

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101018\
 Data File : VX005218.D
 Acq On : 10 Oct 2018 20:28
 Operator : JC/MD
 Sample : J5317-10 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-108D2-20181004

Quant Time: Oct 11 06:07:47 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

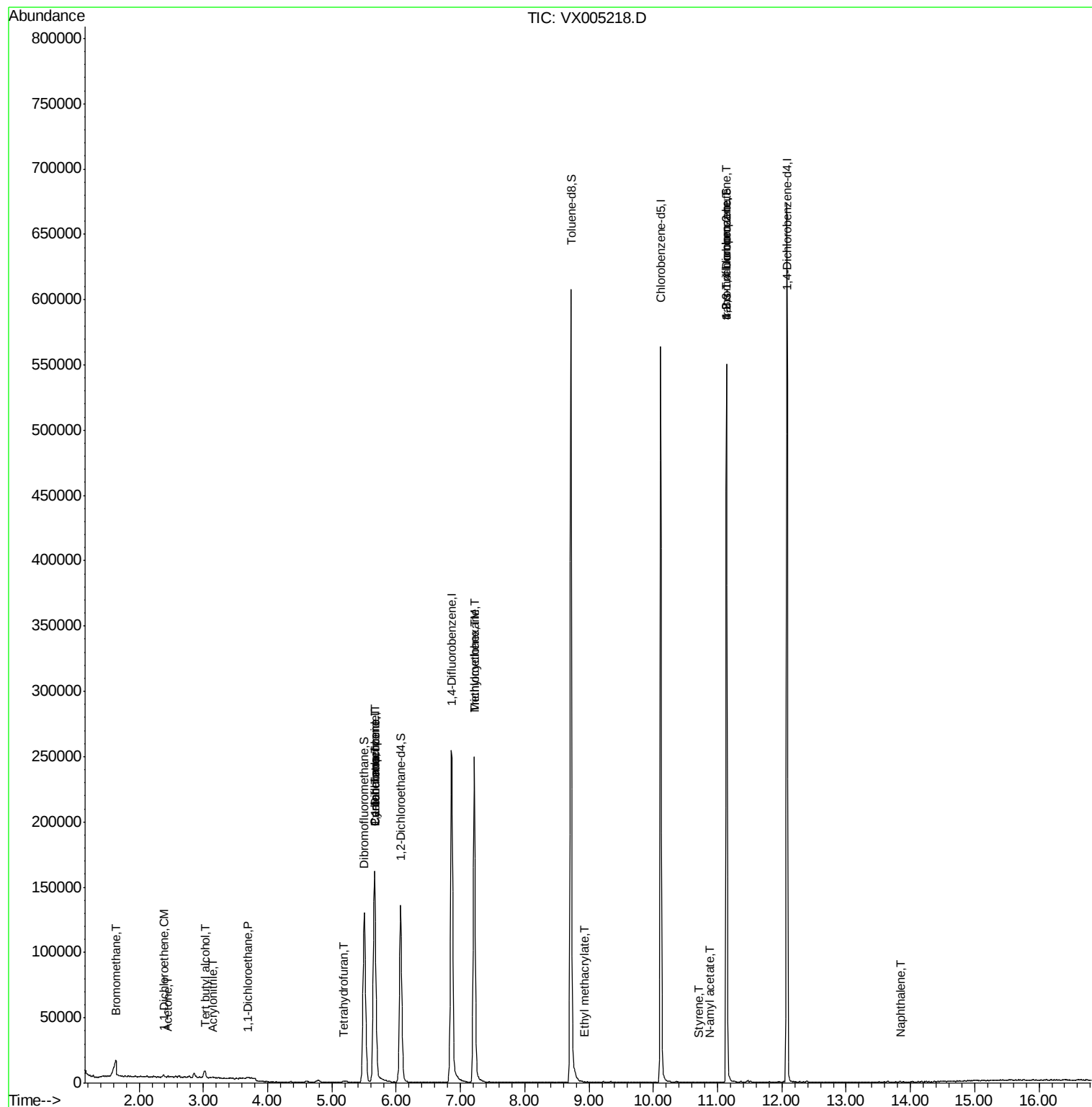
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	167120	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	263314	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	262076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144595	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	130043	54.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.94%	
35) Dibromofluoromethane	5.51	113	109193	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
50) Toluene-d8	8.72	98	387265	52.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.40%	
62) 4-Bromofluorobenzene	11.14	95	135160	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	585	0.380	ug/l	95
6) Chloroethane	1.79	64	3007	Below Cal	#	45
11) Tert butyl alcohol	3.02	59	3667	5.494	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	546	0.302	ug/l #	57
15) Acrylonitrile	3.15	53	372	0.253	ug/l #	17
16) Acetone	2.44	43	1028	0.738	ug/l #	88
20) Methylene Chloride	2.85	84	1305	Below Cal	#	78
24) 1,1-Dichloroethane	3.70	63	1120	0.282	ug/l #	81
29) Tetrahydrofuran	5.19	42	668	0.523	ug/l #	34
31) Cyclohexane	5.67	56	3428	1.129	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	11398	3.743	ug/l #	47
38) Carbon Tetrachloride	5.67	117	15236	4.760	ug/l #	17
39) Methylcyclohexane	7.21	83	1290	0.415	ug/l #	1
44) Trichloroethene	7.21	130	101039	43.118	ug/l	96
56) Ethyl methacrylate	8.94	69	23	2.868	ug/l #	1
70) Styrene	10.72	104	27	2.144	ug/l #	1
74) N-amyl acetate	10.88	43	44	1.756	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	66896	20.641	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.50	105	154	Below Cal		67
81) trans-1,4-Dichloro-2-buten	11.14	75	66896	56.046	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	149	Below Cal		73
95) Naphthalene	13.83	128	296	0.744	ug/l #	80

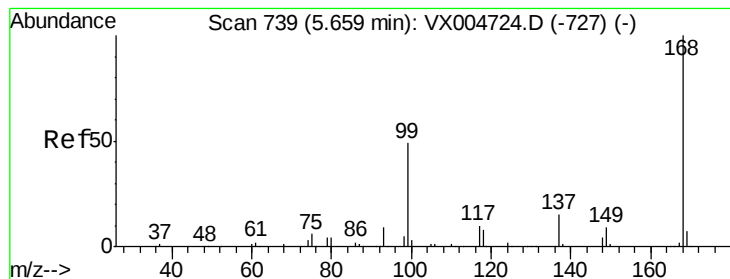
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

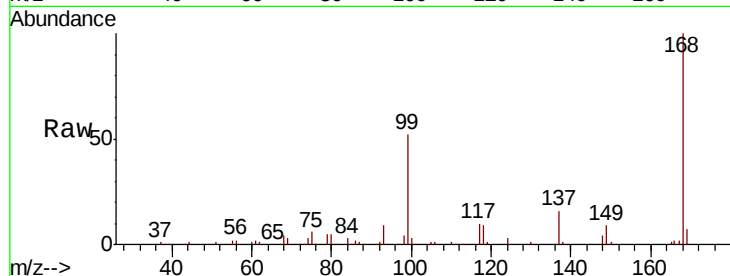
RE-108D2-20181004

Tot Ion:168 Resp: 167120

Ion Ratio Lower Upper

168 100

99 52.4 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

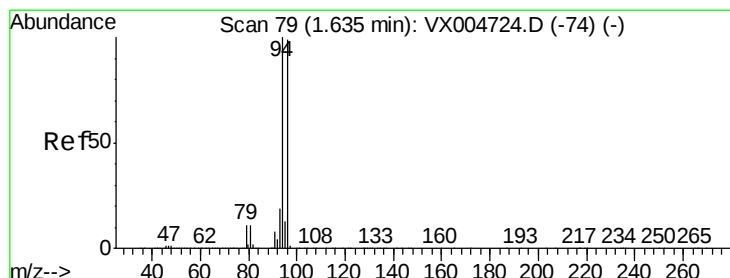
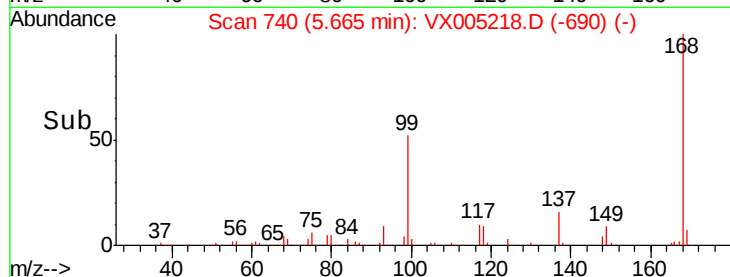
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.380 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005218.D

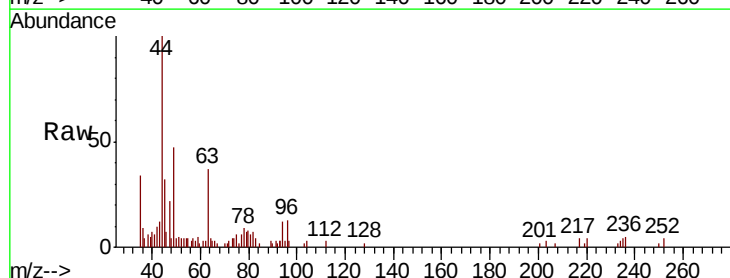
Acq: 10 Oct 2018 20:28

Tgt Ion: 94 Resp: 585

Ion Ratio Lower Upper

94 100

96 104.0 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

400

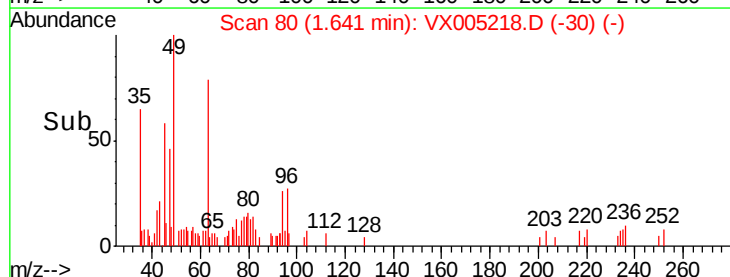
300

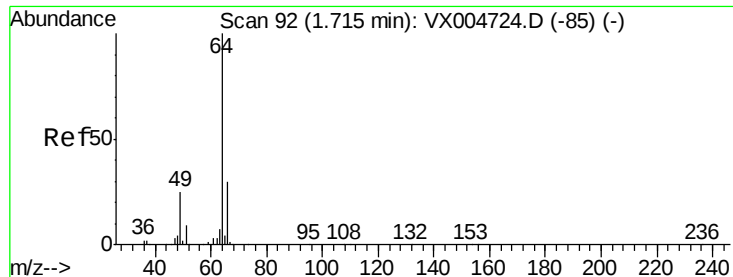
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.79 min Scan# 105

Delta R.T. 0.08 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

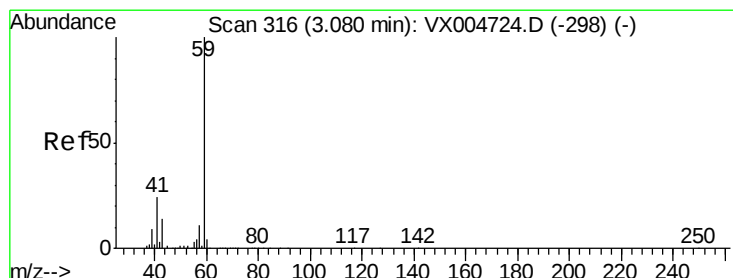
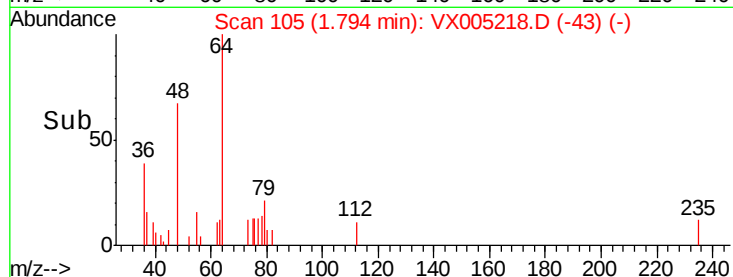
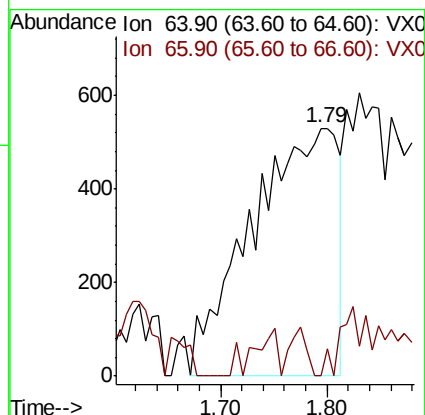
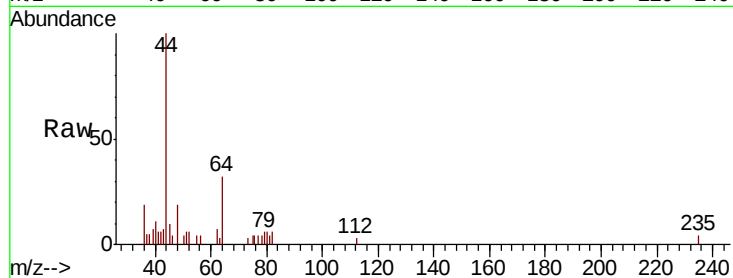
RE-108D2-20181004

Tot Ion: 64 Resp: 3007

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



#11

Tert butyl alcohol

Concen: 5.494 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005218.D

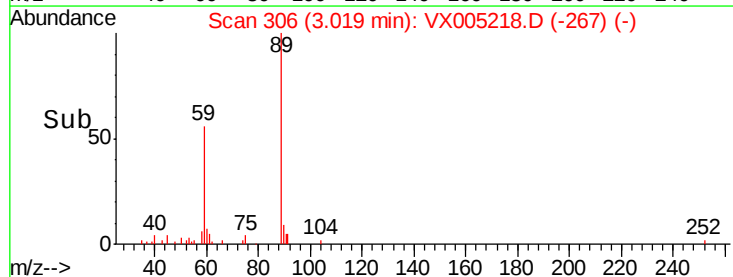
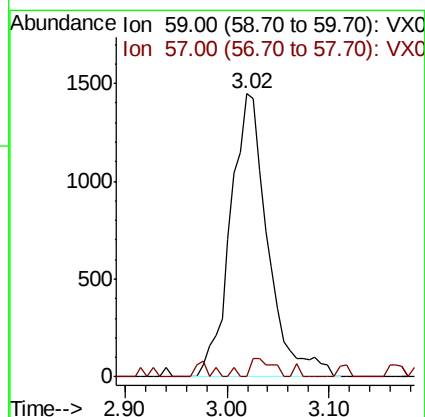
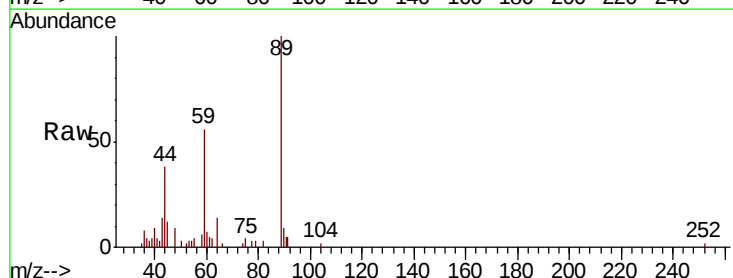
Acq: 10 Oct 2018 20:28

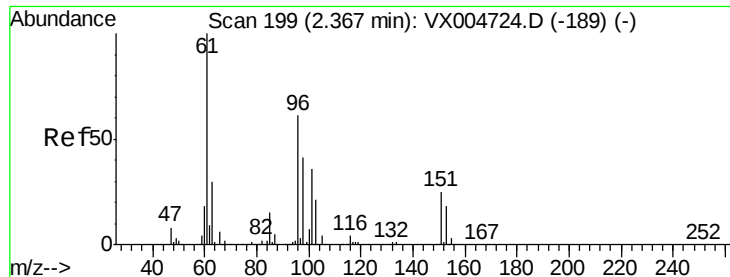
Tgt Ion: 59 Resp: 3667

Ion Ratio Lower Upper

59 100

57 0.5 8.6 12.8#





#12

1,1-Dichloroethene

Concen: 0.302 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

RE-108D2-20181004

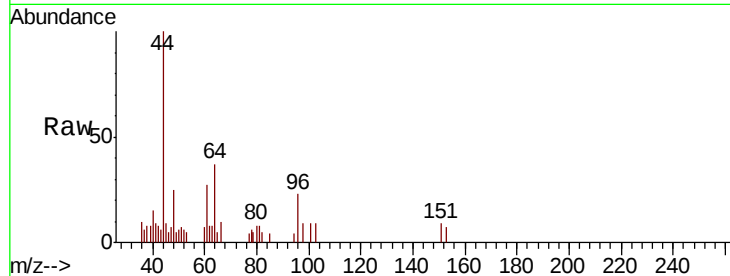
Tot Ion: 96 Resp: 546

Ion Ratio Lower Upper

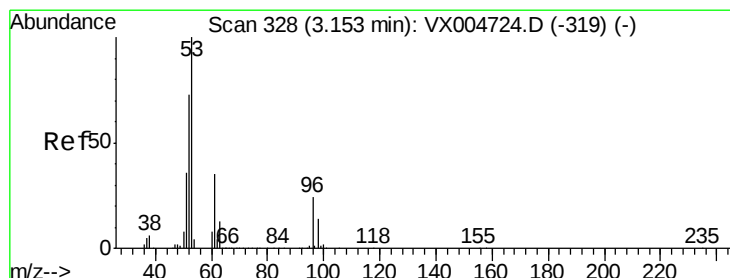
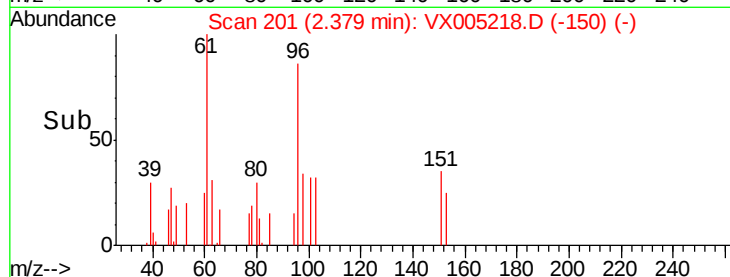
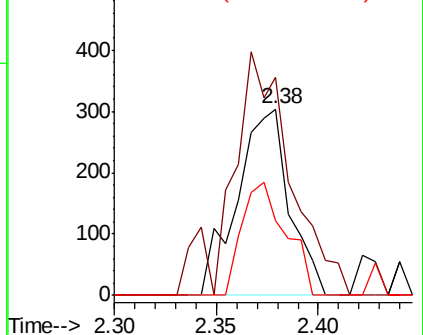
96 100

61 99.7 130.2 195.4#

98 39.8 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



#15

Acrylonitrile

Concen: 0.253 ug/l

RT: 3.15 min Scan# 328

Delta R.T. -0.00 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

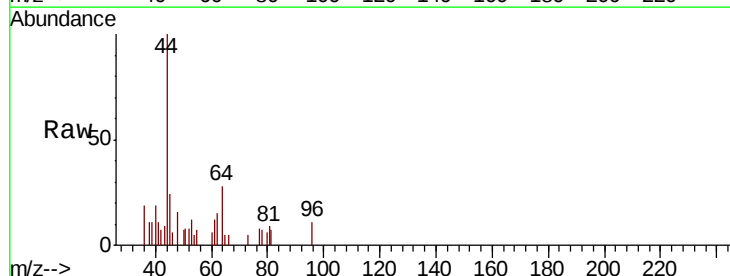
Tgt Ion: 53 Resp: 372

Ion Ratio Lower Upper

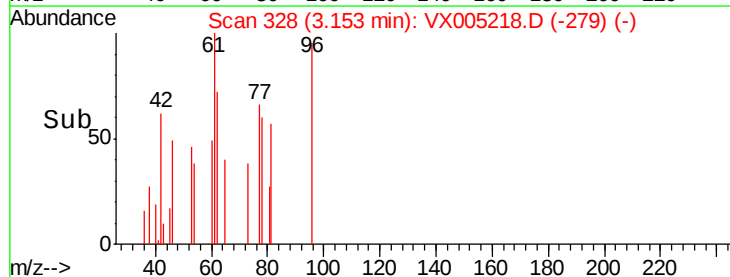
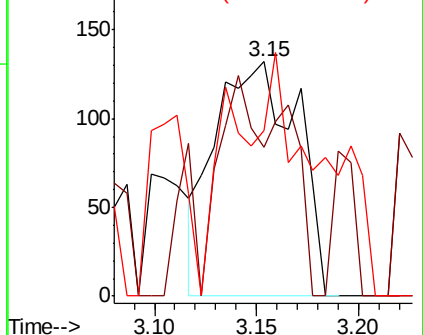
53 100

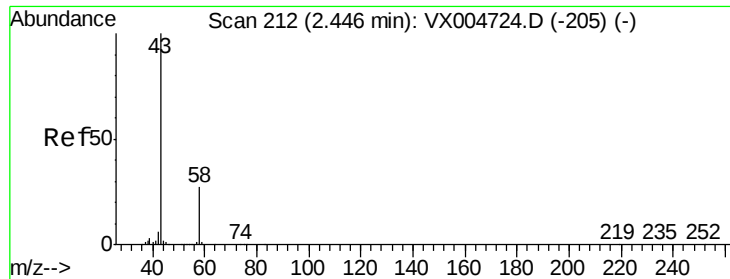
52 0.0 63.0 94.4#

51 74.7 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: 0.738 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

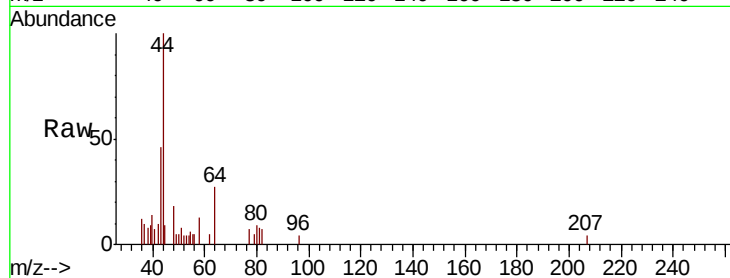
RE-108D2-20181004

Tot Ion: 43 Resp: 1028

Ion Ratio Lower Upper

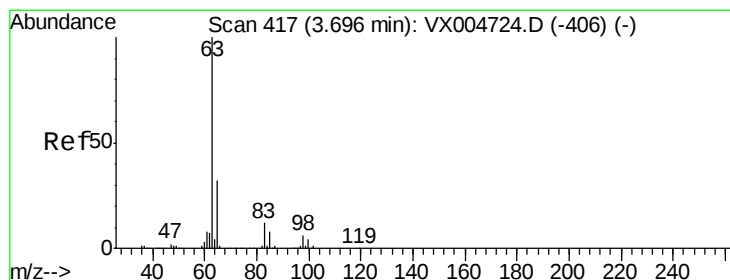
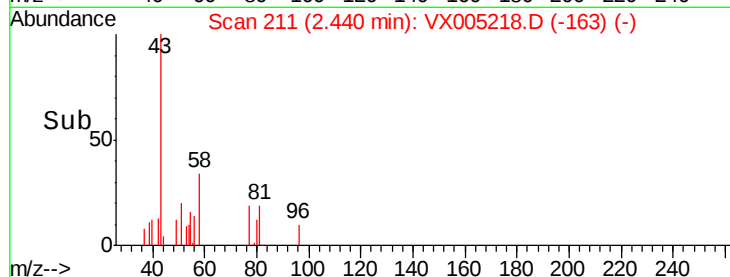
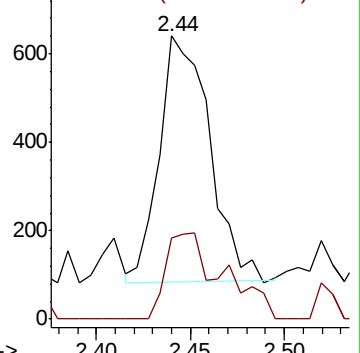
43 100

58 33.6 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#24

1,1-Dichloroethane

Concen: 0.282 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

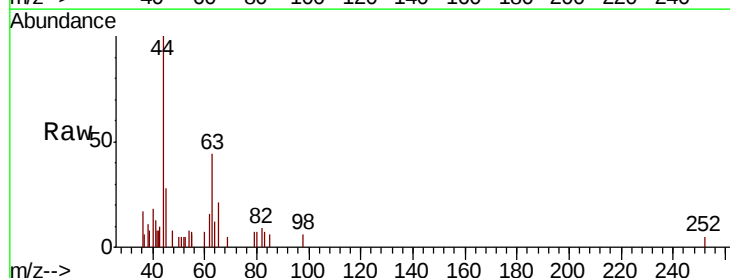
Tgt Ion: 63 Resp: 1120

Ion Ratio Lower Upper

63 100

98 14.0 3.0 9.2#

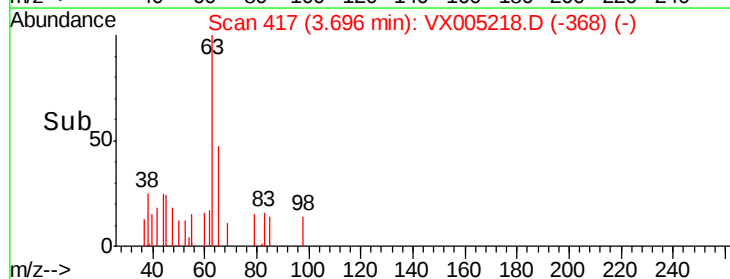
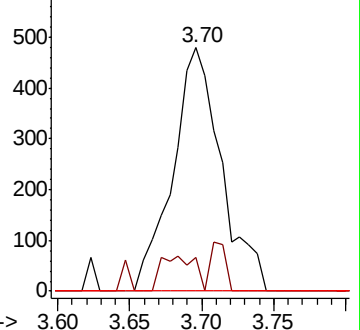
100 0.0 2.0 5.8#

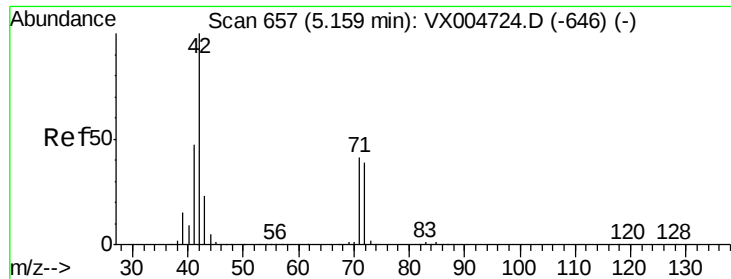


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#29

Tetrahydrofuran

Concen: 0.523 ug/l

RT: 5.19 min Scan# 662

Delta R.T. 0.03 min

Lab File: VX005218.D

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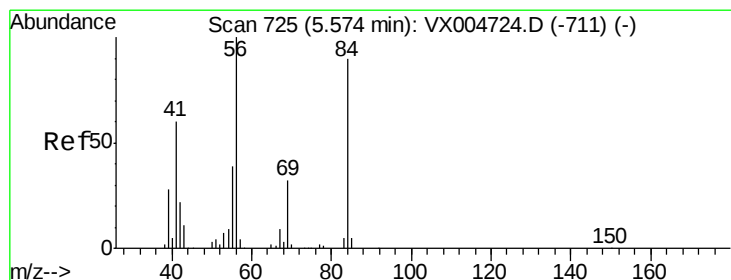
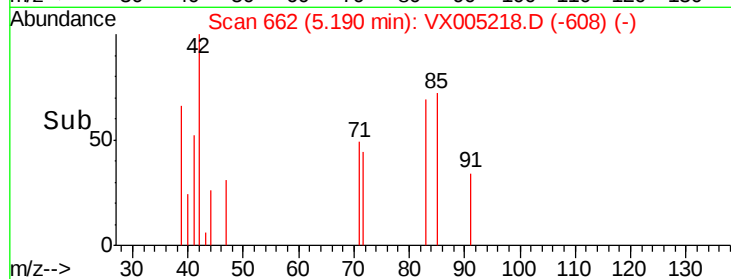
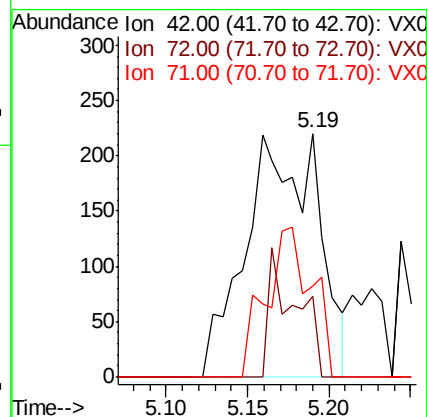
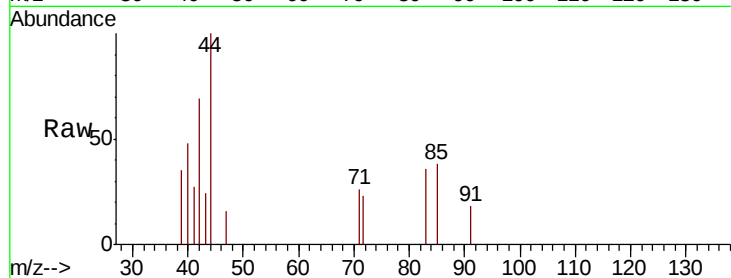
Tot Ion: 42 Resp: 668

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.2 48.4#



#31

Cyclohexane

Concen: 1.129 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

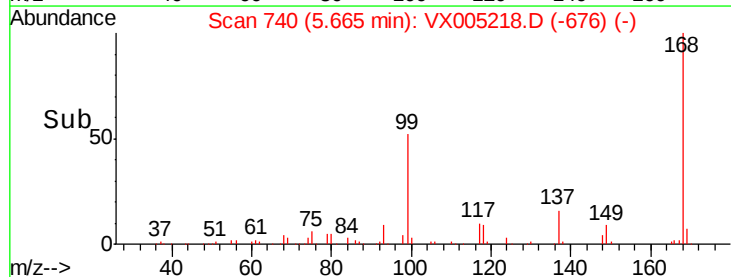
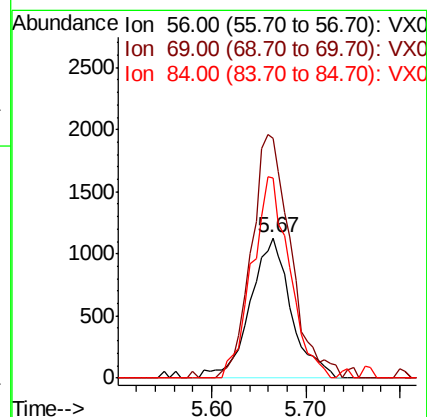
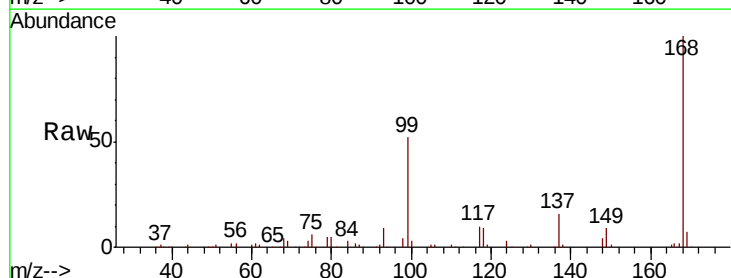
Tgt Ion: 56 Resp: 3428

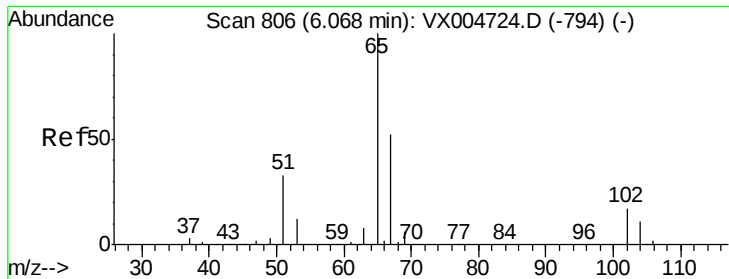
Ion Ratio Lower Upper

56 100

69 171.1 25.9 38.9#

84 142.4 71.9 107.9#





#33

1,2-Dichloroethane-d4

Concen: 54.473 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005218.D

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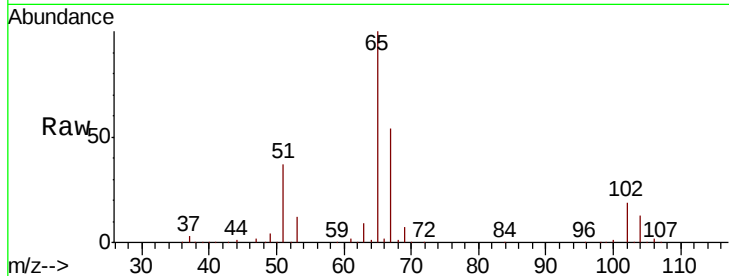
RE-108D2-20181004

Tot Ion: 65 Resp: 130043

Ion Ratio Lower Upper

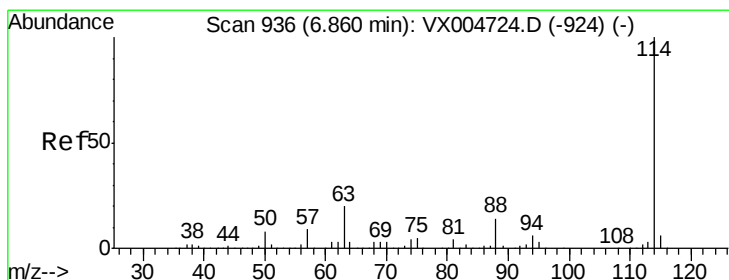
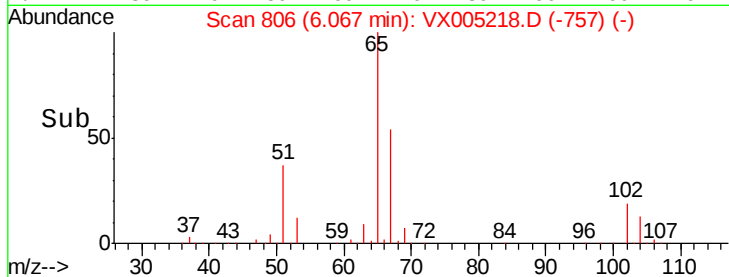
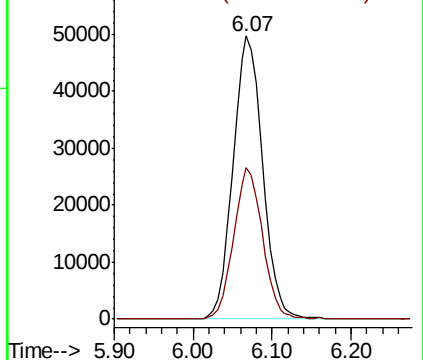
65 100

67 52.6 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: VX005218.D

Acq: 10 Oct 2018 20:28

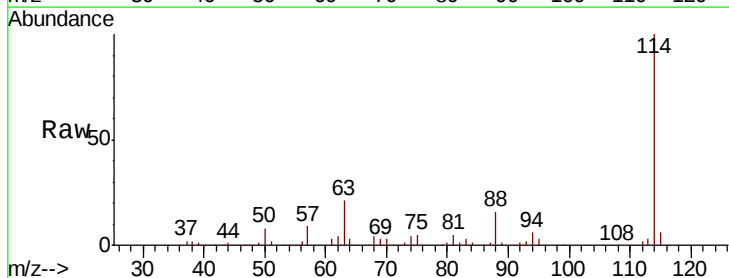
Tgt Ion: 114 Resp: 263314

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.8

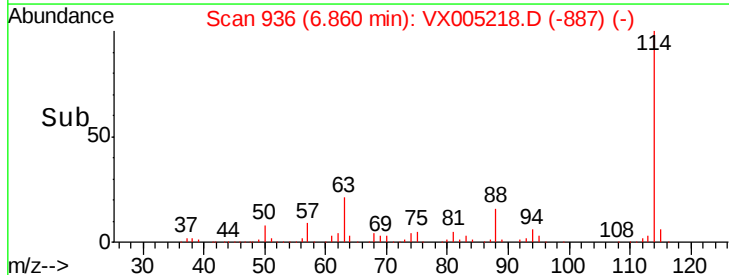
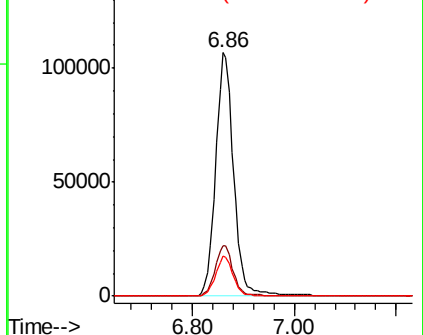
88 16.2 0.0 27.0

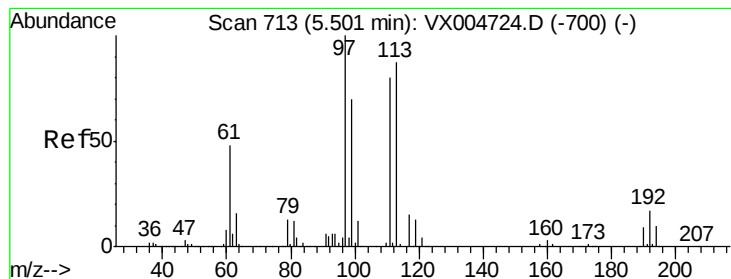


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.930 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Instrument :

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ClientSampleId :

RE-108D2-20181004

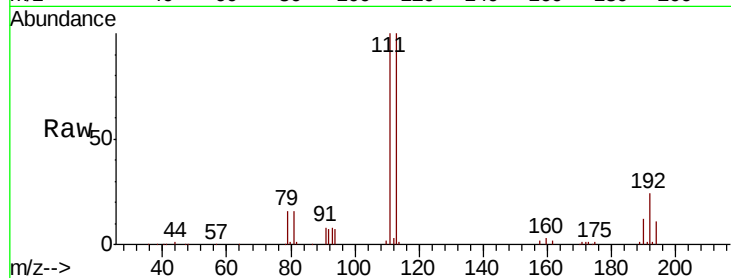
Tot Ion:113 Resp: 109193

Ion Ratio Lower Upper

113 100

111 103.4 77.0 115.4

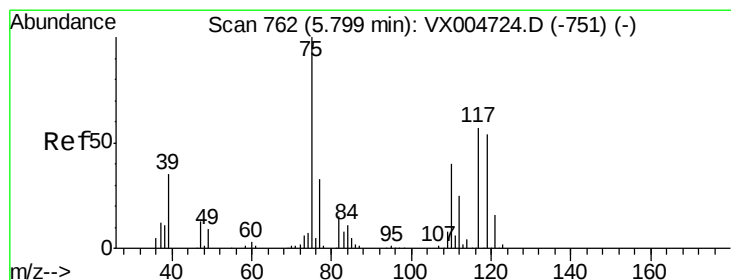
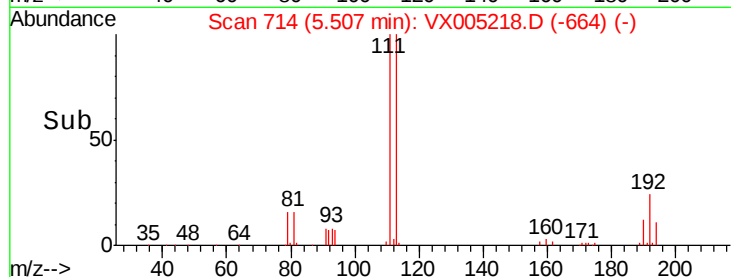
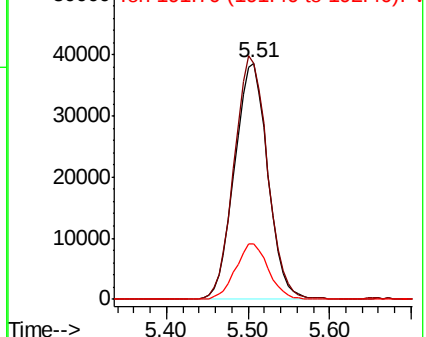
192 23.3 17.0 25.6



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: 3.743 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

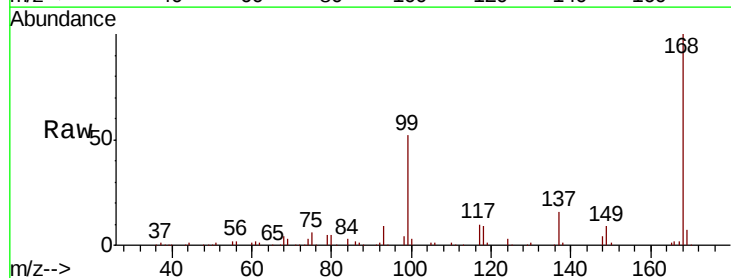
Tgt Ion: 75 Resp: 11398

Ion Ratio Lower Upper

75 100

110 9.8 20.0 59.9#

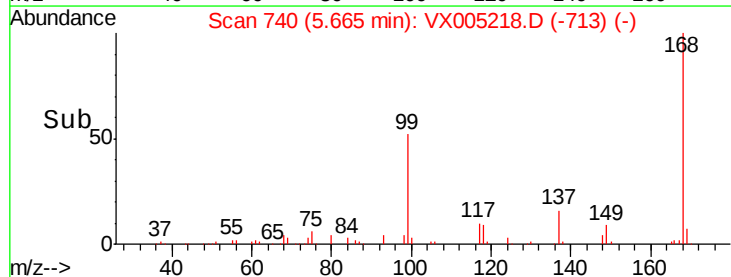
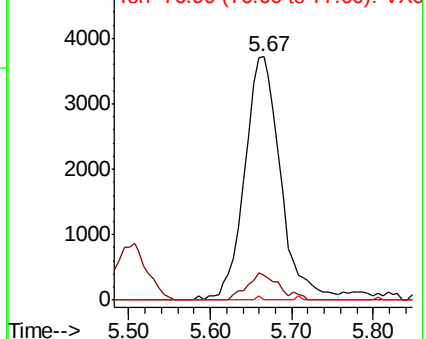
77 0.2 27.1 40.7#

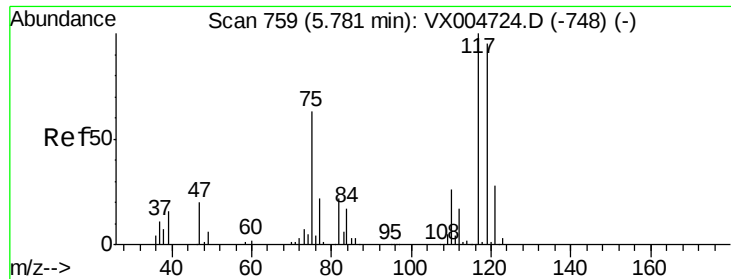


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.760 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

RE-108D2-20181004

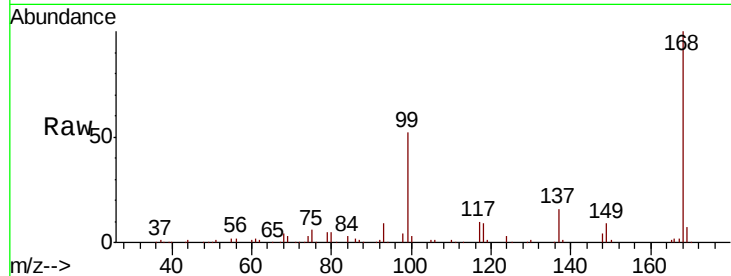
Tot Ion:117 Resp: 15236

Ion Ratio Lower Upper

117 100

119 5.7 75.2 112.8#

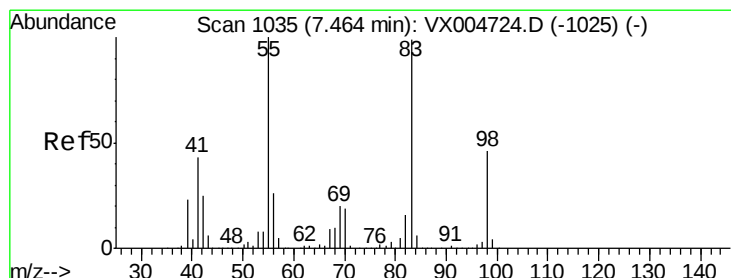
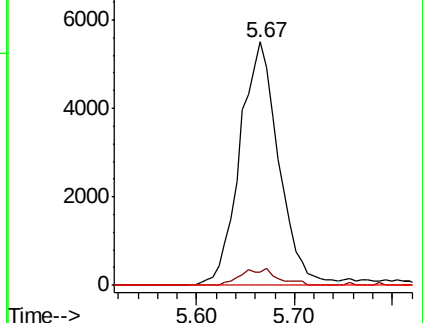
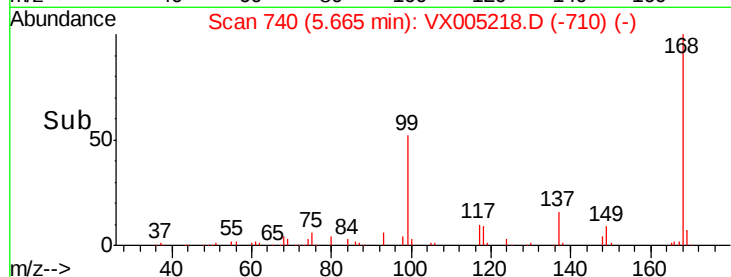
121 0.0 22.5 33.7#



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



#39

Methylcyclohexane

Concen: 0.415 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

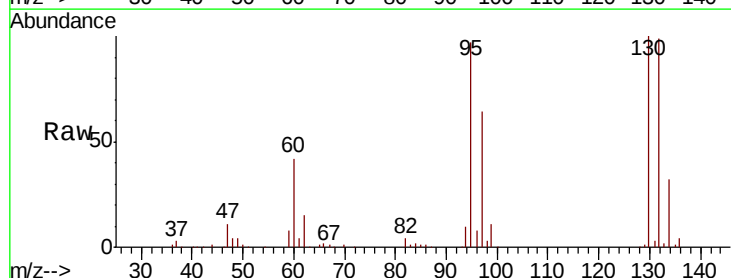
Tgt Ion: 83 Resp: 1290

Ion Ratio Lower Upper

83 100

55 0.0 81.1 121.7#

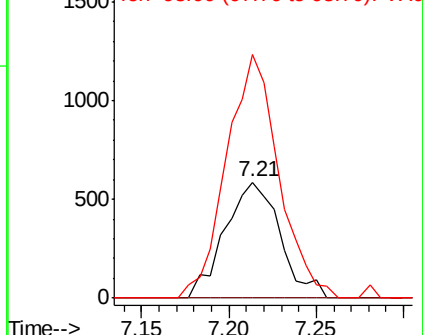
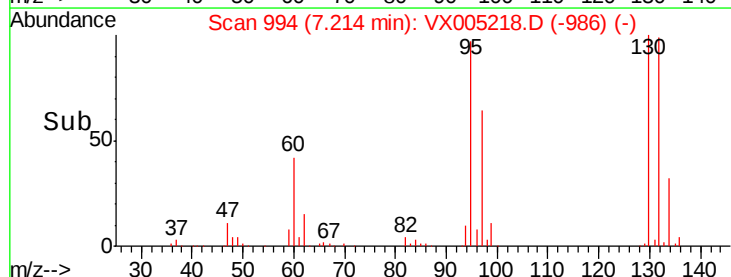
98 210.1 37.3 55.9#

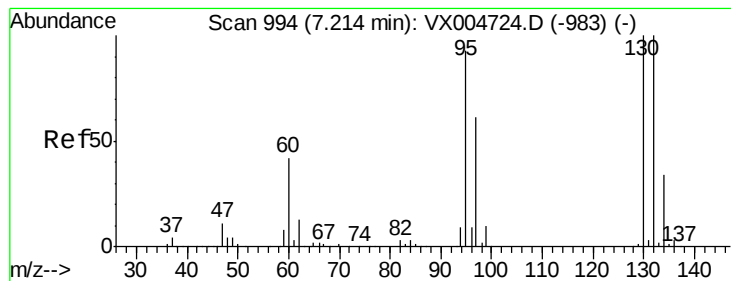


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 43.118 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

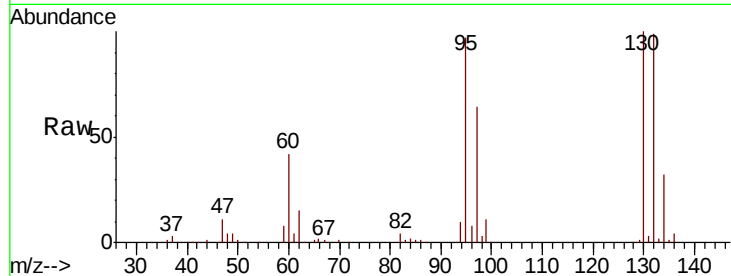
RE-108D2-20181004

Tot Ion:130 Resp: 101039

Ion Ratio Lower Upper

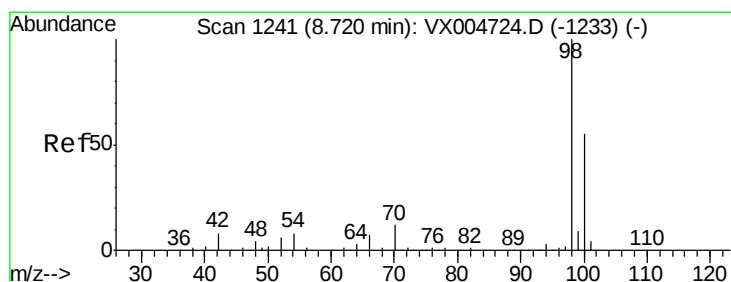
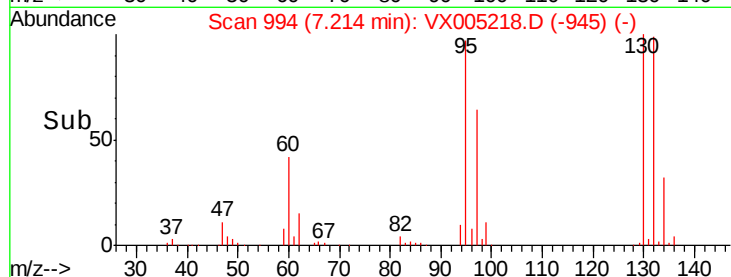
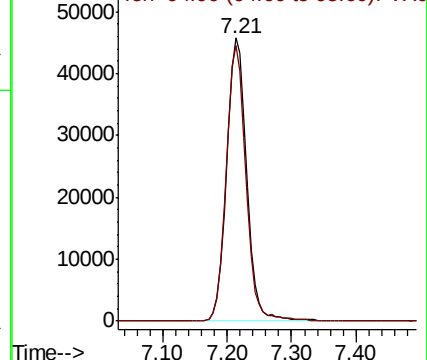
130 100

95 97.2 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: 52.199 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX005218.D

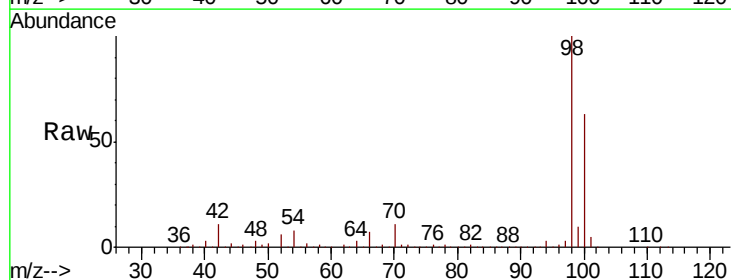
Acq: 10 Oct 2018 20:28

Tgt Ion: 98 Resp: 387265

Ion Ratio Lower Upper

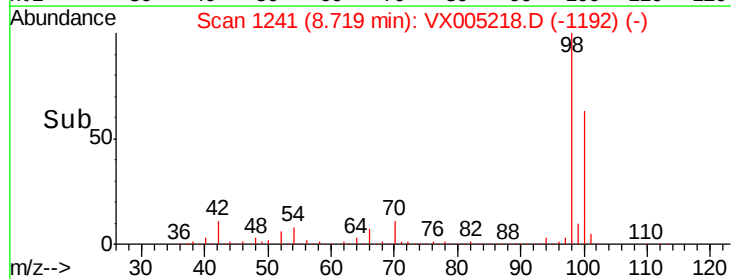
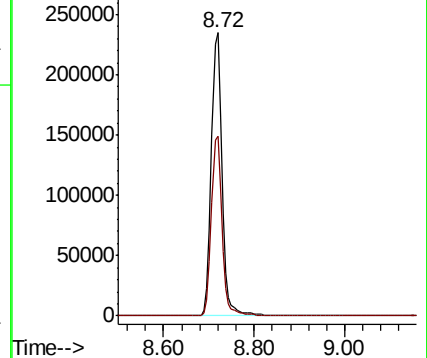
98 100

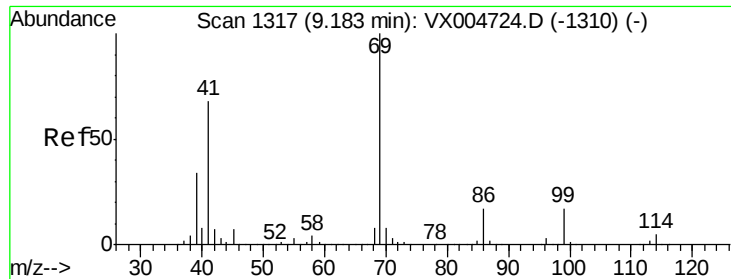
100 63.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

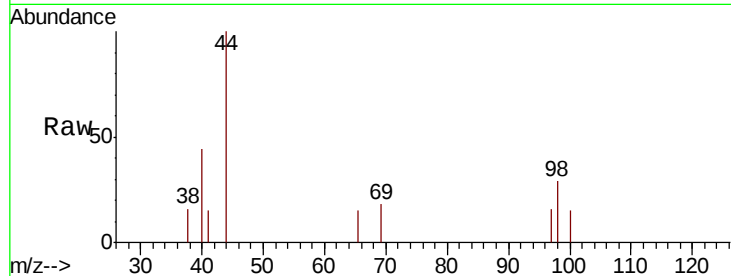




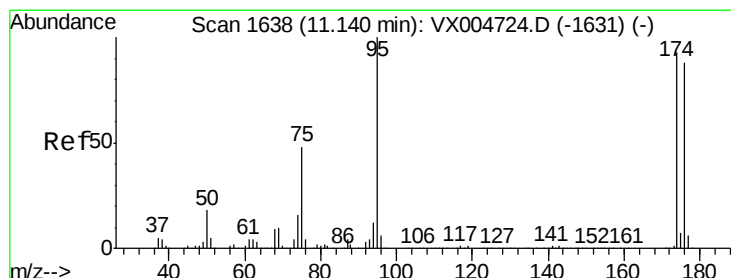
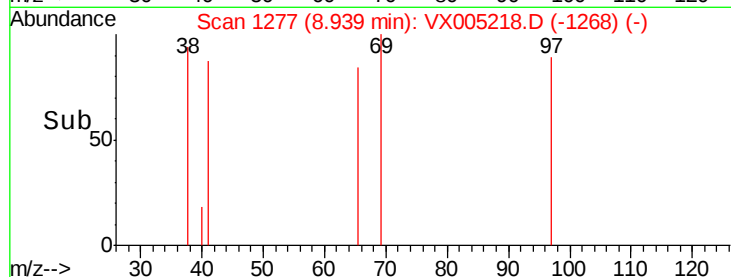
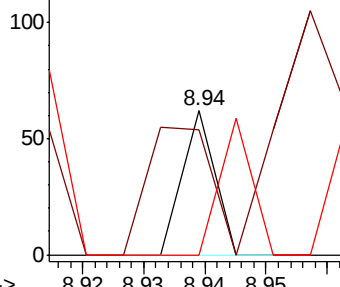
#56
 Ethvl methacrylate
 Concen: 2.868 ug/l
 RT: 8.94 min Scan# 1277
 Delta R.T. -0.24 min
 Lab File: VX005218.D
 Acq: 10 Oct 2018 20:28

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-108D2-20181004

Tot Ion: 69 Resp: 23
 Ion Ratio Lower Upper
 69 100
 41 173.9 56.9 85.3#
 39 95.7 28.4 42.6#

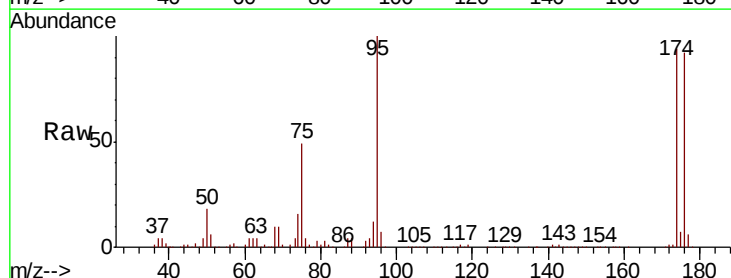


Abundance Ion 69.00 (68.70 to 69.70): VX0
 Ion 41.00 (40.70 to 41.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0

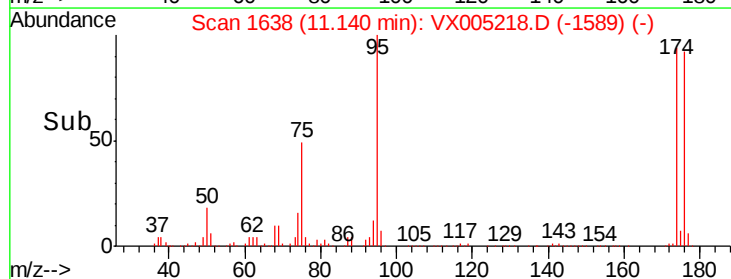
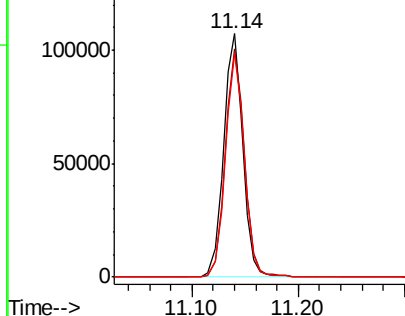


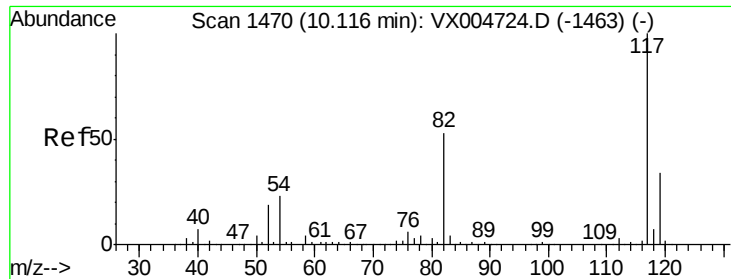
#62
 4-Bromofluorobenzene
 Concen: 50.570 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX005218.D
 Acq: 10 Oct 2018 20:28

Tgt Ion: 95 Resp: 135160
 Ion Ratio Lower Upper
 95 100
 174 94.1 0.0 185.0
 176 90.7 0.0 180.2



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

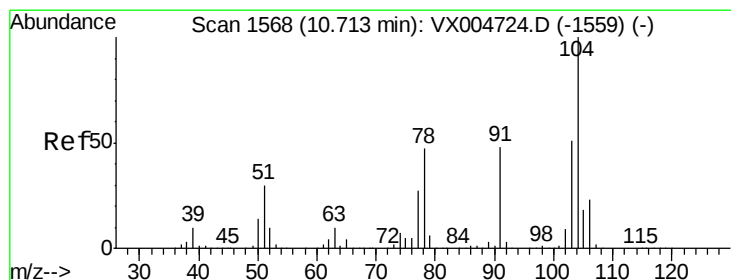
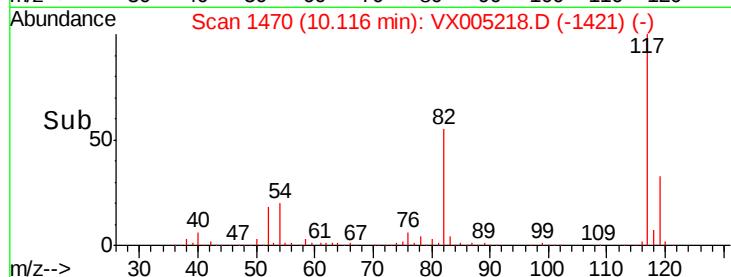
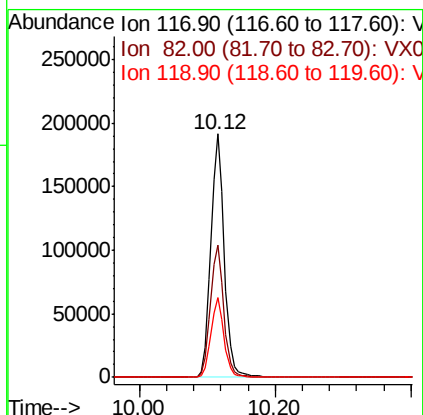
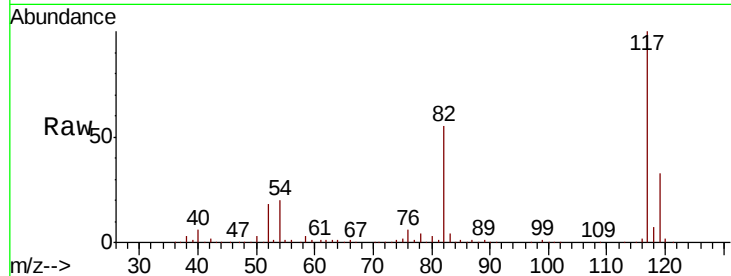




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005218.D
Acq: 10 Oct 2018 20:28

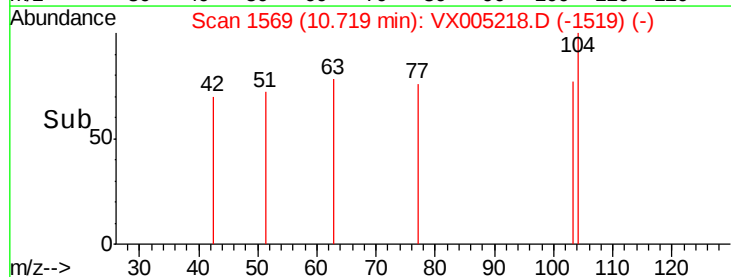
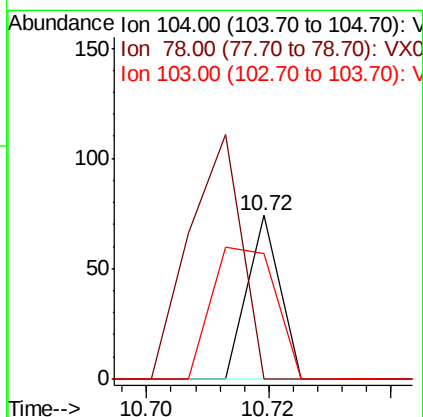
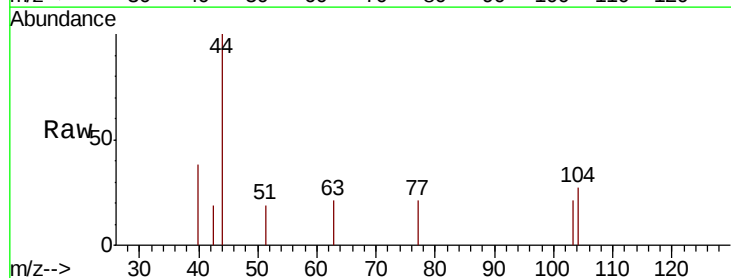
Instrument :
MSVOA_X
ClientSampleId :
RE-108D2-20181004

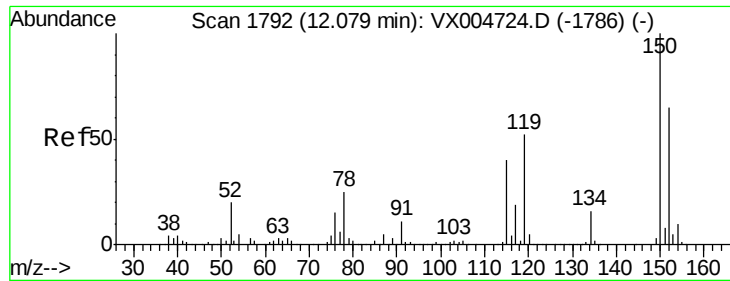
Tot Ion:117 Resp: 262076
Ion Ratio Lower Upper
117 100
82 54.6 42.2 63.4
119 32.7 27.4 41.0



#70
Styrene
Concen: 2.144 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VX005218.D
Acq: 10 Oct 2018 20:28

Tgt Ion:104 Resp: 27
Ion Ratio Lower Upper
104 100
78 240.7 40.0 60.0#
103 159.3 44.3 66.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

RE-108D2-20181004

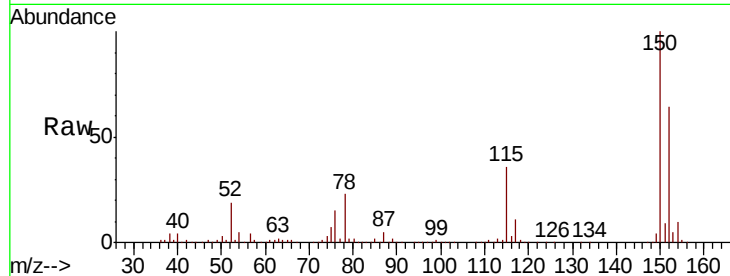
Tot Ion:152 Resp: 144595

Ion Ratio Lower Upper

152 100

115 54.8 40.2 120.6

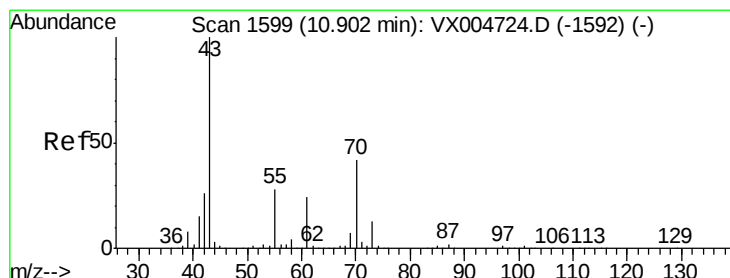
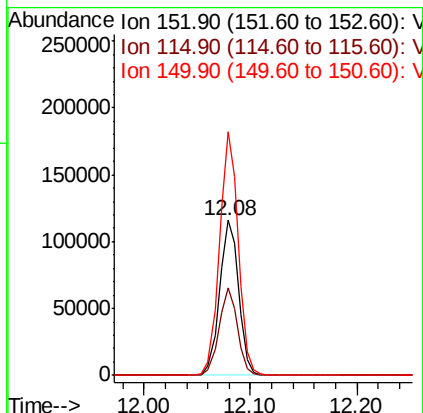
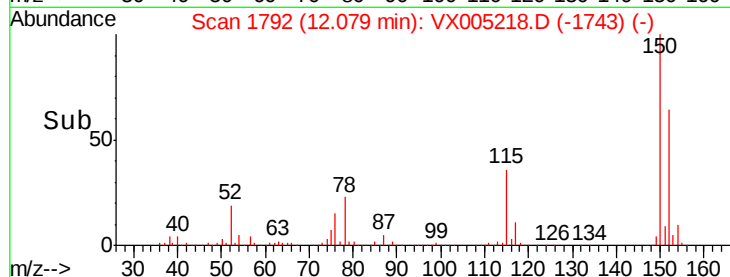
150 154.1 0.0 351.0



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: 1.756 ug/l

RT: 10.88 min Scan# 1596

Delta R.T. -0.02 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Tgt Ion: 43 Resp: 44

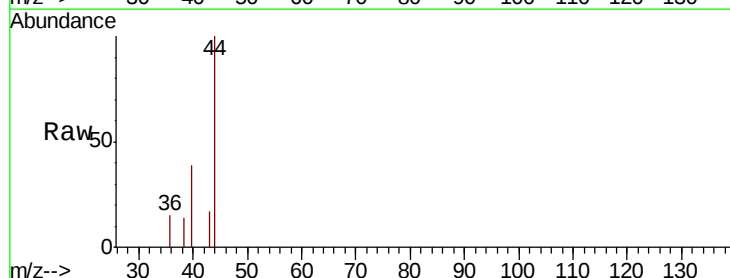
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

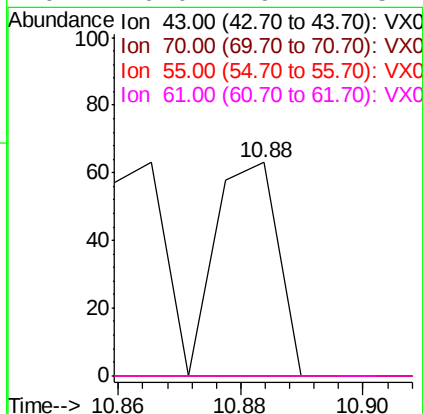
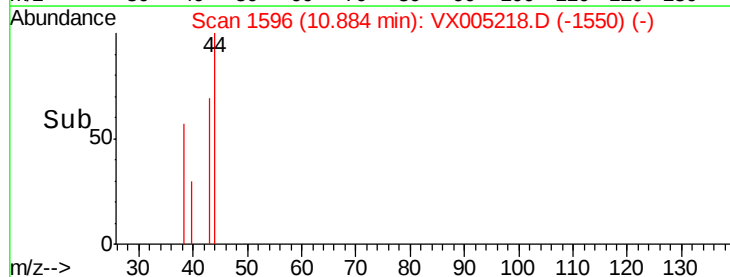


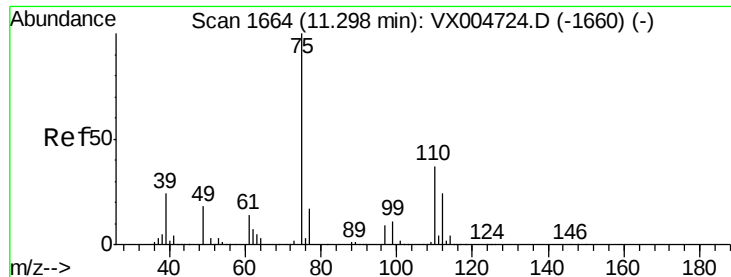
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.641 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

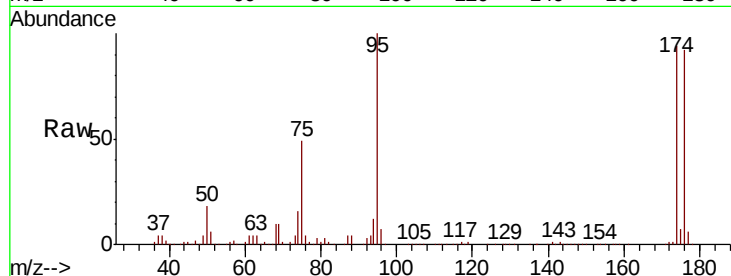
RE-108D2-20181004

Tot Ion: 75 Resp: 66896

Ion Ratio Lower Upper

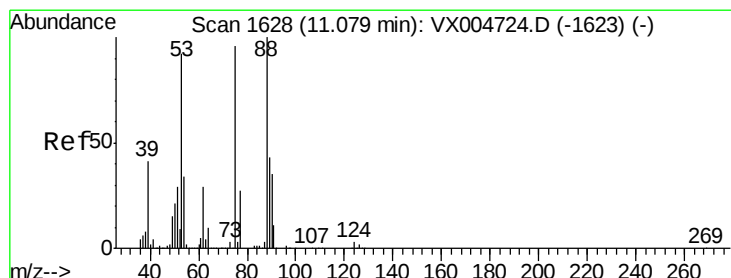
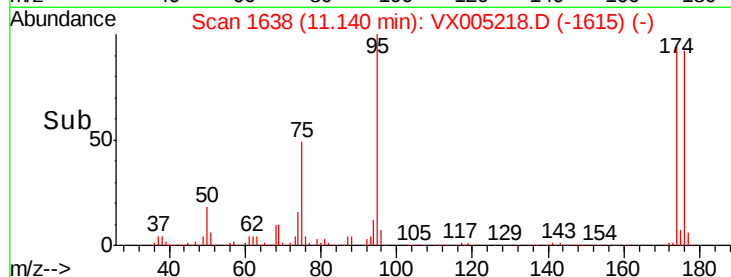
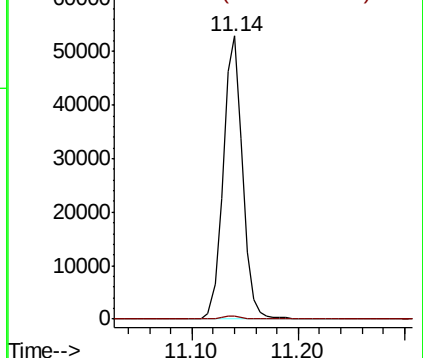
75 100

77 1.2 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: 56.046 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

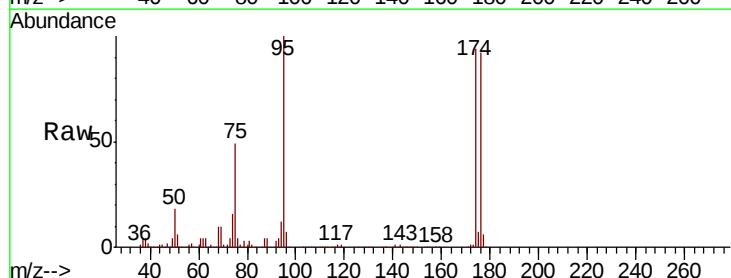
Tgt Ion: 75 Resp: 66896

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

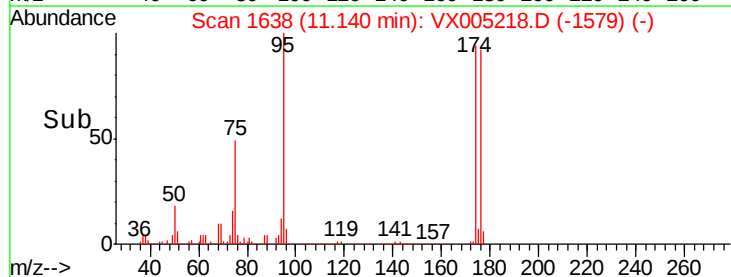
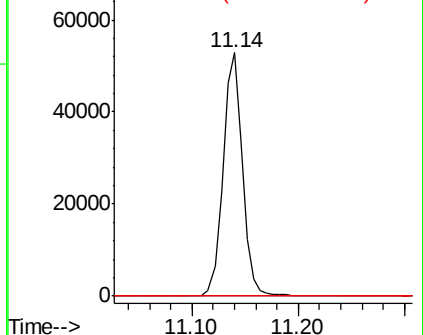
89 0.0 37.1 55.7#

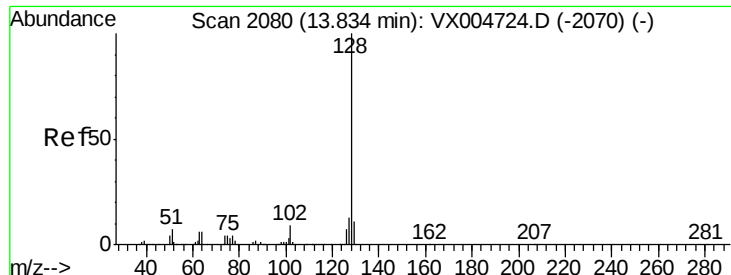


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.744 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005218.D

Acq: 10 Oct 2018 20:28

Instrument :

MSVOA_X

ClientSampleId :

RE-108D2-20181004

Tot Ion:128 Resp: 296

Ion Ratio Lower Upper

128 100

127 8.1 10.4 15.6#

129 0.0 8.7 13.1#

