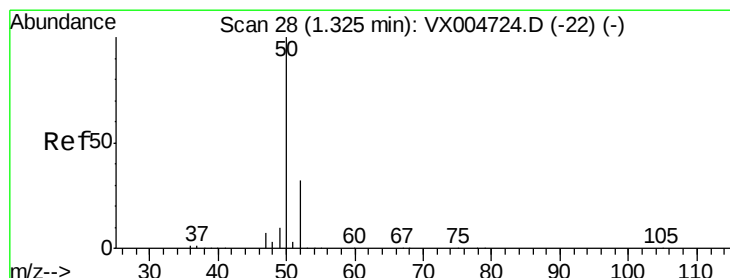
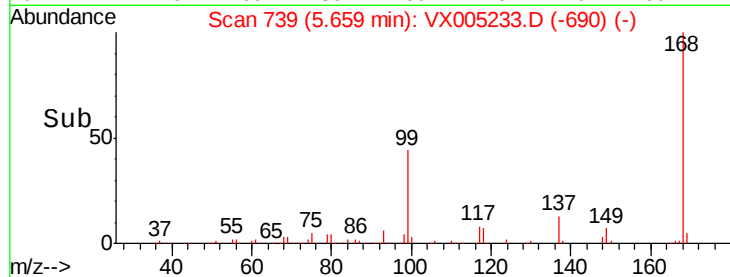
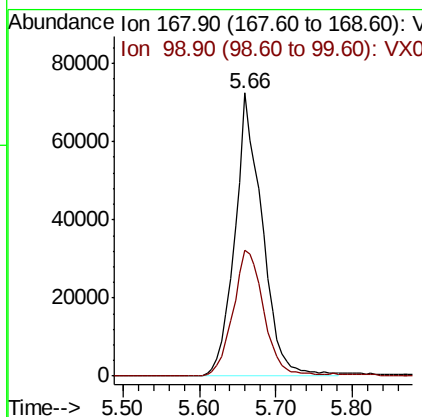
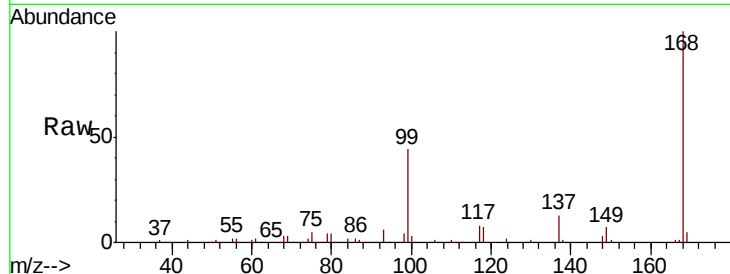




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

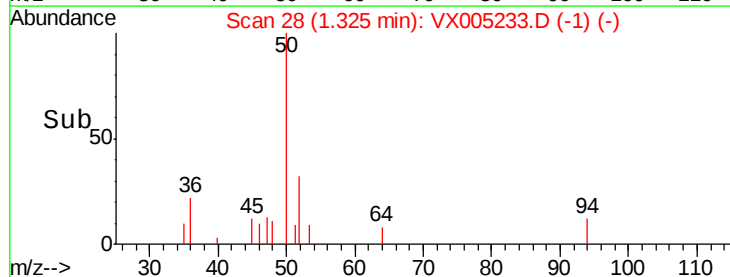
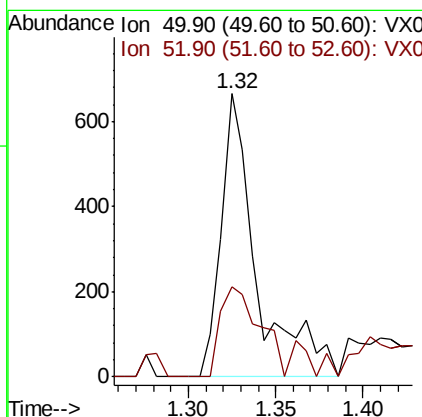
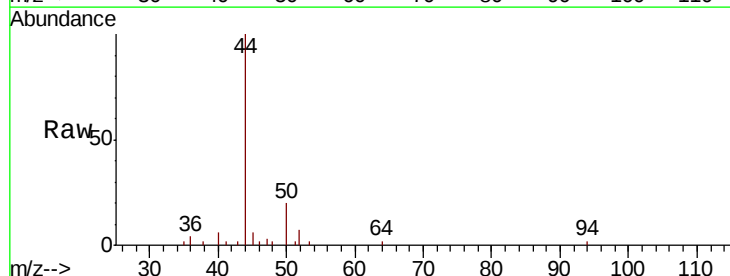
Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ5-ER1

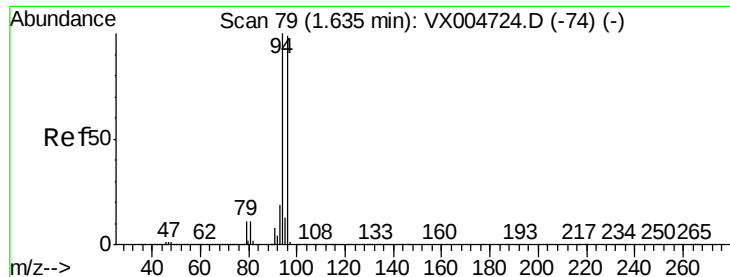
Tot Ion:168 Resp: 179473
Ion Ratio Lower Upper
168 100
99 44.3 39.3 58.9



#3
Chloromethane
Concen: 0.318 ug/l
RT: 1.32 min Scan# 28
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

Tgt Ion: 50 Resp: 944
Ion Ratio Lower Upper
50 100
52 32.0 25.8 38.6





#5

Bromomethane

Concen: 0.428 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

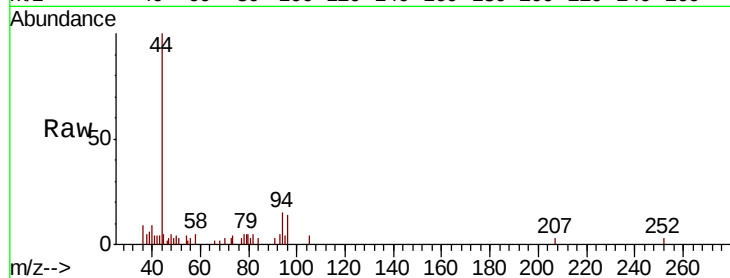
FA18-GMZ5-ER1

Tot Ion: 94 Resp: 706

Ion Ratio Lower Upper

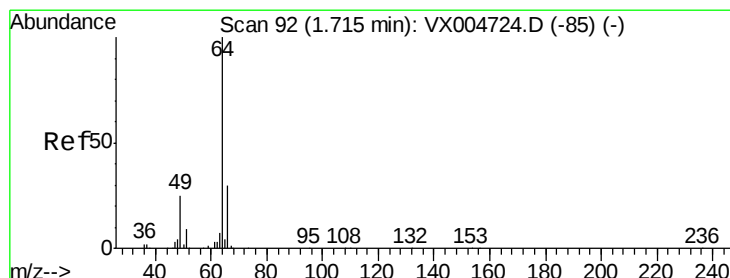
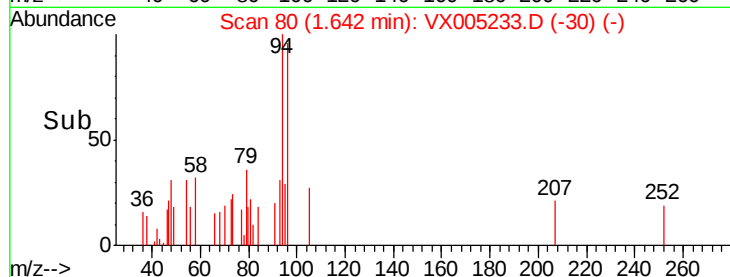
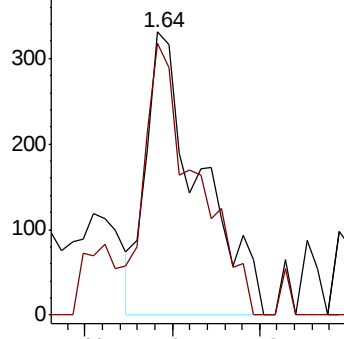
94 100

96 95.8 79.5 119.3



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: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX005233.D

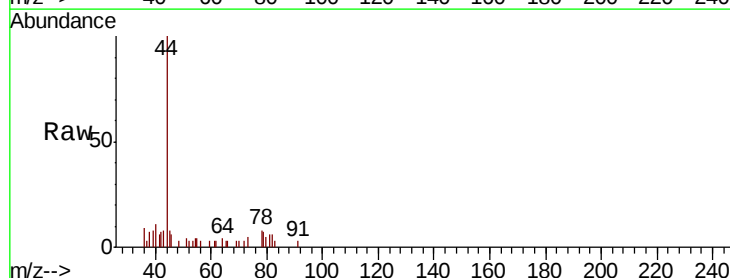
Acq: 11 Oct 2018 04:58

Tgt Ion: 64 Resp: 48

Ion Ratio Lower Upper

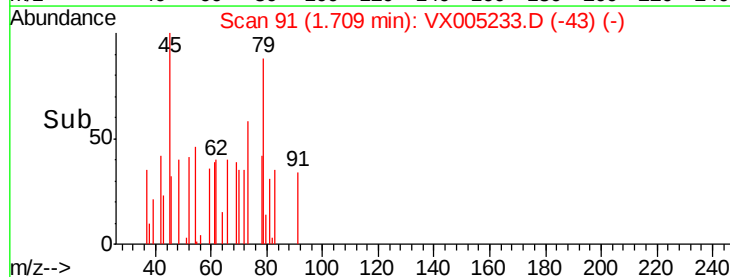
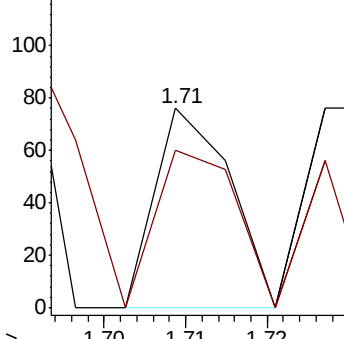
64 100

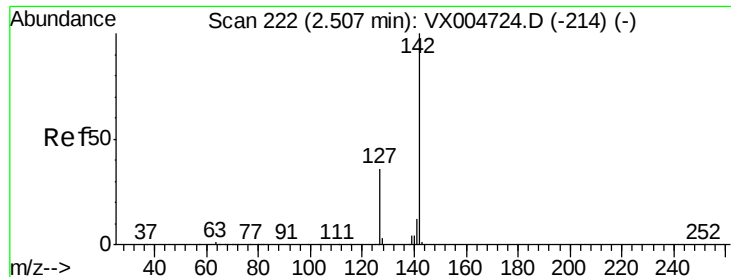
66 78.9 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

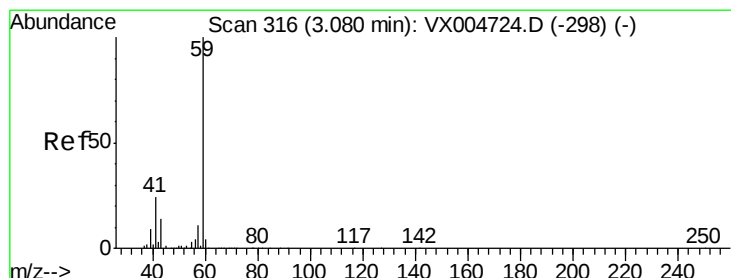
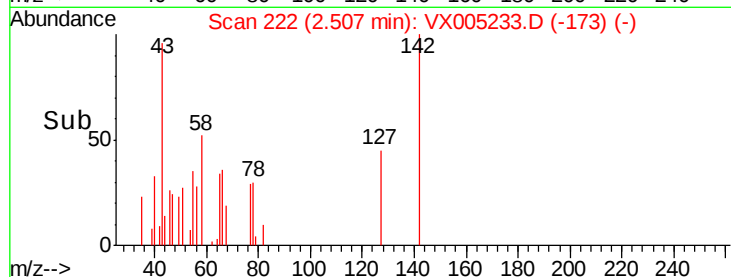
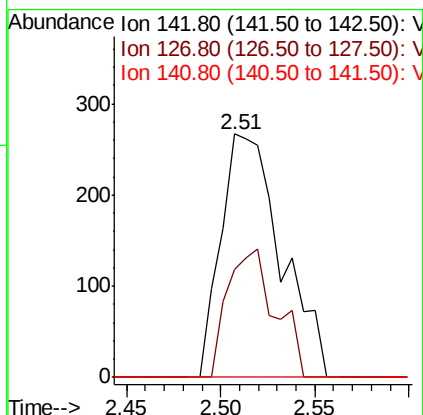
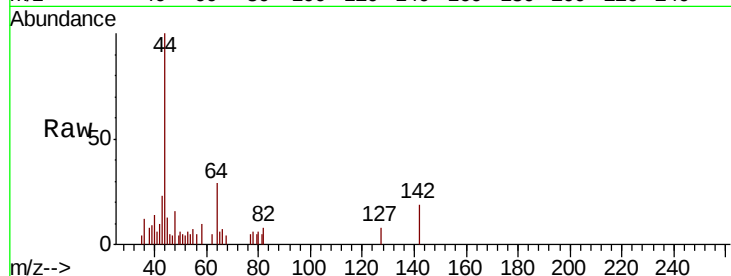




#10
Methvl Iodide
Concen: 0.226 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

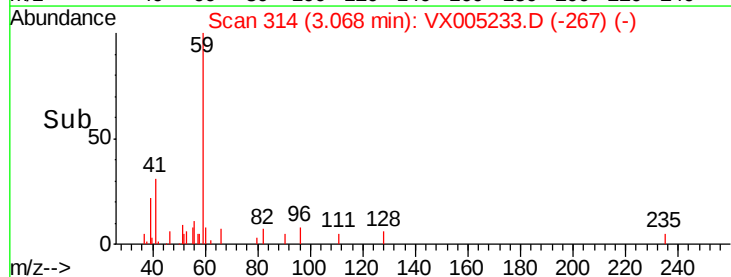
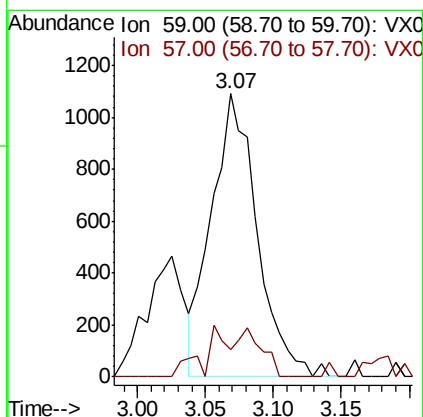
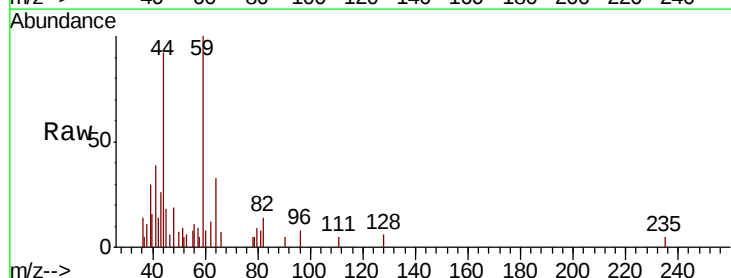
Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ5-ER1

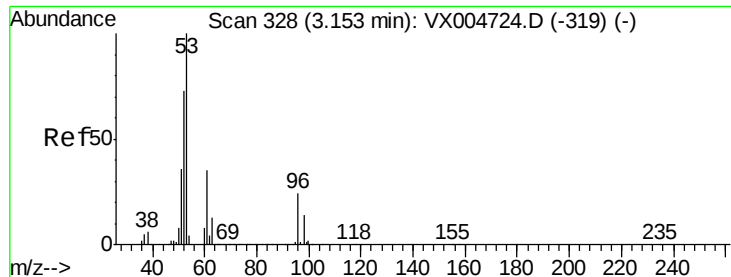
Tot Ion:142 Resp: 594
Ion Ratio Lower Upper
142 100
127 41.8 30.1 45.1
141 0.0 10.1 15.1#



#11
Tert butyl alcohol
Concen: 3.556 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

Tgt Ion: 59 Resp: 2549
Ion Ratio Lower Upper
59 100
57 9.3 8.6 12.8





#15

Acrylonitrile

Concen: 0.276 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampleID :

FA18-GMZ5-ER1

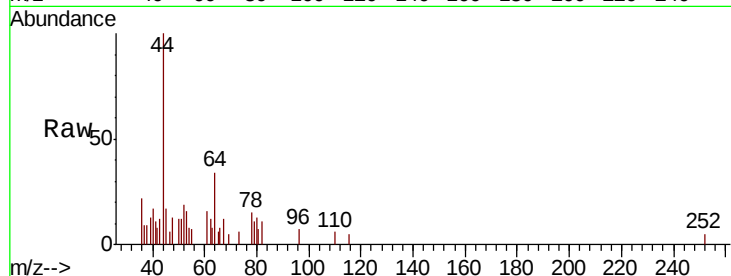
Tot Ion: 53 Resp: 436

Ion Ratio Lower Upper

53 100

52 95.6 63.0 94.4#

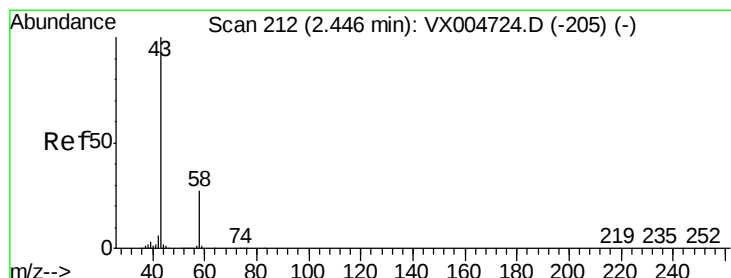
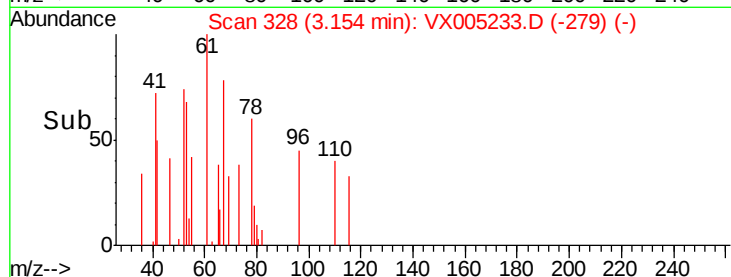
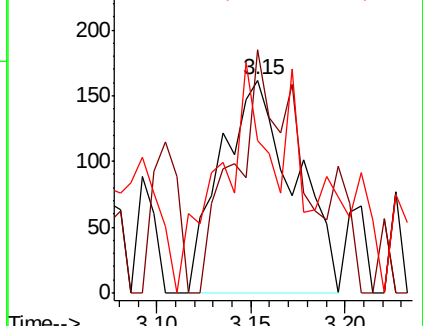
51 71.3 28.6 42.8#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 49.622 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005233.D

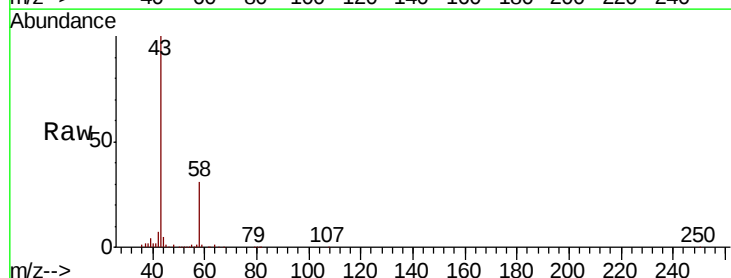
Acq: 11 Oct 2018 04:58

Tgt Ion: 43 Resp: 74273

Ion Ratio Lower Upper

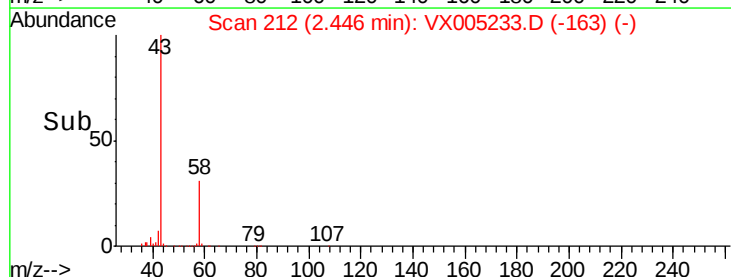
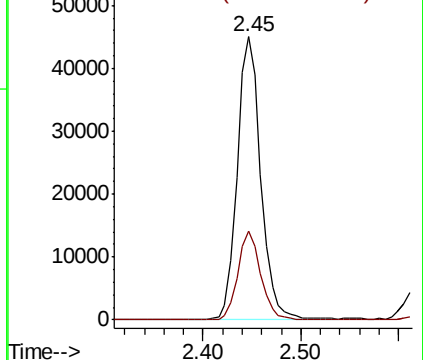
43 100

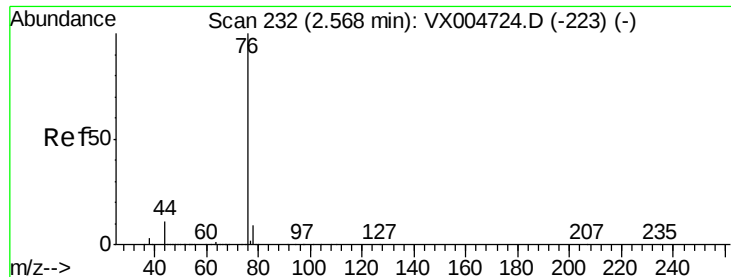
58 31.5 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.218 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

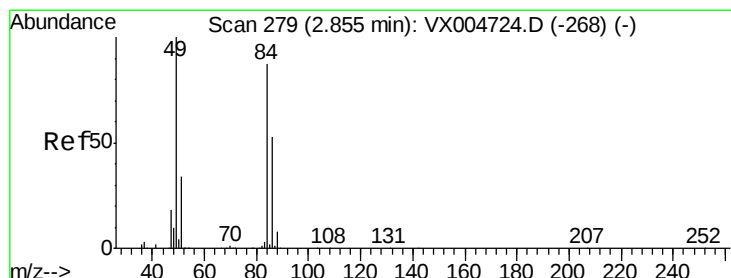
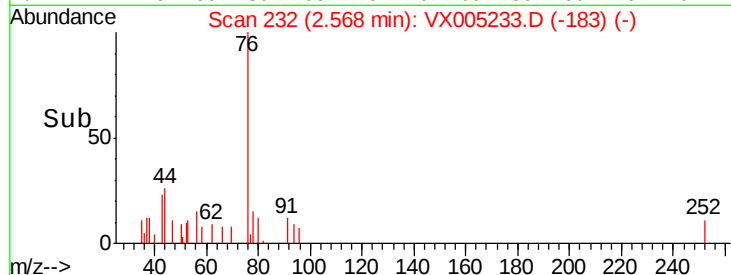
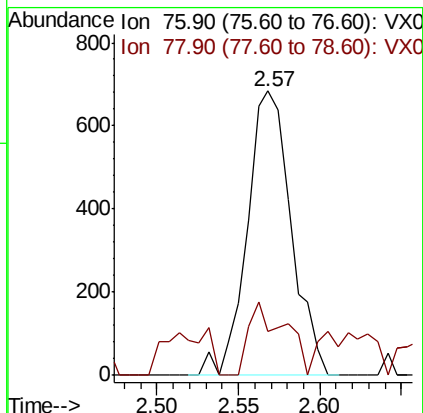
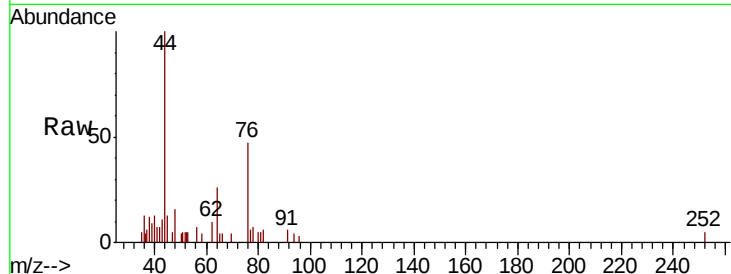
FA18-GMZ5-ER1

Tot Ion: 76 Resp: 1276

Ion Ratio Lower Upper

76 100

78 5.4 7.0 10.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

Tgt Ion: 84 Resp: 926

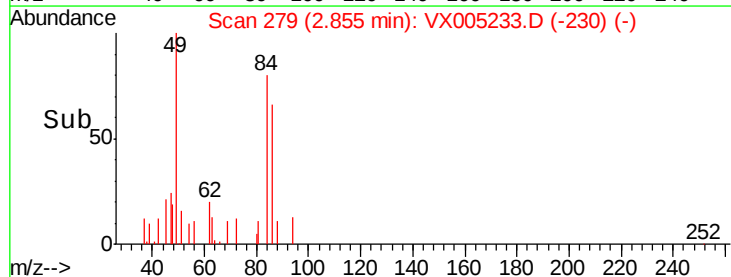
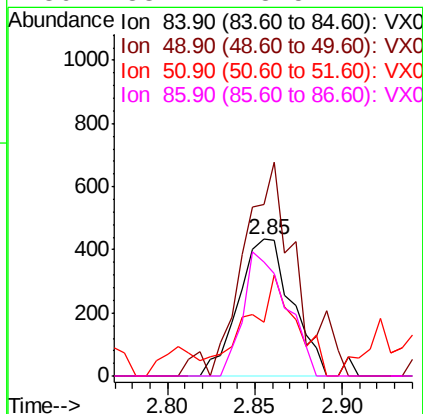
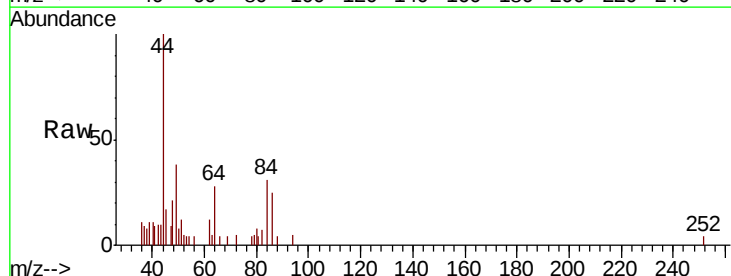
Ion Ratio Lower Upper

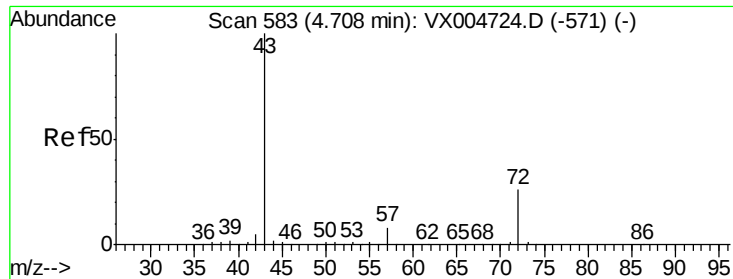
84 100

49 113.4 92.3 138.5

51 39.3 31.8 47.6

86 83.1 48.5 72.7#

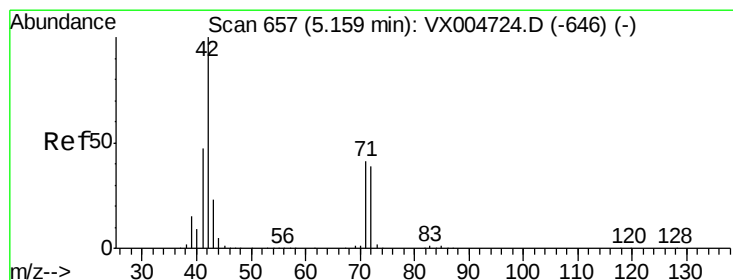
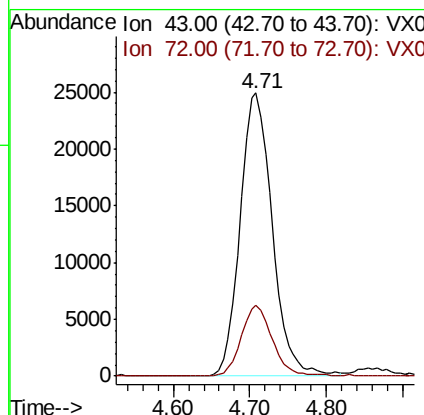
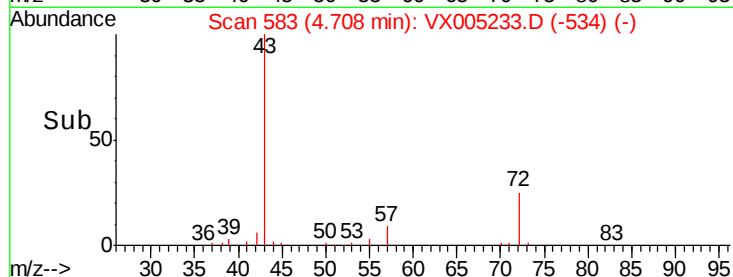
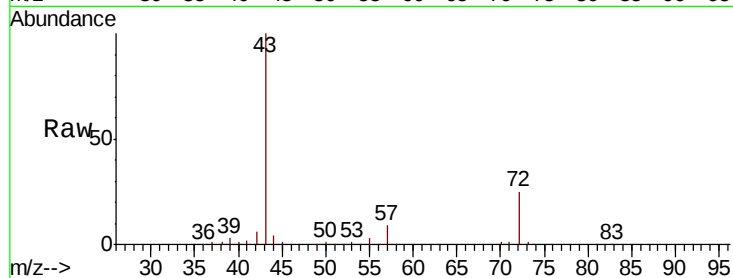




#25
2-Butanone
Concen: 33.074 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

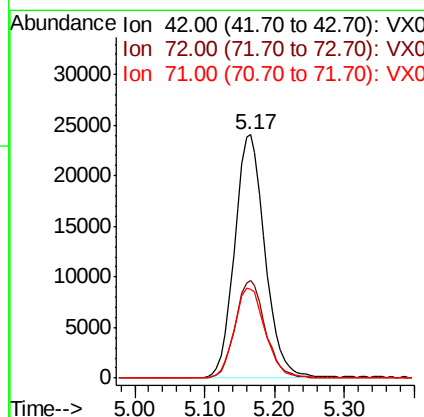
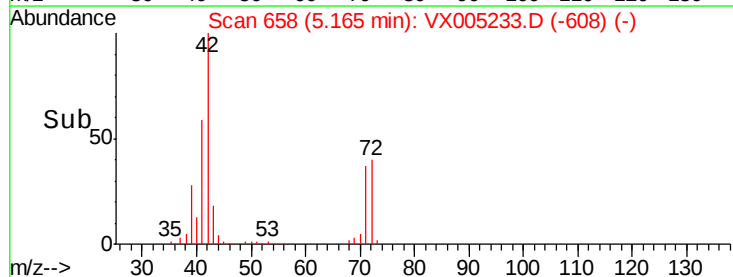
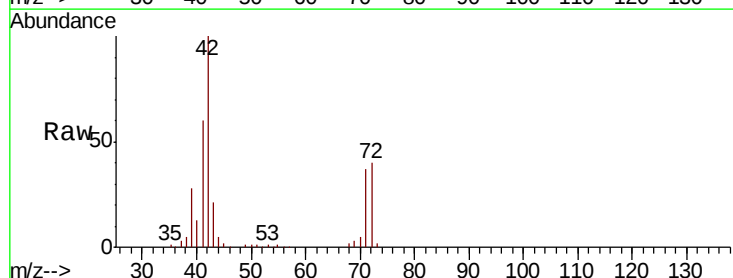
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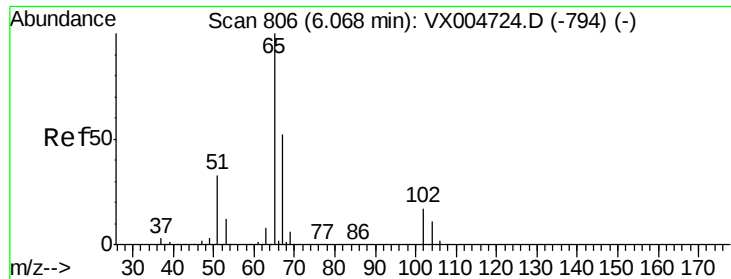
Tot Ion: 43 Resp: 72972
Ion Ratio Lower Upper
43 100
72 25.1 20.8 31.2



#29
Tetrahydrofuran
Concen: 53.067 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

Tgt Ion: 42 Resp: 72771
Ion Ratio Lower Upper
42 100
72 39.5 33.7 50.5
71 37.6 32.2 48.4





#33

1,2-Dichloroethane-d4

Concen: 52.214 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

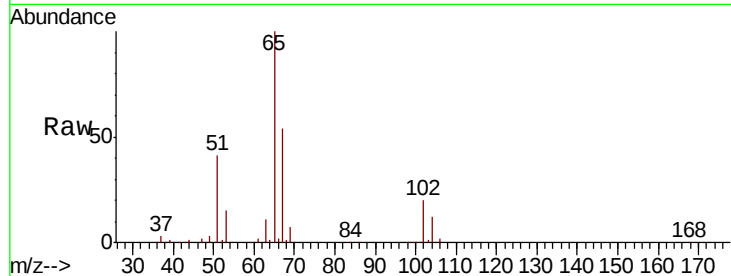
FA18-GMZ5-ER1

Tot Ion: 65 Resp: 133866

Ion Ratio Lower Upper

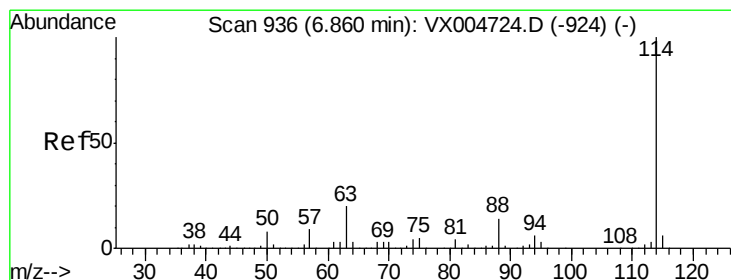
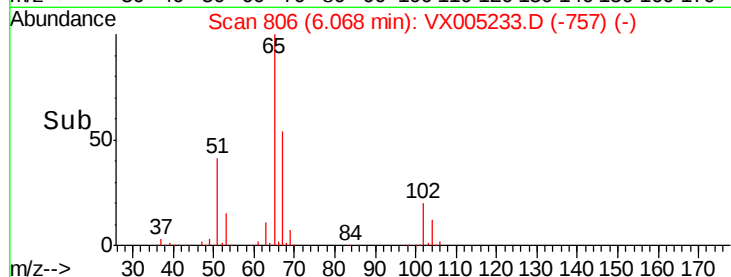
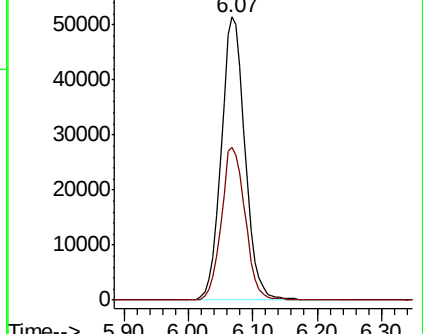
65 100

67 54.3 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

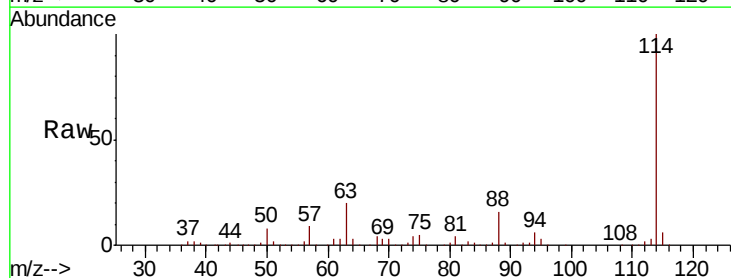
Tgt Ion: 114 Resp: 268728

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.8

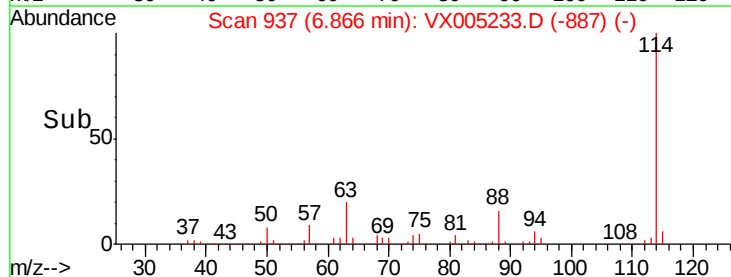
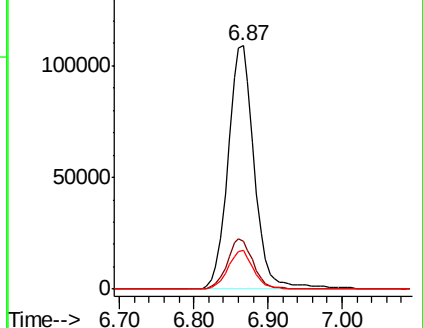
88 15.8 0.0 27.0

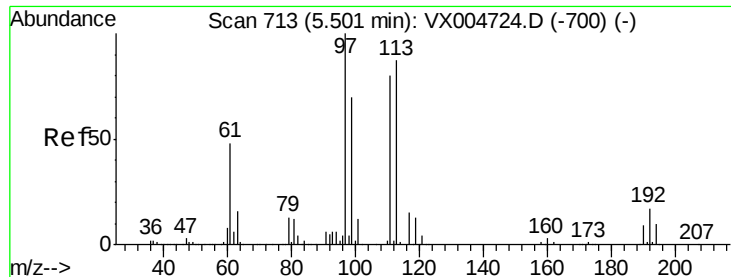


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.840 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampled :

FA18-GMZ5-ER1

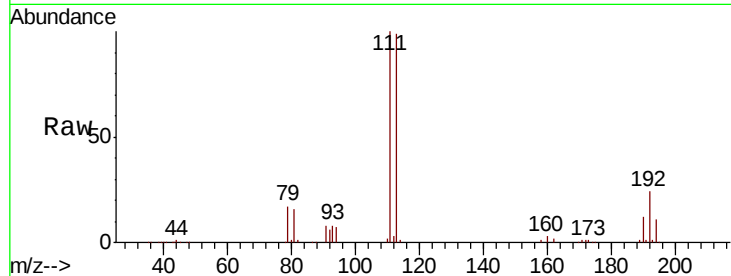
Tot Ion:113 Resp: 113511

Ion Ratio Lower Upper

113 100

111 101.2 77.0 115.4

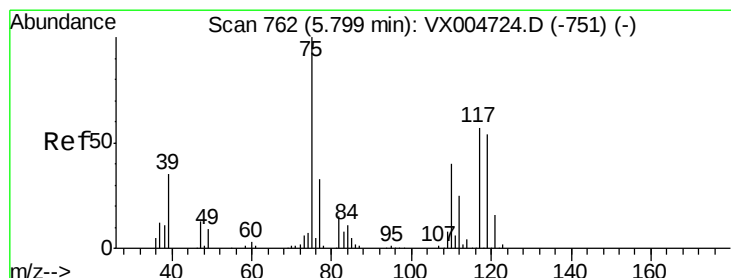
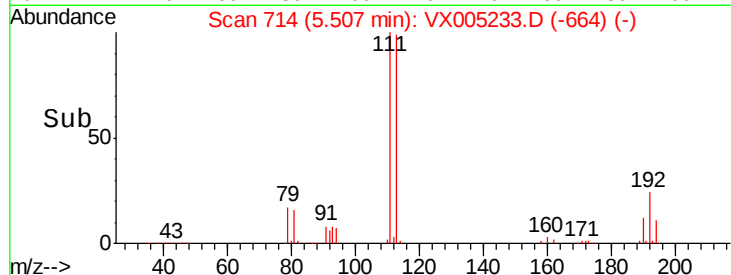
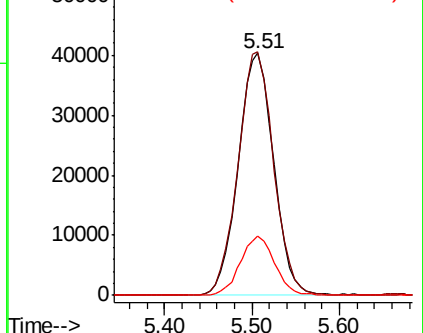
192 23.7 17.0 25.6



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: 3.855 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

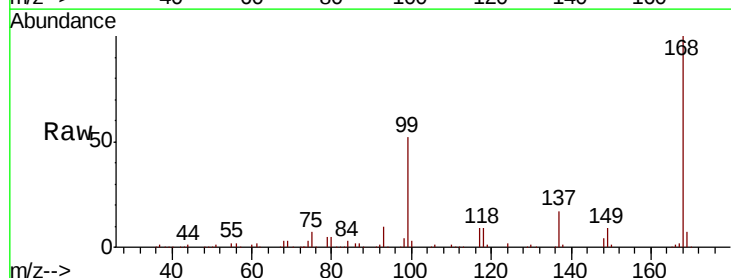
Tgt Ion: 75 Resp: 11978

Ion Ratio Lower Upper

75 100

110 9.8 20.0 59.9#

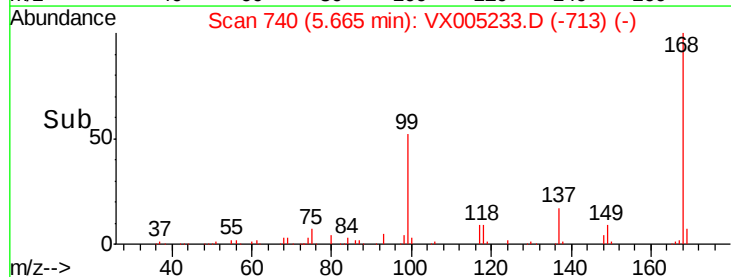
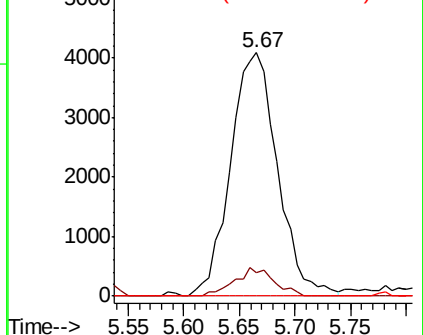
77 0.0 27.1 40.7#

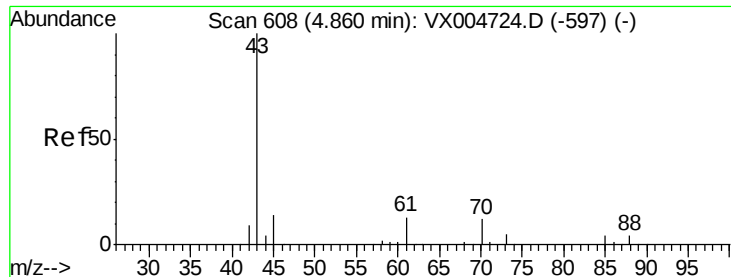


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 17.691 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

FA18-GMZ5-ER1

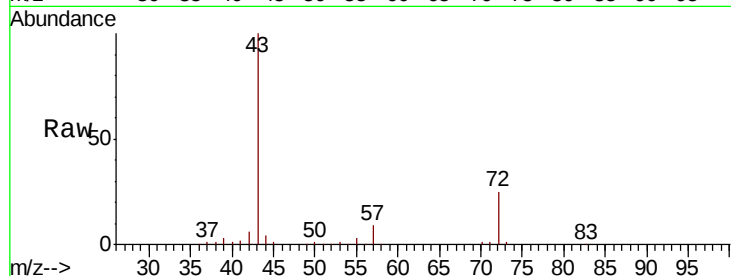
Tot Ion: 43 Resp: 72972

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

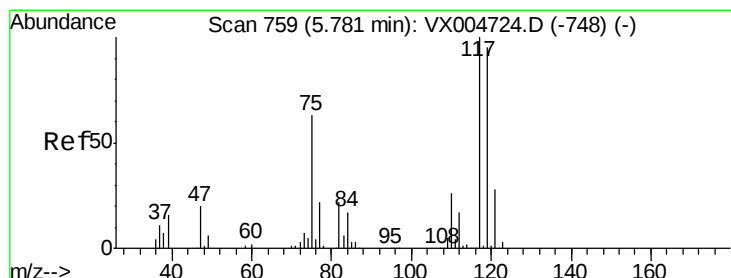
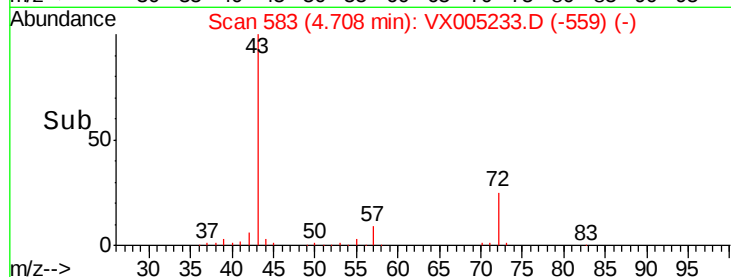
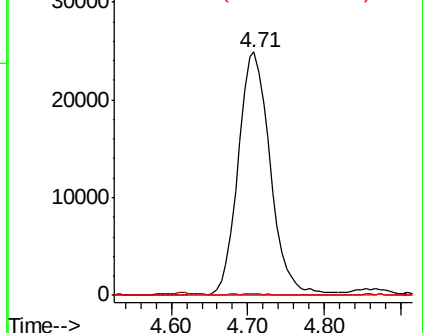
70 0.8 8.7 13.1#



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: 4.926 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

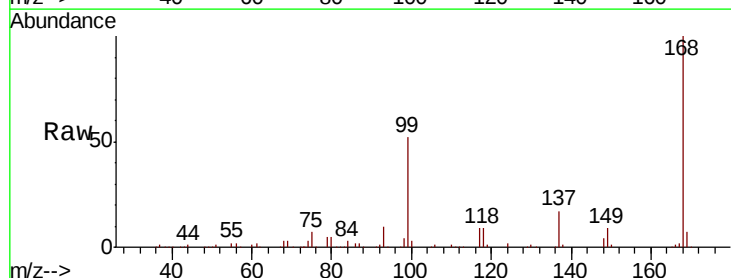
Tgt Ion: 117 Resp: 16090

Ion Ratio Lower Upper

117 100

119 6.1 75.2 112.8#

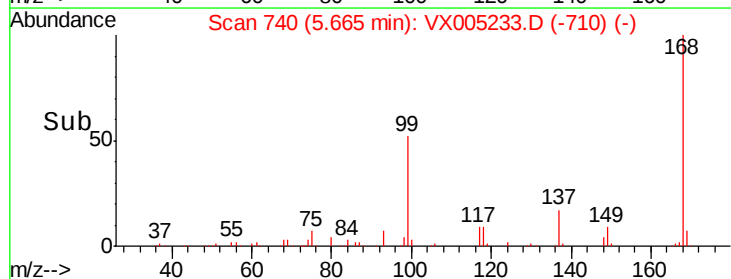
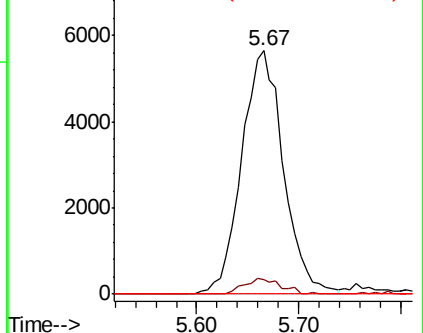
121 0.0 22.5 33.7#

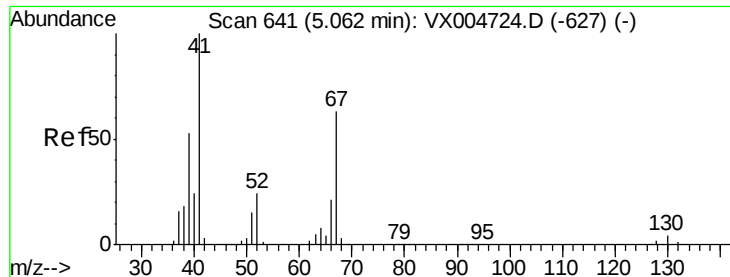


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

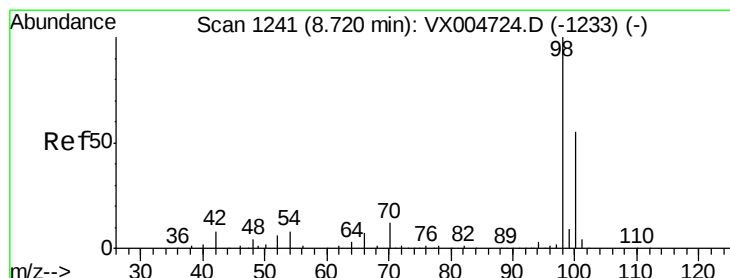
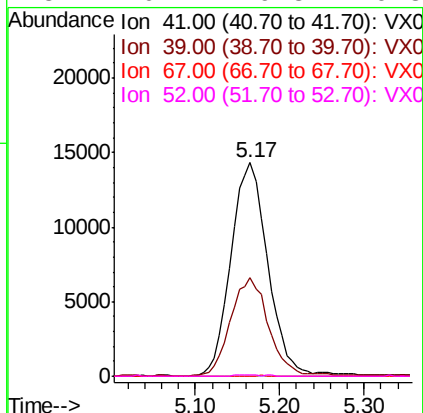
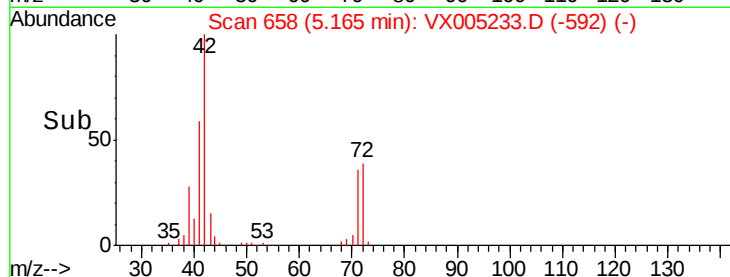
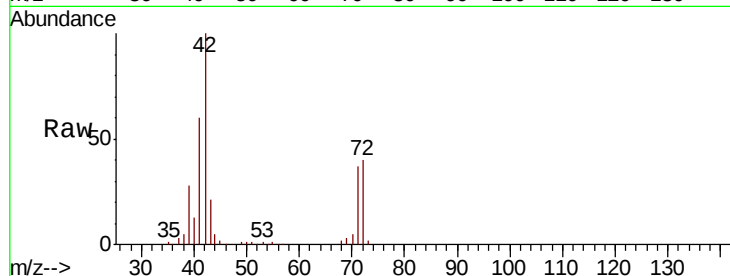




#41
Methacrylonitrile
Concen: 18.699 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

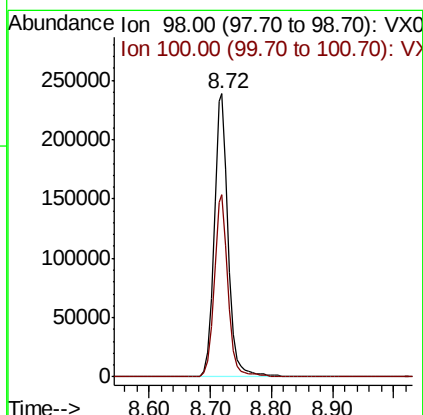
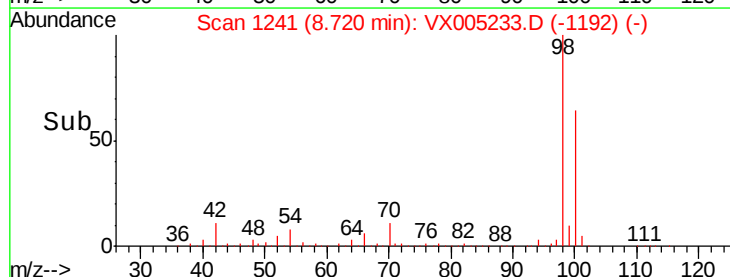
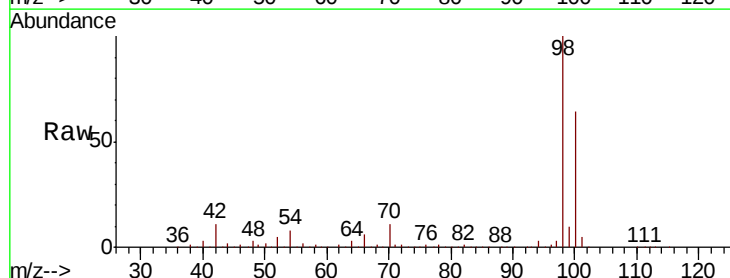
Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ5-ER1

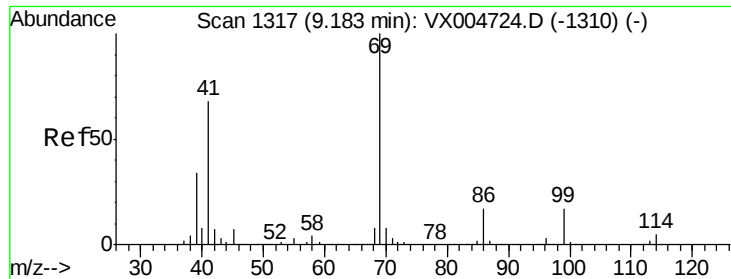
Tot Ion: 41 Resp: 42774
Ion Ratio Lower Upper
41 100
39 47.6 42.5 63.7
67 0.0 53.0 79.6#
52 0.1 19.8 29.8#



#50
Toluene-d8
Concen: 51.622 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

Tgt Ion: 98 Resp: 390857
Ion Ratio Lower Upper
98 100
100 63.6 51.9 77.9

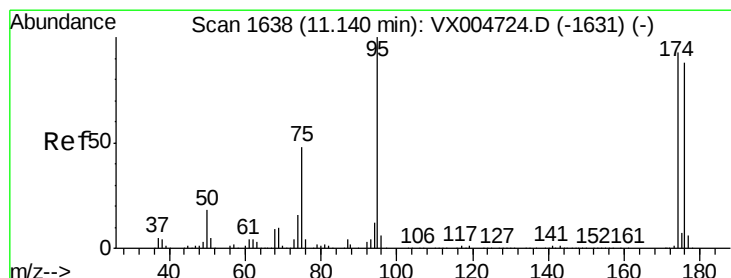
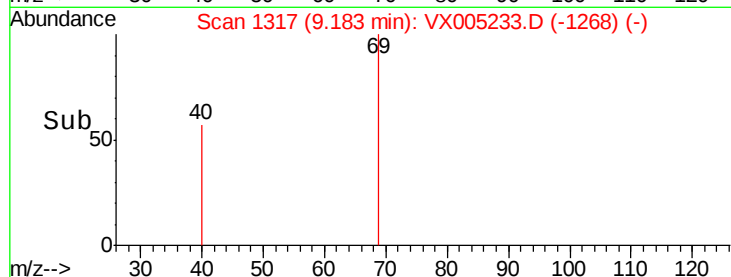
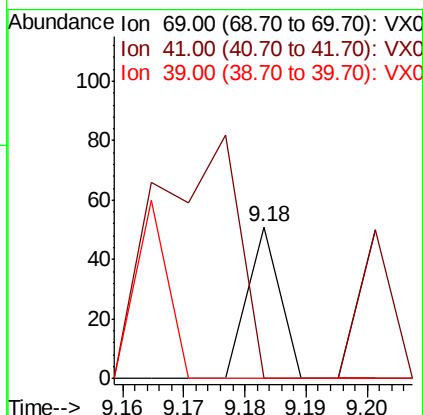
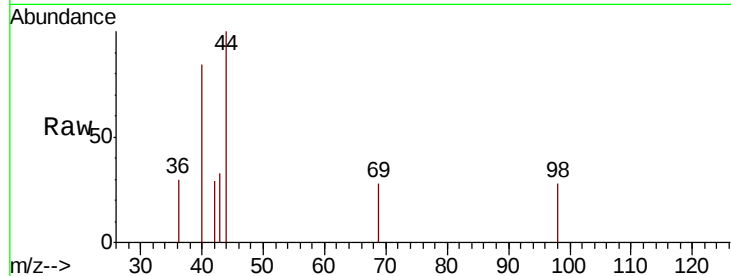




#56
Ethyl methacrylate
Concen: 2.867 ug/l
RT: 9.18 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

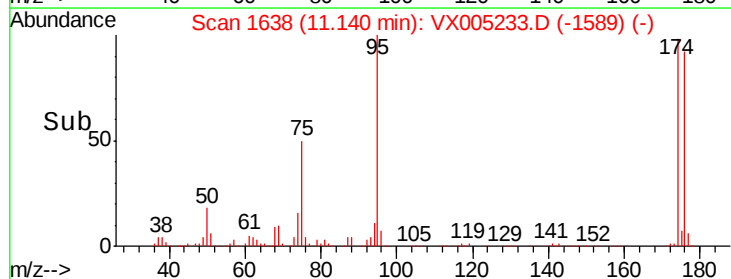
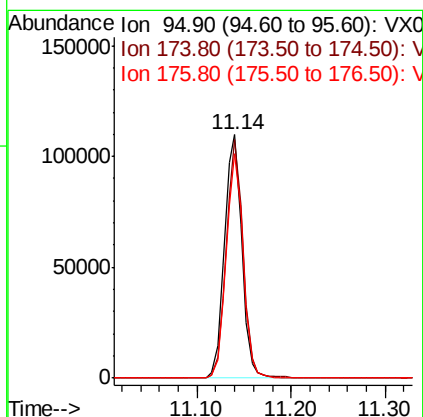
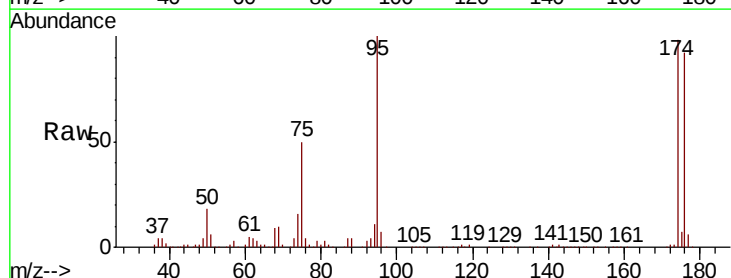
Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ5-ER1

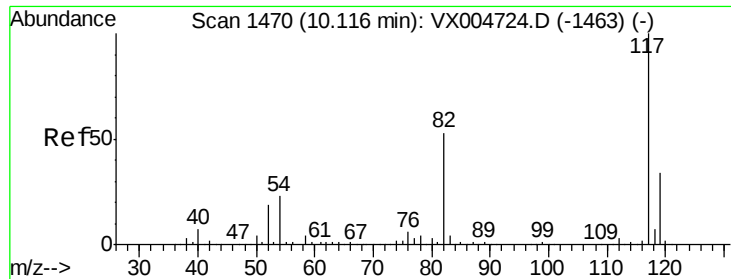
Tot Ion: 69 Resp: 19
Ion Ratio Lower Upper
69 100
41 400.0 56.9 85.3#
39 0.0 28.4 42.6#



#62
4-Bromofluorobenzene
Concen: 51.544 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

Tgt Ion: 95 Resp: 140597
Ion Ratio Lower Upper
95 100
174 95.0 0.0 185.0
176 89.9 0.0 180.2

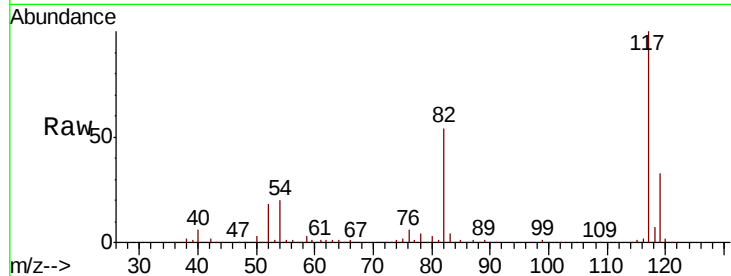




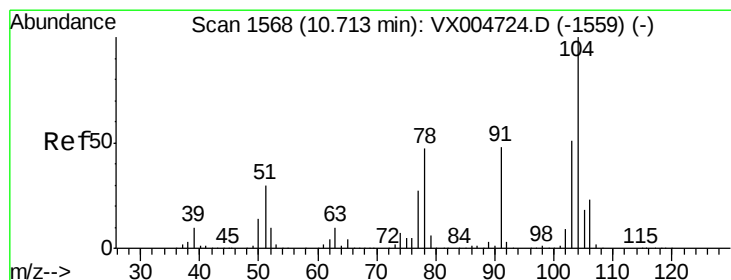
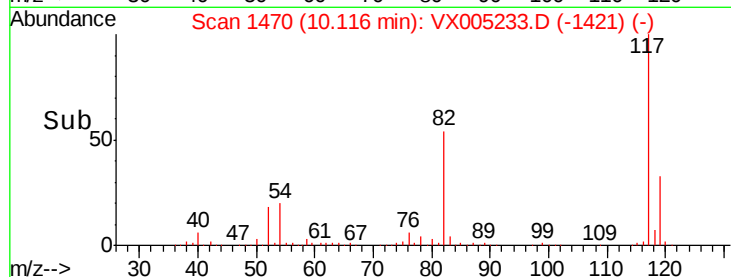
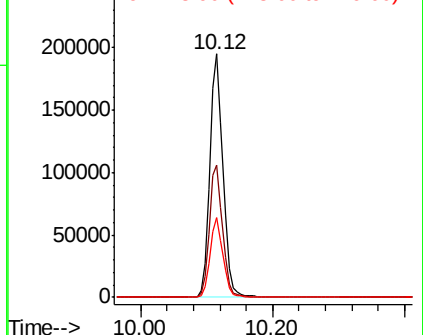
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

Instrument :
MSVOA_X
ClientSampled :
FA18-GMZ5-ER1

Tot Ion:117 Resp: 268376
Ion Ratio Lower Upper
117 100
82 54.5 42.2 63.4
119 32.8 27.4 41.0

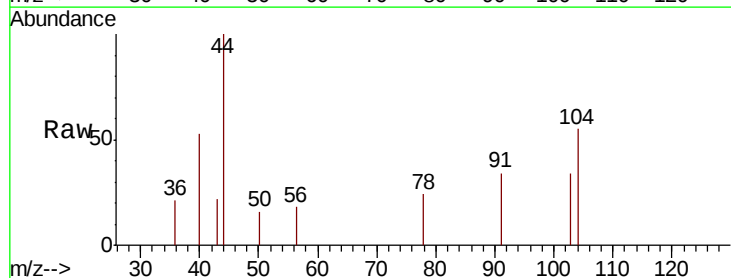


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

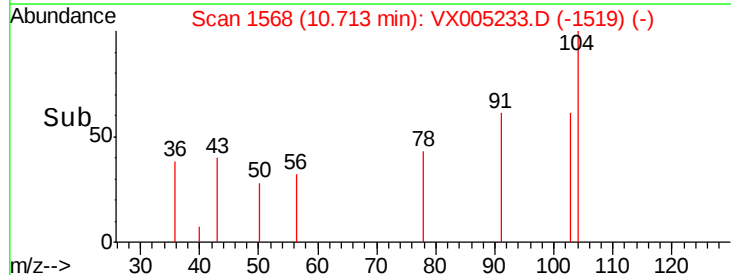
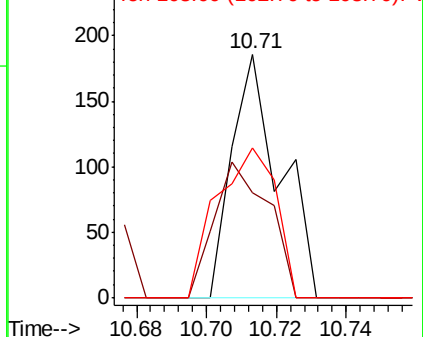


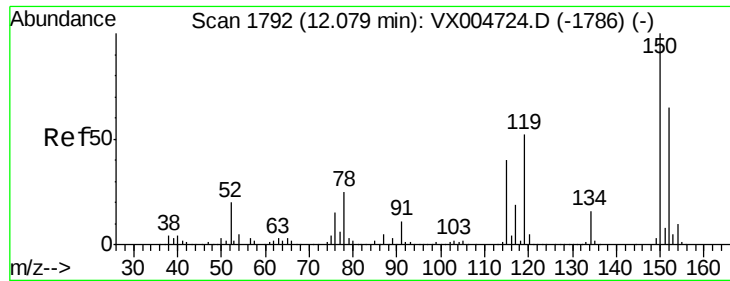
#70
Styrene
Concen: 2.164 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

Tgt Ion:104 Resp: 179
Ion Ratio Lower Upper
104 100
78 62.6 40.0 60.0#
103 74.3 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V



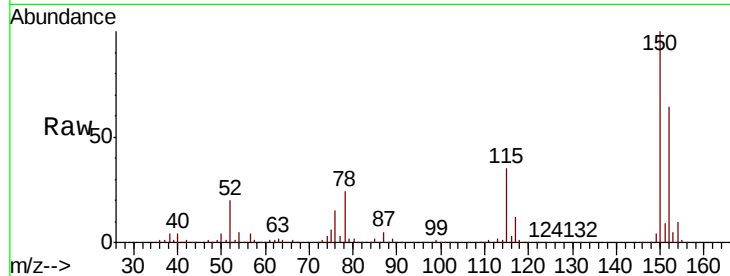


#72

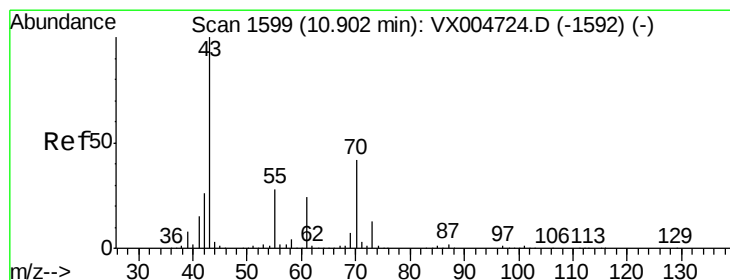
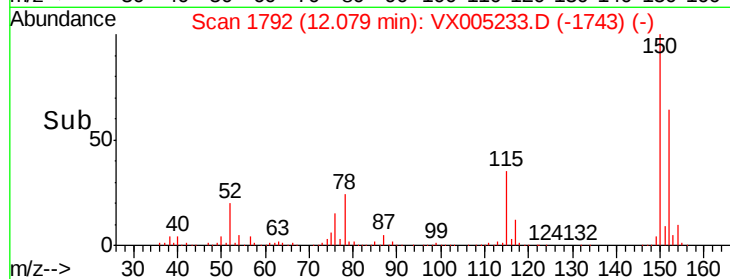
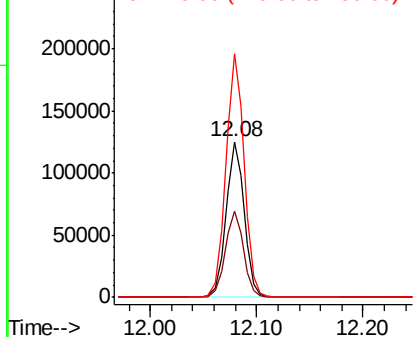
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

Instrument :
MSVOA_X
ClientSampled :
FA18-GMZ5-ER1

Tot Ion:152 Resp: 149207
Ion Ratio Lower Upper
152 100
115 55.5 40.2 120.6
150 157.3 0.0 351.0



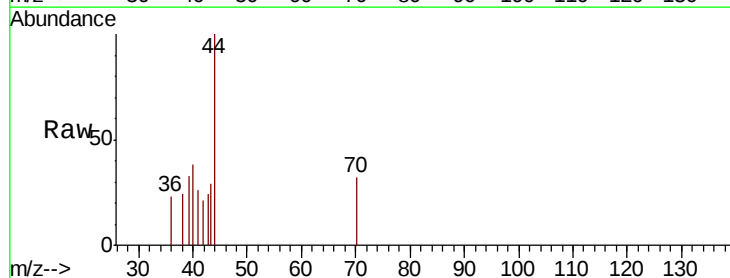
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



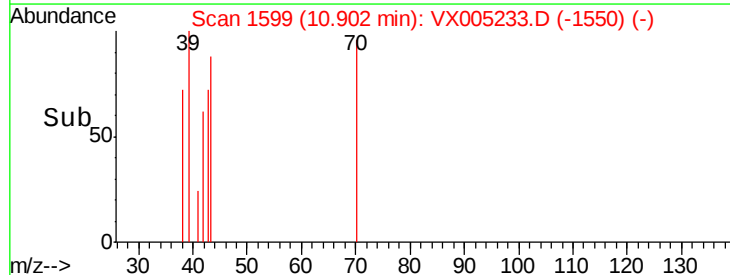
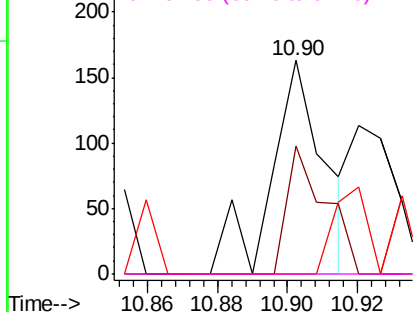
#74

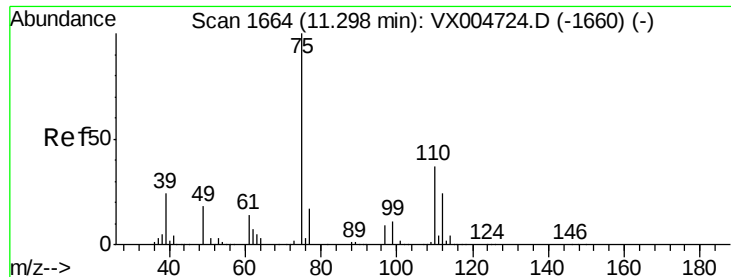
N-ethyl acetate
Concen: 1.780 ug/l
RT: 10.90 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

Tgt Ion: 43 Resp: 172
Ion Ratio Lower Upper
43 100
70 44.2 32.6 48.8
55 0.0 21.6 32.4#
61 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 21.010 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

Instrument :

MSVOA_X

ClientSampleId :

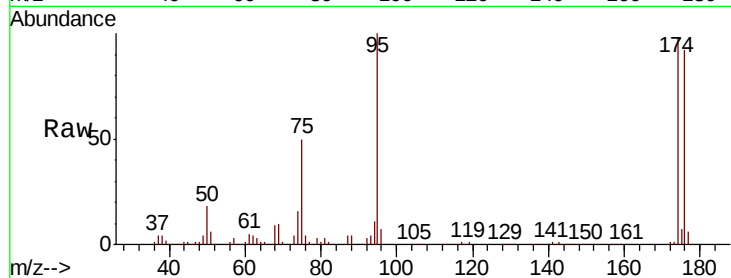
FA18-GMZ5-ER1

Tot Ion: 75 Resp: 70262

Ion Ratio Lower Upper

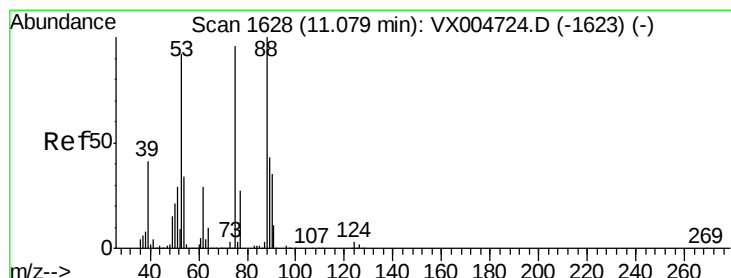
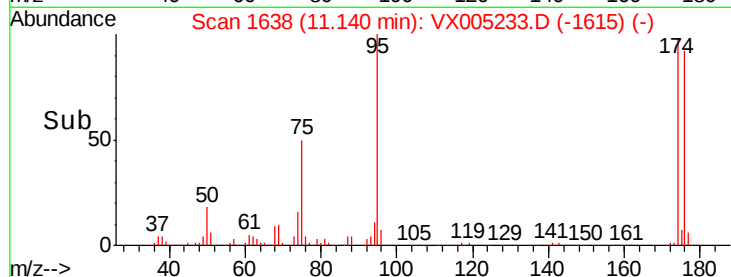
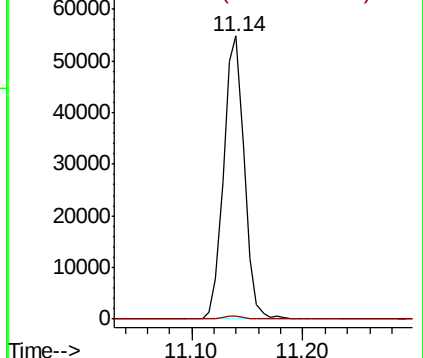
75 100

77 1.3 21.4 64.3#



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: 57.011 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005233.D

Acq: 11 Oct 2018 04:58

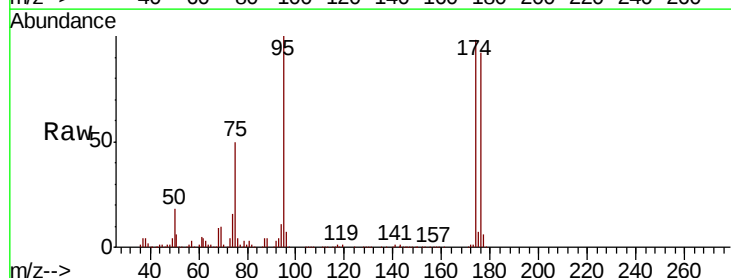
Tgt Ion: 75 Resp: 70262

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

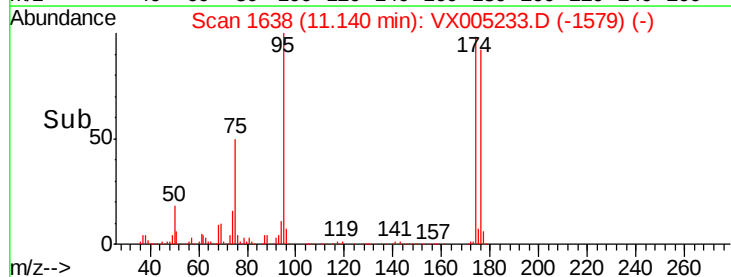
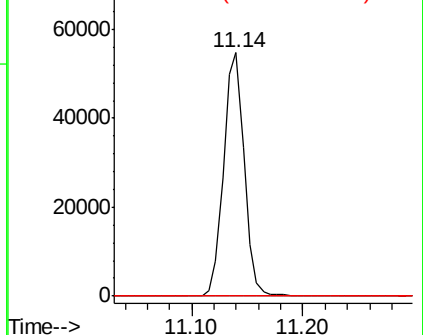
89 0.0 37.1 55.7#

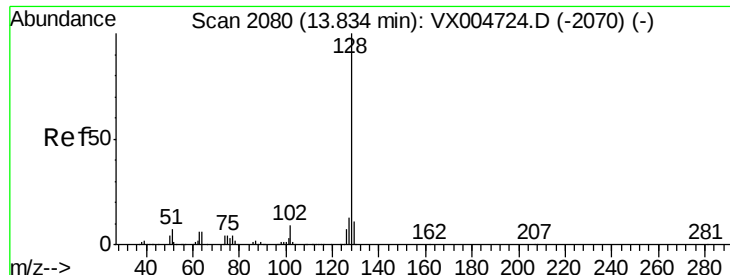


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95
Naphthalene
Concen: 0.783 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005233.D
Acq: 11 Oct 2018 04:58

Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ5-ER1

Tot Ion	Ratio	Lower	Upper
128	100		
127	20.0	10.4	15.6#
129	7.3	8.7	13.1#

