

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101118\
 Data File : VX005268.D
 Acq On : 11 Oct 2018 21:47
 Operator : JC/MD
 Sample : J5393-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-123D2-20181008

Quant Time: Oct 12 07:12:14 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	181587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	264390	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	267355	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	150659	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	143367	55.27	ug/l	0.00
Spiked Amount			Recovery	=	110.54%	
35) Dibromofluoromethane	5.50	113	125469	55.99	ug/l	0.00
Spiked Amount			Recovery	=	111.98%	
50) Toluene-d8	8.72	98	388120	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	
62) 4-Bromofluorobenzene	11.14	95	139305	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	825	Below Cal	#	45
9) 1,1,2-Trichlorotrifluoroet	2.39	101	725	0.365	ug/l #	90
11) Tert butyl alcohol	3.03	59	5215	7.190	ug/l #	77
12) 1,1-Dichloroethene	2.37	96	591	0.300	ug/l #	88
13) Acrolein	2.32	56	143	0.277	ug/l #	10
16) Acetone	2.45	43	8599	5.678	ug/l #	89
20) Methylene Chloride	2.85	84	286	Below Cal	#	75
31) Cyclohexane	5.67	56	3511	1.064	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	12704	4.155	ug/l #	45
38) Carbon Tetrachloride	5.66	117	16202	5.042	ug/l #	19
44) Trichloroethene	7.21	130	6005	2.552	ug/l	83
49) 1,4-Dioxane	7.76	88	153	2.316	ug/l #	71
51) 4-Methyl-2-Pentanone	8.71	43	1784	0.484	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.04	63	20	14.252	ug/l #	49
60) Dibromochloromethane	9.34	129	1936	0.840	ug/l #	10
64) Tetrachloroethene	9.34	164	2254	0.857	ug/l #	81
74) N-amyl acetate	10.91	43	128	1.772	ug/l #	53
76) 1,2,3-Trichloropropane	11.14	75	69916	20.705	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	69916	56.212	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	185	Below Cal	#	51
95) Naphthalene	13.83	128	230	0.738	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

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ClientSampleId :

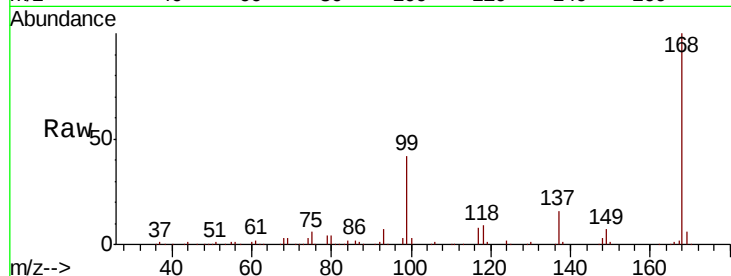
RE-123D2-20181008

Tot Ion:168 Resp: 181587

Ion Ratio Lower Upper

168 100

99 41.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

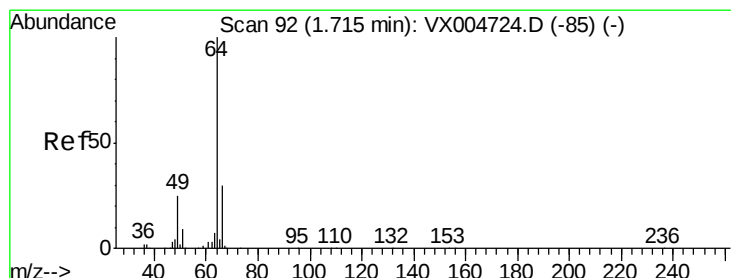
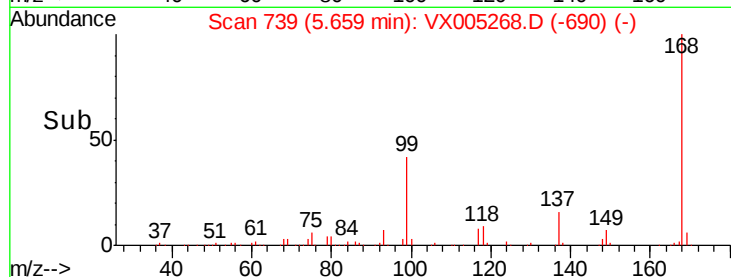
40000

20000

0

Time-->

5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX005268.D

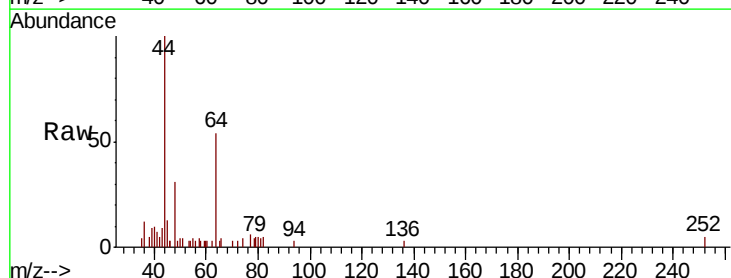
Acq: 11 Oct 2018 21:47

Tgt Ion: 64 Resp: 825

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

1.70

1200

1000

800

600

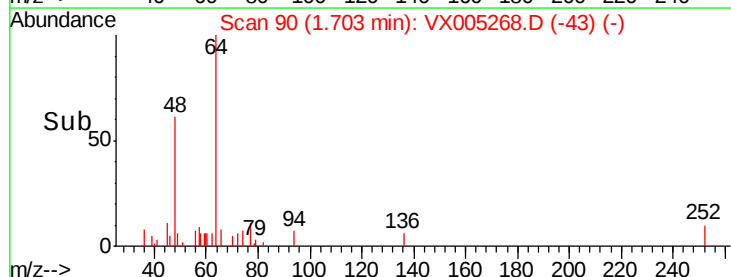
400

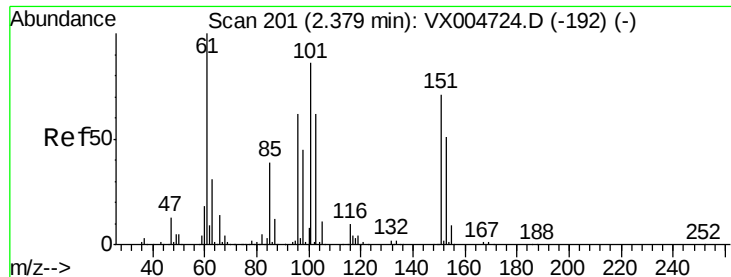
200

0

Time-->

1.66 1.68 1.70 1.72 1.74





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.365 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

Instrument :

MSVOA_X

ClientSampleId :

RE-123D2-20181008

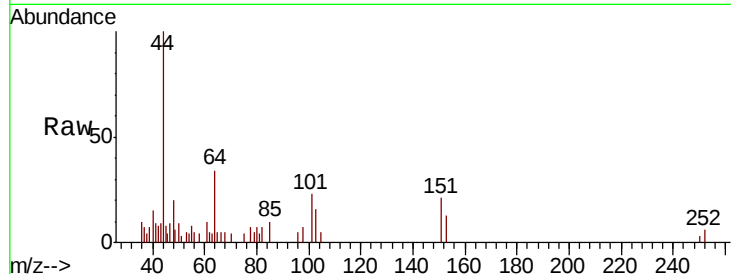
Tot Ion:101 Resp: 725

Ion Ratio Lower Upper

101 100

85 59.9 35.9 53.9#

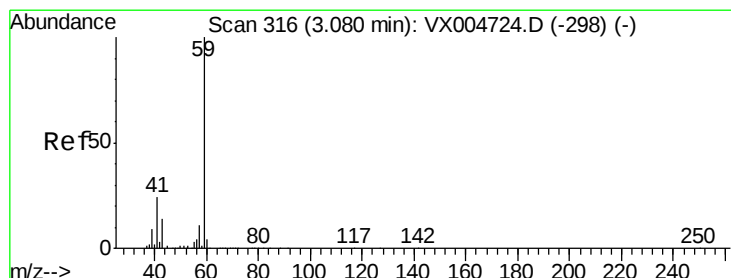
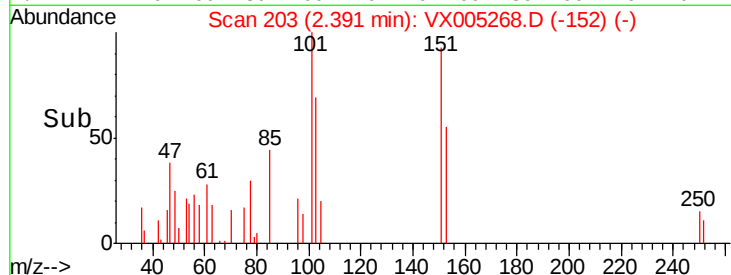
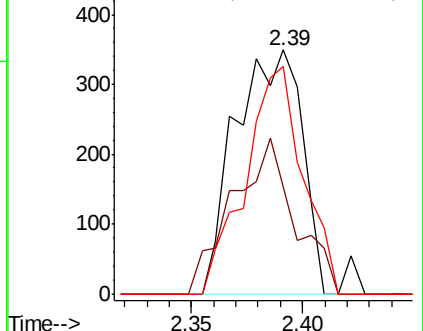
151 80.8 66.6 100.0



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: 7.190 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005268.D

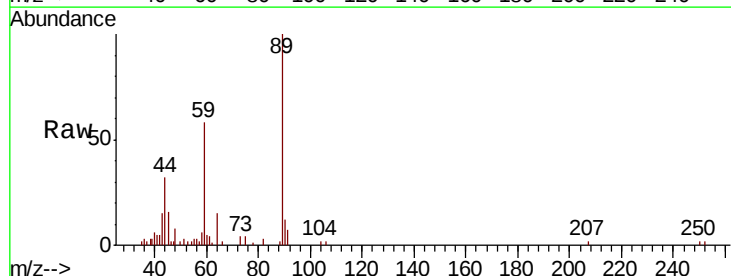
Acq: 11 Oct 2018 21:47

Tgt Ion: 59 Resp: 5215

Ion Ratio Lower Upper

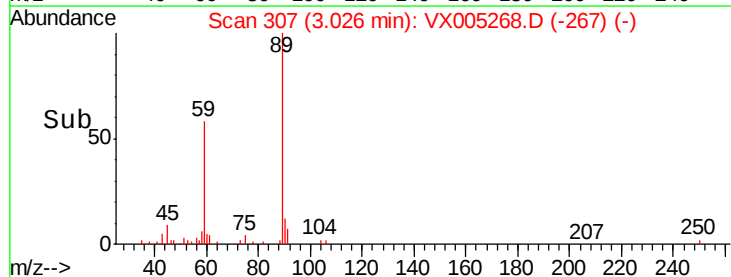
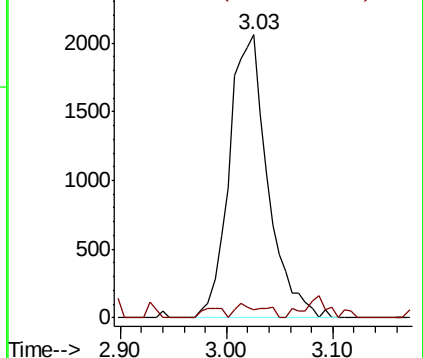
59 100

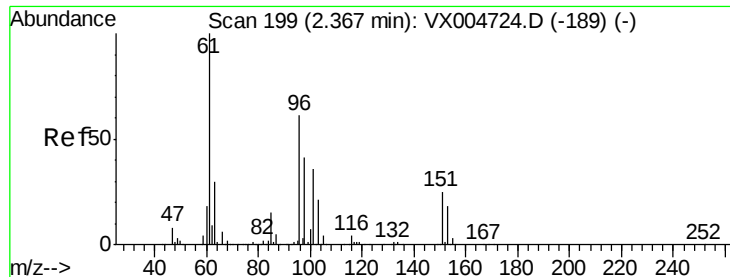
57 2.1 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.300 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

Instrument :

MSVOA_X

ClientSampleId :

RE-123D2-20181008

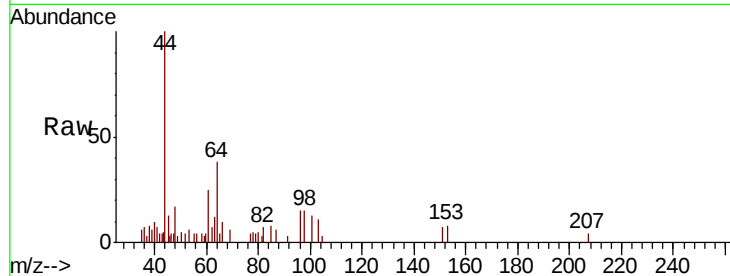
Tot Ion: 96 Resp: 591

Ion Ratio Lower Upper

96 100

61 165.6 130.2 195.4

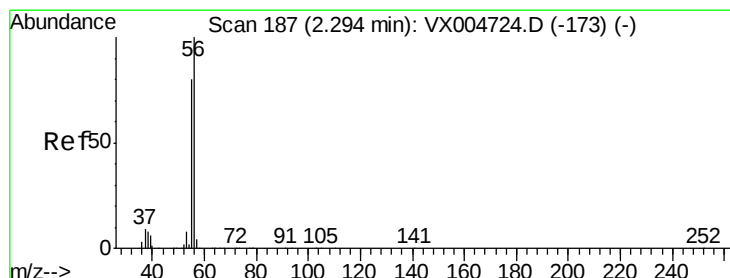
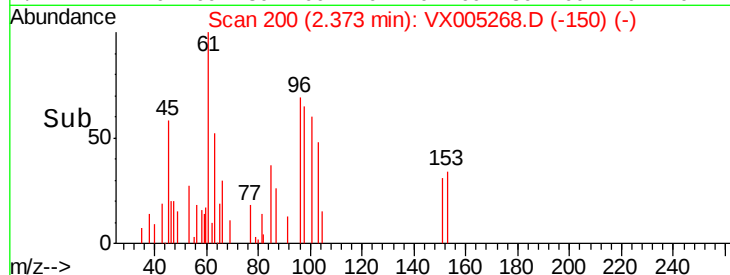
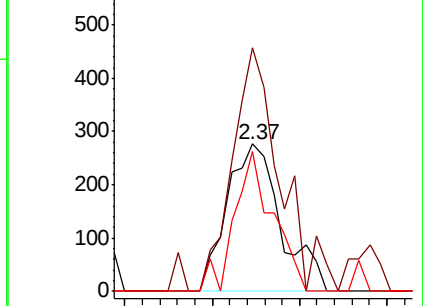
98 94.9 53.4 80.0#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.277 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX005268.D

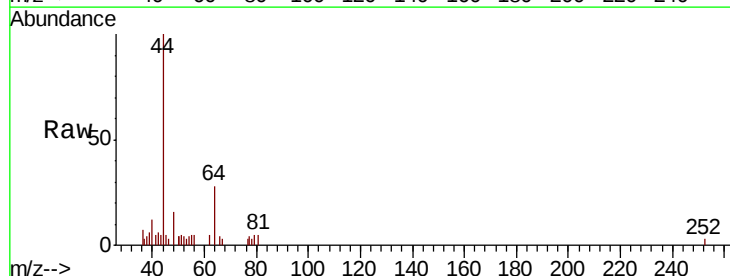
Acq: 11 Oct 2018 21:47

Tgt Ion: 56 Resp: 143

Ion Ratio Lower Upper

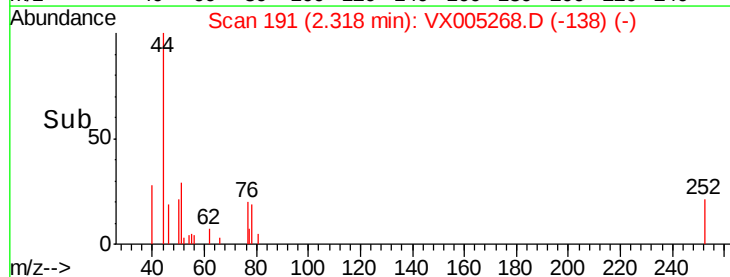
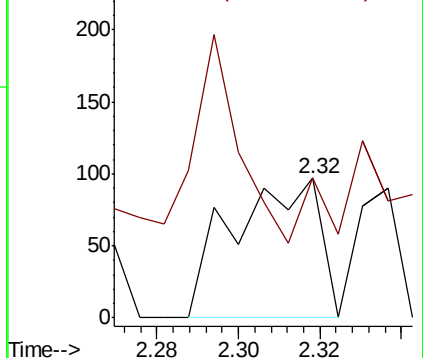
56 100

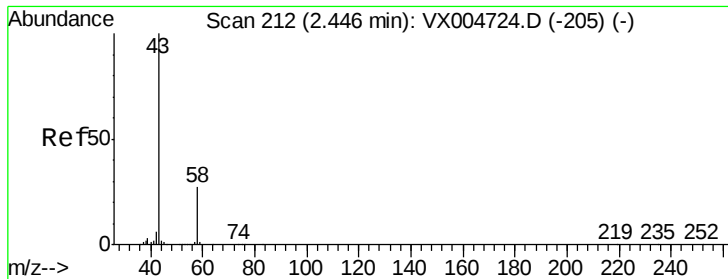
55 0.0 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 5.678 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

Instrument :

MSVOA_X

ClientSampleId :

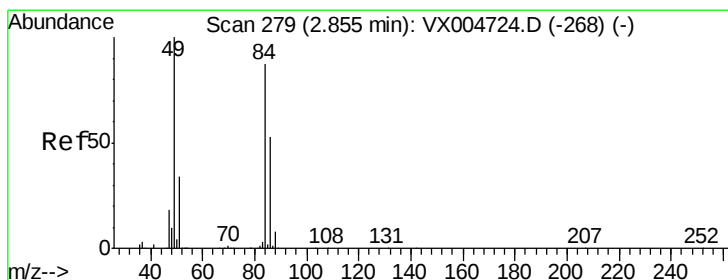
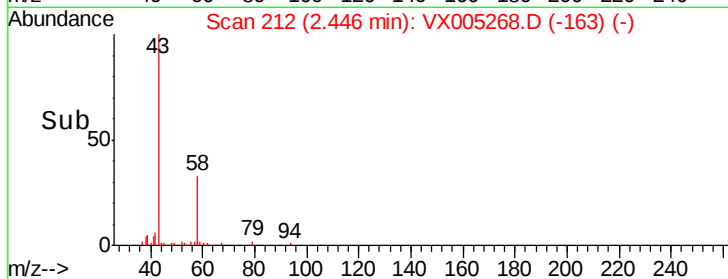
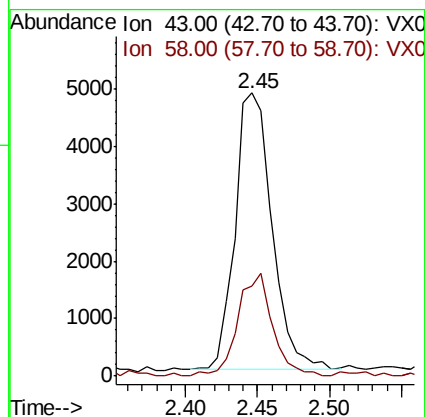
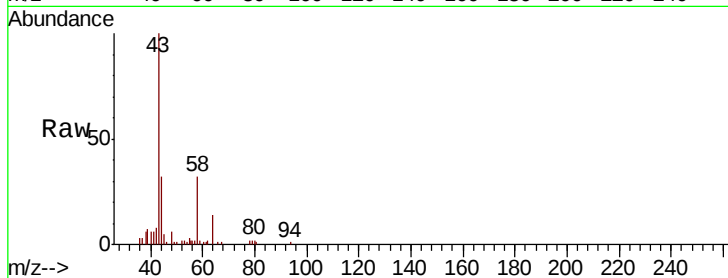
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Tot Ion: 43 Resp: 8599

Ion Ratio Lower Upper

43 100

58 32.7 21.8 32.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

Tgt Ion: 84 Resp: 286

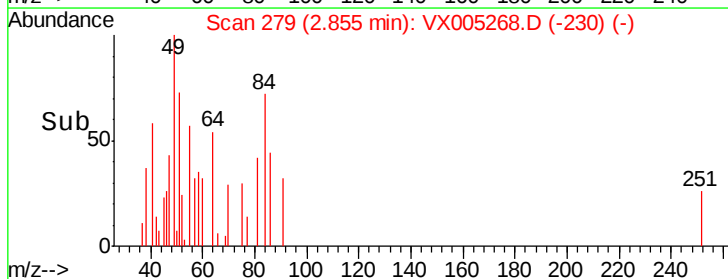
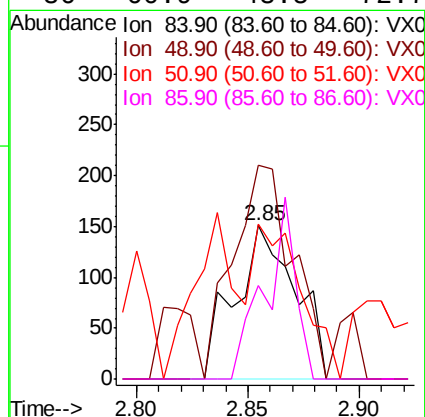
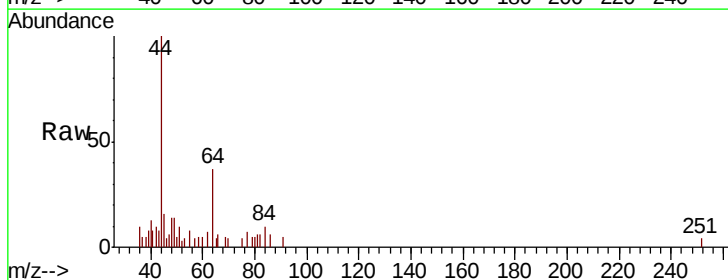
Ion Ratio Lower Upper

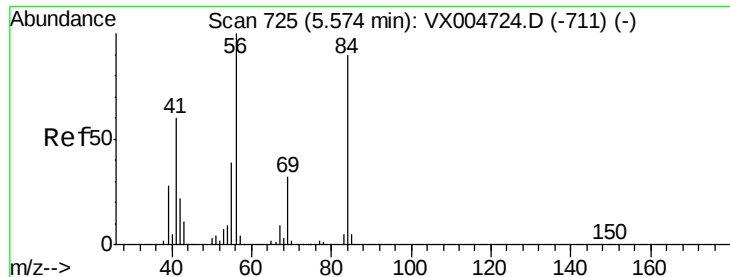
84 100

49 102.0 92.3 138.5

51 101.3 31.8 47.6#

86 60.9 48.5 72.7

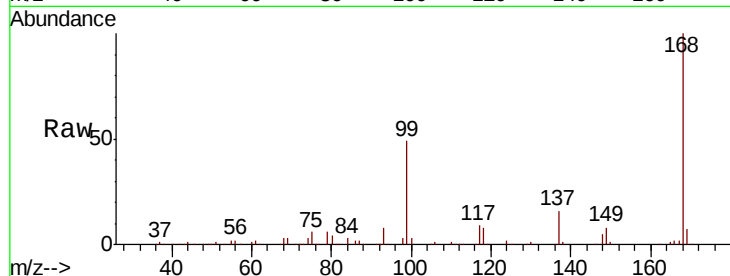




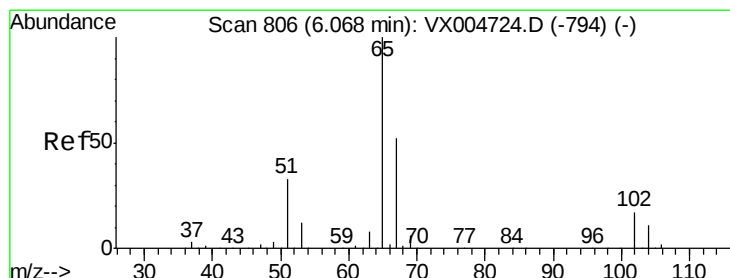
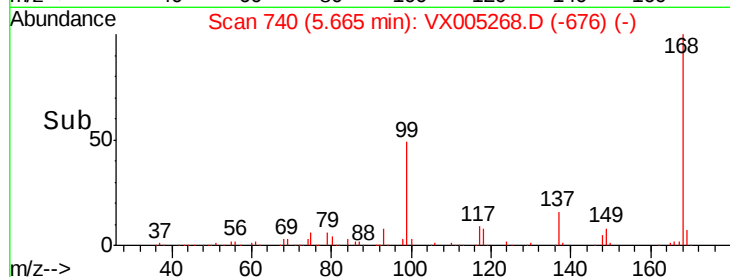
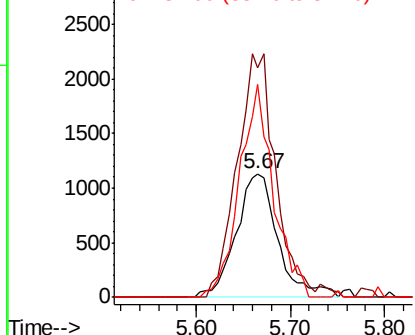
#31
Cyclohexane
Concen: 1.064 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005268.D
Acq: 11 Oct 2018 21:47

Instrument :
MSVOA_X
ClientSampleId :
RE-123D2-20181008

Tot Ion: 56 Resp: 3511
Ion Ratio Lower Upper
56 100
69 185.6 25.9 38.9#
84 172.2 71.9 107.9#

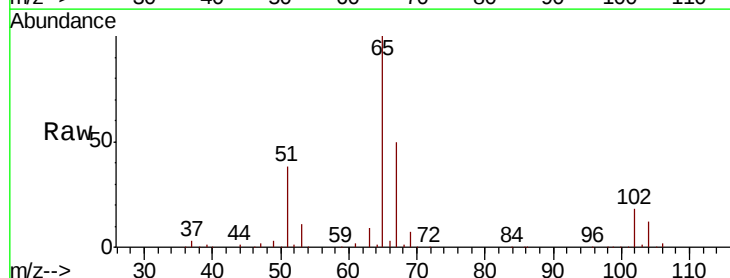


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

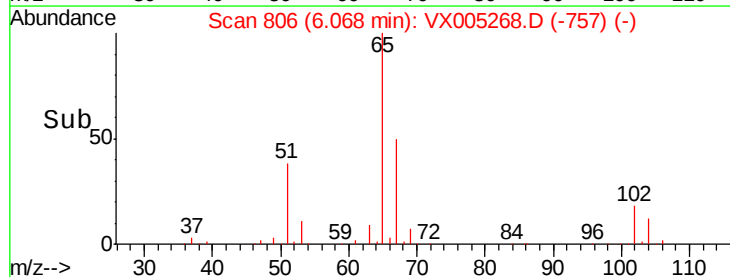
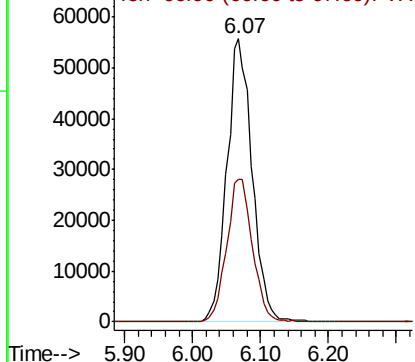


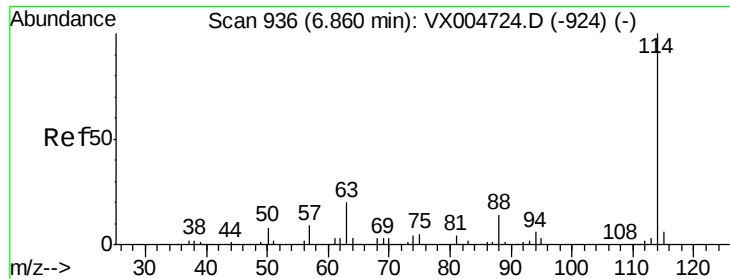
#33
1,2-Dichloroethane-d4
Concen: 55.269 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX005268.D
Acq: 11 Oct 2018 21:47

Tgt Ion: 65 Resp: 143367
Ion Ratio Lower Upper
65 100
67 51.2 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

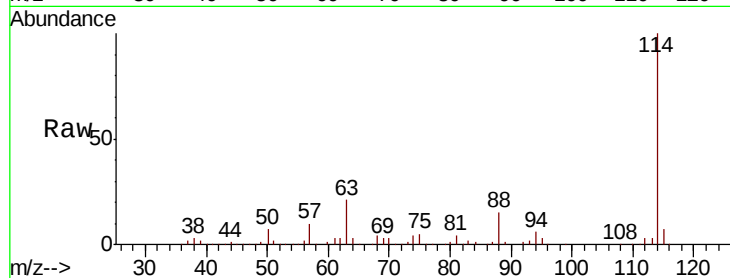




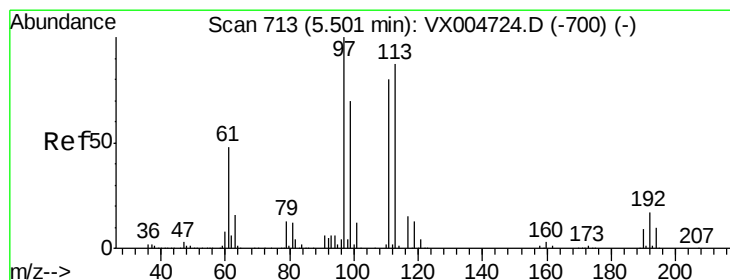
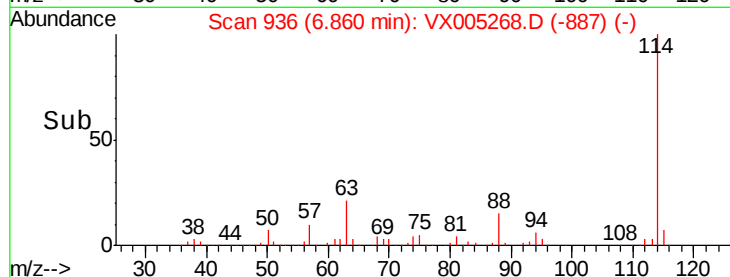
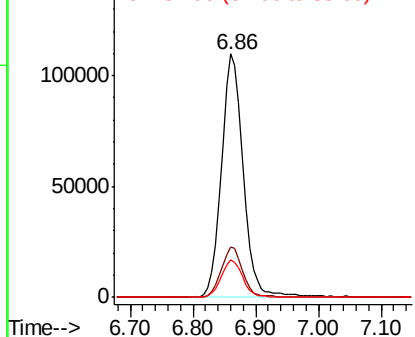
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005268.D
 Acq: 11 Oct 2018 21:47

Instrument :
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 RE-123D2-20181008

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	39.8
88	15.5	0.0	27.0

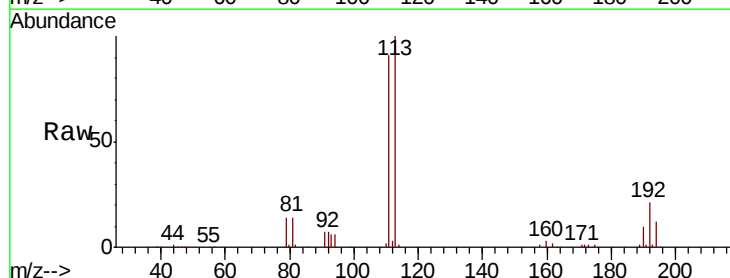


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

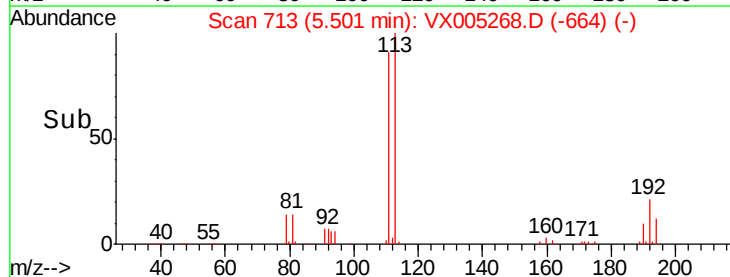
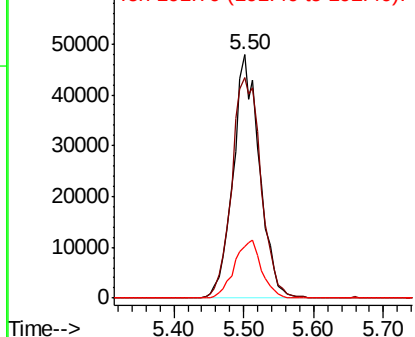


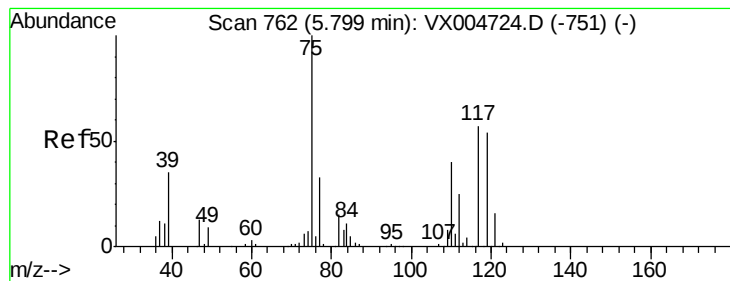
#35
 Dibromofluoromethane
 Concen: 55.994 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX005268.D
 Acq: 11 Oct 2018 21:47

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.5	77.0	115.4
192	24.6	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: 4.155 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

Instrument :

MSVOA_X

ClientSampleId :

RE-123D2-20181008

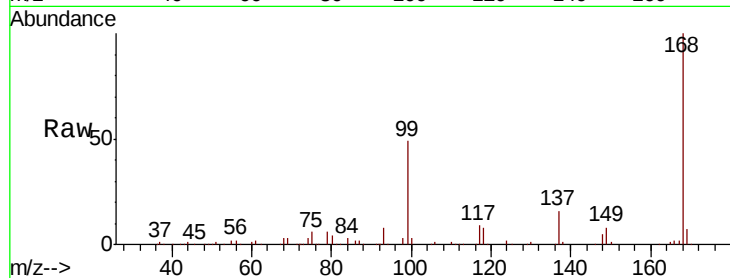
Tot Ion: 75 Resp: 12704

Ion Ratio Lower Upper

75 100

110 8.4 20.0 59.9#

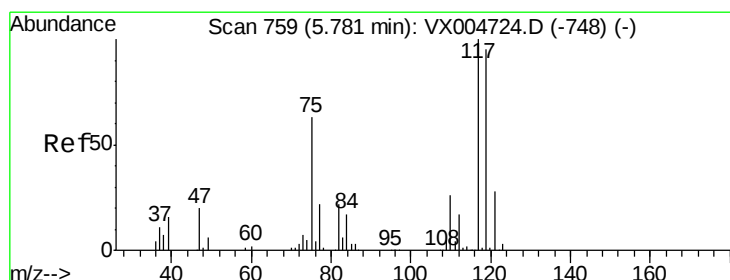
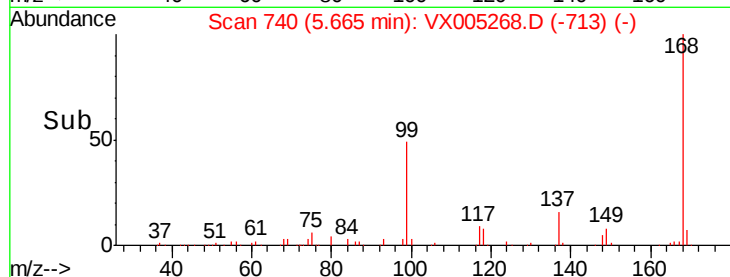
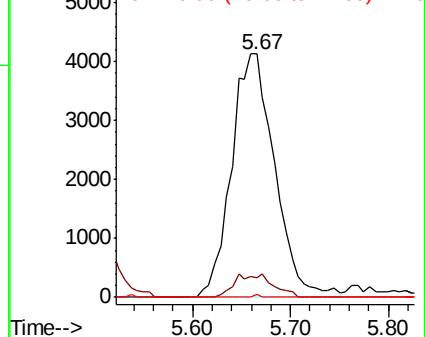
77 0.1 27.1 40.7#



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



#38

Carbon Tetrachloride

Concen: 5.042 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

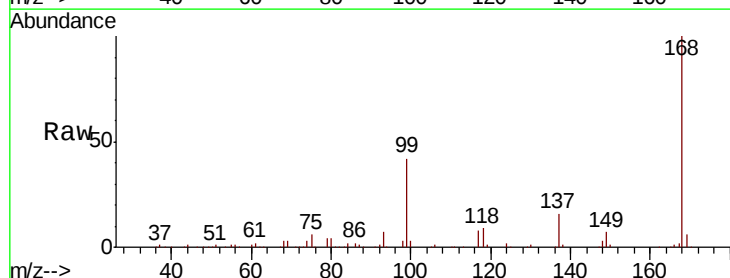
Tgt Ion: 117 Resp: 16202

Ion Ratio Lower Upper

117 100

119 7.6 75.2 112.8#

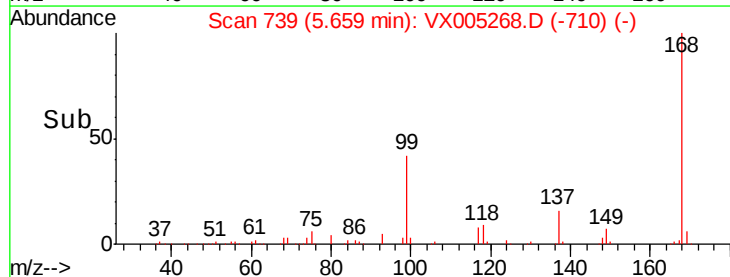
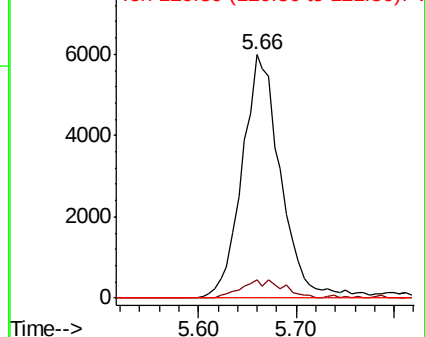
121 0.0 22.5 33.7#

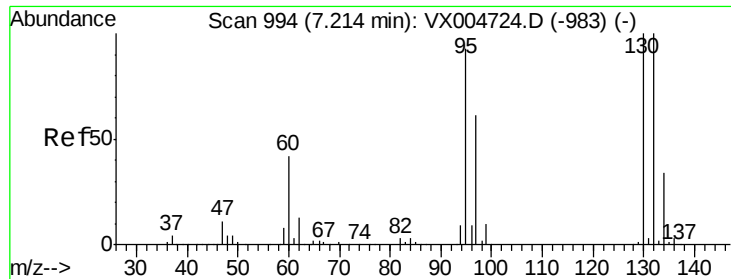


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

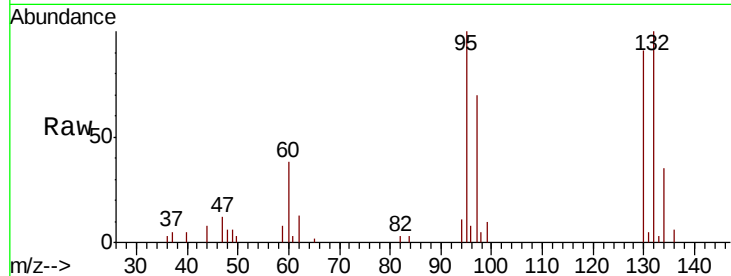




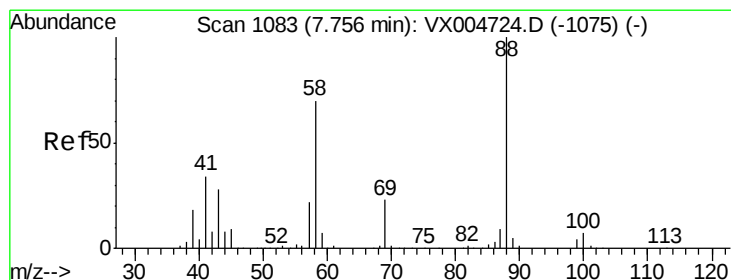
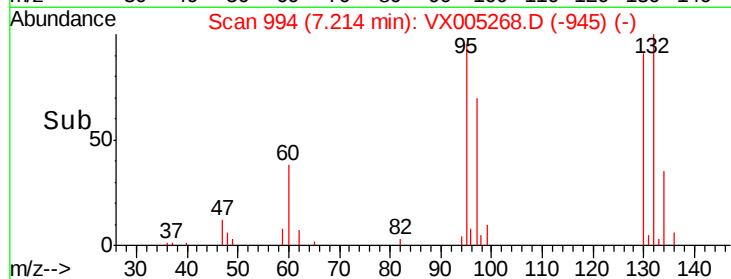
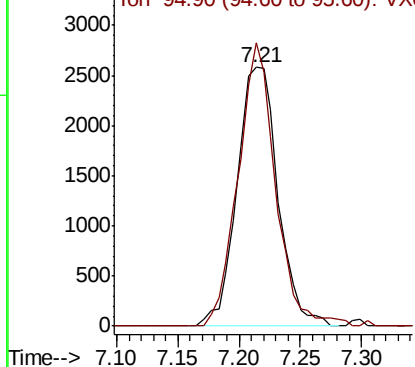
#44
 Trichloroethene
 Concen: 2.552 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX005268.D
 Acq: 11 Oct 2018 21:47

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-123D2-20181008

Tot Ion:130 Resp: 6005
 Ion Ratio Lower Upper
 130 100
 95 109.5 0.0 186.8

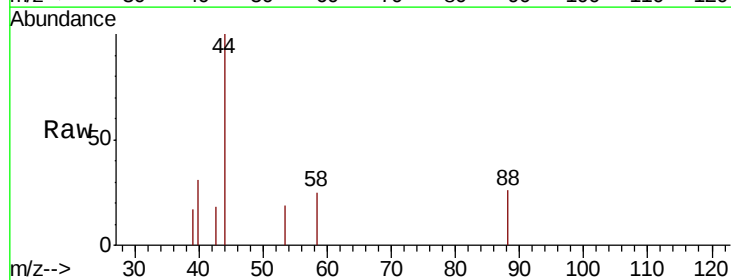


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

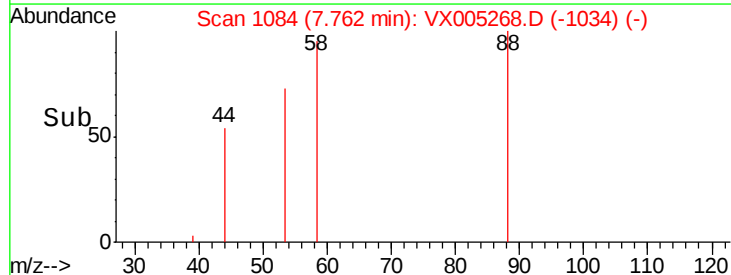
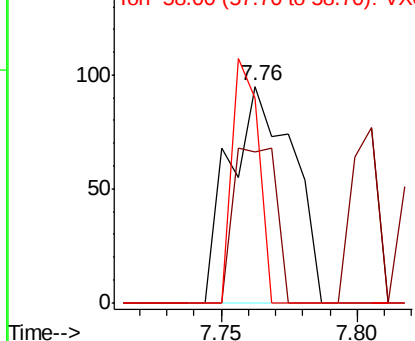


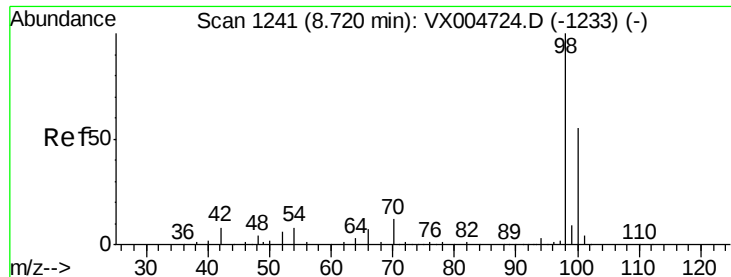
#49
 1,4-Dioxane
 Concen: 2.316 ug/l
 RT: 7.76 min Scan# 1084
 Delta R.T. 0.01 min
 Lab File: VX005268.D
 Acq: 11 Oct 2018 21:47

Tgt Ion: 88 Resp: 153
 Ion Ratio Lower Upper
 88 100
 43 48.4 25.1 37.7#
 58 47.1 56.2 84.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.101 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

Instrument :

MSVOA_X

ClientSampleId :

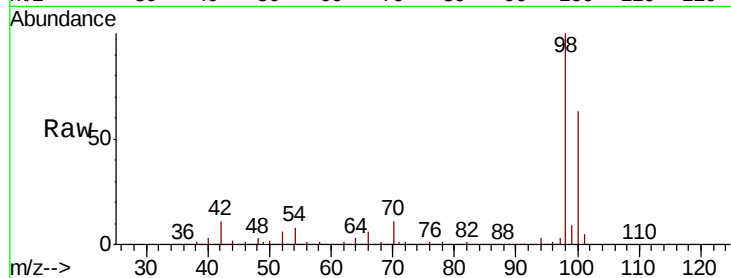
RE-123D2-20181008

Tot Ion: 98 Resp: 388120

Ion Ratio Lower Upper

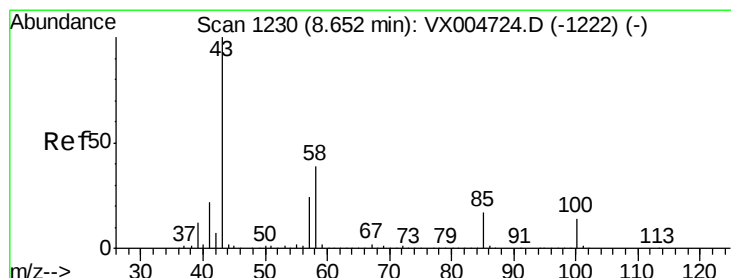
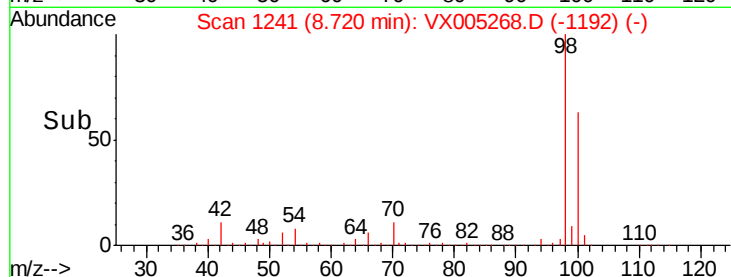
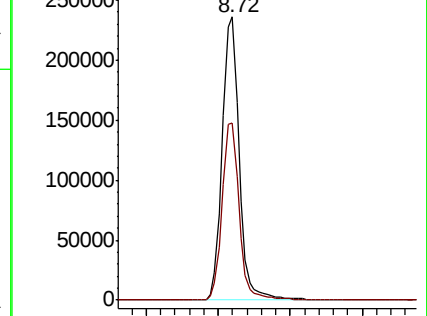
98 100

100 63.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.484 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX005268.D

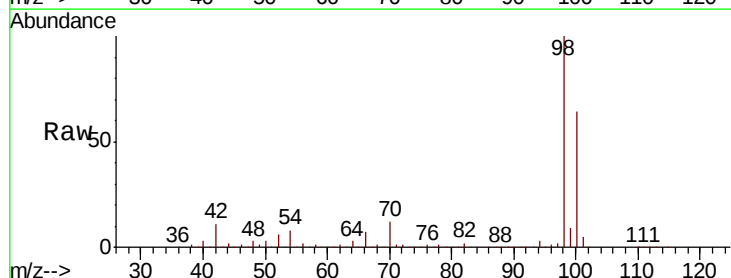
Acq: 11 Oct 2018 21:47

Tgt Ion: 43 Resp: 1784

Ion Ratio Lower Upper

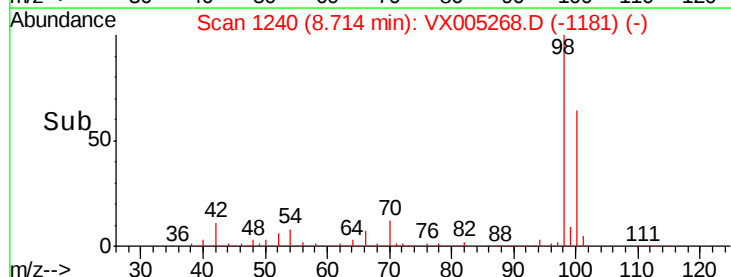
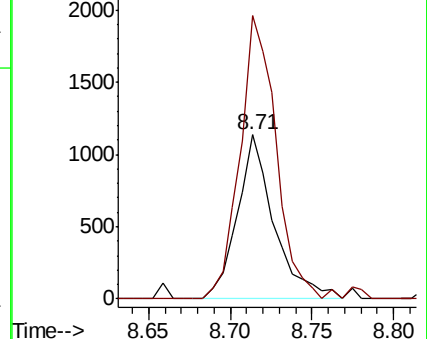
43 100

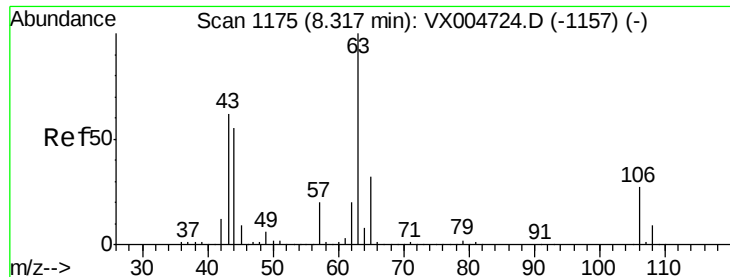
58 168.3 30.5 45.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

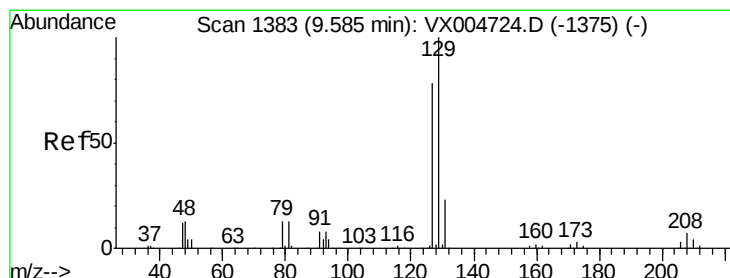
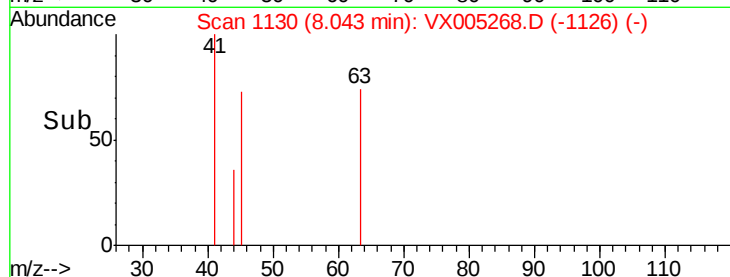
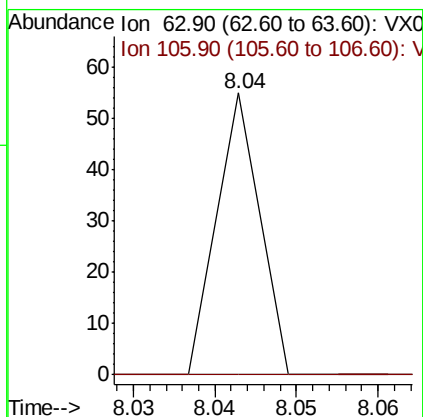
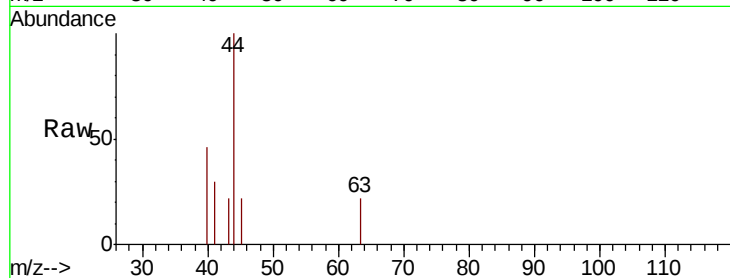




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.252 ug/l
 RT: 8.04 min Scan# 1130
 Delta R.T. -0.27 min
 Lab File: VX005268.D
 Acq: 11 Oct 2018 21:47

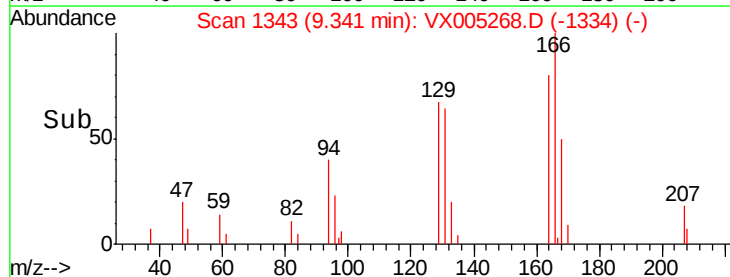
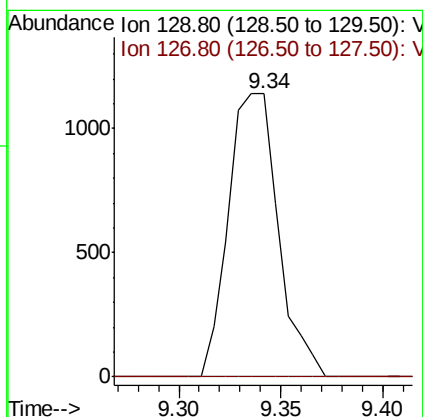
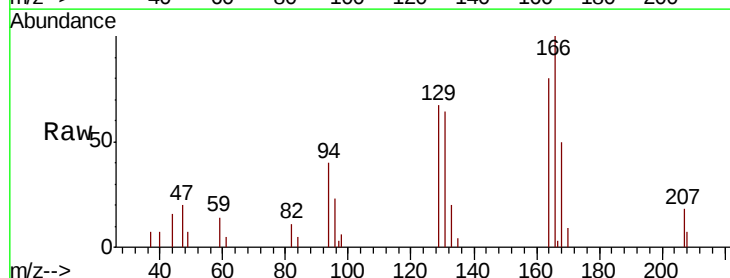
Instrument :
 MSVOA_X
 ClientSampleId :
 RE-123D2-20181008

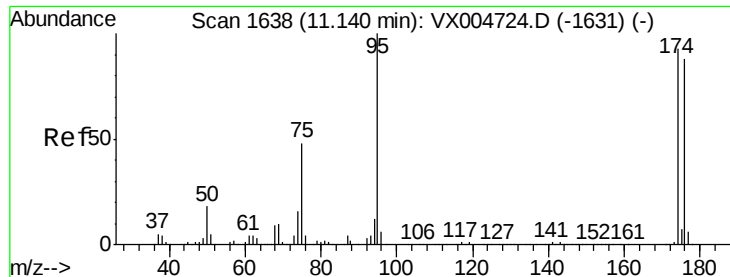
Tot Ion: 63 Resp: 20
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.0 31.6#



#60
 Dibromochloromethane
 Concen: 0.840 ug/l
 RT: 9.34 min Scan# 1343
 Delta R.T. -0.24 min
 Lab File: VX005268.D
 Acq: 11 Oct 2018 21:47

Tgt Ion: 129 Resp: 1936
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.2#





#62

4-Bromofluorobenzene

Concen: 51.909 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

Instrument :

MSVOA_X

ClientSampleId :

RE-123D2-20181008

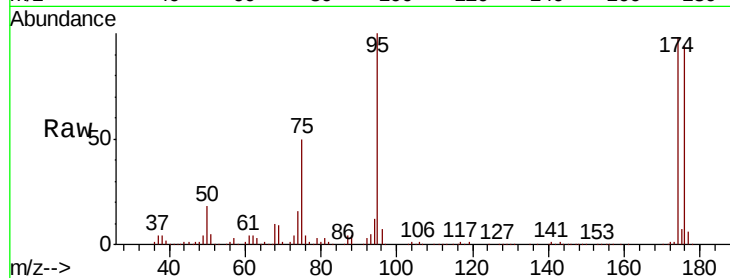
Tot Ion: 95 Resp: 139305

Ion Ratio Lower Upper

95 100

174 95.8 0.0 185.0

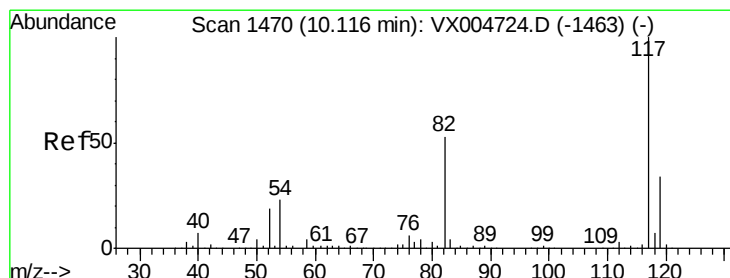
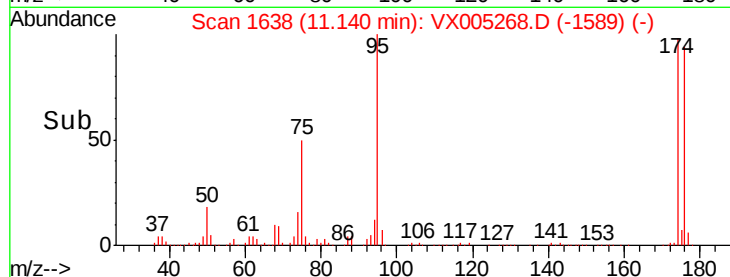
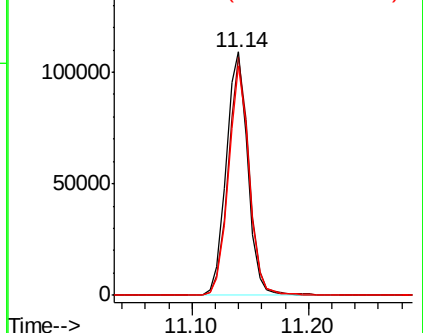
176 91.1 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): VX005268.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005268.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005268.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

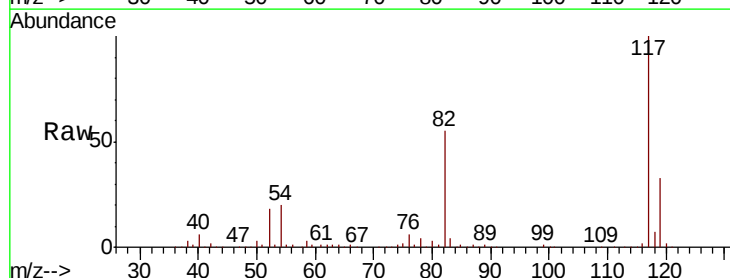
Tgt Ion: 117 Resp: 267355

Ion Ratio Lower Upper

117 100

82 54.8 42.2 63.4

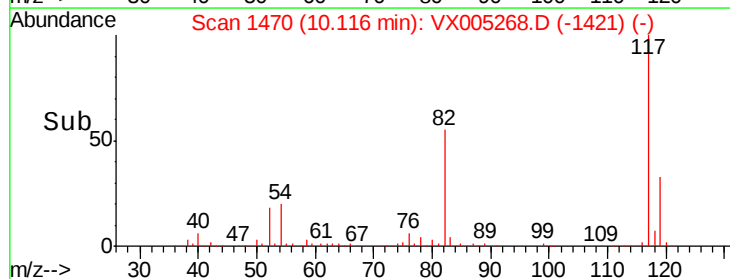
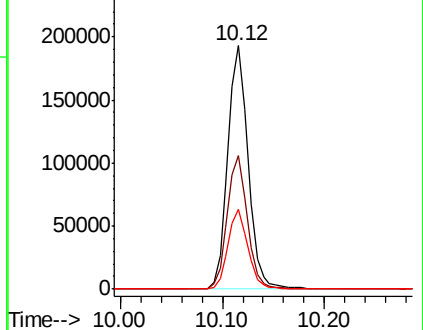
119 32.6 27.4 41.0

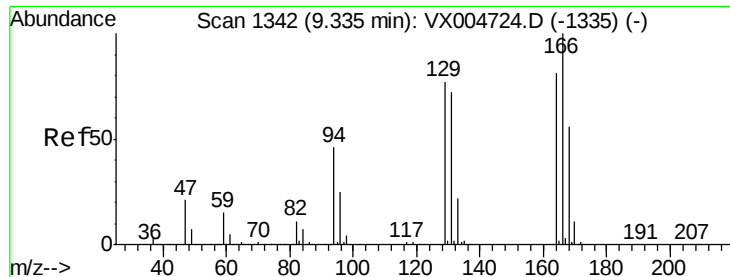


Abundance Ion 116.90 (116.60 to 117.60): VX005268.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005268.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005268.D (-1421) (-)





#64

Tetrachloroethene

Concen: 0.857 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

Instrument :

MSVOA_X

ClientSampleId :

RE-123D2-20181008

Tot Ion:164 Resp: 2254

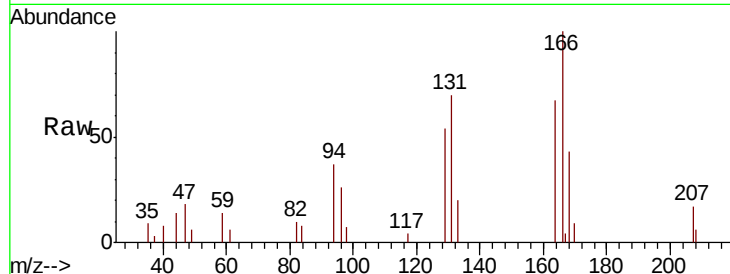
Ion Ratio Lower Upper

164 100

166 149.5 98.4 147.6#

129 80.8 76.1 114.1

131 104.0 71.0 106.4

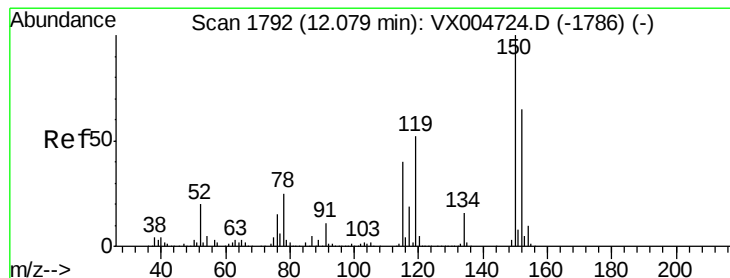
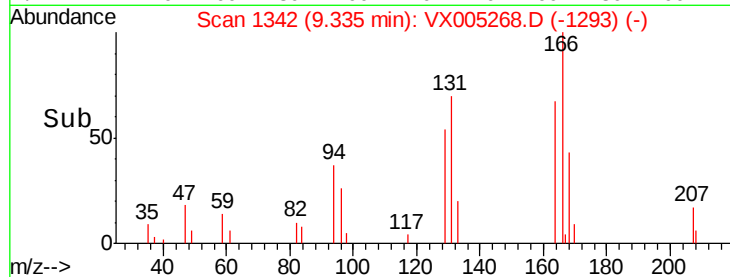
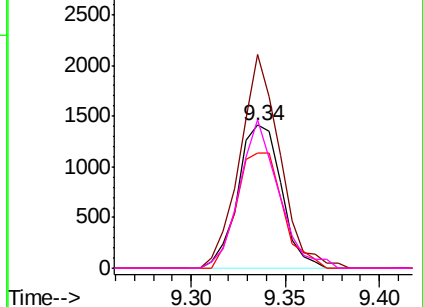


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX005268.D

Acq: 11 Oct 2018 21:47

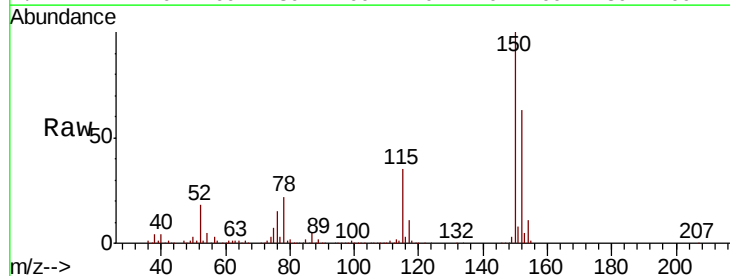
Tgt Ion:152 Resp: 150659

Ion Ratio Lower Upper

152 100

115 55.4 40.2 120.6

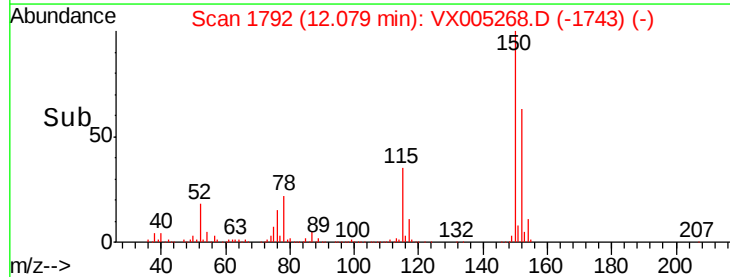
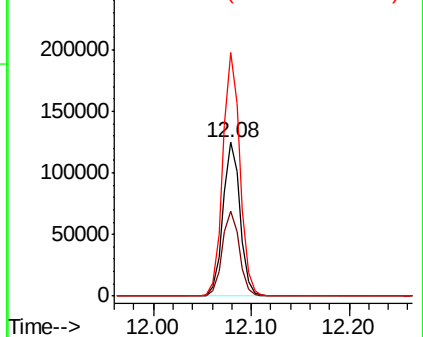
150 158.2 0.0 351.0

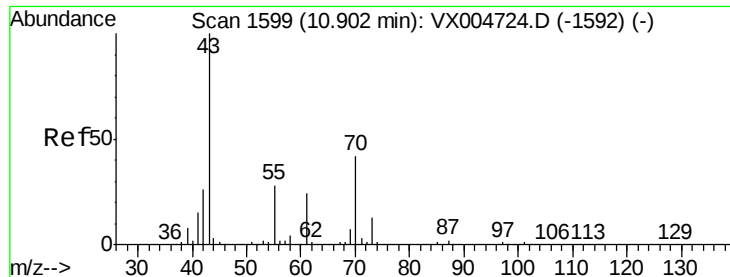


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.772 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

Instrument :

MSVOA_X

ClientSampleId :

RE-123D2-20181008

Tot Ion: 43 Resp: 128

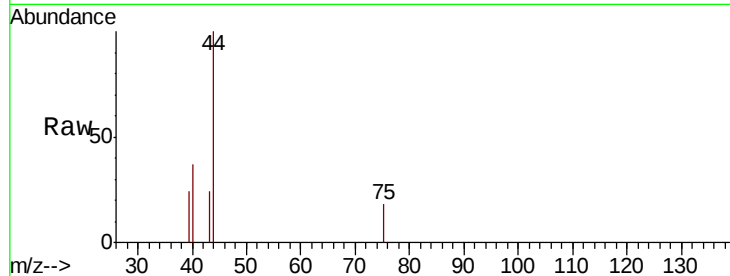
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 35.9 21.6 32.4#

61 0.0 19.1 28.7#

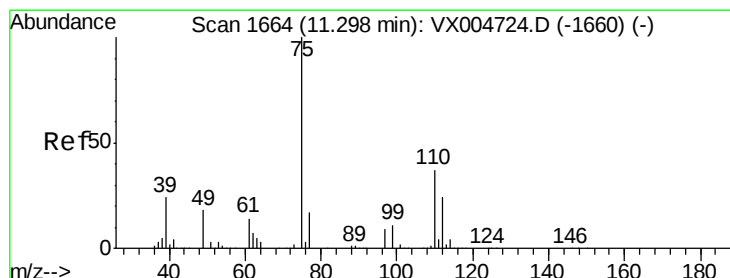
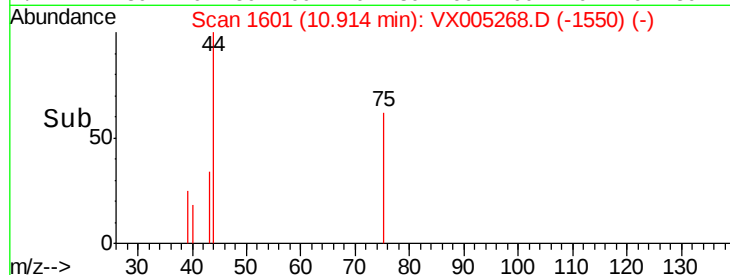
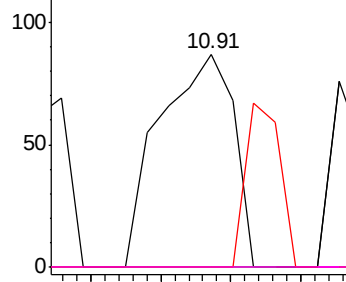


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.705 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005268.D

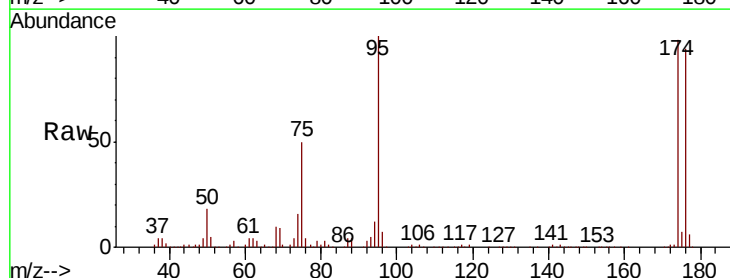
Acq: 11 Oct 2018 21:47

Tgt Ion: 75 Resp: 69916

Ion Ratio Lower Upper

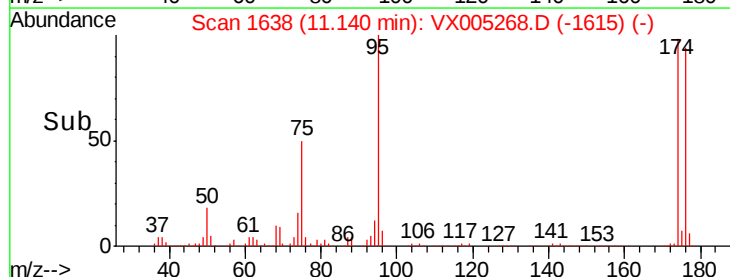
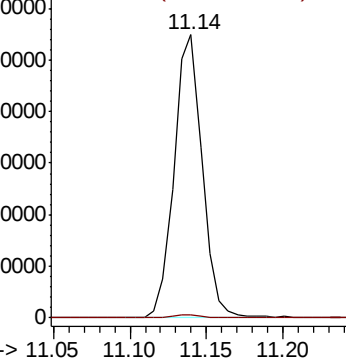
75 100

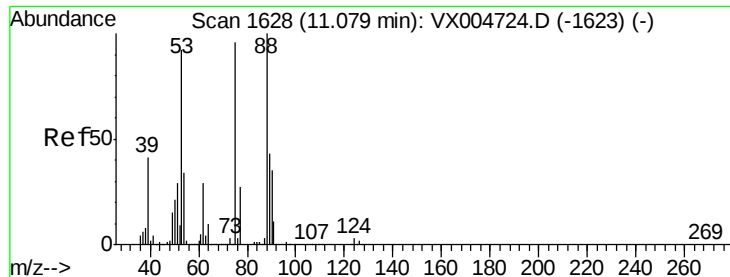
77 1.3 21.4 64.3#



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: 56.212 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

Instrument :

MSVOA_X

ClientSampleId :

RE-123D2-20181008

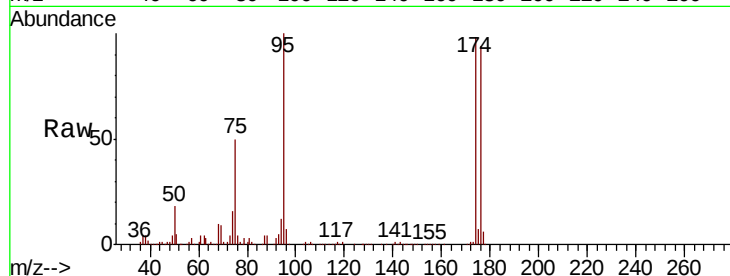
Tot Ion: 75 Resp: 69916

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

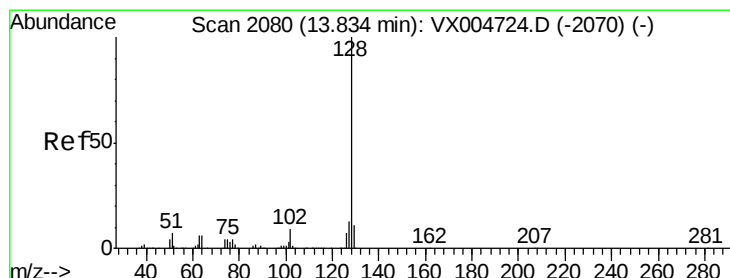
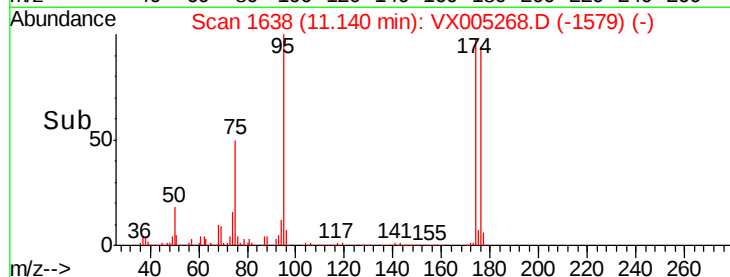
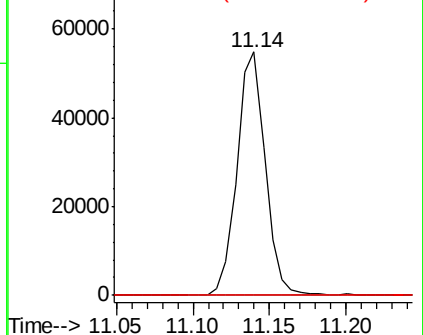
89 0.0 37.1 55.7#



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: 0.738 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005268.D

Acq: 11 Oct 2018 21:47

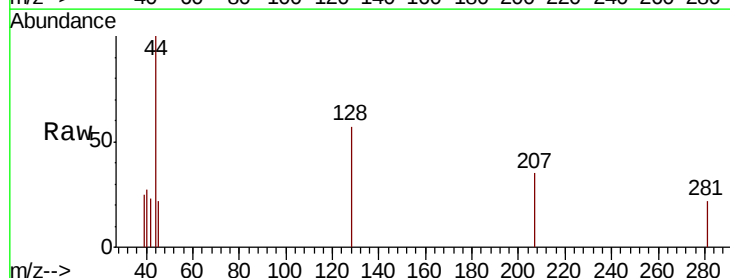
Tgt Ion: 128 Resp: 230

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

