

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101018\
 Data File : VX005236.D
 Acq On : 11 Oct 2018 06:18
 Operator : JC/MD
 Sample : J5284-16DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-DUP02-20181003DL

Quant Time: Oct 11 08:09:32 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	169213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	264131	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	268180	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	150722	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	132225	54.70	ug/l	0.00
Spiked Amount			Recovery	=	109.40%	
35) Dibromofluoromethane	5.50	113	114429	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
50) Toluene-d8	8.72	98	385989	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	11.14	95	139360	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	

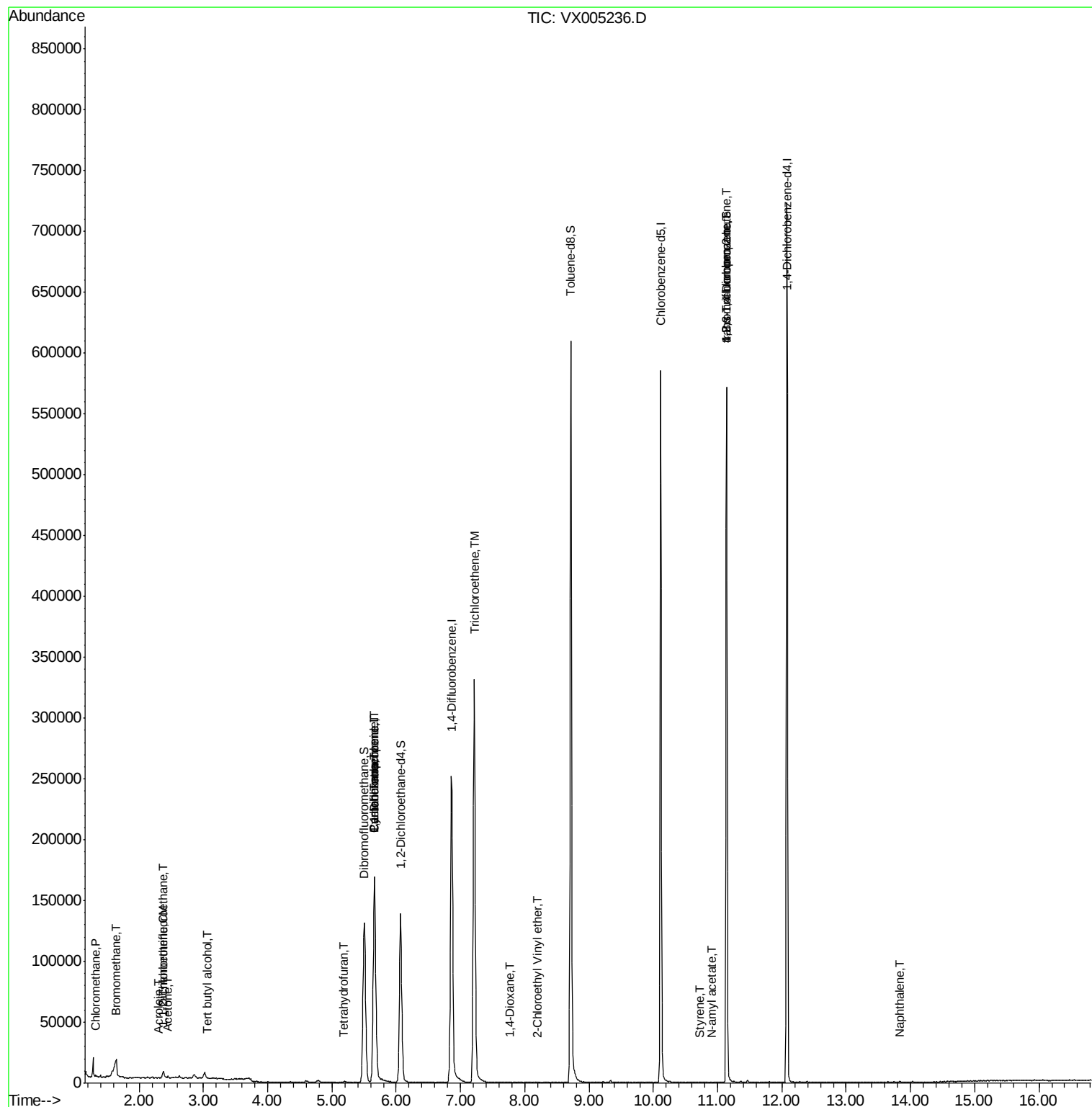
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	626	0.224	ug/l #	62
5) Bromomethane	1.64	94	1034	0.664	ug/l #	71
6) Chloroethane	1.72	64	105	Below Cal	#	81
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1149	0.621	ug/l	96
11) Tert butyl alcohol	3.07	59	257	0.380	ug/l	97
12) 1,1-Dichloroethene	2.37	96	1108	0.604	ug/l #	85
13) Acrolein	2.29	56	215	0.447	ug/l #	77
16) Acetone	2.45	43	978	0.693	ug/l #	69
20) Methylene Chloride	2.85	84	1445	Below Cal		90
29) Tetrahydrofuran	5.17	42	658	0.509	ug/l #	52
31) Cyclohexane	5.66	56	3174	1.032	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	11338	3.712	ug/l #	46
38) Carbon Tetrachloride	5.66	117	15034	4.683	ug/l #	17
44) Trichloroethene	7.21	130	135775	57.762	ug/l	98
49) 1,4-Dioxane	7.77	88	170	2.576	ug/l #	20
58) 2-Chloroethyl Vinyl ether	8.20	63	38	14.260	ug/l #	49
70) Styrene	10.72	104	64	2.149	ug/l #	25
74) N-amyl acetate	10.91	43	21	1.752	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	68651	20.322	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	149	Below Cal	#	47
81) trans-1,4-Dichloro-2-buten	11.14	75	68651	55.209	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	184	Below Cal		72
95) Naphthalene	13.83	128	333	0.746	ug/l #	69

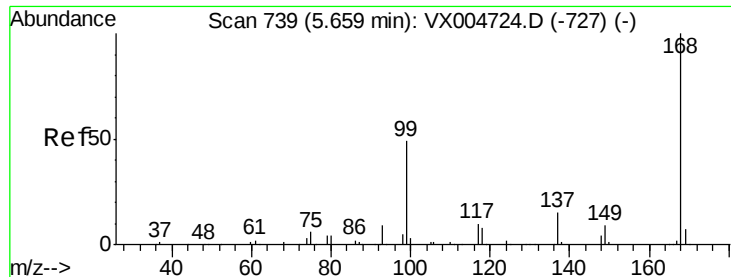
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

Instrument :

MSVOA_X

ClientSampleId :

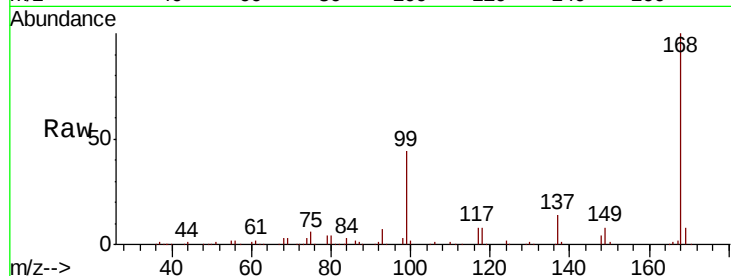
TT-DUP02-20181003DL

Tot Ion:168 Resp: 169213

Ion Ratio Lower Upper

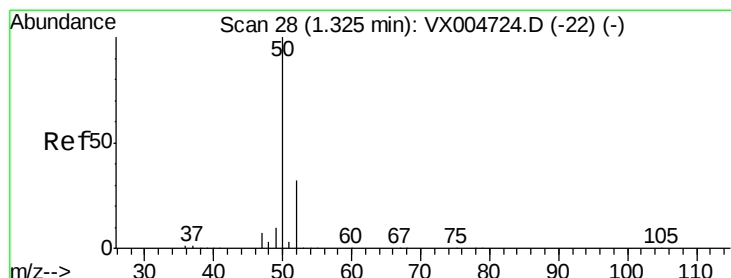
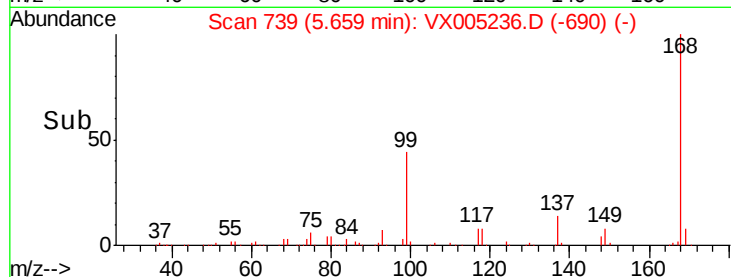
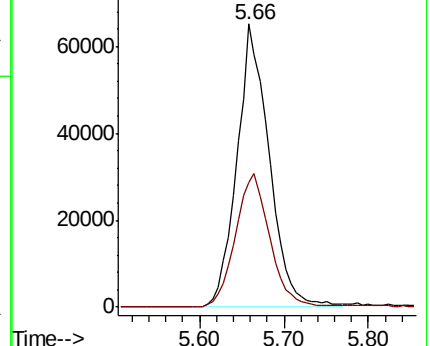
168 100

99 44.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.224 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005236.D

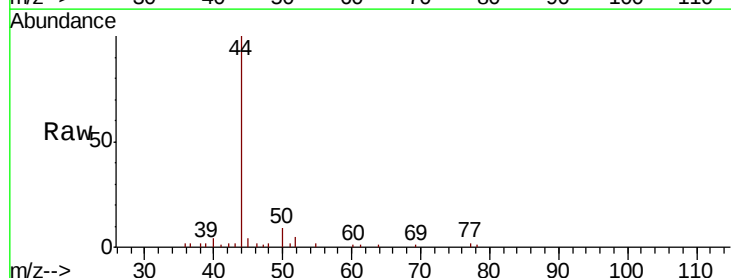
Acq: 11 Oct 2018 06:18

Tgt Ion: 50 Resp: 626

Ion Ratio Lower Upper

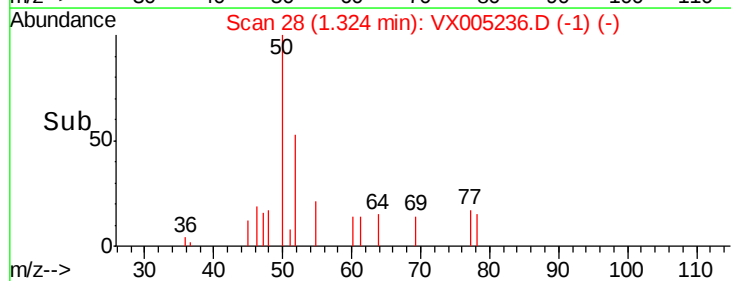
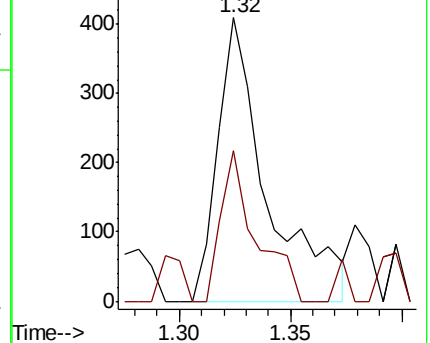
50 100

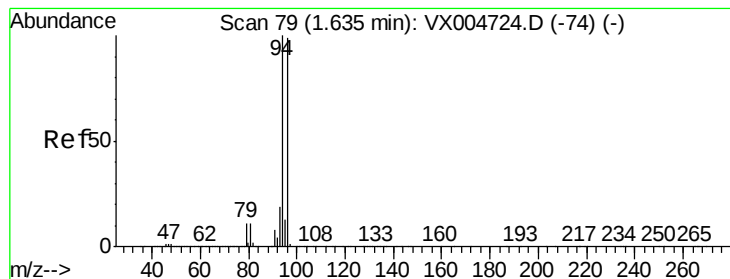
52 53.3 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.664 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

Instrument :

MSVOA_X

ClientSampleId :

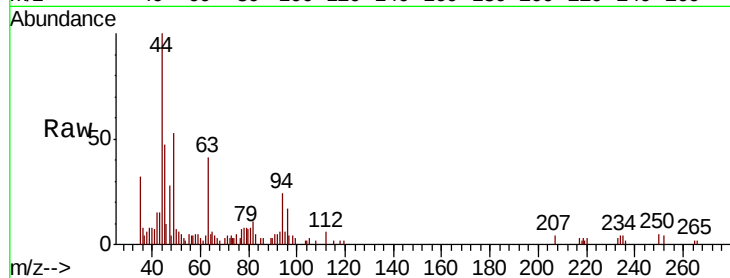
TT-DUP02-20181003DL

Tot Ion: 94 Resp: 1034

Ion Ratio Lower Upper

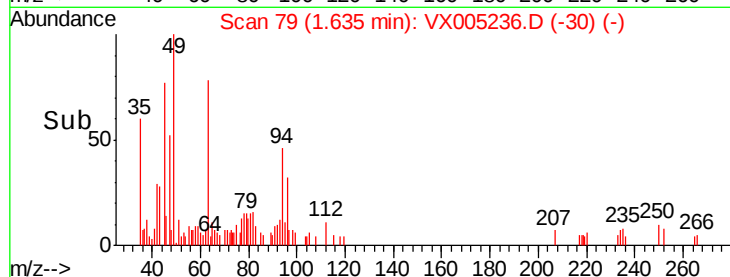
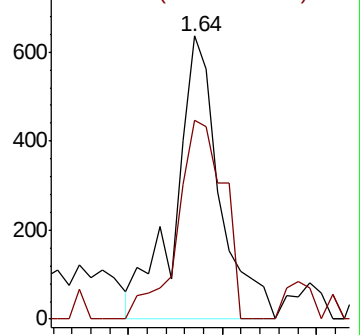
94 100

96 70.3 79.5 119.3#

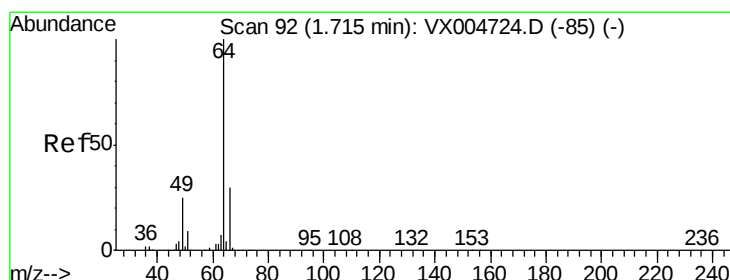


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005236.D

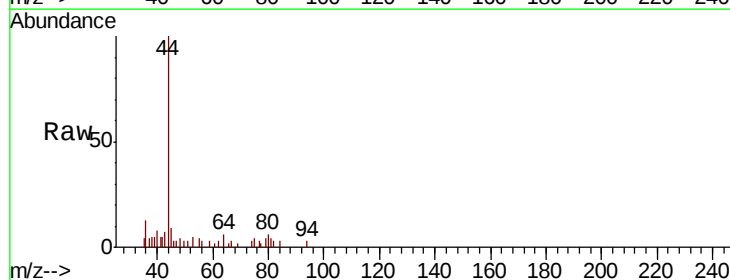
Acq: 11 Oct 2018 06:18

Tgt Ion: 64 Resp: 105

Ion Ratio Lower Upper

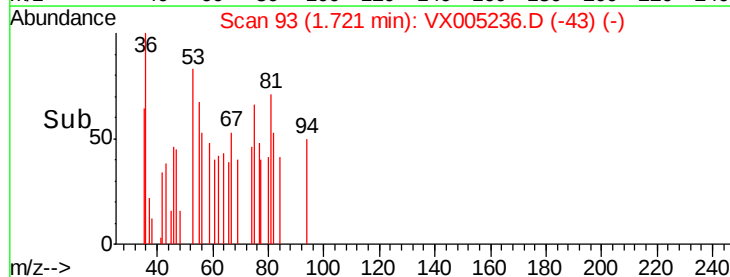
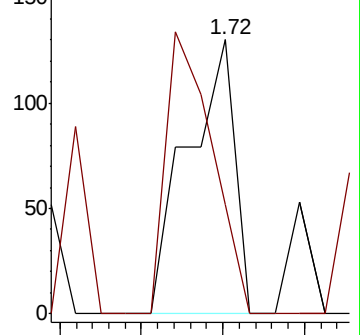
64 100

66 40.0 23.8 35.6#

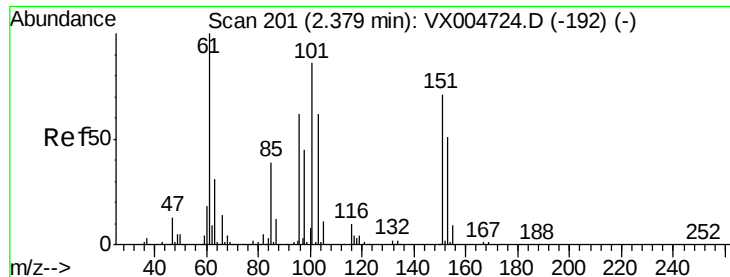


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.621 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.00 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

Instrument :

MSVOA_X

ClientSampleId :

TT-DUP02-20181003DL

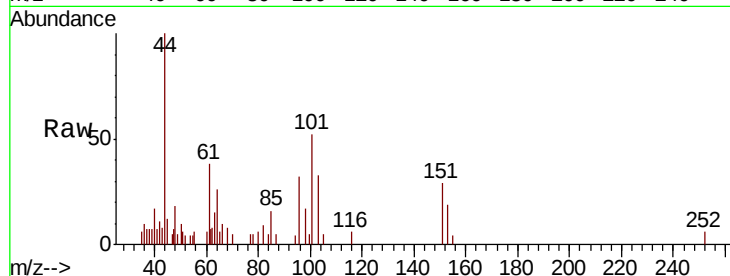
Tot Ion:101 Resp: 1149

Ion Ratio Lower Upper

101 100

85 51.9 35.9 53.9

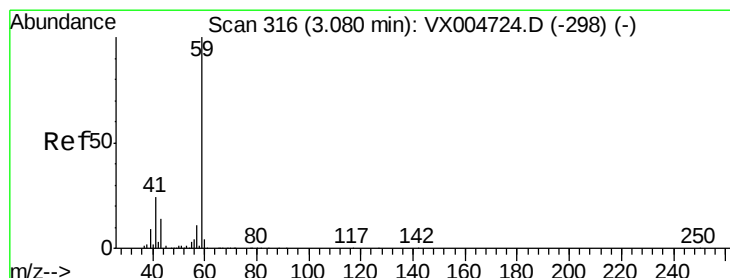
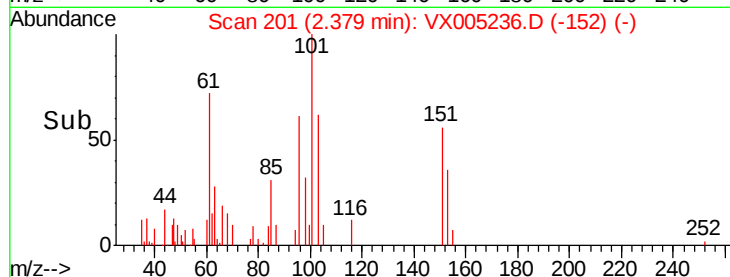
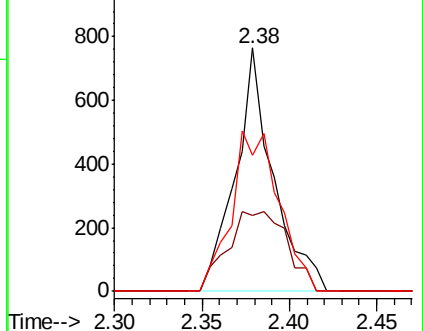
151 83.3 66.6 100.0



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: 0.380 ug/l

RT: 3.07 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX005236.D

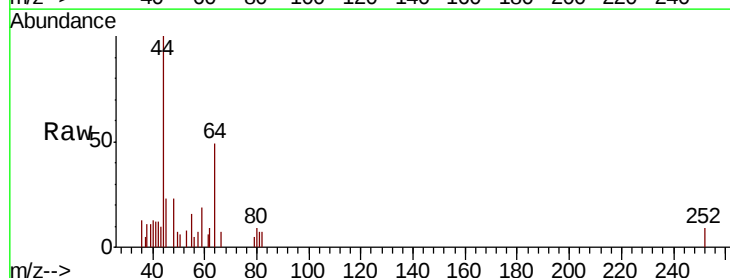
Acq: 11 Oct 2018 06:18

Tgt Ion: 59 Resp: 257

Ion Ratio Lower Upper

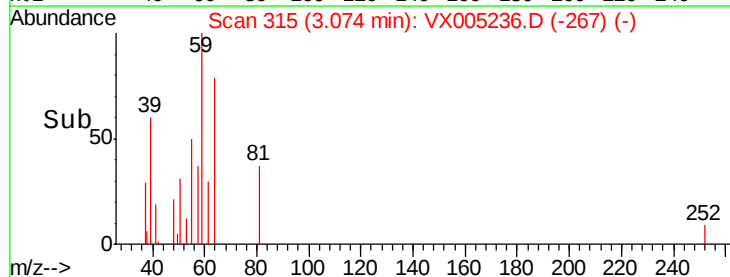
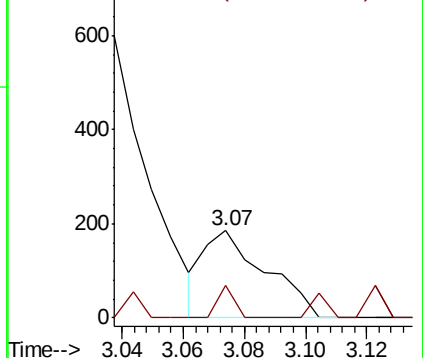
59 100

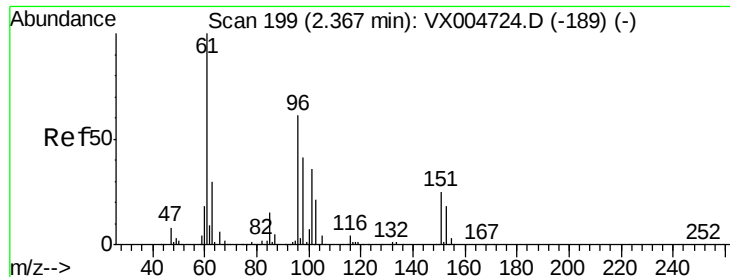
57 9.7 8.6 12.8



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.604 ug/l

RT: 2.37 min Scan# 199

Delta R.T. -0.00 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

Instrument :

MSVOA_X

ClientSampleId :

TT-DUP02-20181003DL

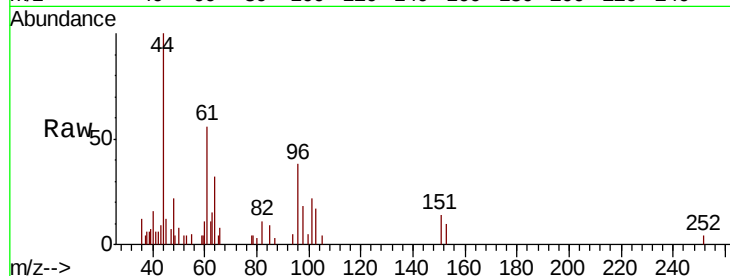
Tot Ion: 96 Resp: 1108

Ion Ratio Lower Upper

96 100

61 148.6 130.2 195.4

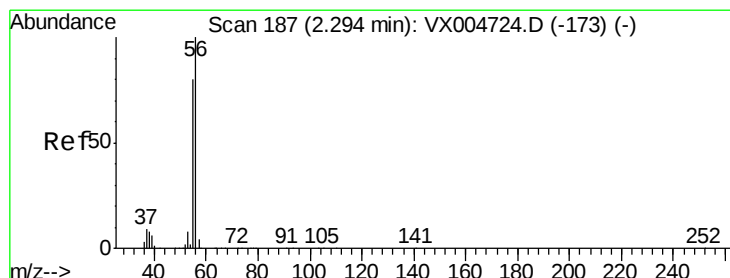
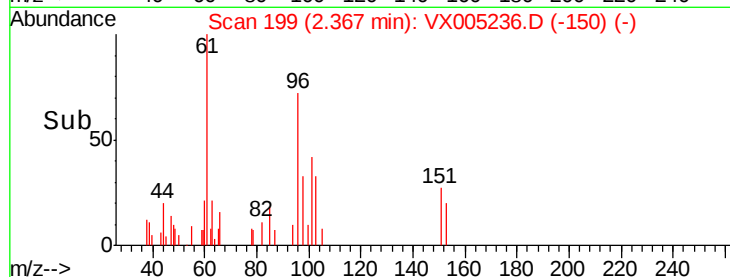
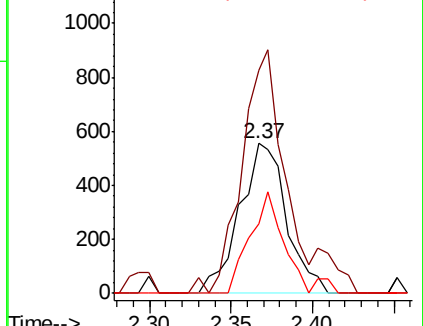
98 46.4 53.4 80.0#



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: 0.447 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX005236.D

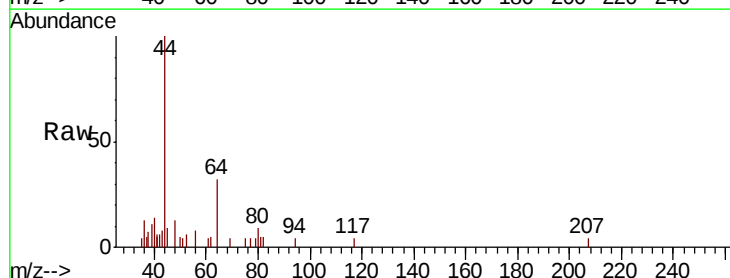
Acq: 11 Oct 2018 06:18

Tgt Ion: 56 Resp: 215

Ion Ratio Lower Upper

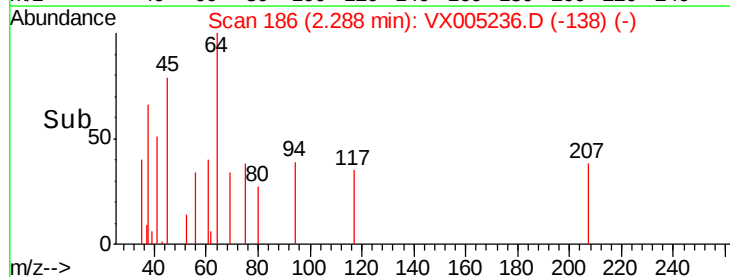
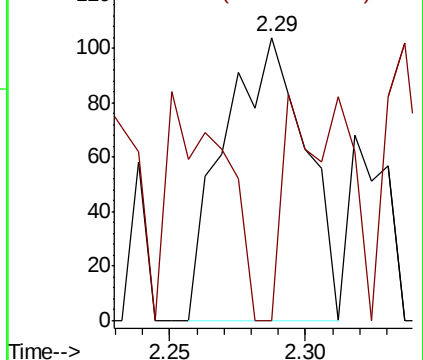
56 100

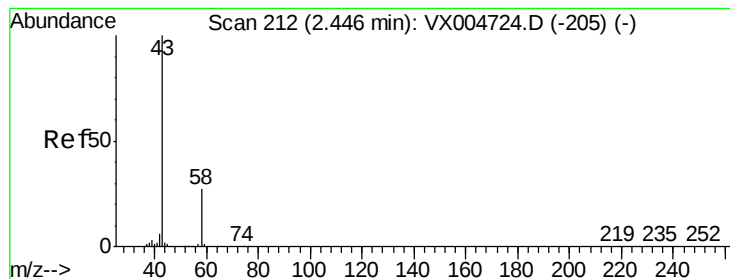
55 59.1 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.693 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

Instrument :

MSVOA_X

ClientSampleId :

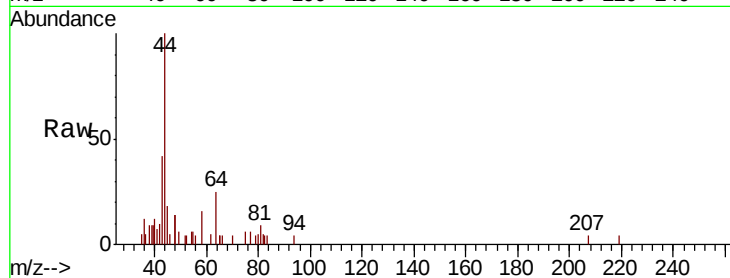
TT-DUP02-20181003DL

Tot Ion: 43 Resp: 978

Ion Ratio Lower Upper

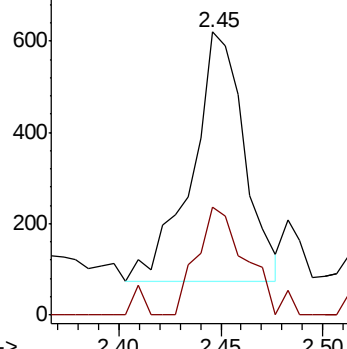
43 100

58 43.4 21.8 32.6#

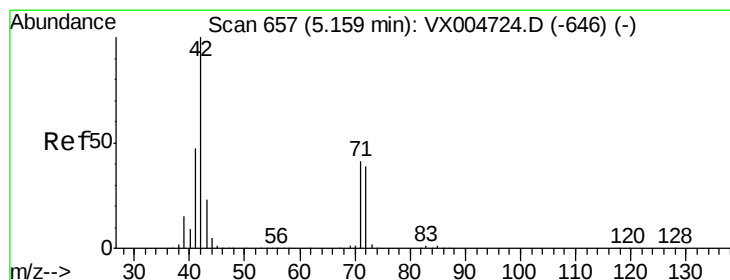
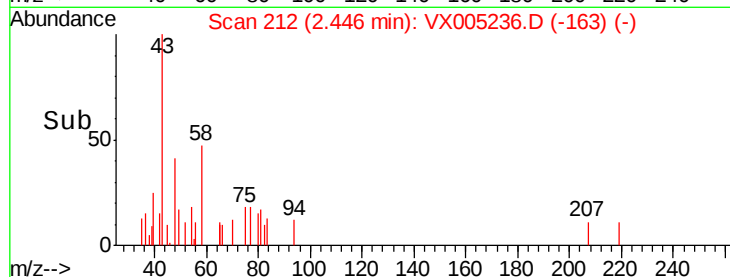


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#29

Tetrahydrofuran

Concen: 0.509 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

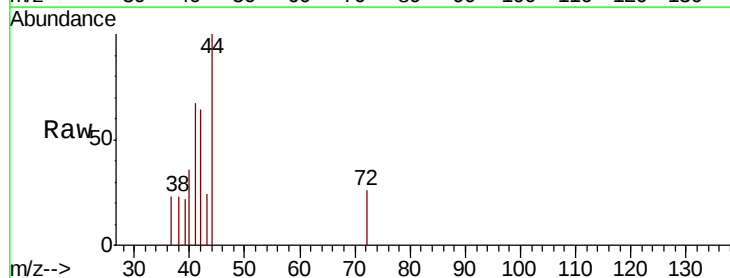
Tgt Ion: 42 Resp: 658

Ion Ratio Lower Upper

42 100

72 10.2 33.7 50.5#

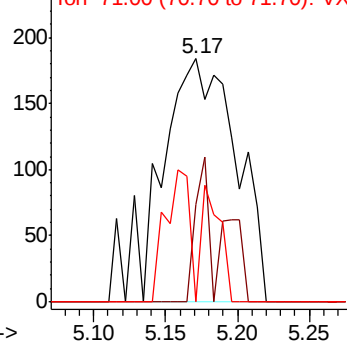
71 11.9 32.2 48.4#



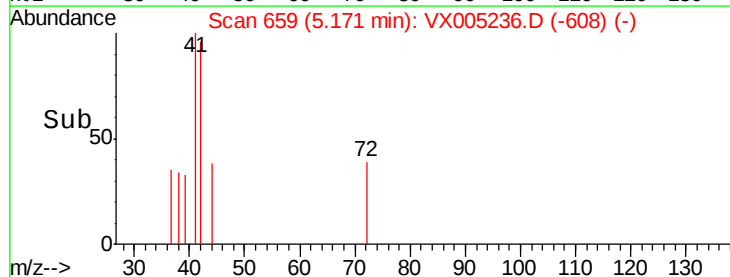
Abundance Ion 42.00 (41.70 to 42.70): VX0

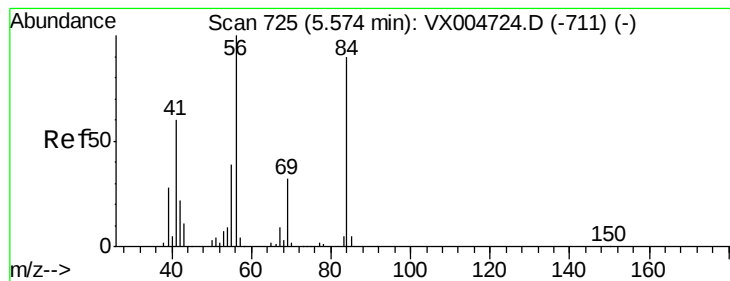
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->





#31

Cvclohexane

Concen: 1.032 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

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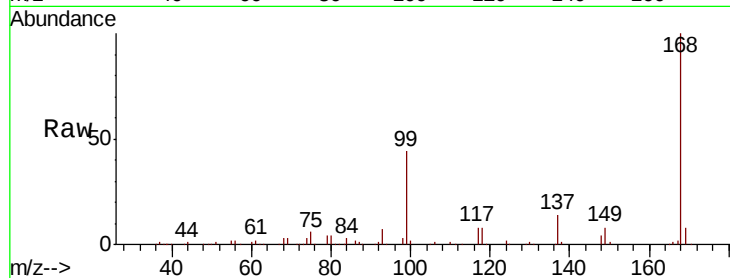
Tot Ion: 56 Resp: 3174

Ion Ratio Lower Upper

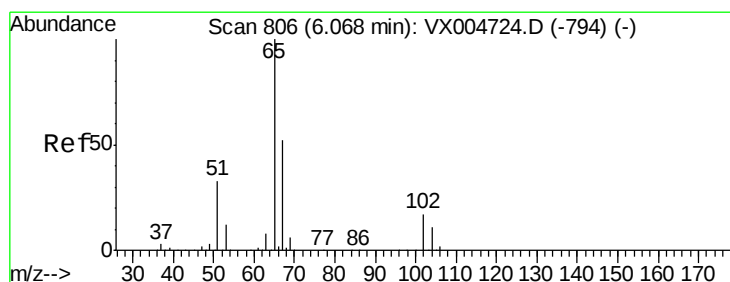
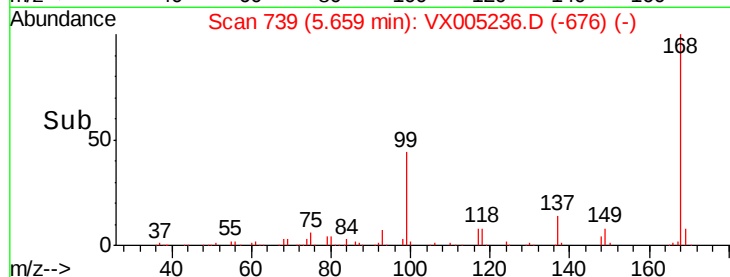
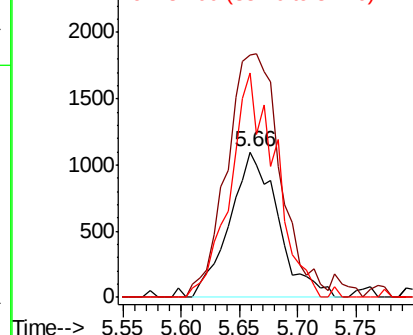
56 100

69 158.1 25.9 38.9#

84 154.9 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: 54.701 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005236.D

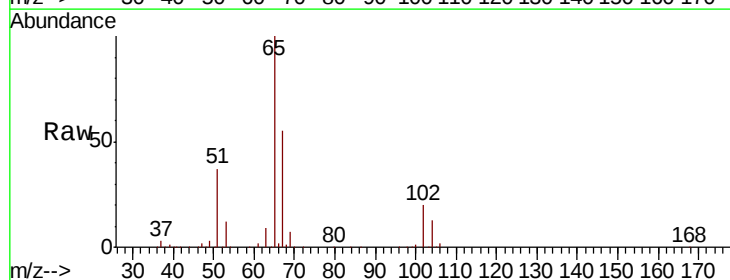
Acq: 11 Oct 2018 06:18

Tgt Ion: 65 Resp: 132225

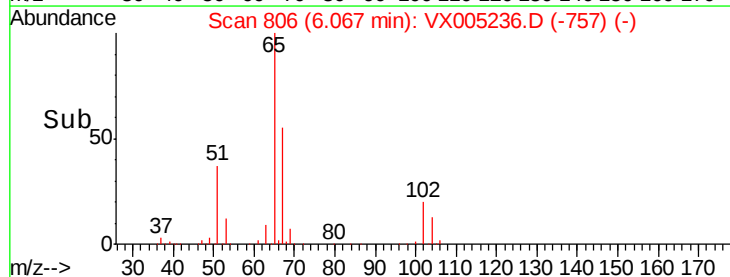
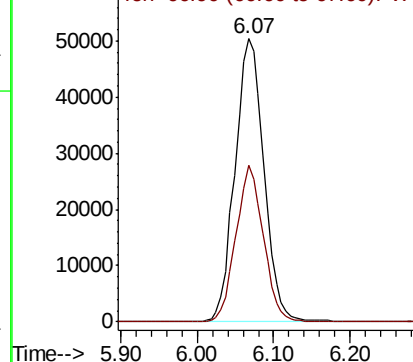
Ion Ratio Lower Upper

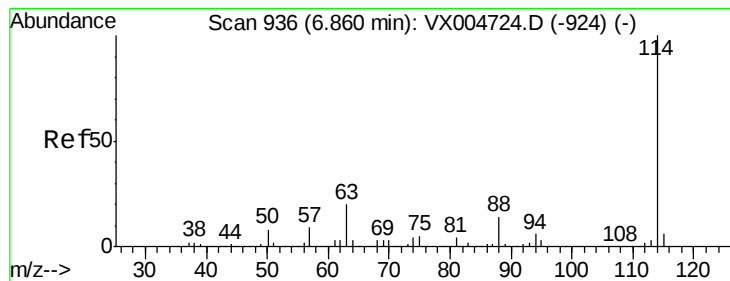
65 100

67 52.5 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: VX005236.D

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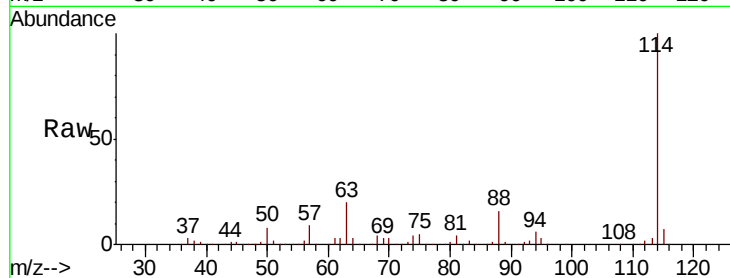
Tot Ion:114 Resp: 264131

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.8

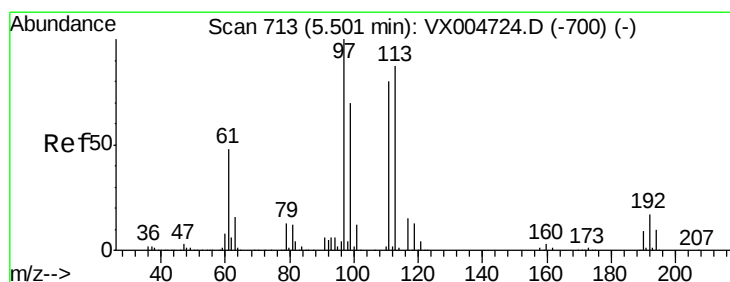
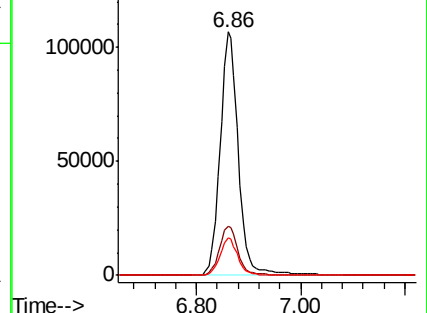
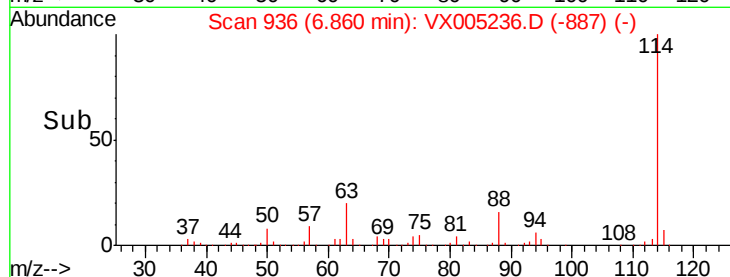
88 15.6 0.0 27.0



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: 51.118 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

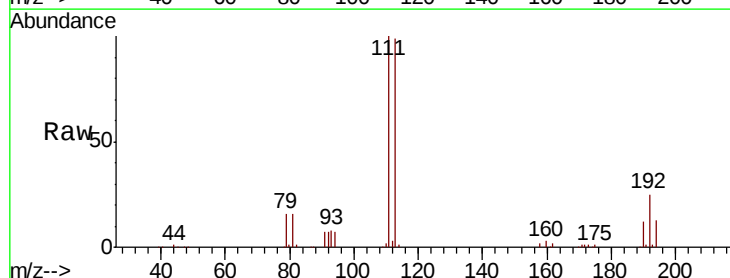
Tgt Ion:113 Resp: 114429

Ion Ratio Lower Upper

113 100

111 100.1 77.0 115.4

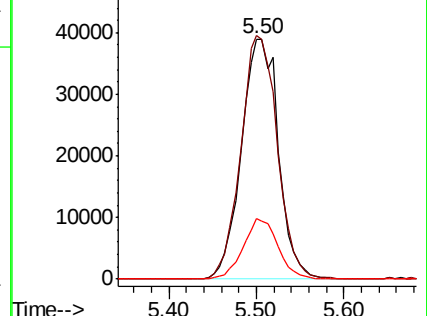
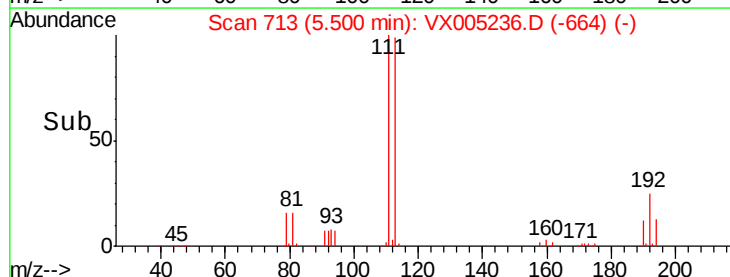
192 23.4 17.0 25.6

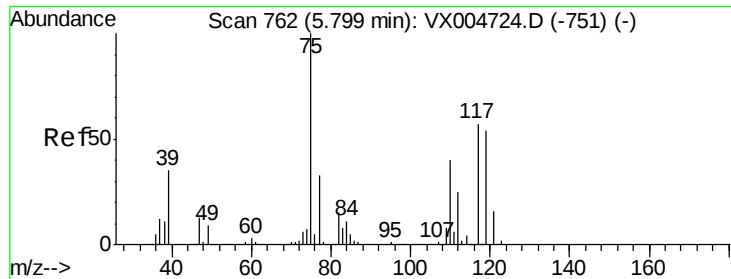


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

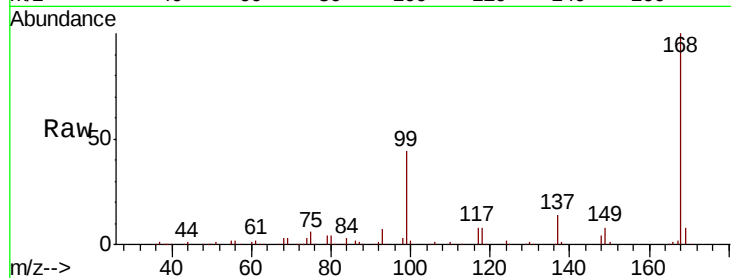




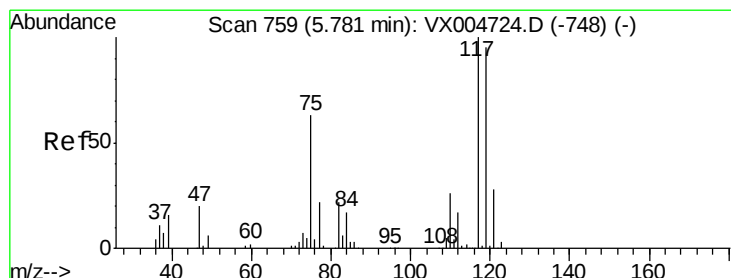
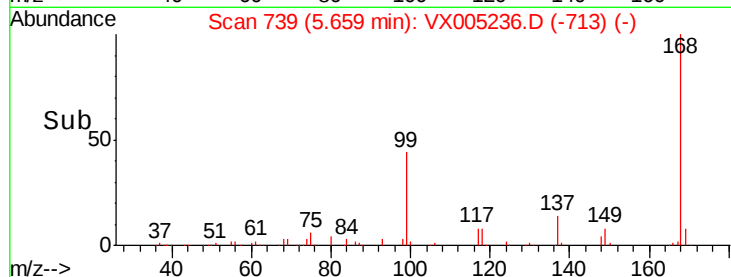
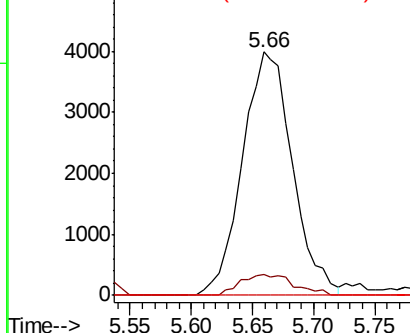
#36
 1,1-Dichloropropene
 Concen: 3.712 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005236.D
 Acq: 11 Oct 2018 06:18

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-DUP02-20181003DL

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	20.0	59.9#
77	0.0	27.1	40.7#

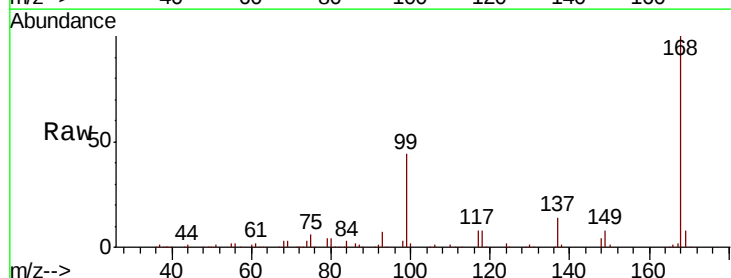


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

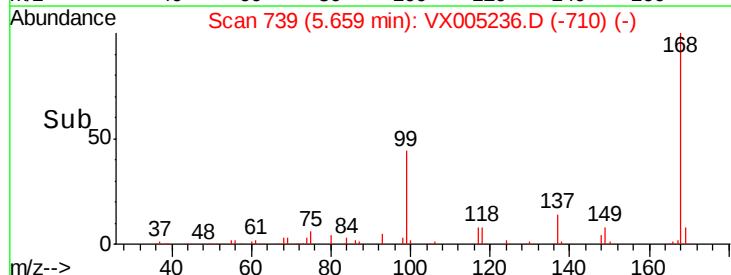
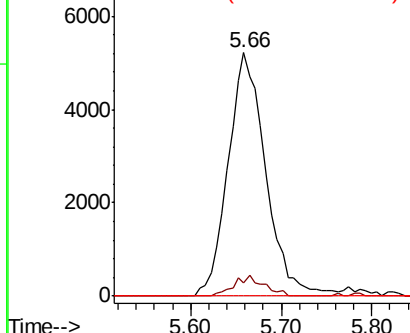


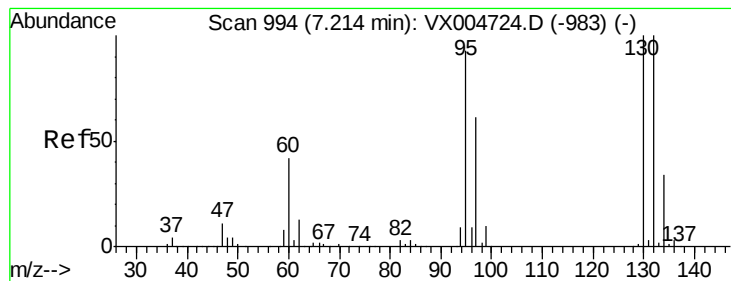
#38
 Carbon Tetrachloride
 Concen: 4.683 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX005236.D
 Acq: 11 Oct 2018 06:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	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: 57.762 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

Instrument :

MSVOA_X

ClientSampleId :

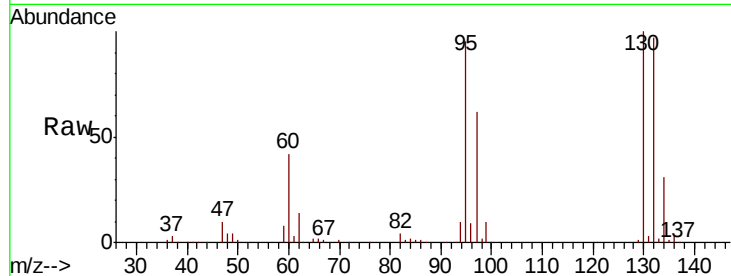
TT-DUP02-20181003DL

Tot Ion:130 Resp: 135775

Ion Ratio Lower Upper

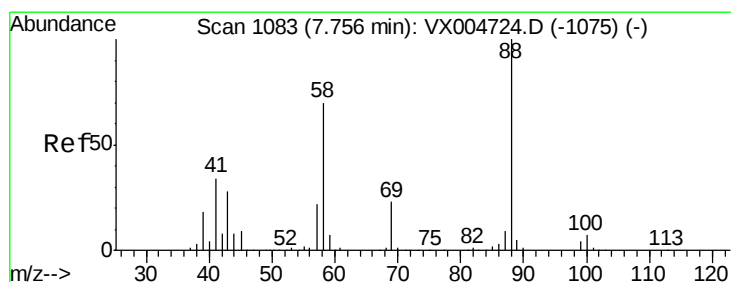
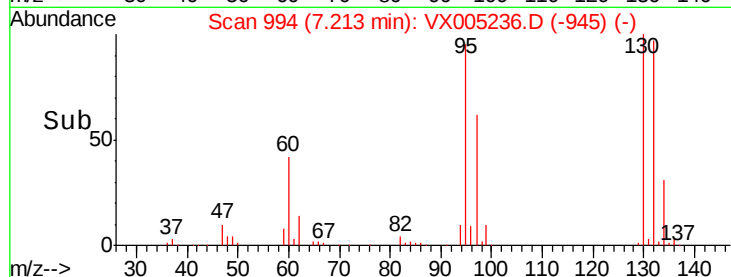
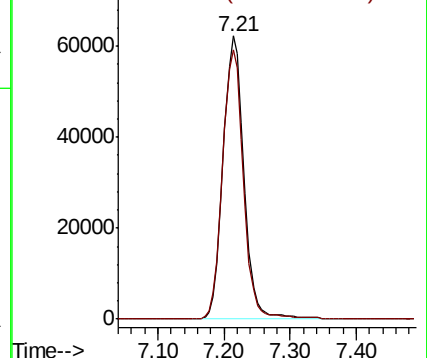
130 100

95 95.2 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: 2.576 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

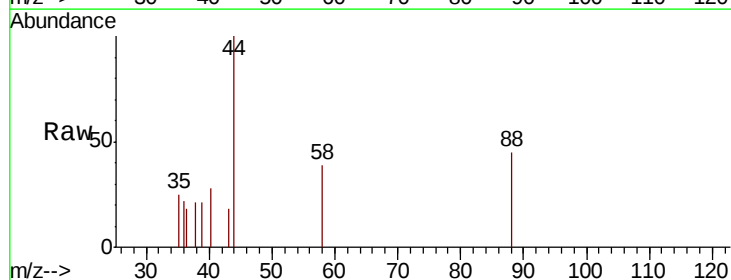
Tgt Ion: 88 Resp: 170

Ion Ratio Lower Upper

88 100

43 55.3 25.1 37.7#

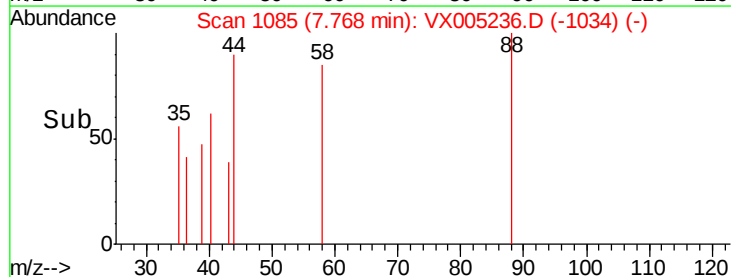
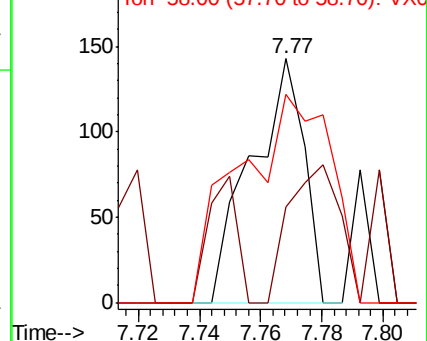
58 150.0 56.2 84.2#

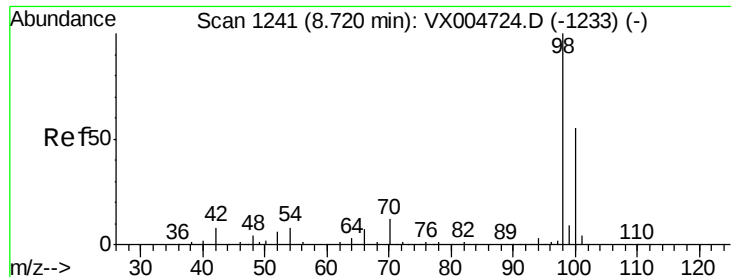


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.866 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

Instrument :

MSVOA_X

ClientSampleId :

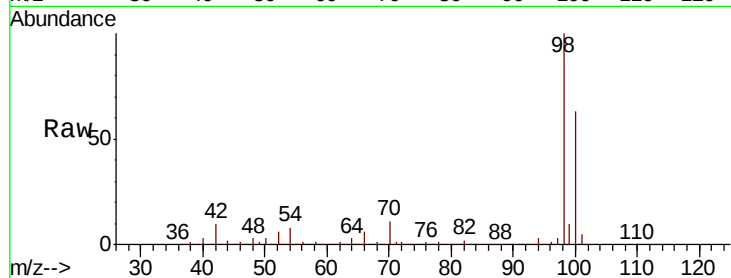
TT-DUP02-20181003DL

Tot Ion: 98 Resp: 385989

Ion Ratio Lower Upper

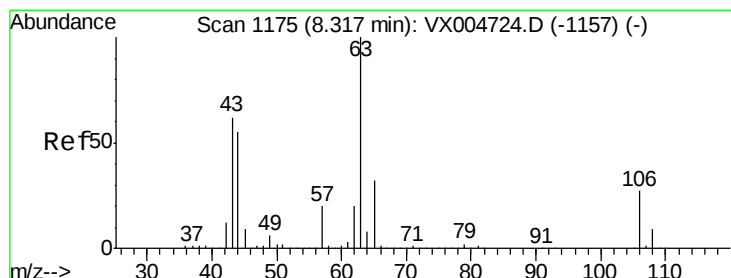
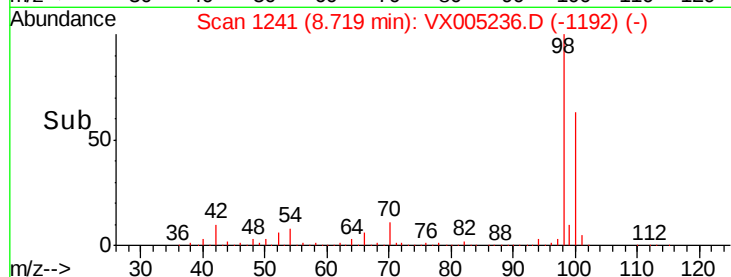
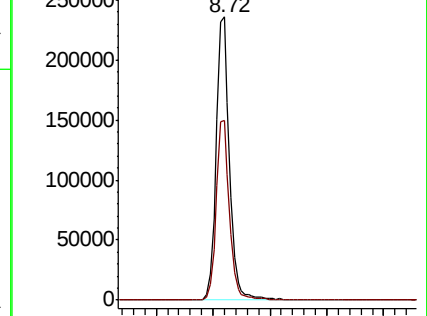
98 100

100 63.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#58

2-Chloroethyl Vinyl ether

Concen: 14.260 ug/l

RT: 8.20 min Scan# 1156

Delta R.T. -0.12 min

Lab File: VX005236.D

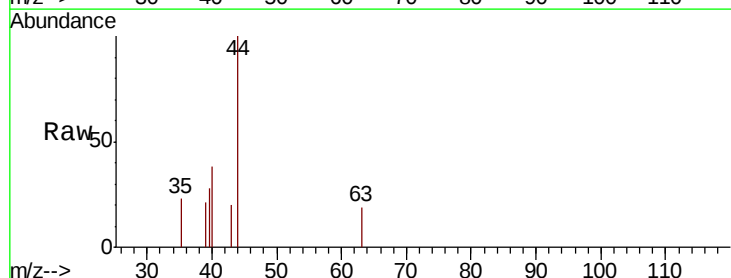
Acq: 11 Oct 2018 06:18

Tgt Ion: 63 Resp: 38

Ion Ratio Lower Upper

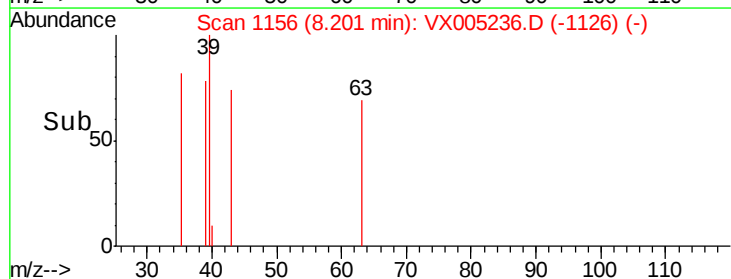
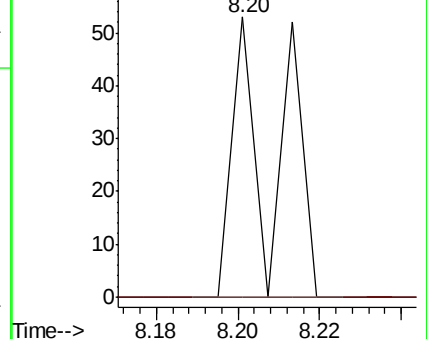
63 100

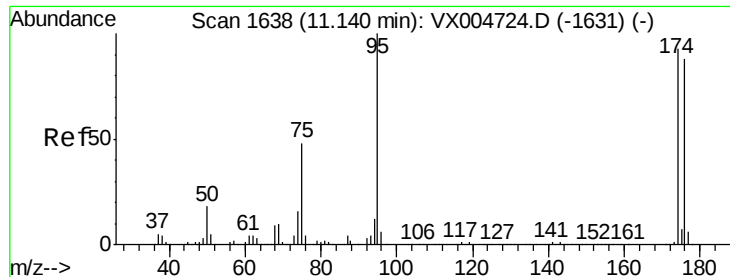
106 0.0 21.0 31.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

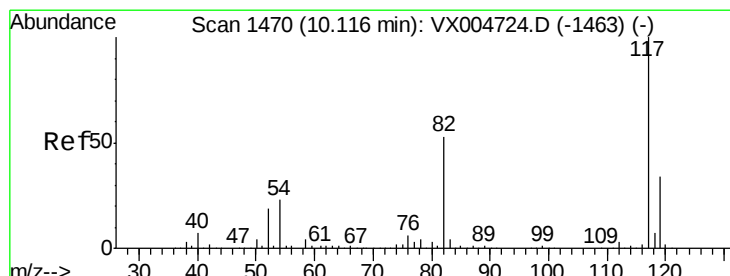
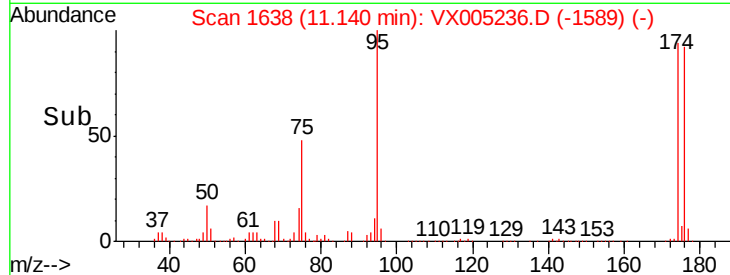
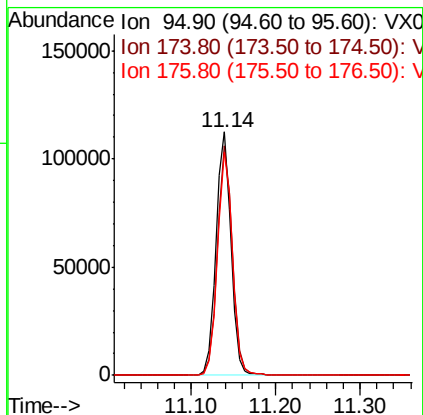
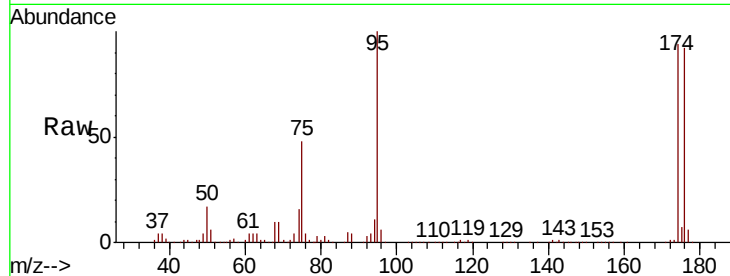




#62
4-Bromofluorobenzene
Concen: 51.980 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005236.D
Acq: 11 Oct 2018 06:18

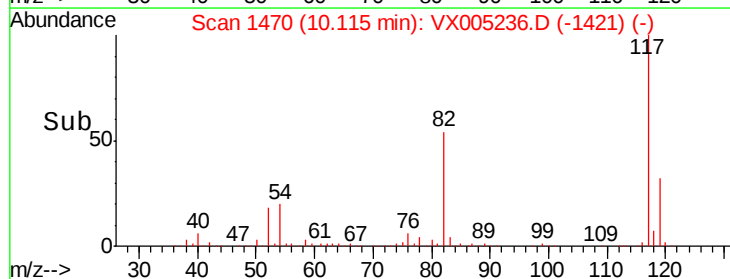
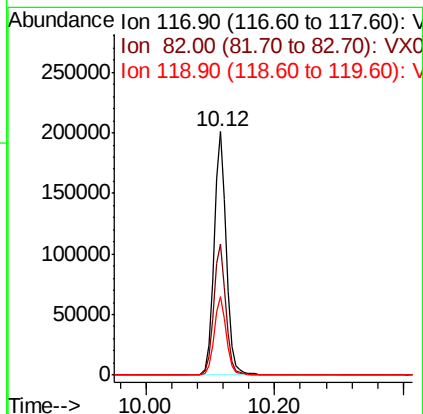
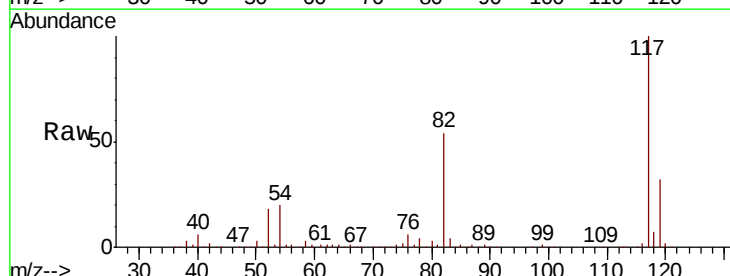
Instrument :
MSVOA_X
ClientSampleId :
TT-DUP02-20181003DL

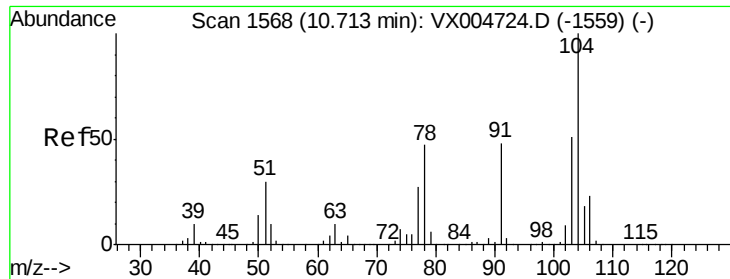
Tot Ion: 95 Resp: 139360
Ion Ratio Lower Upper
95 100
174 94.9 0.0 185.0
176 91.6 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005236.D
Acq: 11 Oct 2018 06:18

Tgt Ion: 117 Resp: 268180
Ion Ratio Lower Upper
117 100
82 54.0 42.2 63.4
119 32.2 27.4 41.0

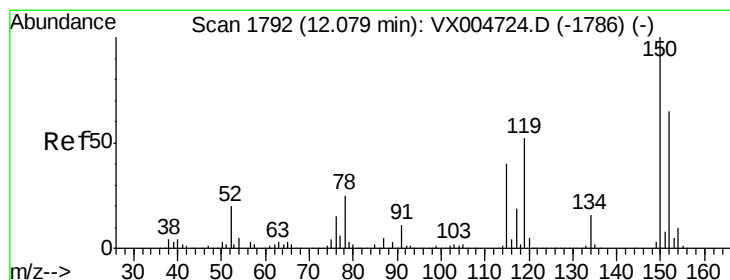
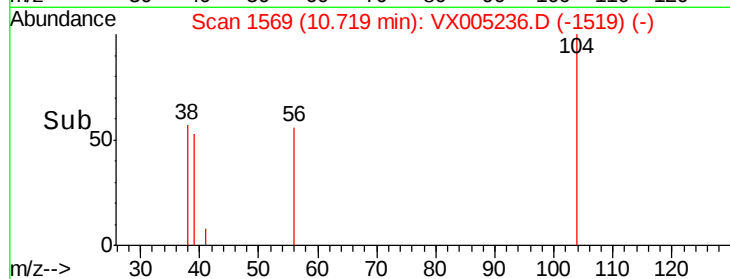
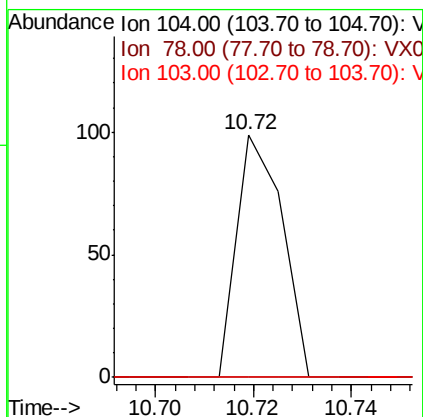
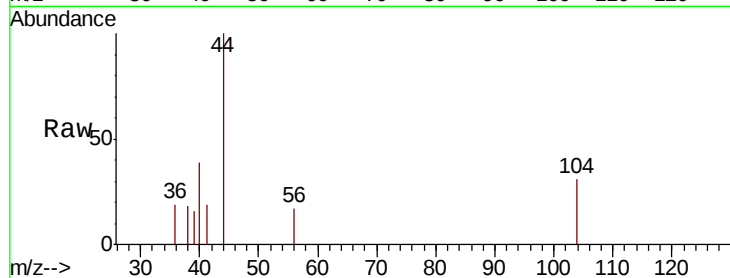




#70
Stvrene
Concen: 2.149 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VX005236.D
Acq: 11 Oct 2018 06:18

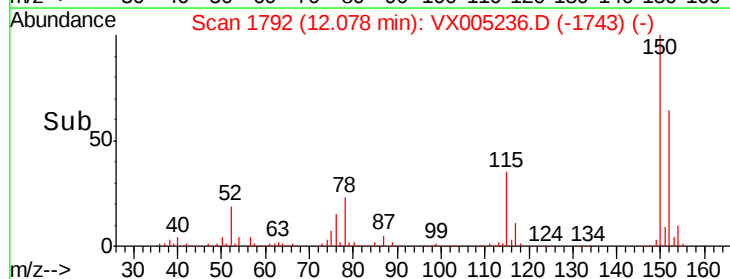
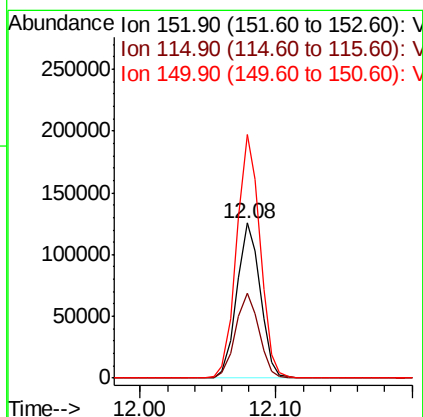
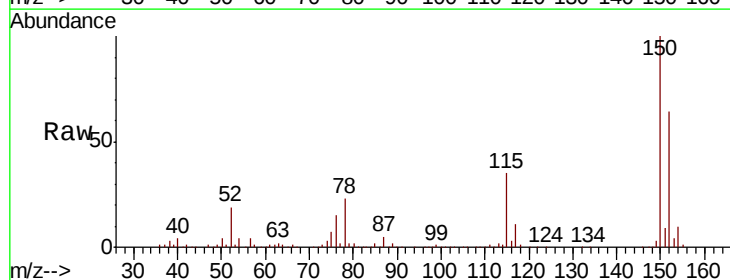
Instrument :
MSVOA_X
ClientSampleId :
TT-DUP02-20181003DL

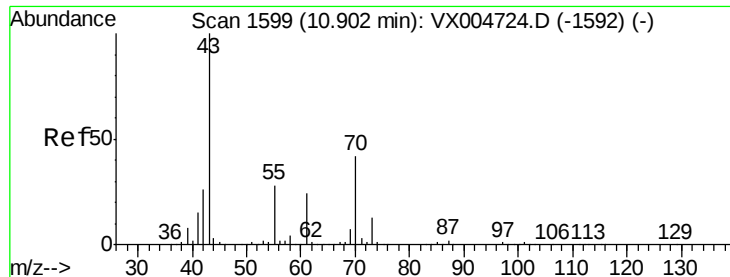
Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	40.0	60.0#
103	0.0	44.3	66.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005236.D
Acq: 11 Oct 2018 06:18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	40.2	120.6
150	156.5	0.0	351.0





#74

N-amvl acetate

Concen: 1.752 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

Instrument :

MSVOA_X

ClientSampleId :

TT-DUP02-20181003DL

Tot Ion: 43 Resp: 21

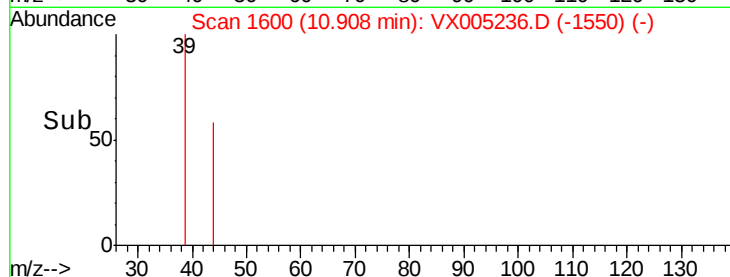
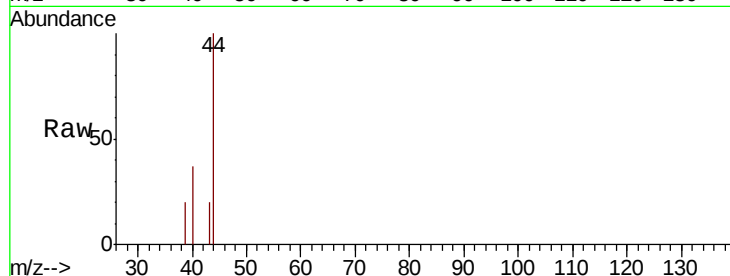
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

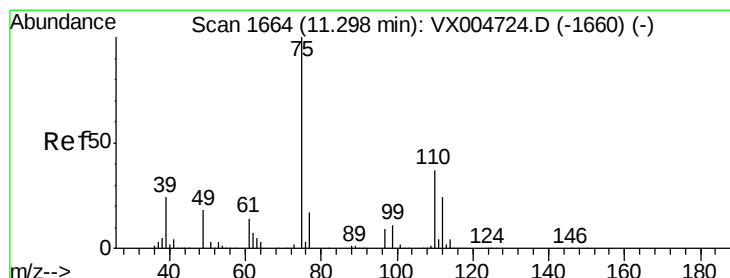
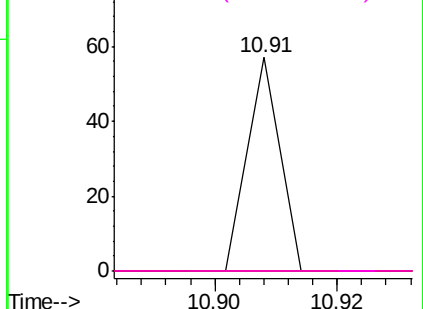


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.322 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005236.D

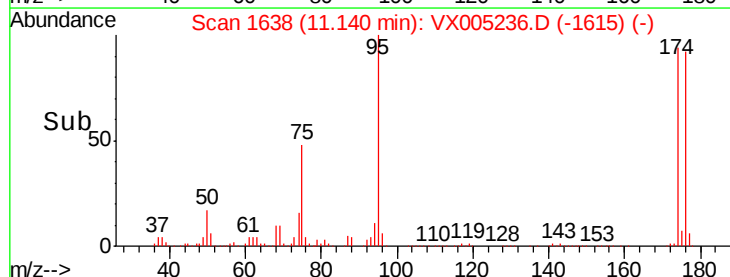
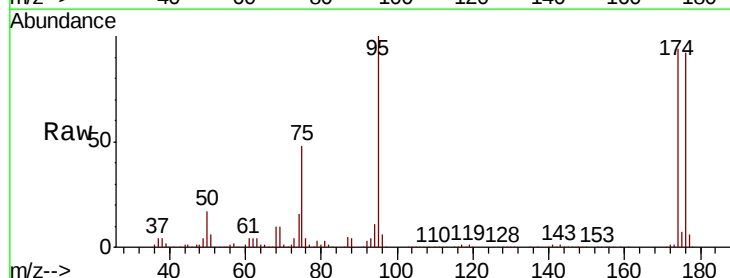
Acq: 11 Oct 2018 06:18

Tgt Ion: 75 Resp: 68651

Ion Ratio Lower Upper

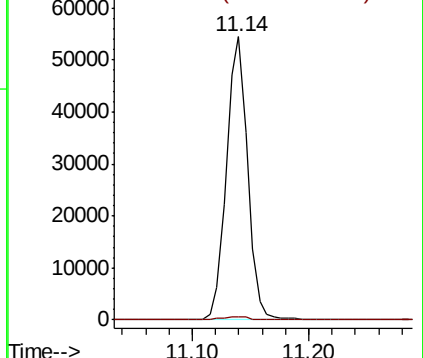
75 100

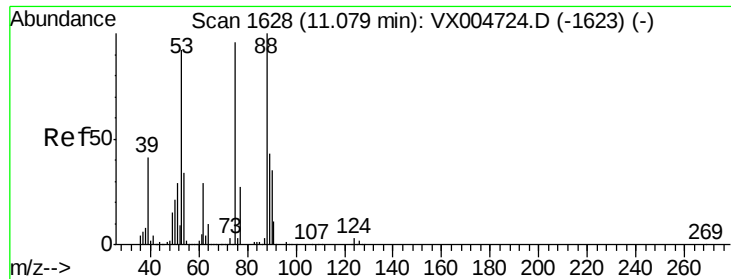
77 1.4 21.4 64.3#



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: 55.209 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

Instrument :

MSVOA_X

ClientSampleId :

TT-DUP02-20181003DL

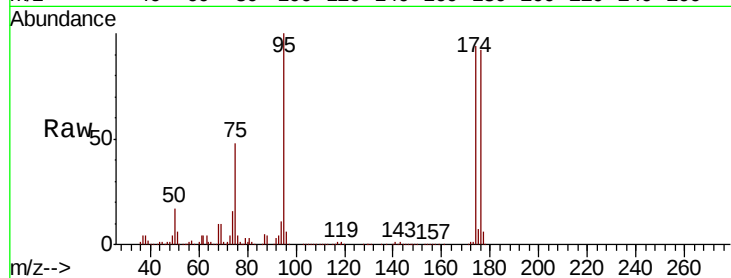
Tot Ion: 75 Resp: 68651

Ion Ratio Lower Upper

75 100

53 0.4 80.2 120.4#

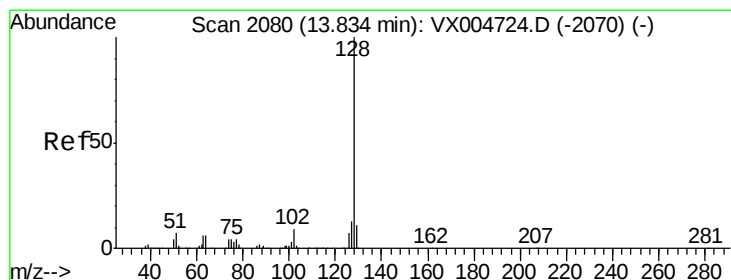
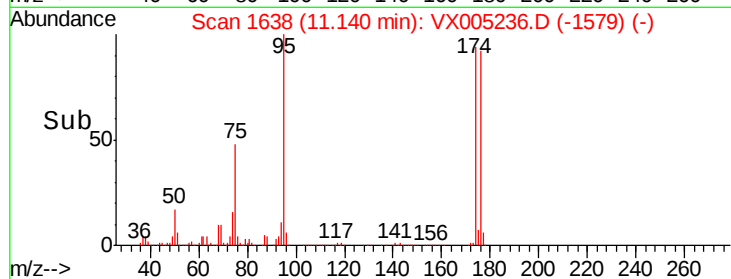
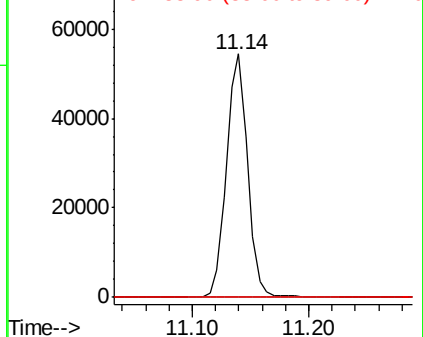
89 0.0 37.1 55.7#



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: 0.746 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005236.D

Acq: 11 Oct 2018 06:18

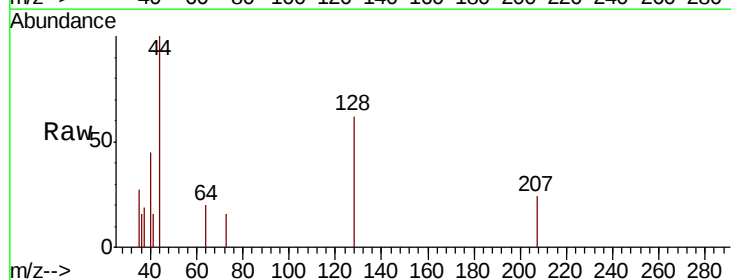
Tgt Ion: 128 Resp: 333

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

