

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100818\
 Data File : VX005152.D
 Acq On : 09 Oct 2018 03:10
 Operator : JC/MD
 Sample : J5189-09DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-101D2-20180928DL

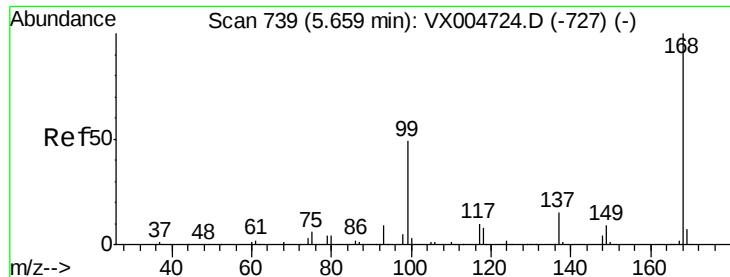
Quant Time: Oct 09 06:02:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	195592	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	294074	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	295703	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	163836	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	147758	52.88	ug/l	0.00
Spiked Amount			Recovery	=	105.76%	
35) Dibromofluoromethane	5.50	113	123385	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
50) Toluene-d8	8.71	98	431253	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
62) 4-Bromofluorobenzene	11.14	95	154785	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	687	0.382	ug/l #	46
6) Chloroethane	1.71	64	146	Below Cal	#	45
9) 1,1,2-Trichlorotrifluoroet	2.38	101	2535	1.185	ug/l	95
11) Tert butyl alcohol	3.02	59	2324	2.975	ug/l #	79
12) 1,1-Dichloroethene	2.38	96	949	0.448	ug/l #	73
13) Acrolein	2.29	56	191	0.344	ug/l #	19
15) Acrylonitrile	3.13	53	358	0.208	ug/l #	81
16) Acetone	2.45	43	614	0.376	ug/l #	6
20) Methylene Chloride	2.85	84	471	Below Cal	#	82
27) cis-1,2-Dichloroethene	4.59	96	701	0.270	ug/l	22
29) Tetrahydrofuran	5.17	42	670	0.448	ug/l #	55
31) Cyclohexane	5.66	56	3716	1.045	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13033	3.833	ug/l #	47
39) Methylcyclohexane	7.22	83	1329	0.383	ug/l #	1
44) Trichloroethene	7.21	130	114036	43.574	ug/l	100
56) Ethyl methacrylate	9.05	69	26	2.868	ug/l #	1
70) Styrene	10.71	104	39	2.145	ug/l #	48
74) N-amyl acetate	10.93	43	40	1.755	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	75887	20.665	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.50	105	103	Below Cal	#	29
81) trans-1,4-Dichloro-2-buten	11.14	75	75887	56.110	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.82	105	178	Below Cal		67
95) Naphthalene	13.83	128	297	0.741	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005152.D

Acq: 09 Oct 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

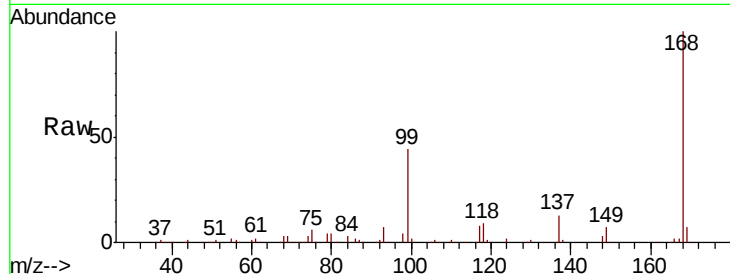
TT-101D2-20180928DL

Tot Ion:168 Resp: 195592

Ion Ratio Lower Upper

168 100

99 44.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

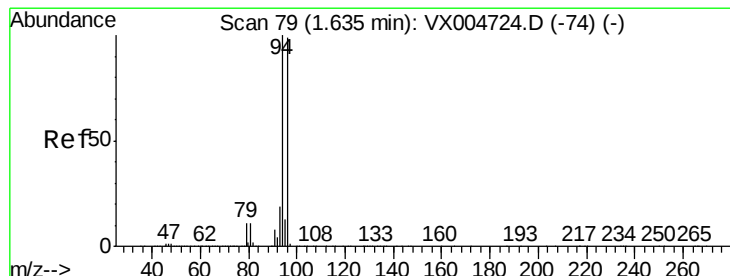
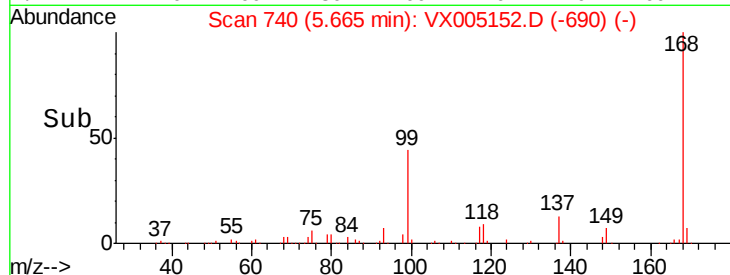
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.382 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005152.D

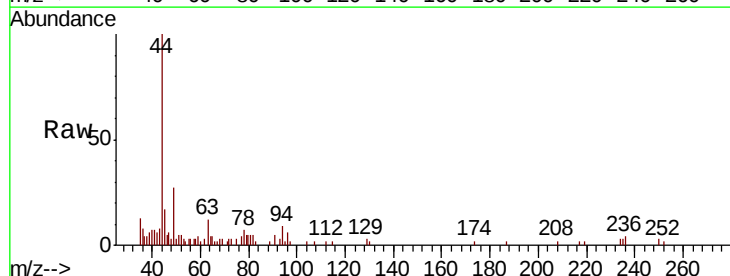
Acq: 09 Oct 2018 03:10

Tgt Ion: 94 Resp: 687

Ion Ratio Lower Upper

94 100

96 45.1 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

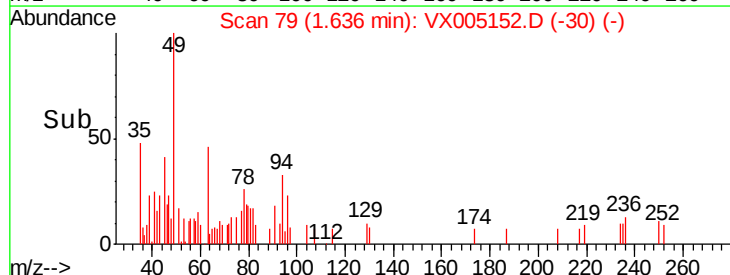
150

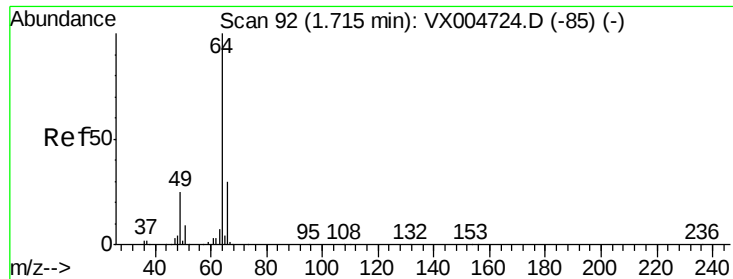
100

50

0

Time--> 1.55 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX005152.D

Acq: 09 Oct 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

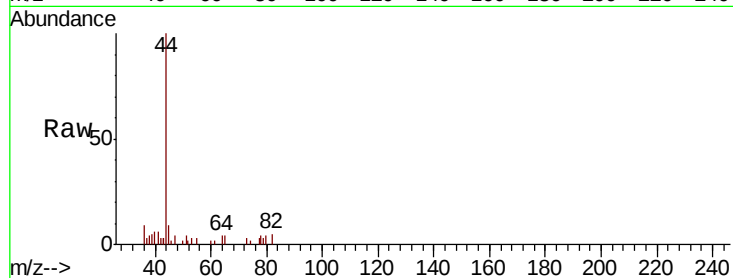
TT-101D2-20180928DL

Tot Ion: 64 Resp: 146

Ion Ratio Lower Upper

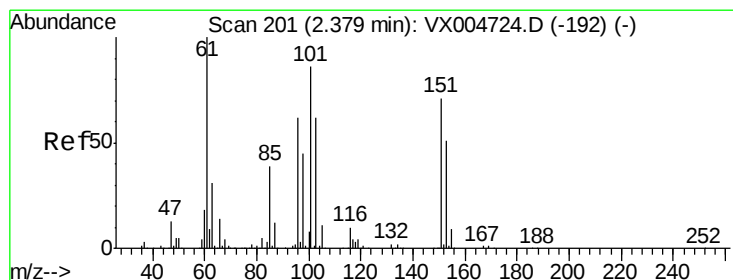
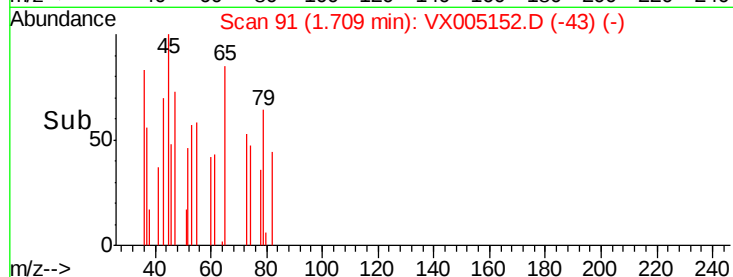
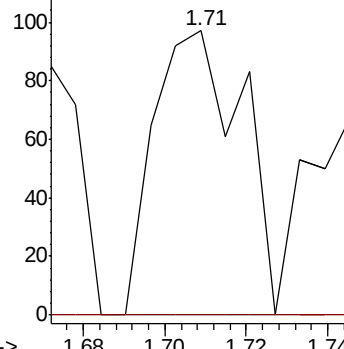
64 100

66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.185 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX005152.D

Acq: 09 Oct 2018 03:10

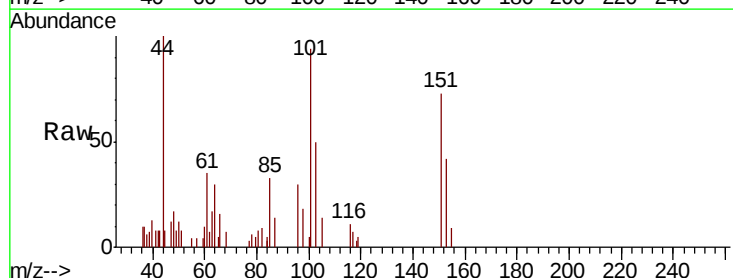
Tgt Ion:101 Resp: 2535

Ion Ratio Lower Upper

101 100

85 47.3 35.9 53.9

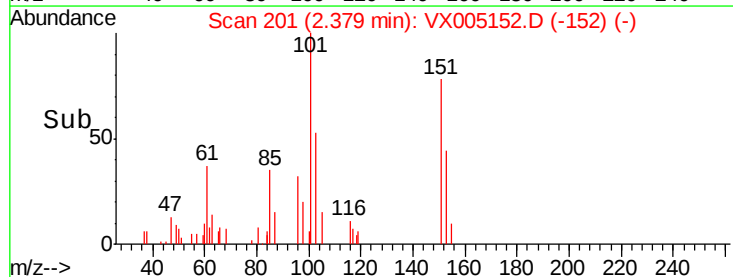
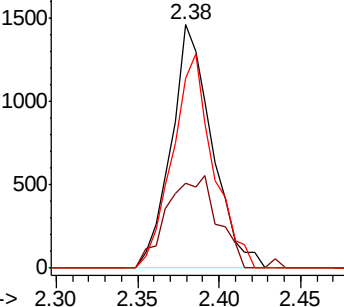
151 88.0 66.6 100.0

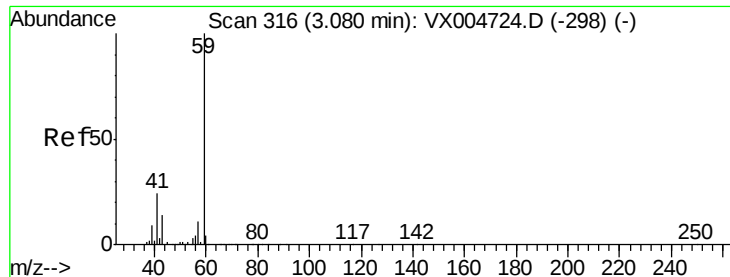


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

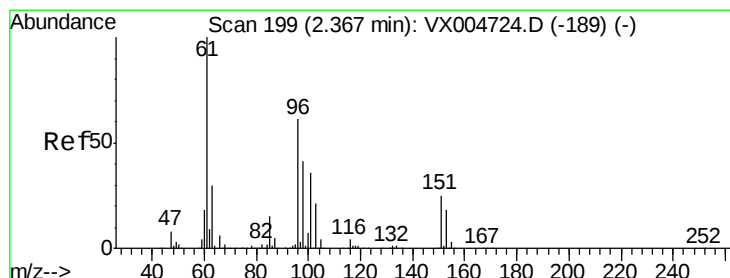
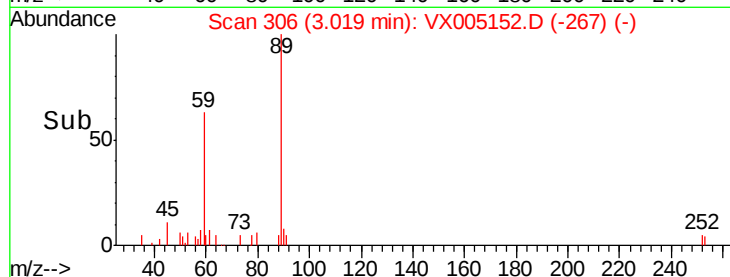
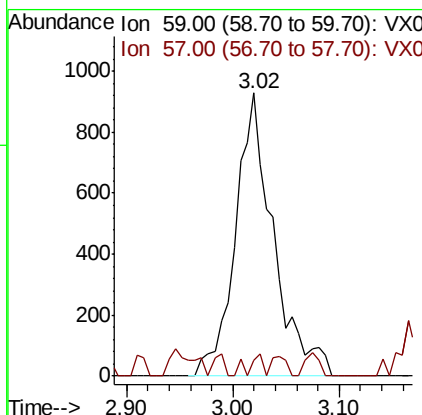
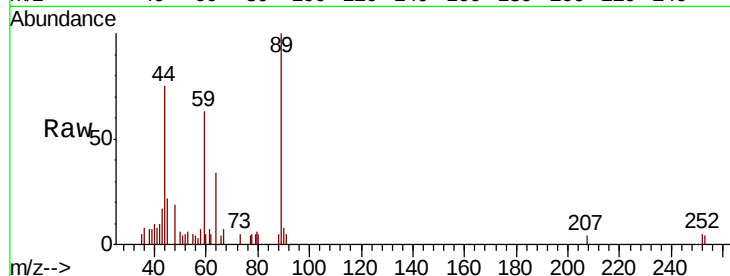




#11
Tert butyl alcohol
Concen: 2.975 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005152.D
Acq: 09 Oct 2018 03:10

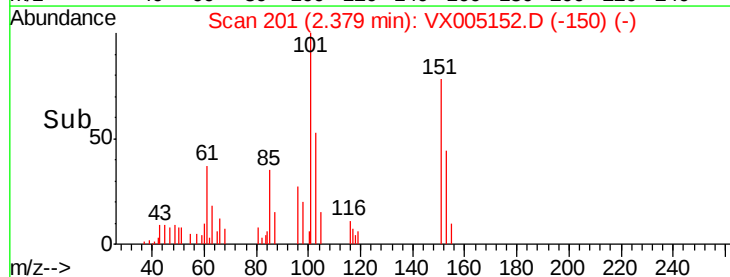
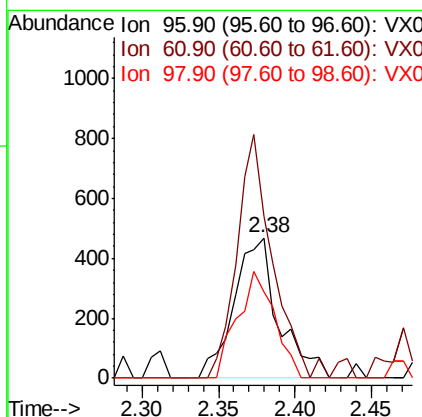
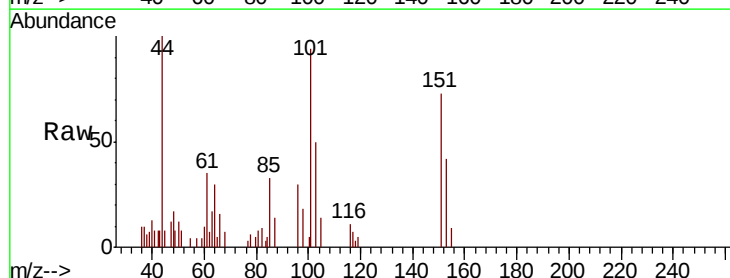
Instrument :
MSVOA_X
ClientSampleId :
TT-101D2-20180928DL

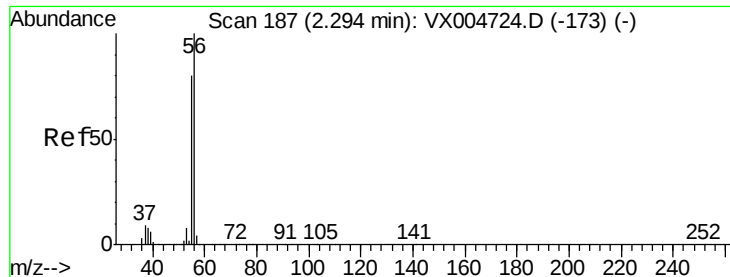
Tot Ion: 59 Resp: 2324
Ion Ratio Lower Upper
59 100
57 2.8 8.6 12.8#



#12
1,1-Dichloroethene
Concen: 0.448 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX005152.D
Acq: 09 Oct 2018 03:10

Tgt Ion: 96 Resp: 949
Ion Ratio Lower Upper
96 100
61 115.4 130.2 195.4#
98 61.5 53.4 80.0

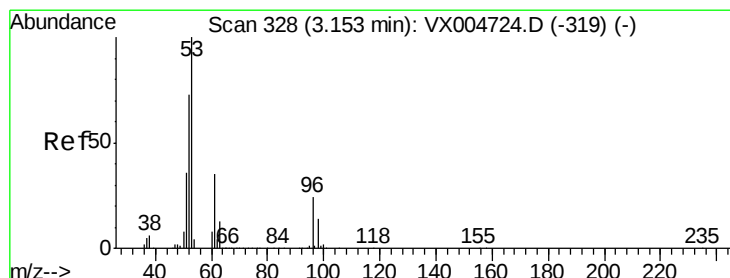
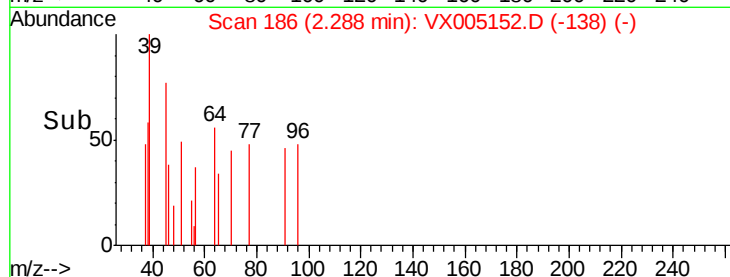
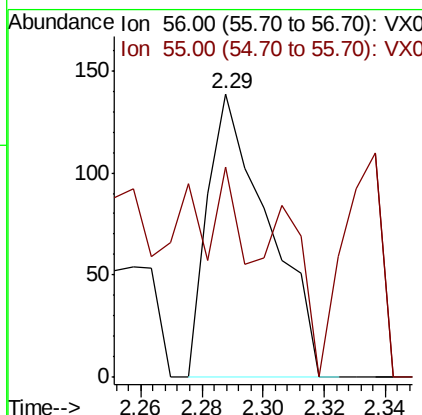
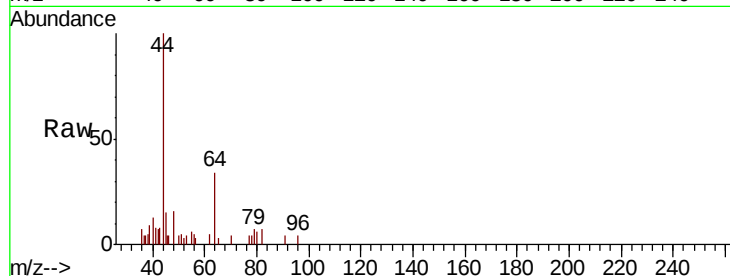




#13
Acrolein
Concen: 0.344 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX005152.D
Acq: 09 Oct 2018 03:10

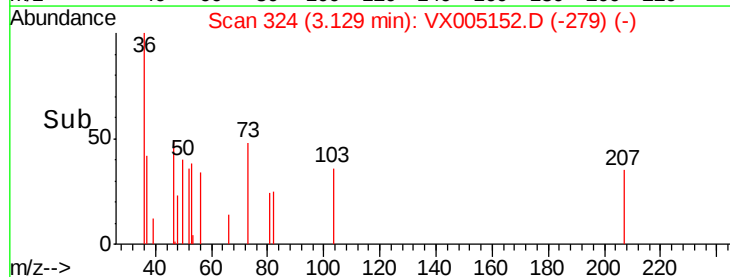
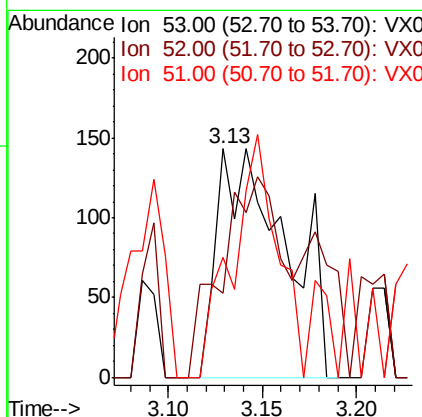
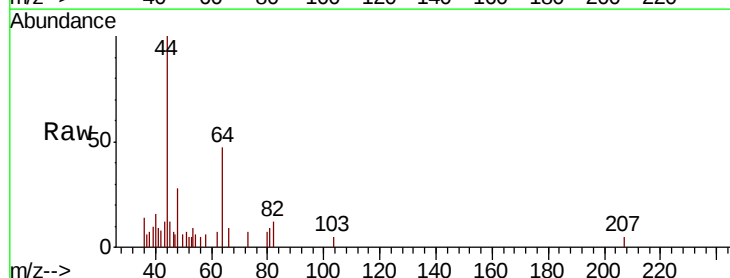
Instrument :
MSVOA_X
ClientSampleId :
TT-101D2-20180928DL

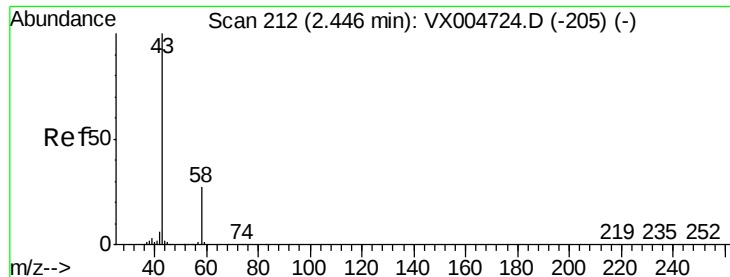
Tot Ion: 56 Resp: 191
Ion Ratio Lower Upper
56 100
55 7.9 63.4 95.2#



#15
Acrylonitrile
Concen: 0.208 ug/l
RT: 3.13 min Scan# 324
Delta R.T. -0.02 min
Lab File: VX005152.D
Acq: 09 Oct 2018 03:10

Tgt Ion: 53 Resp: 358
Ion Ratio Lower Upper
53 100
52 77.9 63.0 94.4
51 70.4 28.6 42.8#





#16

Acetone

Concen: 0.376 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005152.D

Acq: 09 Oct 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

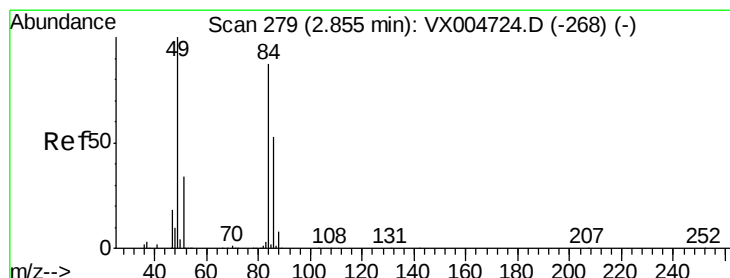
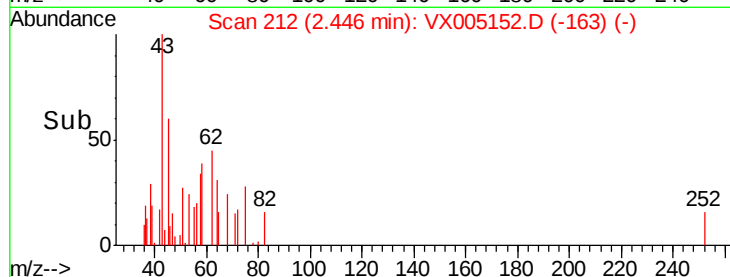
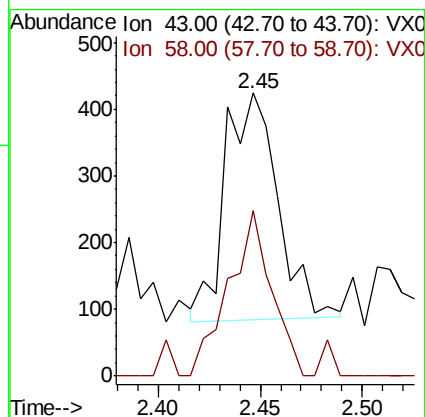
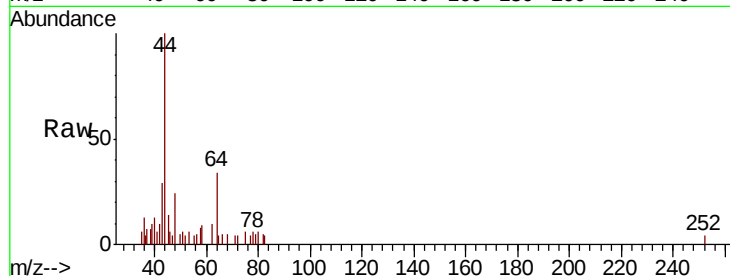
TT-101D2-20180928DL

Tot Ion: 43 Resp: 614

Ion Ratio Lower Upper

43 100

58 75.8 21.8 32.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005152.D

Acq: 09 Oct 2018 03:10

Tgt Ion: 84 Resp: 471

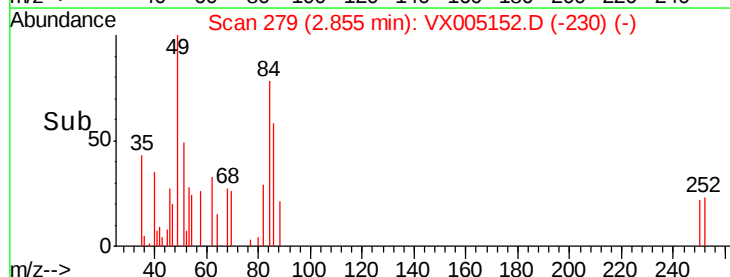
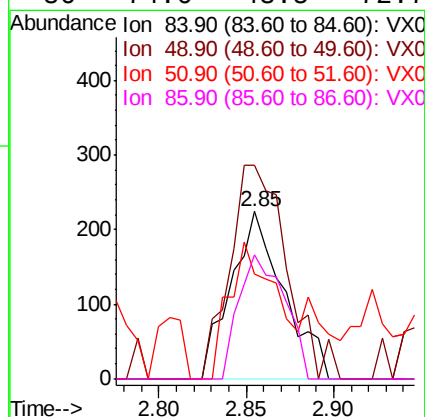
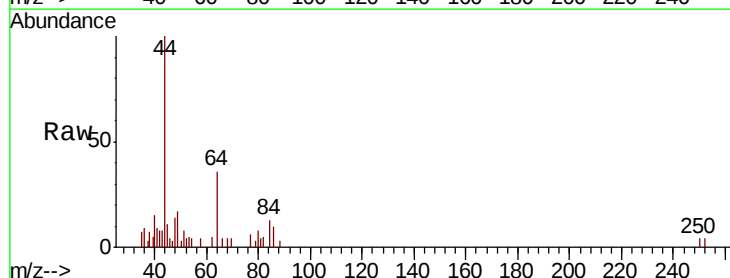
Ion Ratio Lower Upper

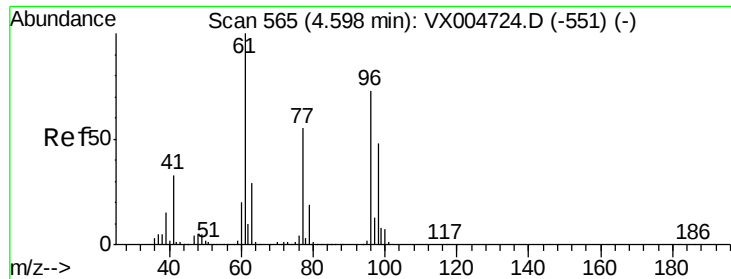
84 100

49 127.7 92.3 138.5

51 62.9 31.8 47.6#

86 74.6 48.5 72.7#



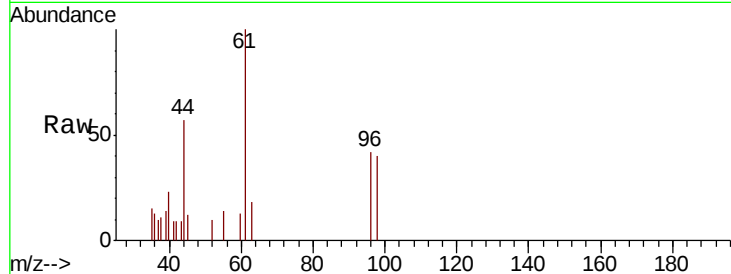


#27

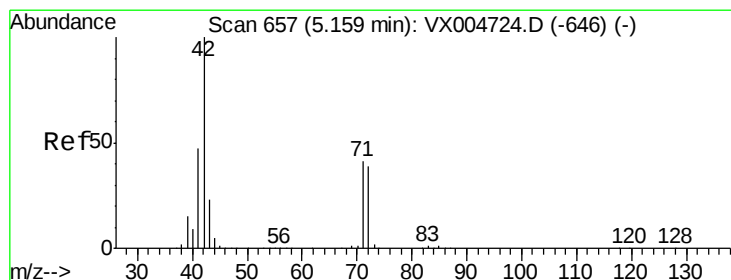
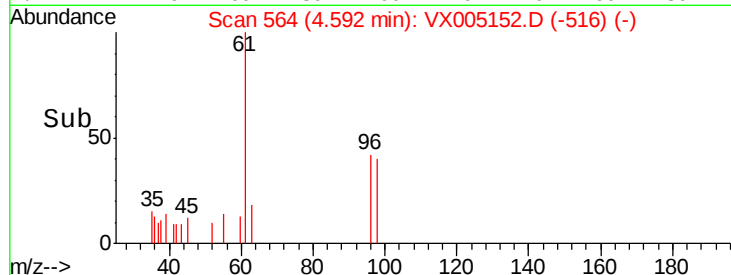
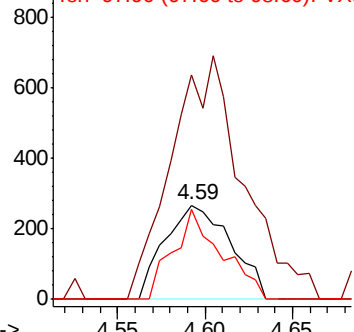
cis-1,2-Dichloroethene
 Concen: 0.270 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VX005152.D
 Acq: 09 Oct 2018 03:10

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-101D2-20180928DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	283.0	0.0	285.8
98	69.8	0.0	136.2



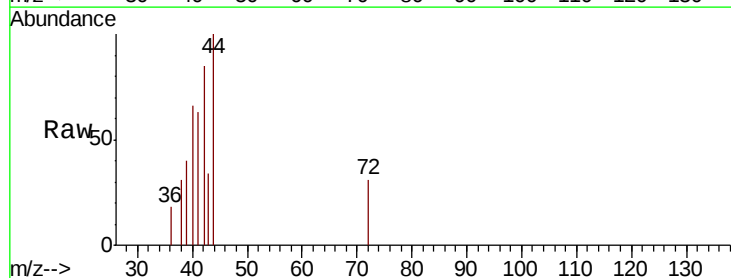
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



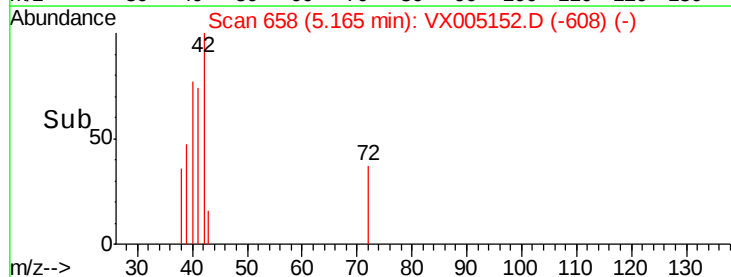
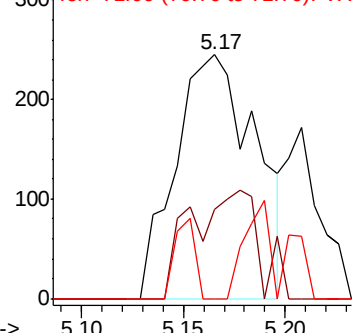
#29

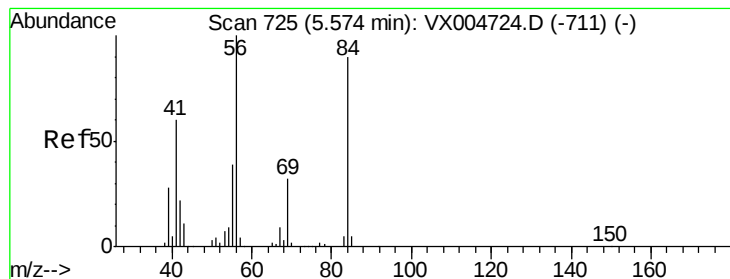
Tetrahydrofuran
 Concen: 0.448 ug/l
 RT: 5.17 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VX005152.D
 Acq: 09 Oct 2018 03:10

Tgt Ion	Ratio	Lower	Upper
42	100		
72	25.4	33.7	50.5#
71	0.0	32.2	48.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.045 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005152.D

Acq: 09 Oct 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

TT-101D2-20180928DL

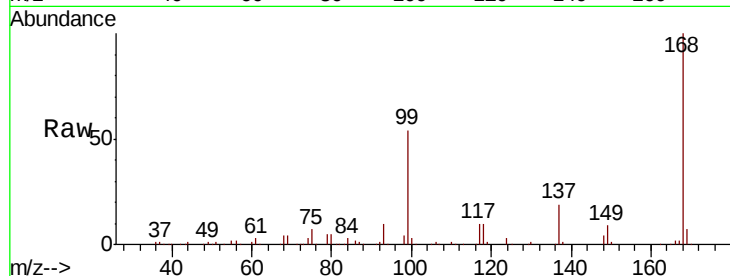
Tot Ion: 56 Resp: 3716

Ion Ratio Lower Upper

56 100

69 213.1 25.9 38.9#

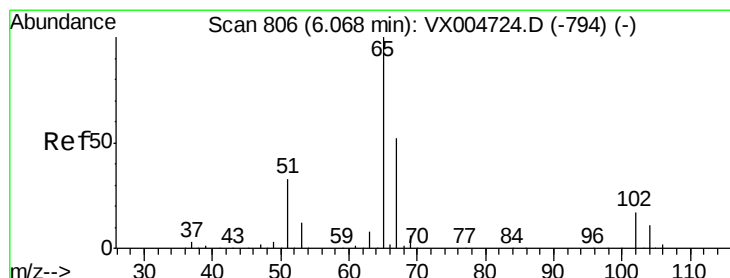
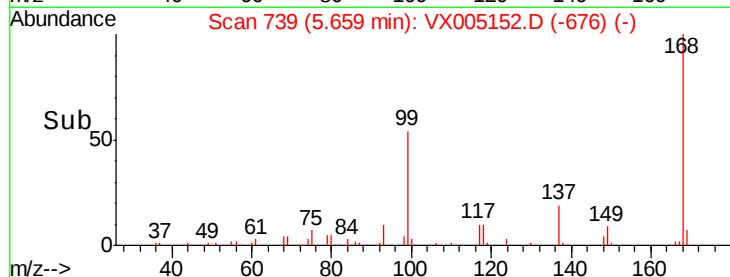
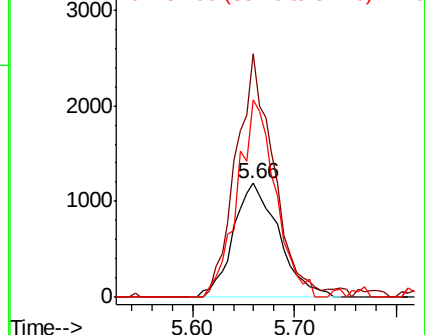
84 173.0 71.9 107.9#



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: 52.883 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005152.D

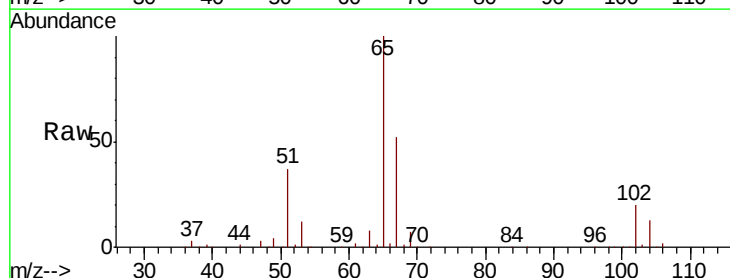
Acq: 09 Oct 2018 03:10

Tgt Ion: 65 Resp: 147758

Ion Ratio Lower Upper

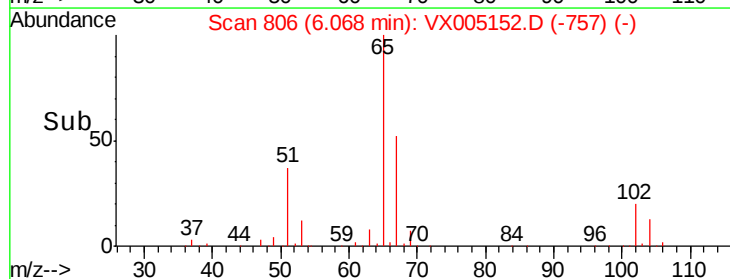
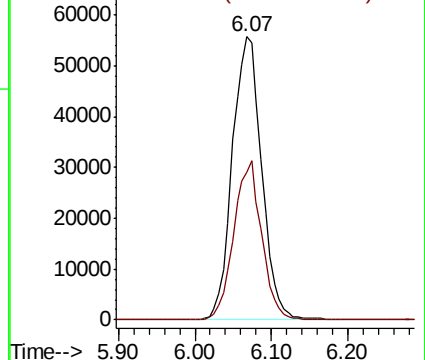
65 100

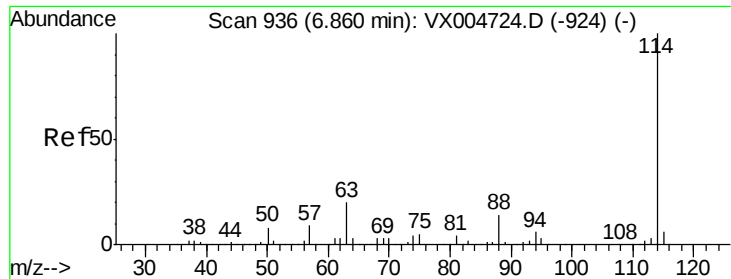
67 53.4 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

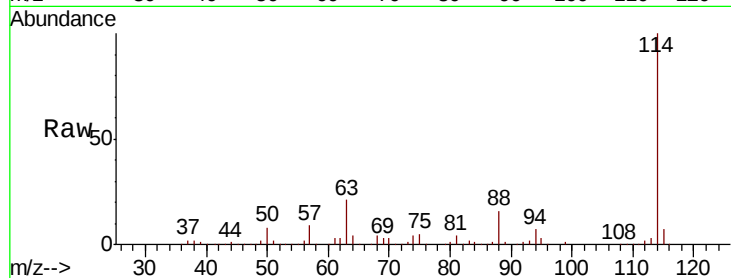




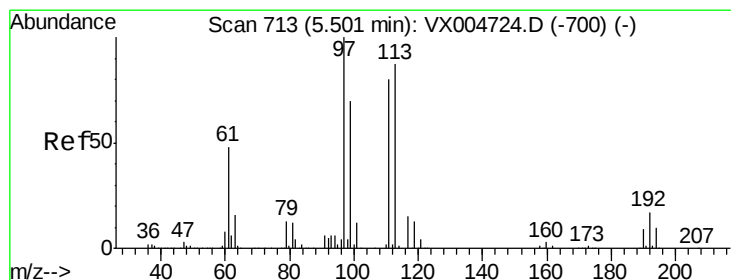
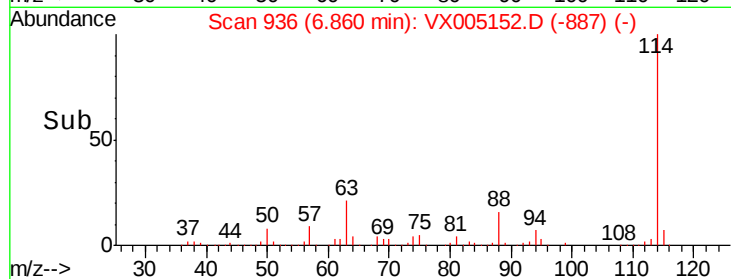
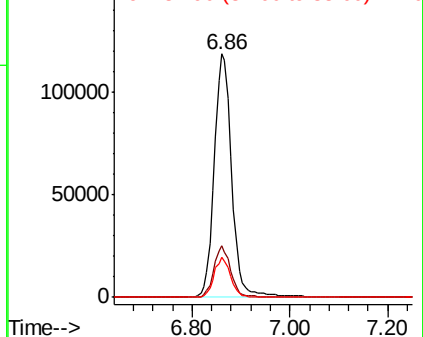
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005152.D
 Acq: 09 Oct 2018 03:10

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-101D2-20180928DL

Tot Ion:114 Resp: 294074
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 39.8
 88 16.3 0.0 27.0

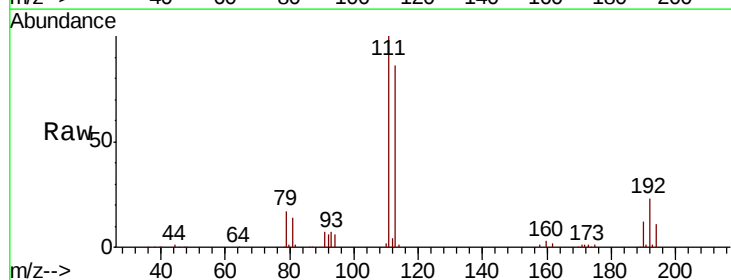


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

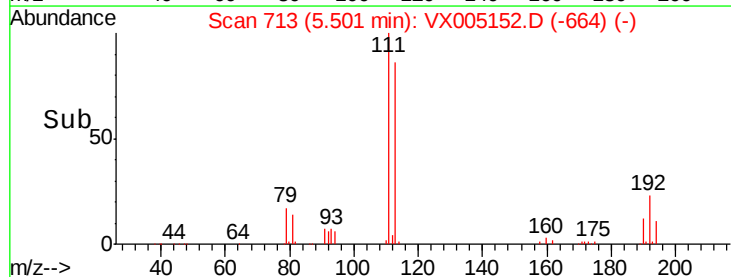
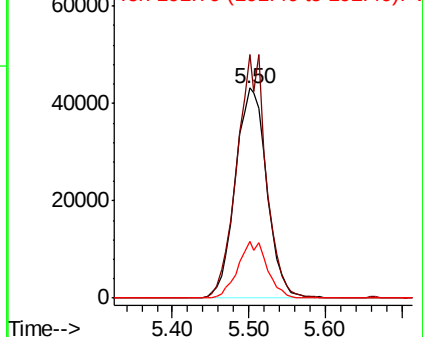


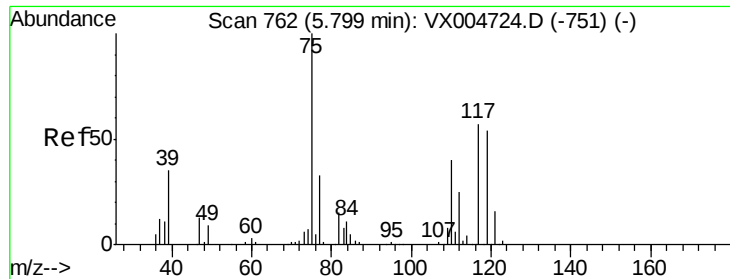
#35
 Dibromofluoromethane
 Concen: 49.506 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX005152.D
 Acq: 09 Oct 2018 03:10

Tgt Ion:113 Resp: 123385
 Ion Ratio Lower Upper
 113 100
 111 107.6 77.0 115.4
 192 25.1 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

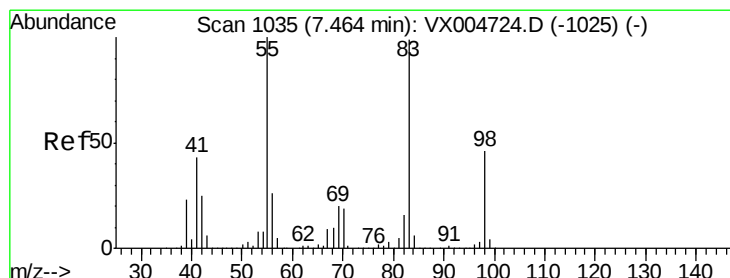
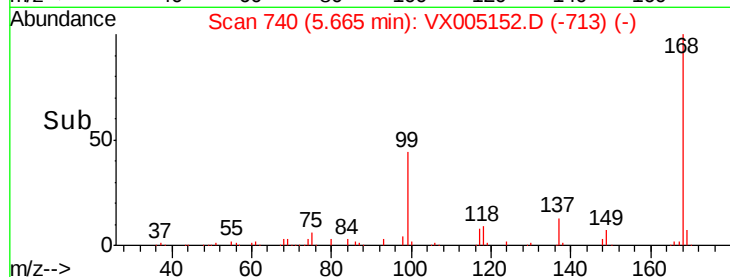
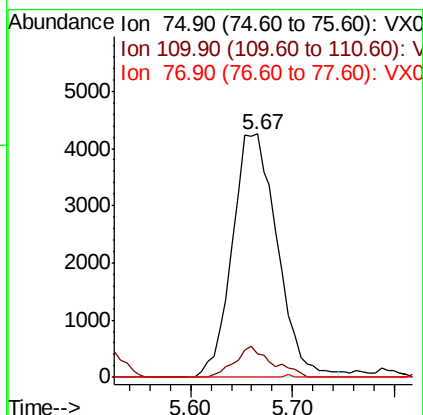
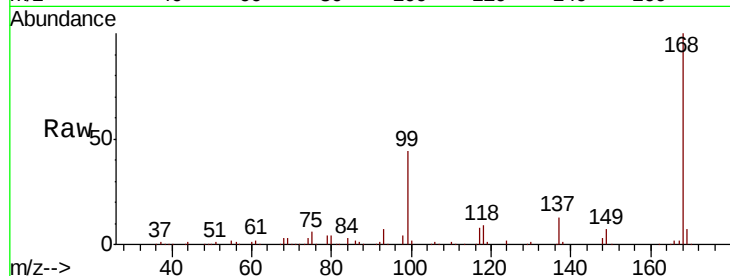




#36
 1,1-Dichloropropene
 Concen: 3.833 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005152.D
 Acq: 09 Oct 2018 03:10

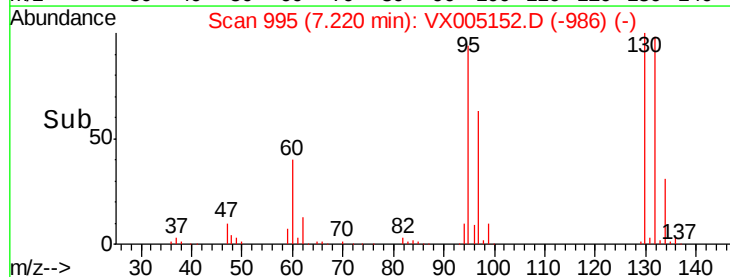
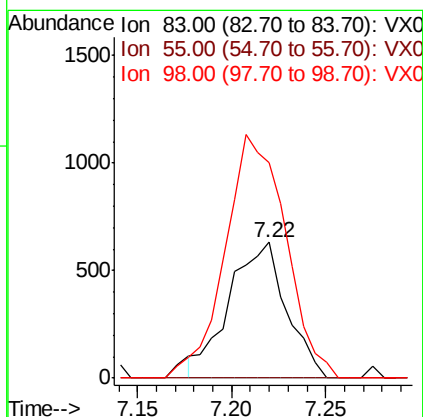
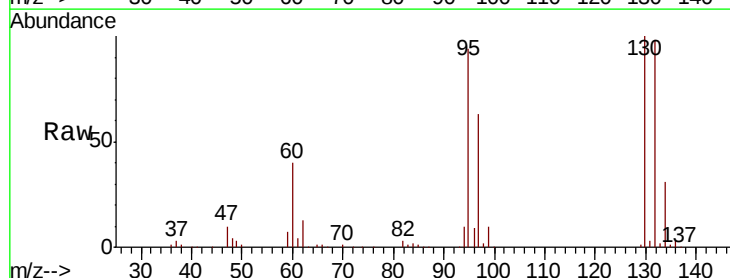
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-101D2-20180928DL

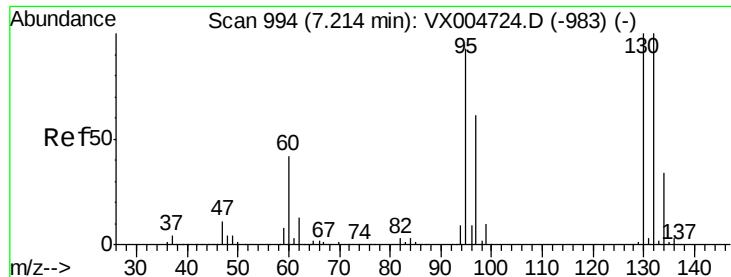
Tot Ion: 75 Resp: 13033
 Ion Ratio Lower Upper
 75 100
 110 10.5 20.0 59.9#
 77 0.0 27.1 40.7#



#39
 Methylcyclohexane
 Concen: 0.383 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. -0.24 min
 Lab File: VX005152.D
 Acq: 09 Oct 2018 03:10

Tgt Ion: 83 Resp: 1329
 Ion Ratio Lower Upper
 83 100
 55 0.0 81.1 121.7#
 98 174.6 37.3 55.9#





#44

Trichloroethene

Concen: 43.574 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX005152.D

Acq: 09 Oct 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

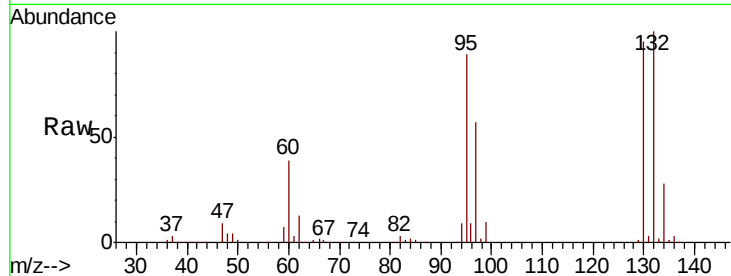
TT-101D2-20180928DL

Tot Ion:130 Resp: 114036

Ion Ratio Lower Upper

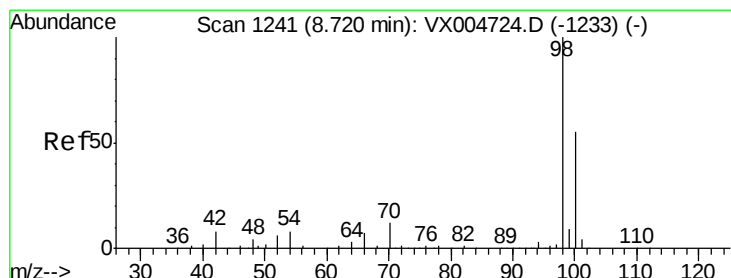
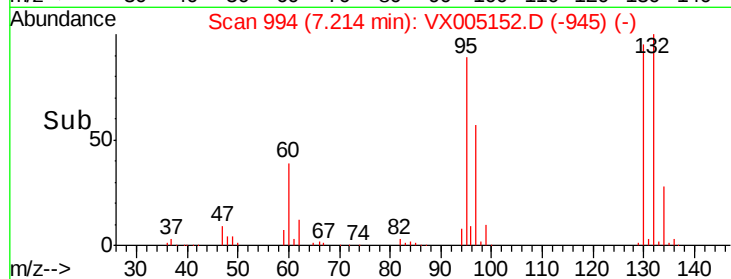
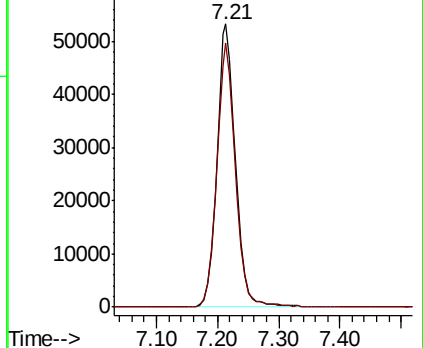
130 100

95 93.3 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 52.048 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX005152.D

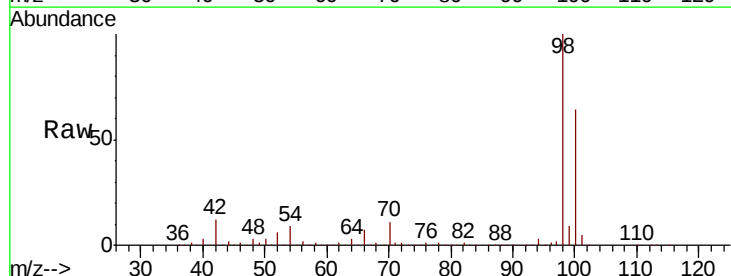
Acq: 09 Oct 2018 03:10

Tgt Ion: 98 Resp: 431253

Ion Ratio Lower Upper

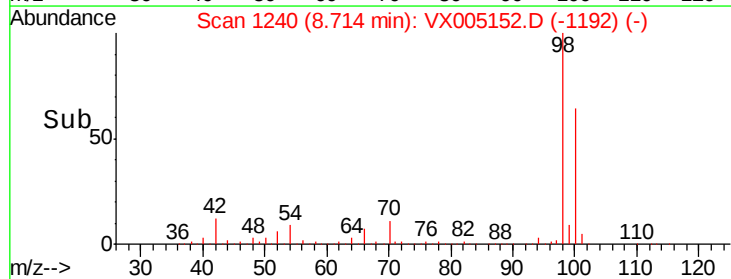
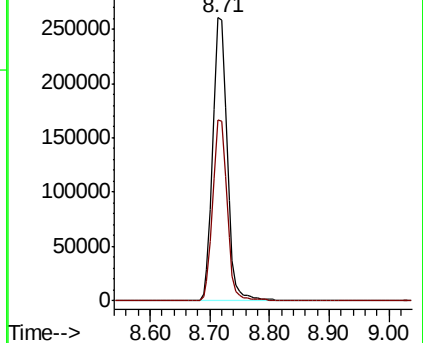
98 100

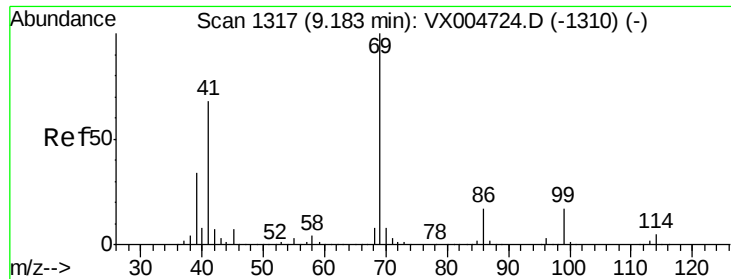
100 63.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

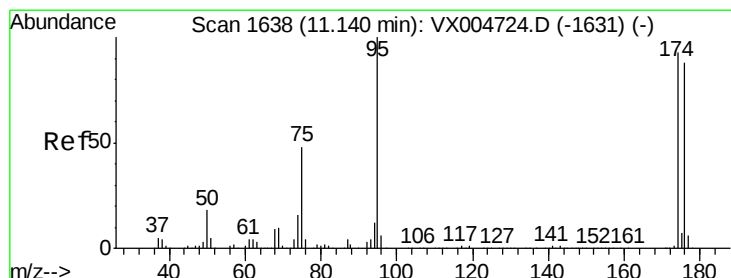
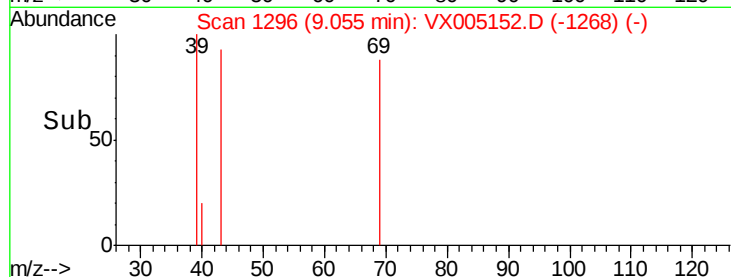
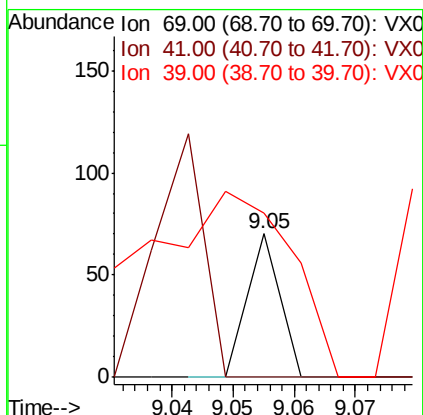
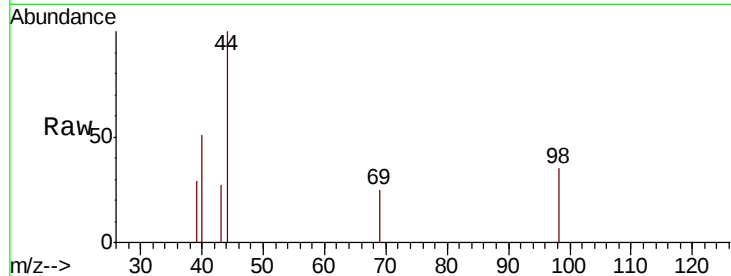




#56
Ethyl methacrylate
Concen: 2.868 ug/l
RT: 9.05 min Scan# 1296
Delta R.T. -0.13 min
Lab File: VX005152.D
Acq: 09 Oct 2018 03:10

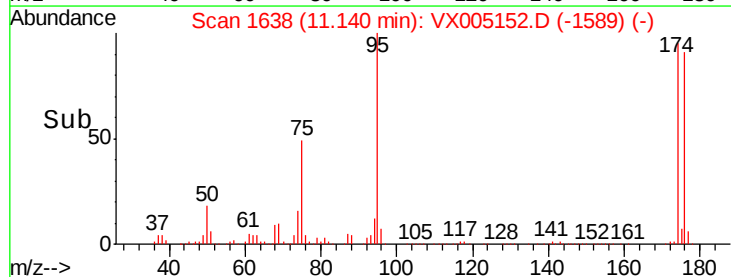
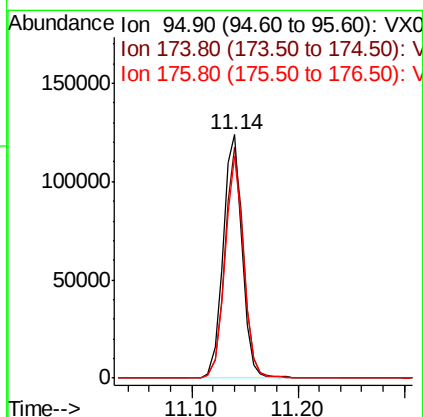
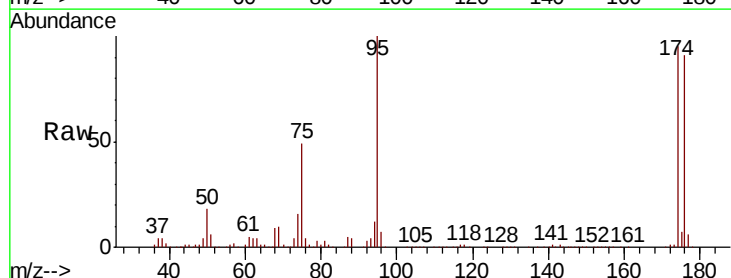
Instrument :
MSVOA_X
ClientSampleID :
TT-101D2-20180928DL

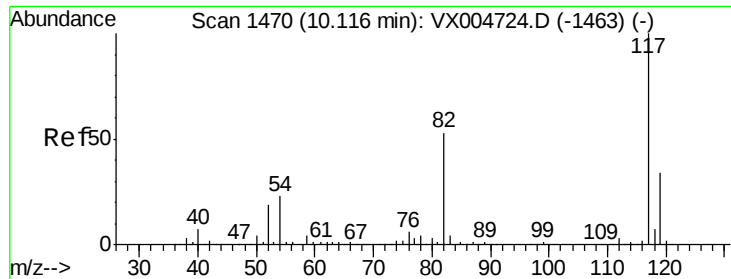
Tot Ion: 69 Resp: 26
Ion Ratio Lower Upper
69 100
41 253.8 56.9 85.3#
39 650.0 28.4 42.6#



#62
4-Bromofluorobenzene
Concen: 51.855 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005152.D
Acq: 09 Oct 2018 03:10

Tgt Ion: 95 Resp: 154785
Ion Ratio Lower Upper
95 100
174 93.8 0.0 185.0
176 89.6 0.0 180.2

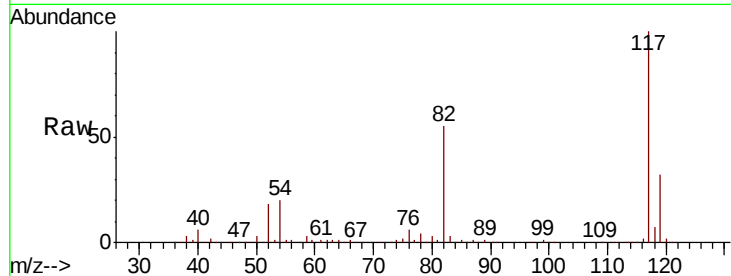




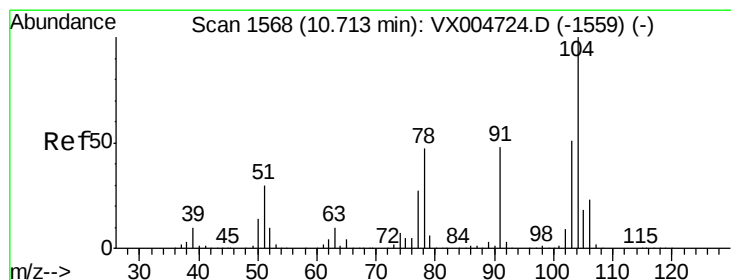
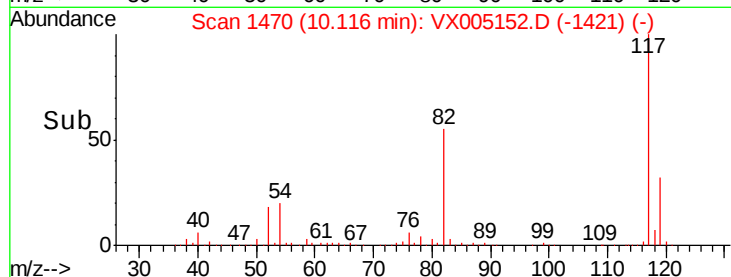
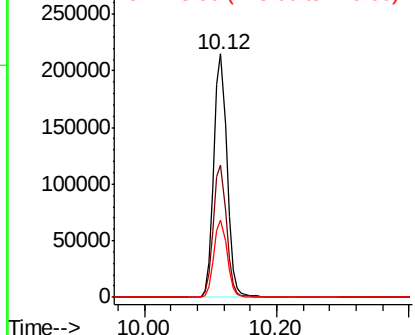
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005152.D
Acq: 09 Oct 2018 03:10

Instrument :
MSVOA_X
ClientSampleId :
TT-101D2-20180928DL

Tot Ion:117 Resp: 295703
Ion Ratio Lower Upper
117 100
82 54.6 42.2 63.4
119 31.7 27.4 41.0

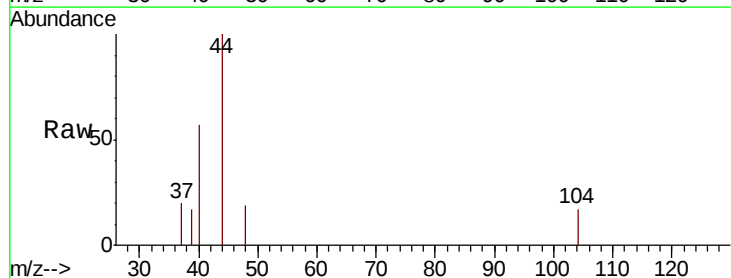


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

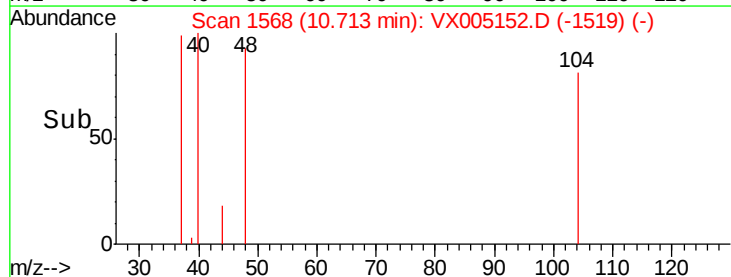
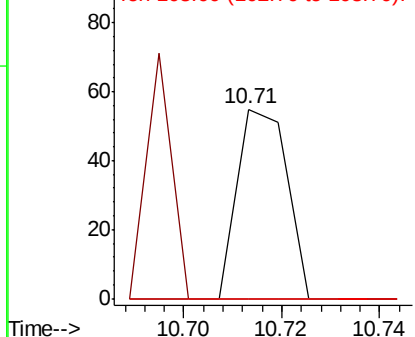


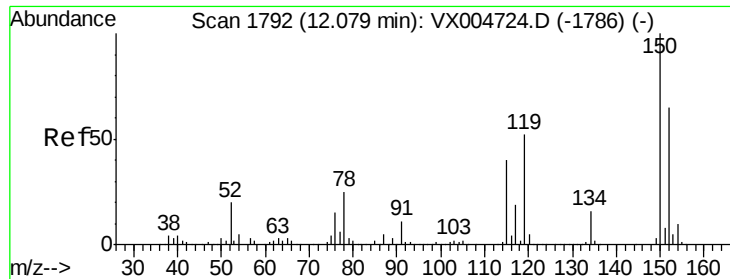
#70
Styrene
Concen: 2.145 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX005152.D
Acq: 09 Oct 2018 03:10

Tgt Ion:104 Resp: 39
Ion Ratio Lower Upper
104 100
78 66.7 40.0 60.0#
103 0.0 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: VX005152.D

Acq: 09 Oct 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

TT-101D2-20180928DL

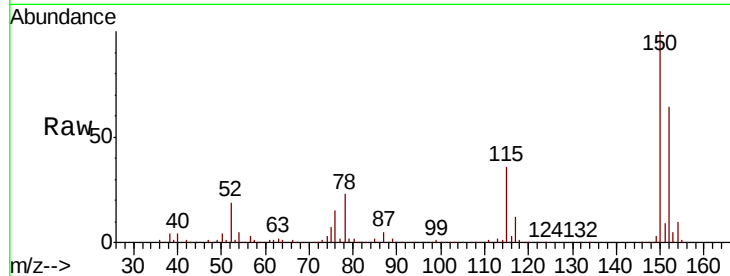
Tot Ion:152 Resp: 163836

Ion Ratio Lower Upper

152 100

115 55.8 40.2 120.6

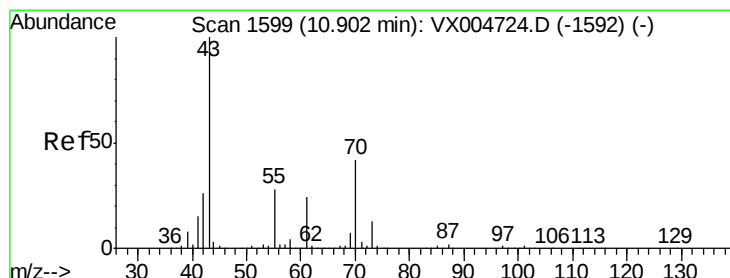
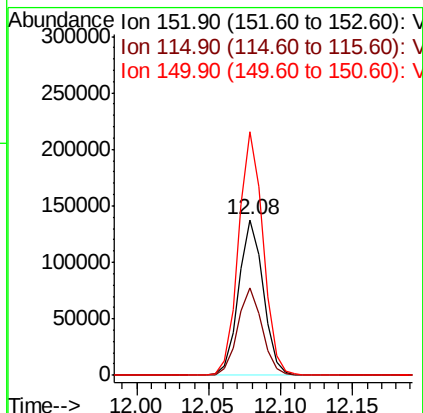
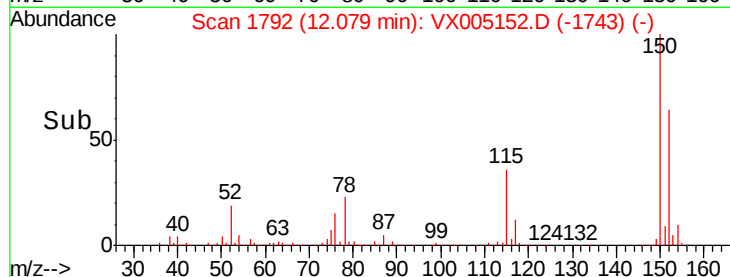
150 156.4 0.0 351.0



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: 1.755 ug/l

RT: 10.93 min Scan# 1603

Delta R.T. 0.02 min

Lab File: VX005152.D

Acq: 09 Oct 2018 03:10

Tgt Ion: 43 Resp: 40

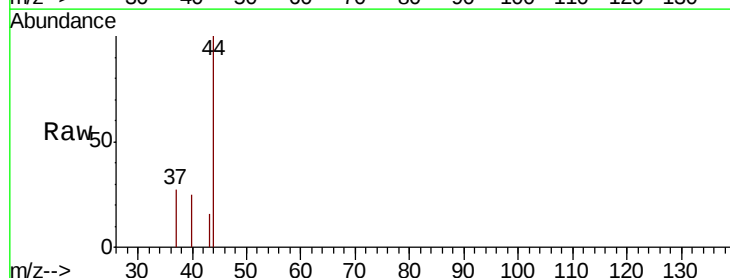
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

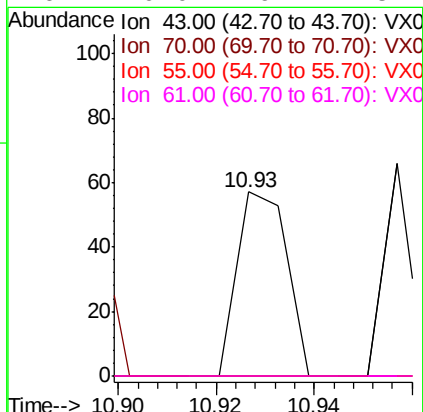
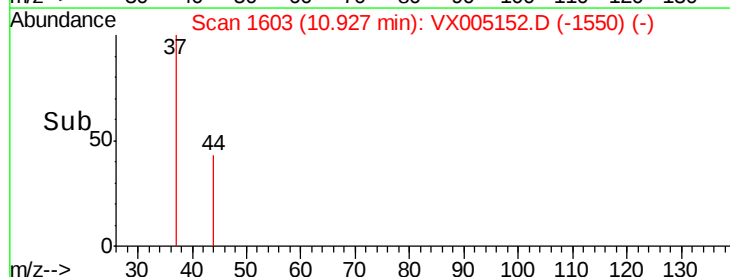


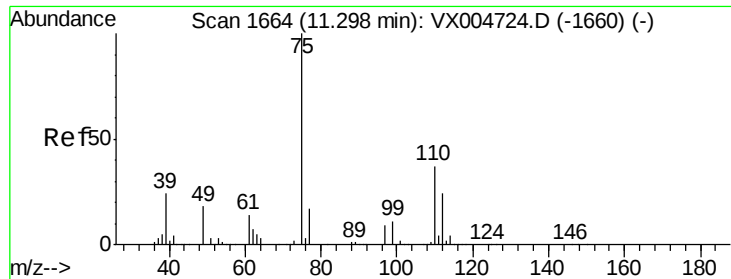
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

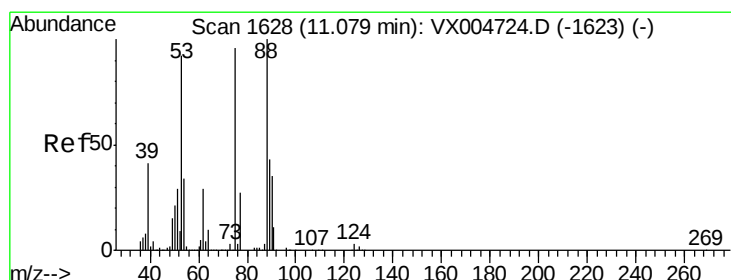
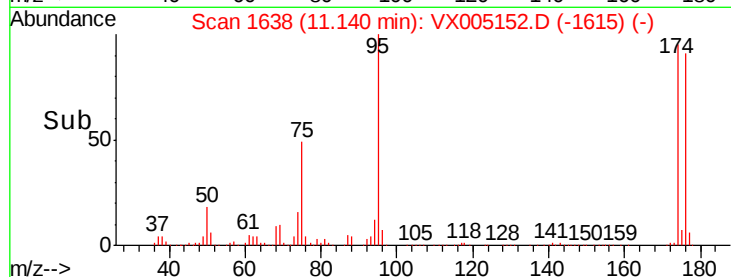
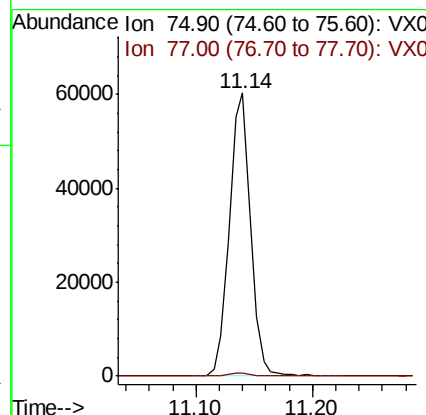
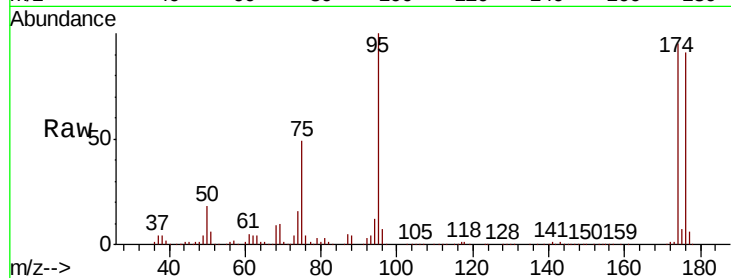




#76
 1,2,3-Trichloropropane
 Concen: 20.665 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005152.D
 Acq: 09 Oct 2018 03:10

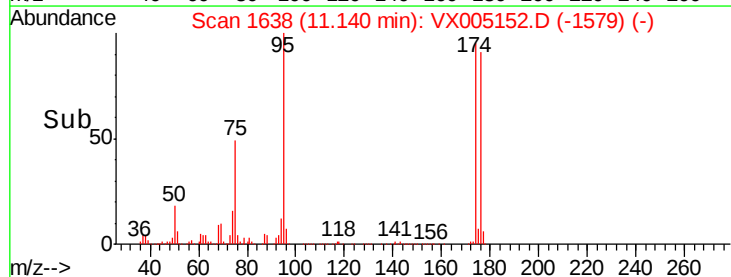
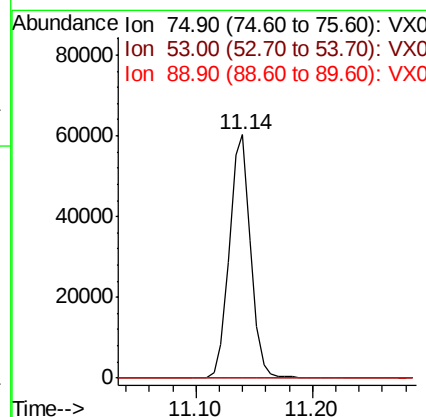
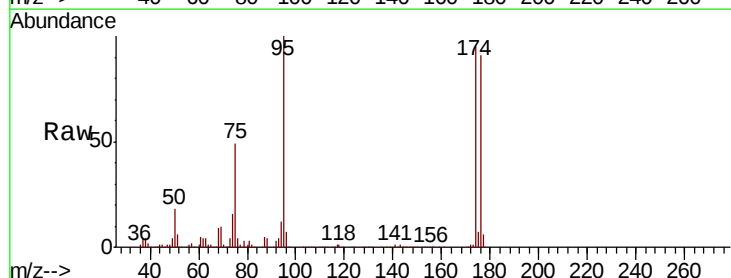
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-101D2-20180928DL

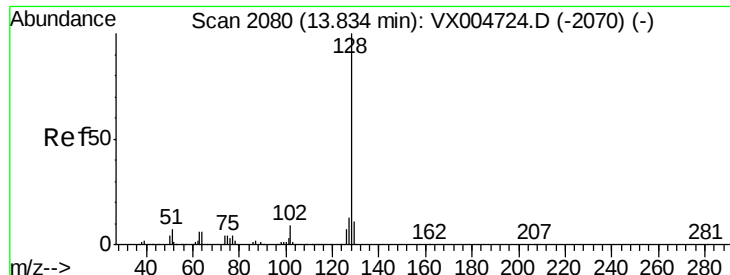
Tot Ion: 75 Resp: 75887
 Ion Ratio Lower Upper
 75 100
 77 1.2 21.4 64.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.110 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.06 min
 Lab File: VX005152.D
 Acq: 09 Oct 2018 03:10

Tgt Ion: 75 Resp: 75887
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.2 120.4#
 89 0.0 37.1 55.7#





#95

Naphthalene

Concen: 0.741 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005152.D

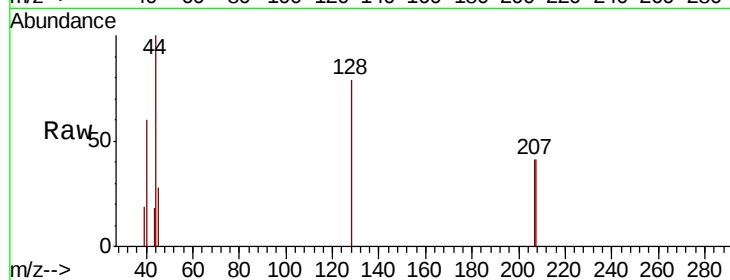
Acq: 09 Oct 2018 03:10

Instrument :

MSVOA_X

ClientSampleId :

TT-101D2-20180928DL



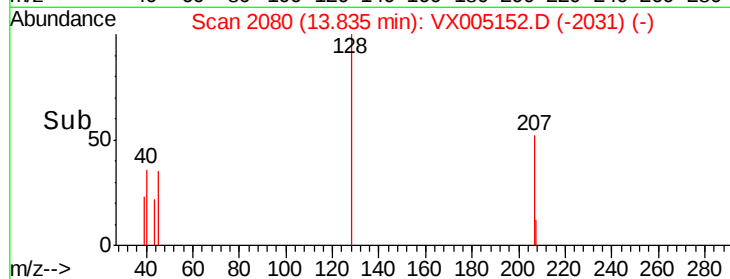
Tot Ion:128 Resp: 297

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

