

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080819\
 Data File : VX011388.D
 Acq On : 08 Aug 2019 13:42
 Operator : JC/SP
 Sample : K4220-10DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-01_080719DL

Quant Time: Aug 09 04:24:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	154570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	252393	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	243685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	108976	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	92084	59.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.32%	
35) Dibromofluoromethane	5.49	113	83032	50.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.78%	
50) Toluene-d8	8.71	98	311647	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	
62) 4-Bromofluorobenzene	11.13	95	107892	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	

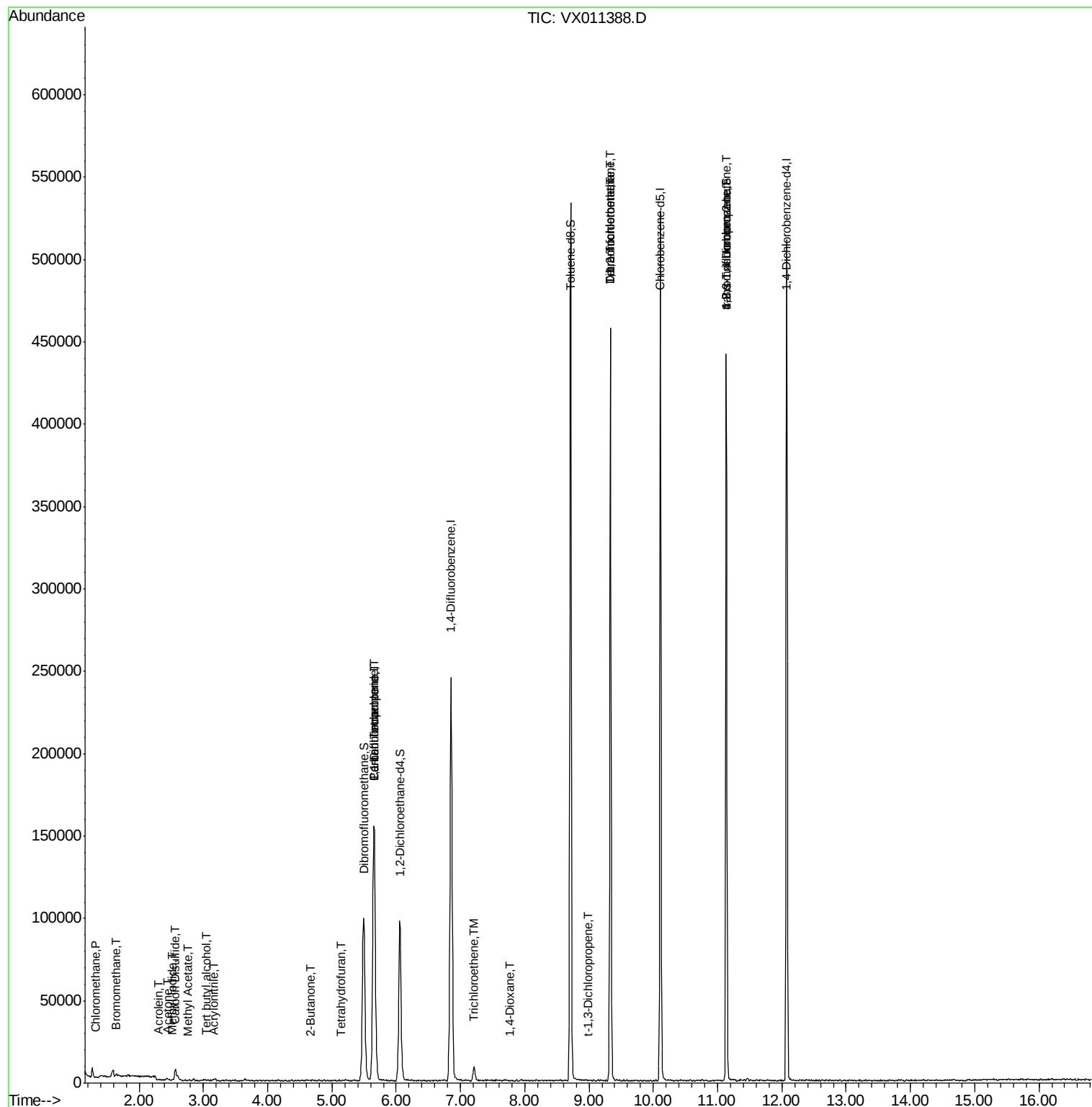
Target Compounds					Qvalue	
3) Chloromethane	1.32	50	355	0.265	ug/l	95
5) Bromomethane	1.65	94	514	0.489	ug/l #	76
6) Chloroethane	1.70	64	217	Below Cal	#	59
10) Methyl Iodide	2.51	142	406	0.227	ug/l #	90
11) Tert butyl alcohol	3.04	59	240	0.796	ug/l #	28
13) Acrolein	2.29	56	176	0.491	ug/l #	48
15) Acrylonitrile	3.15	53	206	0.278	ug/l #	30
16) Acetone	2.44	43	999	1.348	ug/l #	83
17) Carbon Disulfide	2.56	76	8145	2.468	ug/l	99
18) Methyl Acetate	2.76	43	443	0.262	ug/l #	57
25) 2-Butanone	4.67	43	217	0.206	ug/l #	1
29) Tetrahydrofuran	5.13	42	346	0.535	ug/l #	29
36) 1,1-Dichloropropene	5.65	75	10970	4.978	ug/l #	49
38) Carbon Tetrachloride	5.65	117	14559	6.567	ug/l #	13
44) Trichloroethene	7.21	130	3415	1.716	ug/l	82
49) 1,4-Dioxane	7.76	88	25	0.519	ug/l #	65
53) t-1,3-Dichloropropene	8.98	75	21	2.846	ug/l #	43
55) 1,1,2-Trichloroethane	9.33	97	810	0.453	ug/l #	10
60) Dibromochloromethane	9.34	129	84376	46.103	ug/l #	10
64) Tetrachloroethene	9.34	164	90349	43.658	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	54413	27.418	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	54413	71.111	ug/l #	10

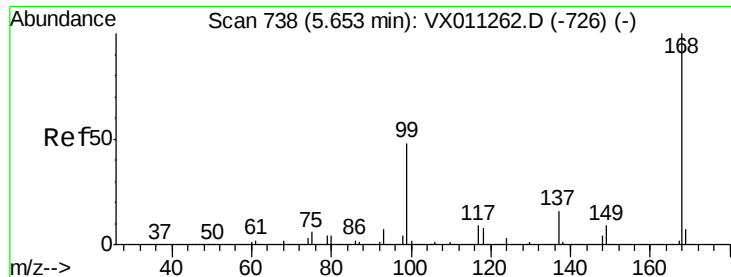
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

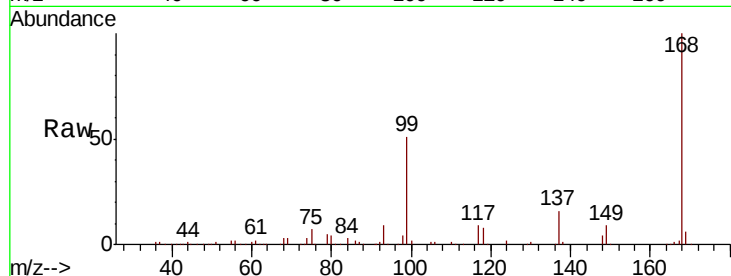
DUP-01_080719DL

Tgt Ion:168 Resp: 154570

Ion Ratio Lower Upper

168 100

99 51.4 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

50000

40000

30000

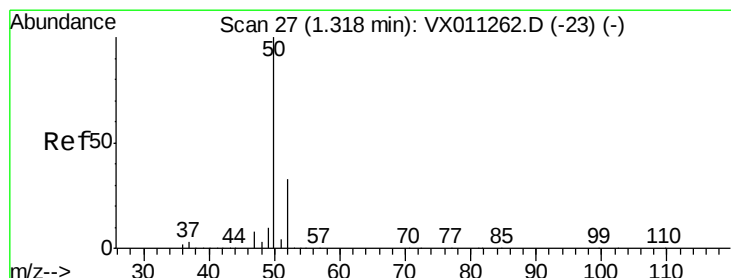
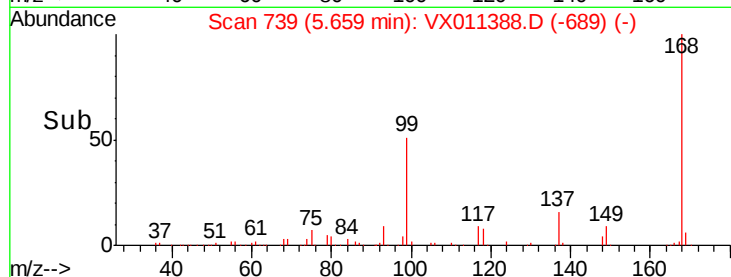
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.265 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011388.D

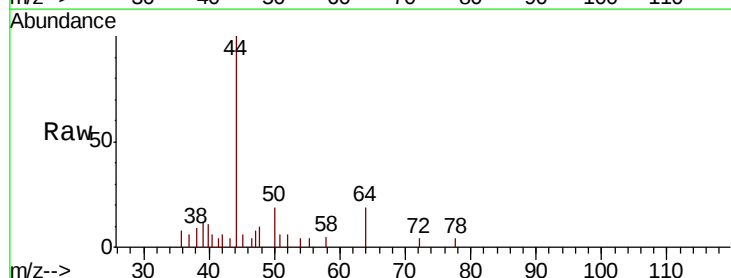
Acq: 08 Aug 2019 13:42

Tgt Ion: 50 Resp: 355

Ion Ratio Lower Upper

50 100

52 30.2 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

150

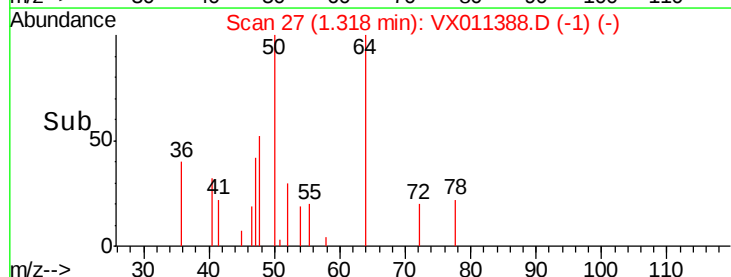
100

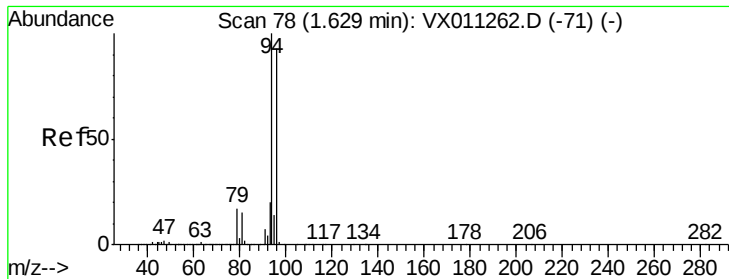
50

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.489 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

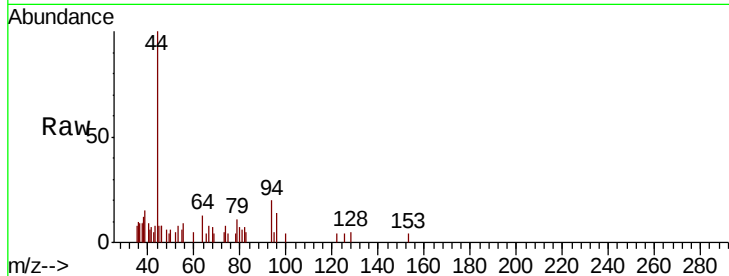
DUP-01_080719DL

Tgt Ion: 94 Resp: 514

Ion Ratio Lower Upper

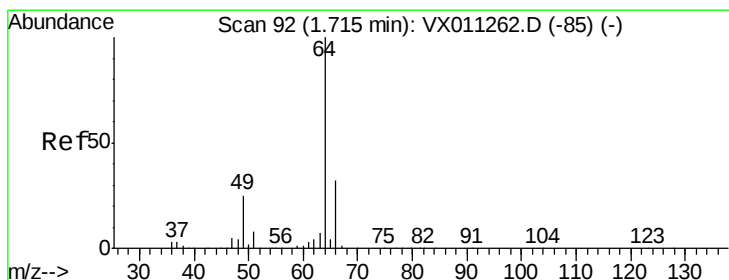
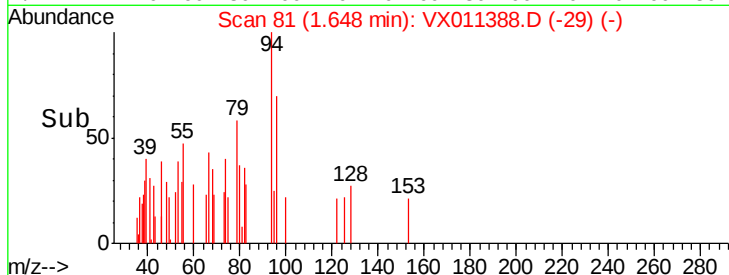
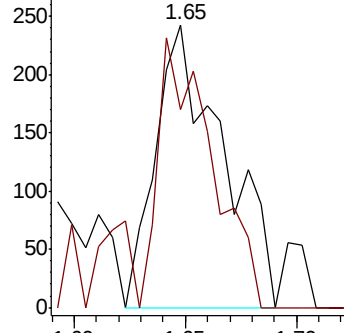
94 100

96 70.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX011388.D

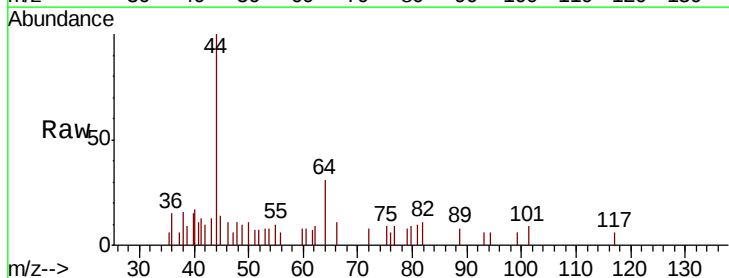
Acq: 08 Aug 2019 13:42

Tgt Ion: 64 Resp: 217

Ion Ratio Lower Upper

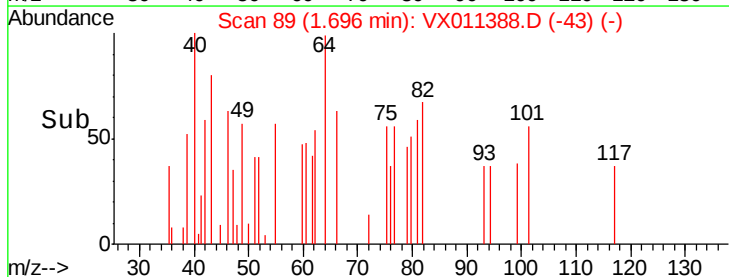
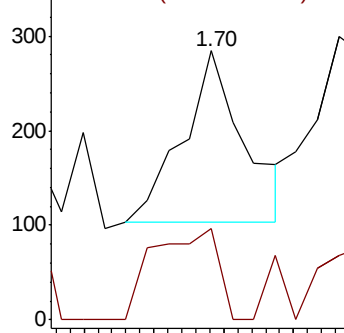
64 100

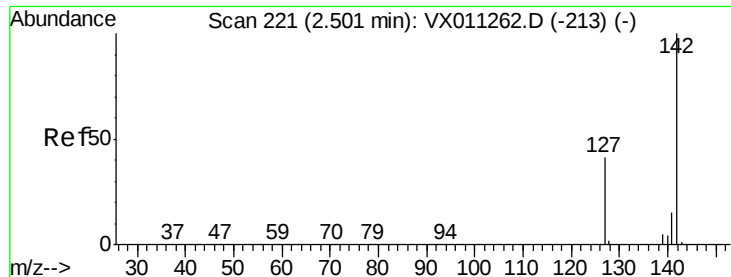
66 53.9 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

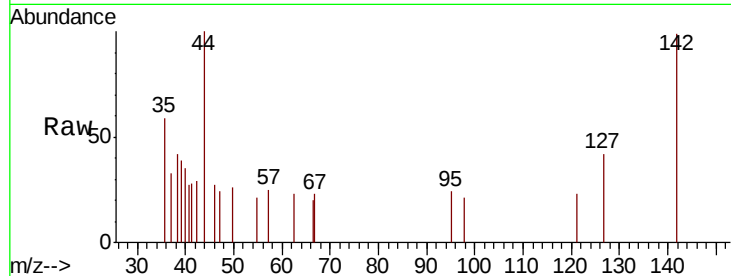




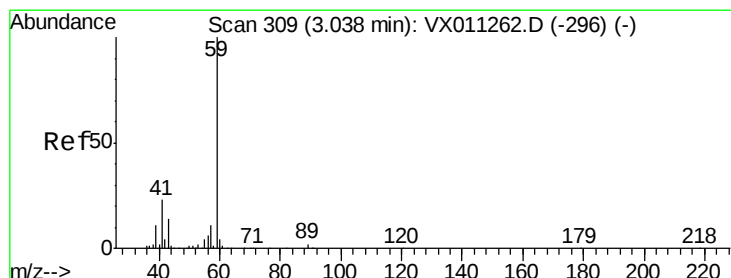
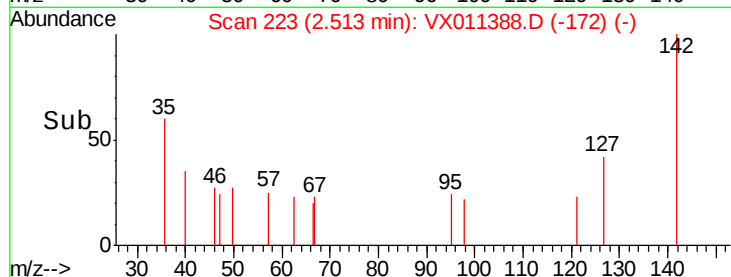
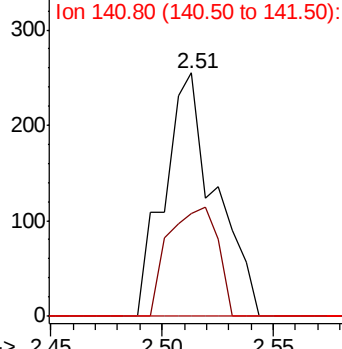
#10
Methyl Iodide
Concen: 0.227 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX011388.D
Acq: 08 Aug 2019 13:42

Instrument :
MSVOA_X
ClientSampleId :
DUP-01_080719DL

Tgt Ion: 142 Resp: 406
Ion Ratio Lower Upper
142 100
127 43.3 33.8 50.8
141 0.0 11.4 17.2#

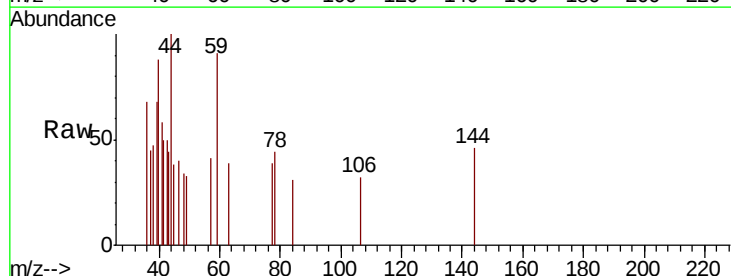


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

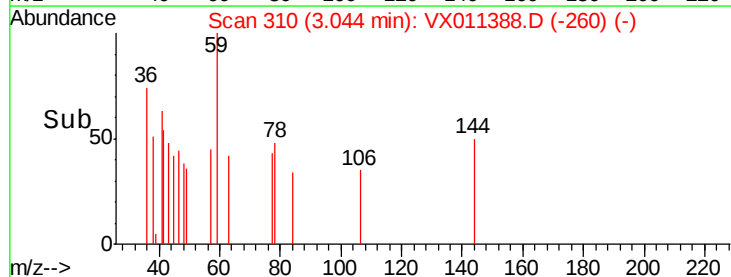
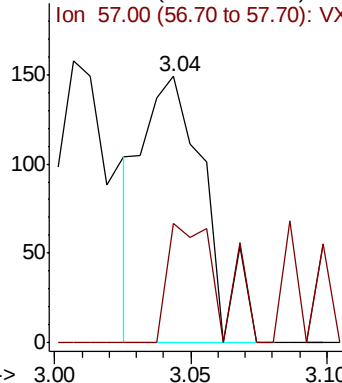


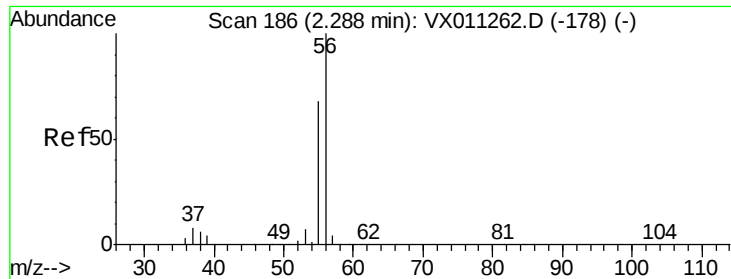
#11
Tert butyl alcohol
Concen: 0.796 ug/l
RT: 3.04 min Scan# 310
Delta R.T. 0.01 min
Lab File: VX011388.D
Acq: 08 Aug 2019 13:42

Tgt Ion: 59 Resp: 240
Ion Ratio Lower Upper
59 100
57 37.5 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

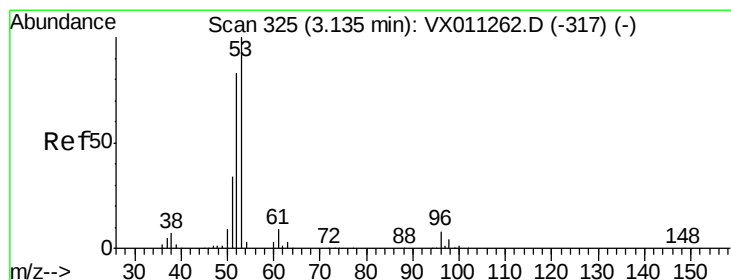
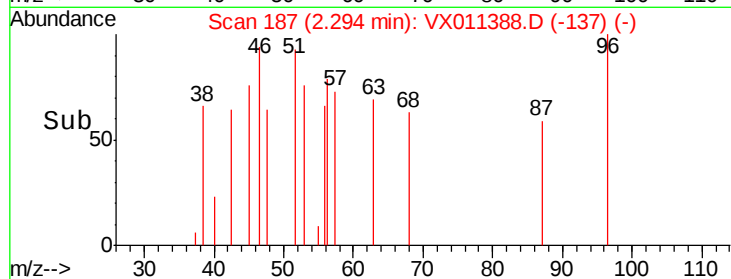
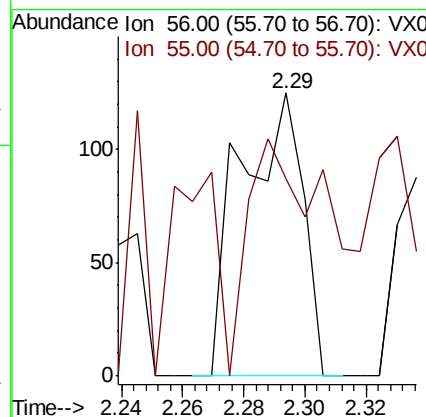
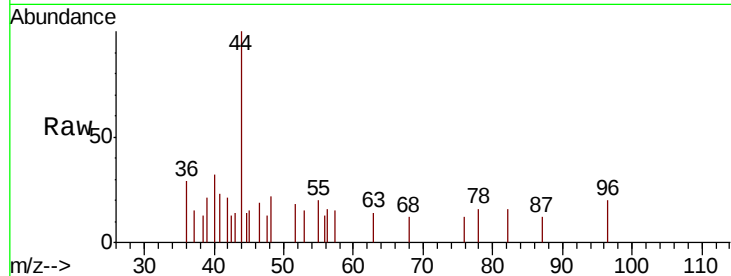




#13
Acrolein
Concen: 0.491 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.01 min
Lab File: VX011388.D
Acq: 08 Aug 2019 13:42

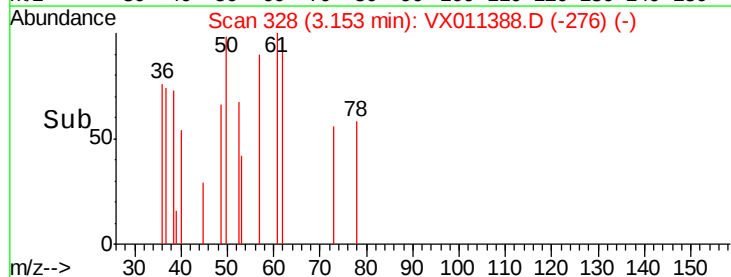
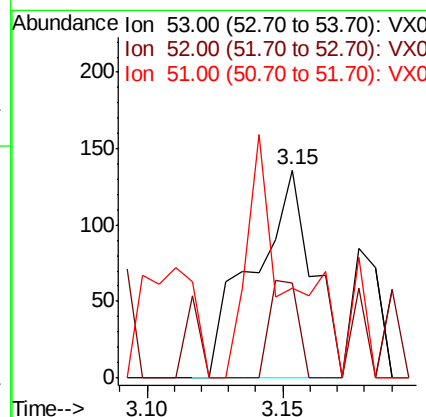
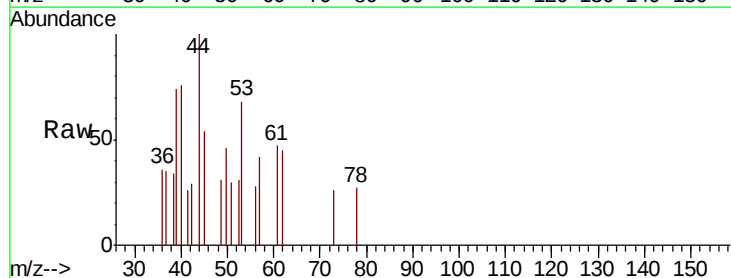
Instrument :
MSVOA_X
ClientSampleId :
DUP-01_080719DL

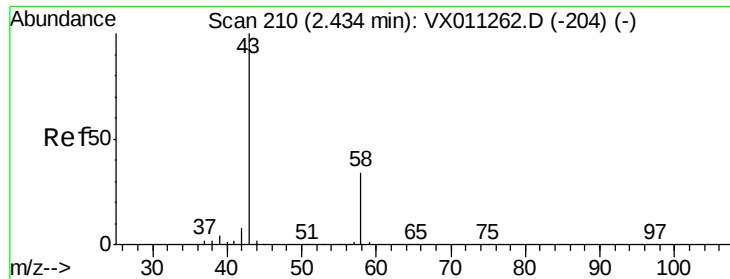
Tgt Ion: 56 Resp: 176
Ion Ratio Lower Upper
56 100
55 112.5 56.0 84.0#



#15
Acrylonitrile
Concen: 0.278 ug/l
RT: 3.15 min Scan# 328
Delta R.T. 0.02 min
Lab File: VX011388.D
Acq: 08 Aug 2019 13:42

Tgt Ion: 53 Resp: 206
Ion Ratio Lower Upper
53 100
52 22.3 65.5 98.3#
51 80.6 27.9 41.9#





#16

Acetone

Concen: 1.348 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

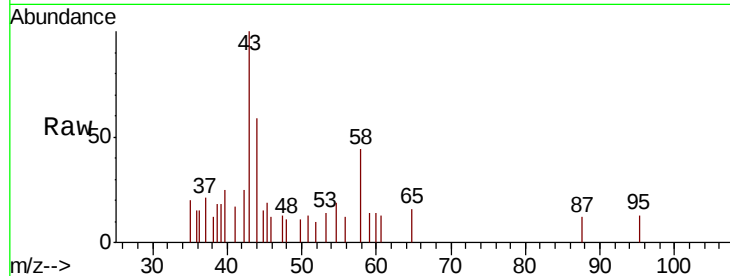
DUP-01_080719DL

Tgt Ion: 43 Resp: 999

Ion Ratio Lower Upper

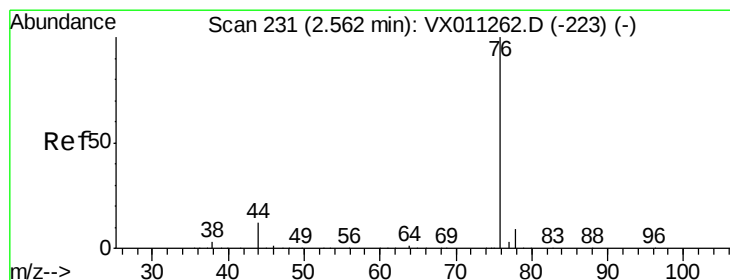
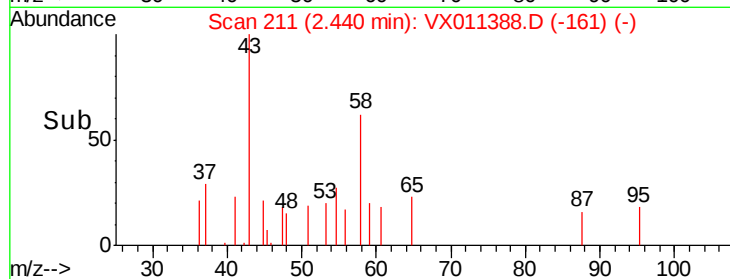
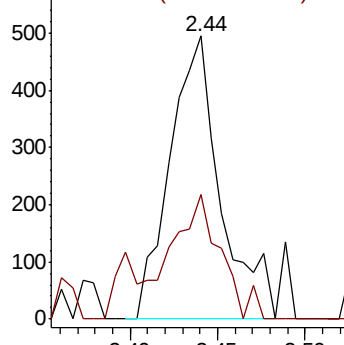
43 100

58 44.0 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 2.468 ug/l

RT: 2.56 min Scan# 231

Delta R.T. 0.00 min

Lab File: VX011388.D

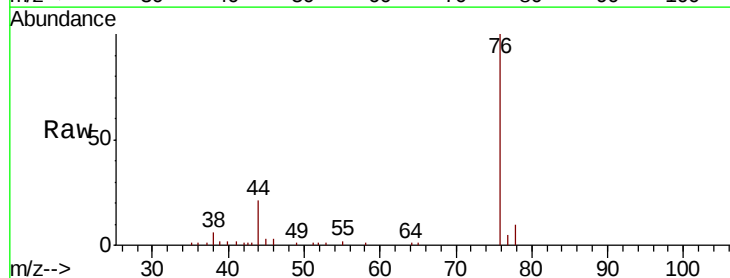
Acq: 08 Aug 2019 13:42

Tgt Ion: 76 Resp: 8145

Ion Ratio Lower Upper

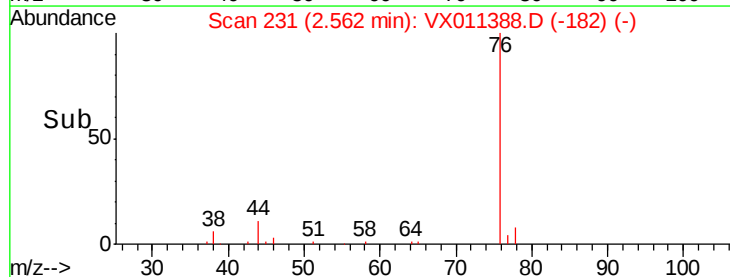
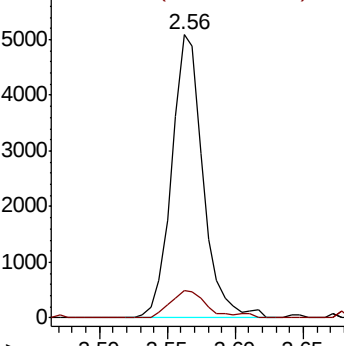
76 100

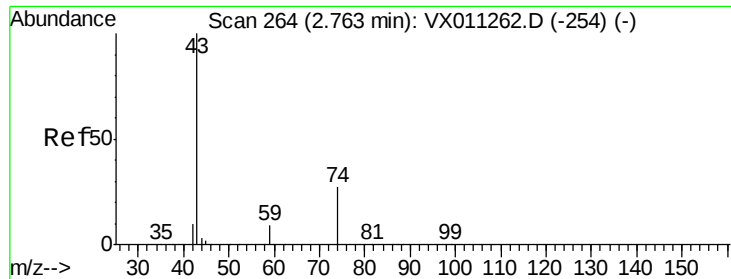
78 9.7 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

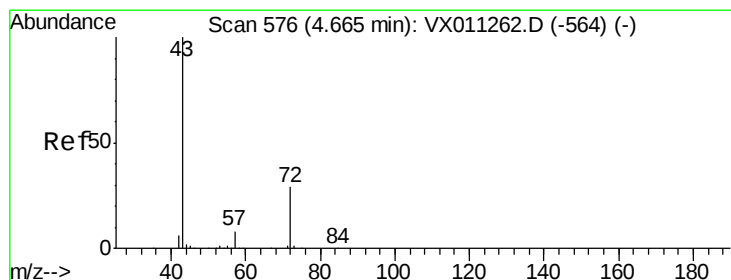
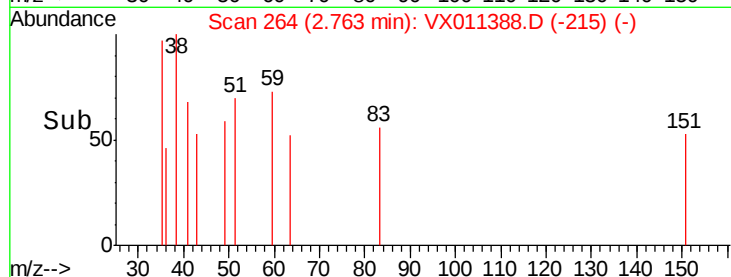
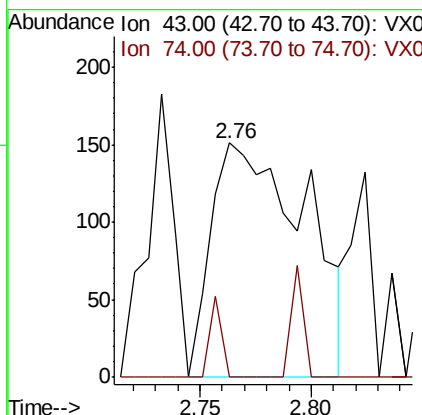
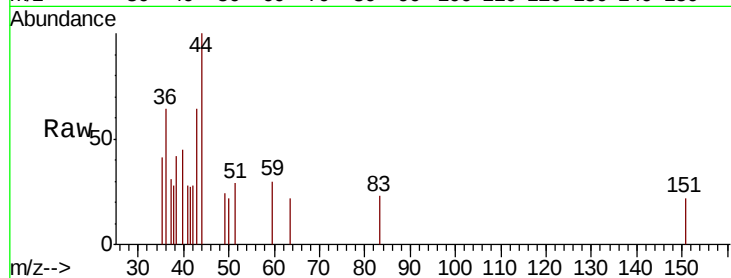




#18
Methyl Acetate
Concen: 0.262 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011388.D
Acq: 08 Aug 2019 13:42

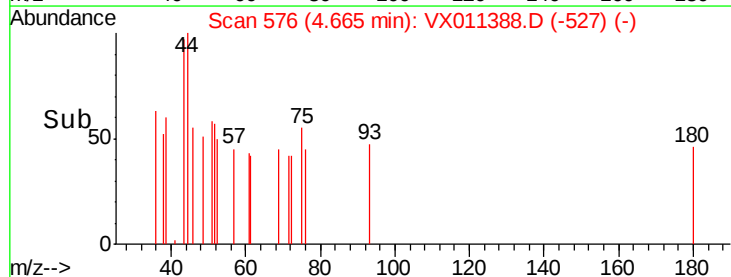
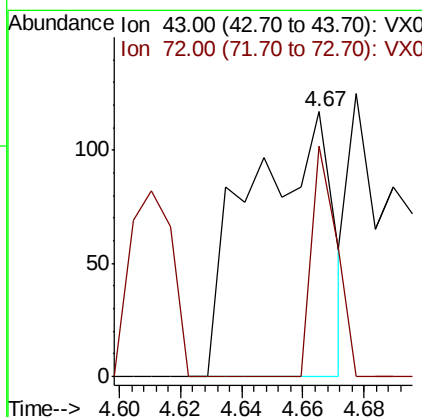
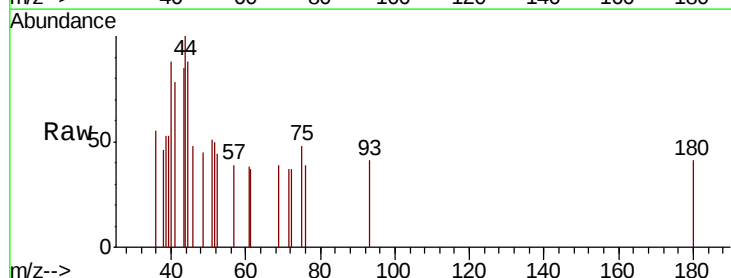
Instrument :
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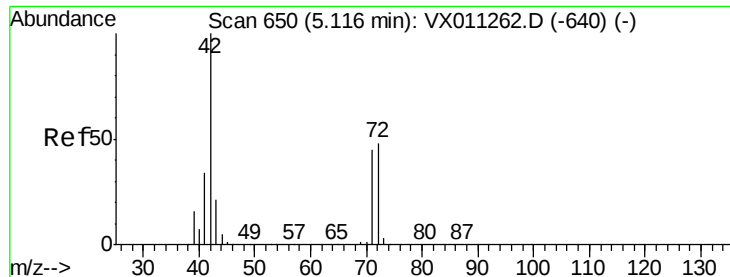
Tgt Ion: 43 Resp: 443
Ion Ratio Lower Upper
43 100
74 4.3 21.0 31.6#



#25
2-Butanone
Concen: 0.206 ug/l
RT: 4.67 min Scan# 576
Delta R.T. 0.00 min
Lab File: VX011388.D
Acq: 08 Aug 2019 13:42

Tgt Ion: 43 Resp: 217
Ion Ratio Lower Upper
43 100
72 87.2 23.2 34.8#





#29

Tetrahydrofuran

Concen: 0.535 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.02 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

DUP-01_080719DL

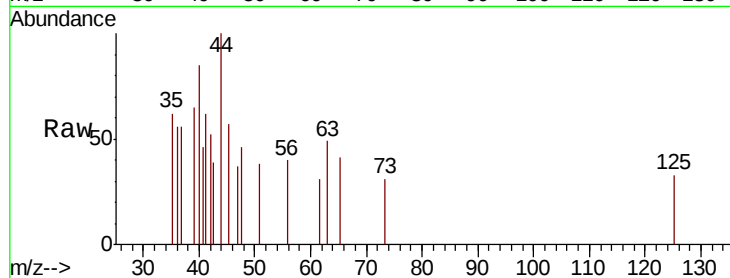
Tgt Ion: 42 Resp: 346

Ion Ratio Lower Upper

42 100

72 0.0 39.9 59.9#

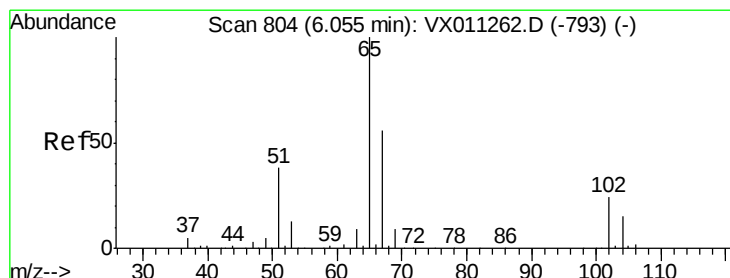
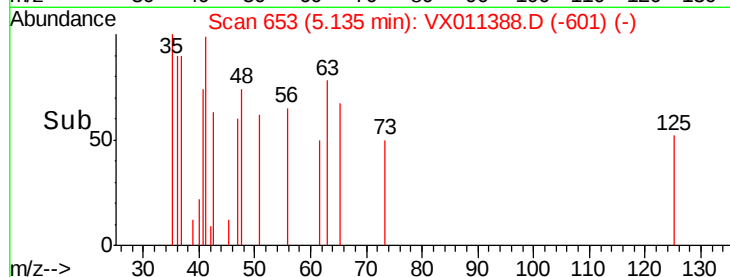
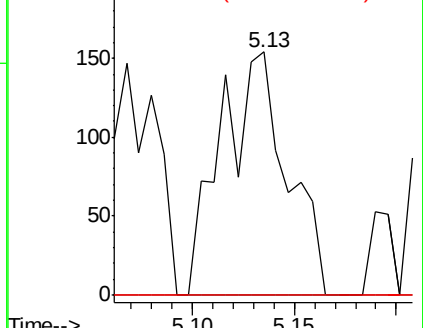
71 0.0 36.9 55.3#



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



#33

1,2-Dichloroethane-d4

Concen: 59.157 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011388.D

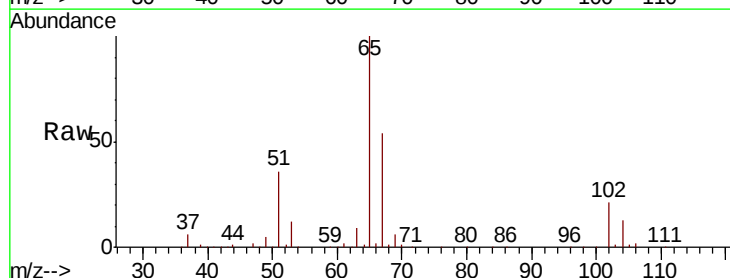
Acq: 08 Aug 2019 13:42

Tgt Ion: 65 Resp: 92084

Ion Ratio Lower Upper

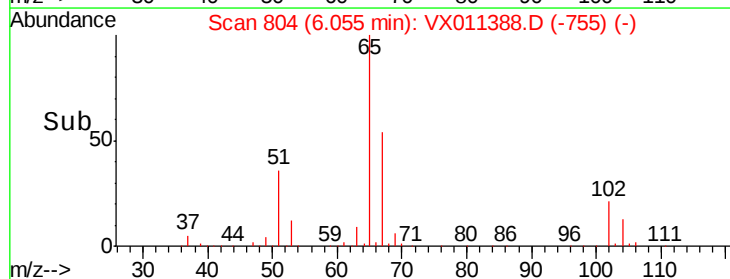
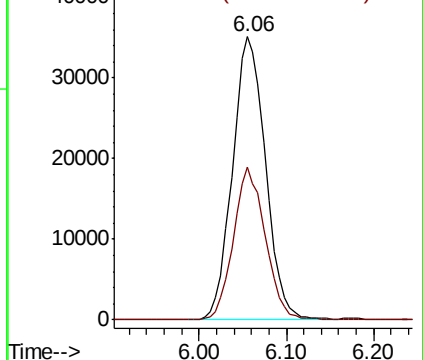
65 100

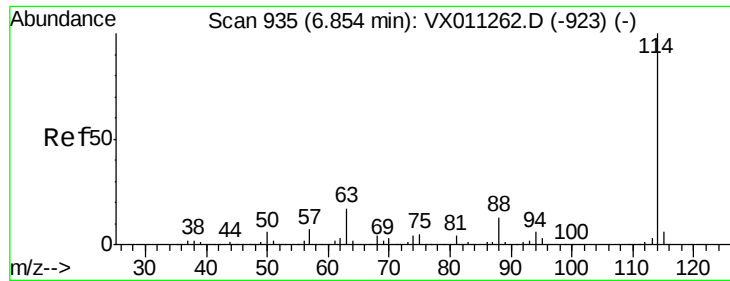
67 52.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

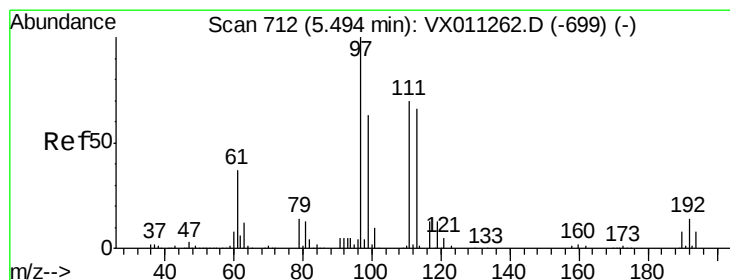
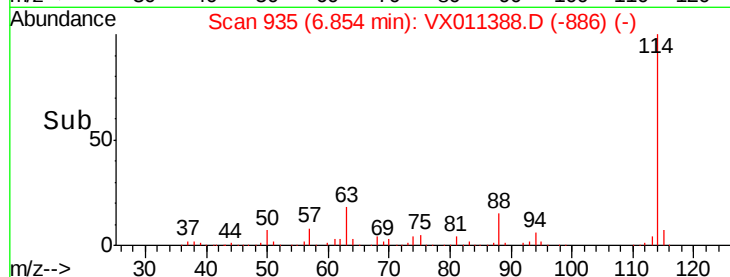
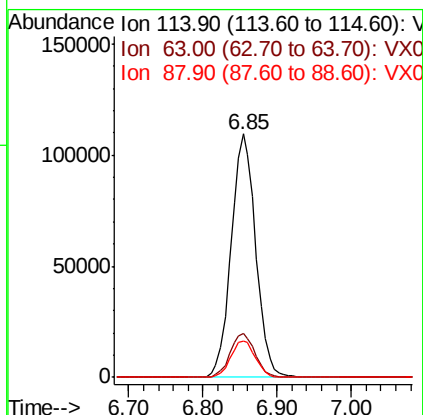
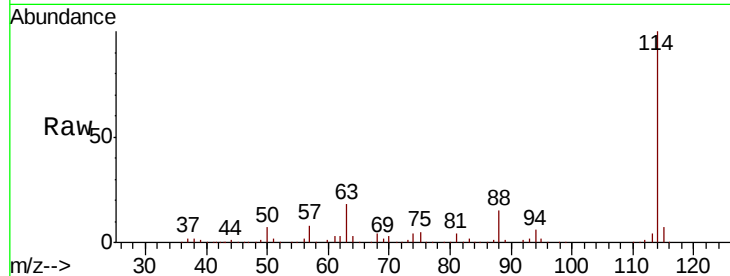




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011388.D
 Acq: 08 Aug 2019 13:42

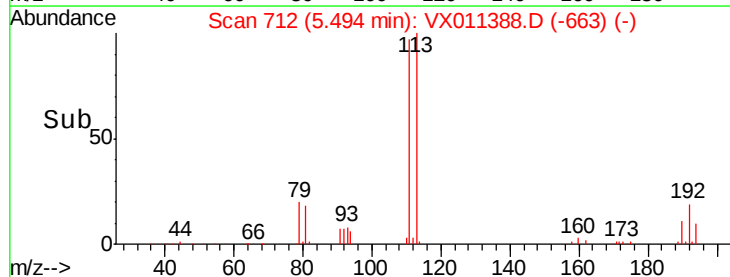
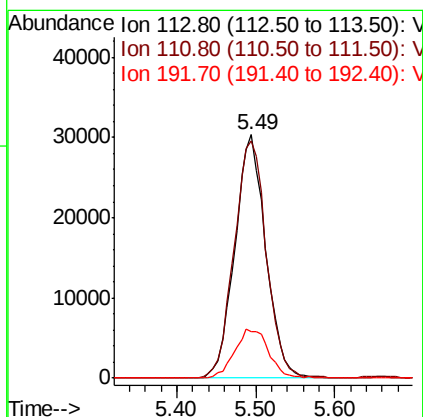
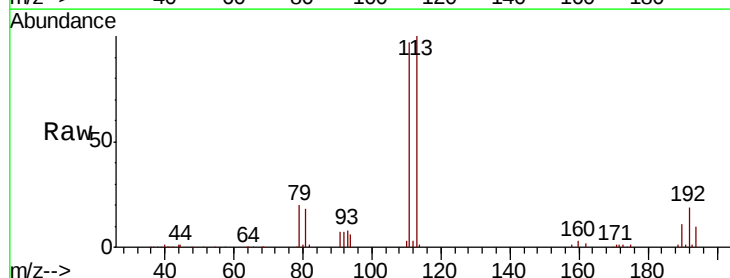
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-01_080719DL

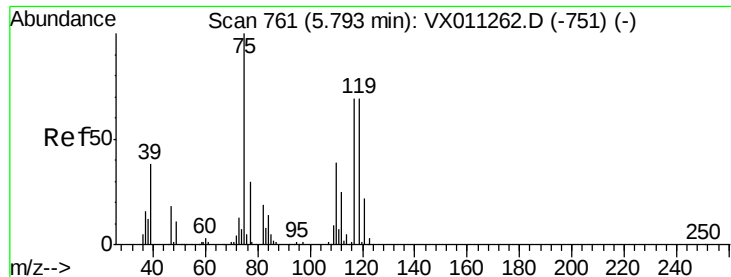
Tgt Ion:114 Resp: 252393
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 34.0
 88 14.8 0.0 26.4



#35
 Dibromofluoromethane
 Concen: 50.389 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011388.D
 Acq: 08 Aug 2019 13:42

Tgt Ion:113 Resp: 83032
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.9 122.9
 192 21.9 17.8 26.8





#36

1,1-Dichloropropene

Concen: 4.978 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

DUP-01_080719DL

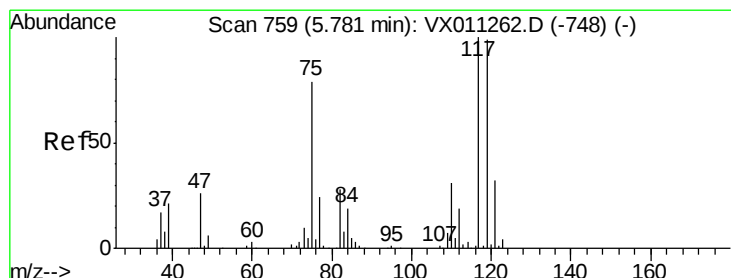
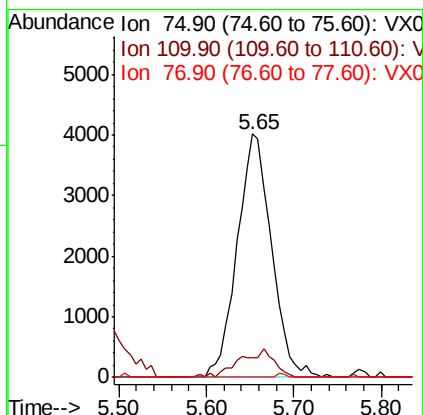
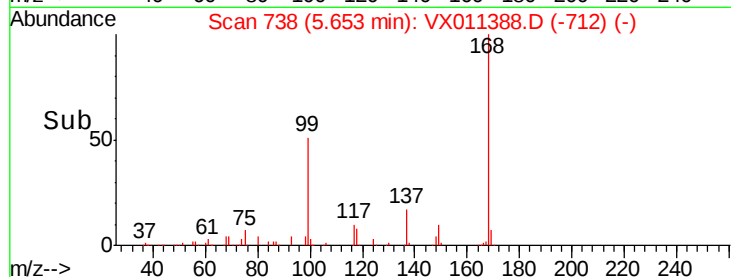
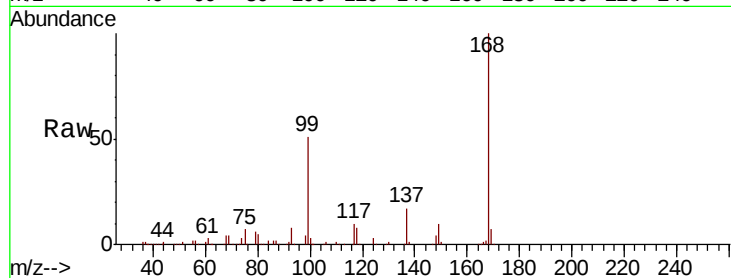
Tgt Ion: 75 Resp: 10970

Ion Ratio Lower Upper

75 100

110 11.4 20.0 59.9#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.567 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

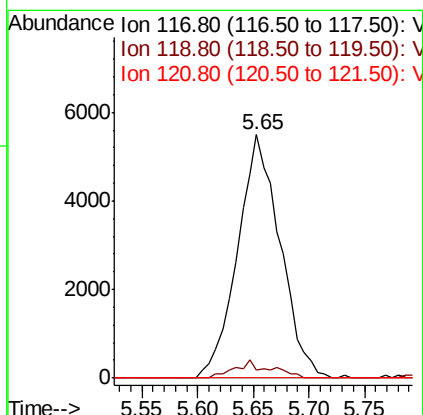
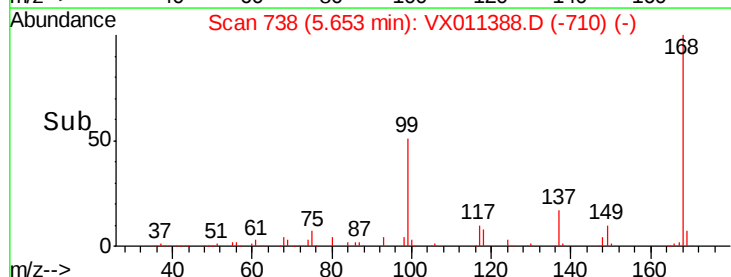
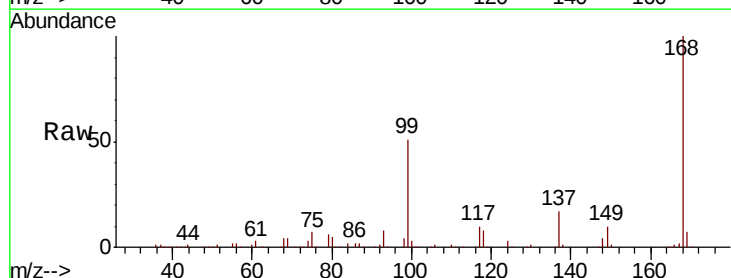
Tgt Ion: 117 Resp: 14559

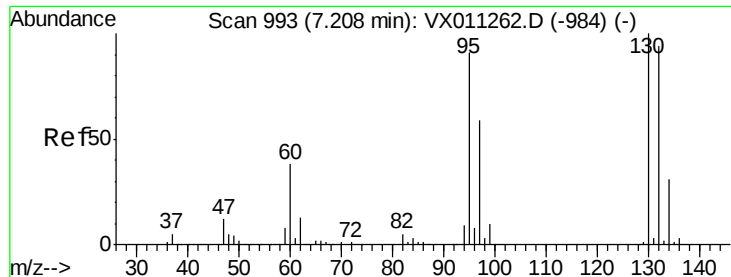
Ion Ratio Lower Upper

117 100

119 3.2 79.0 118.4#

121 0.0 25.9 38.9#





#44

Trichloroethene

Concen: 1.716 ug/l

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

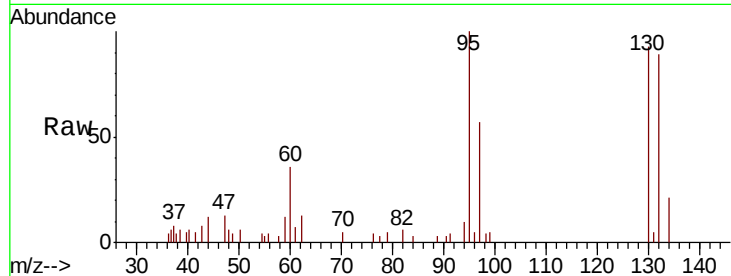
DUP-01_080719DL

Tgt Ion:130 Resp: 3415

Ion Ratio Lower Upper

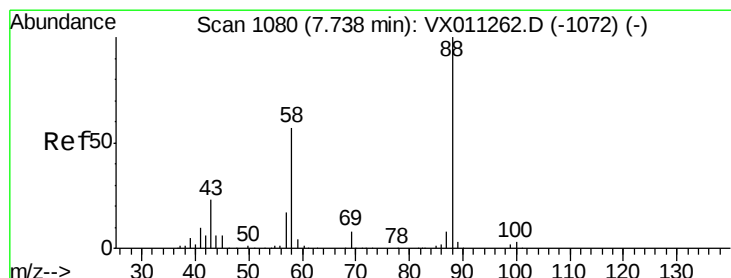
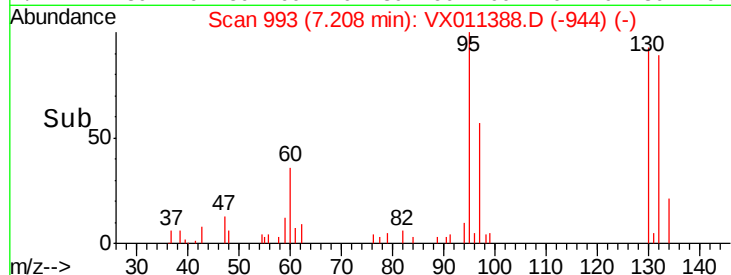
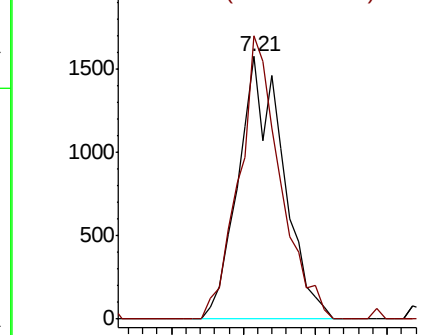
130 100

95 107.9 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.519 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

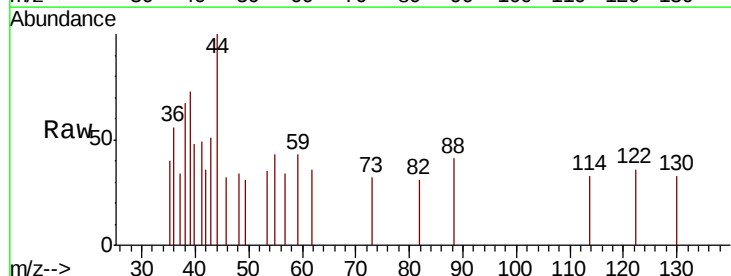
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.2#

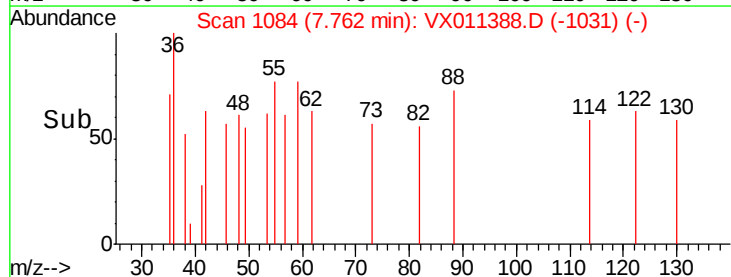
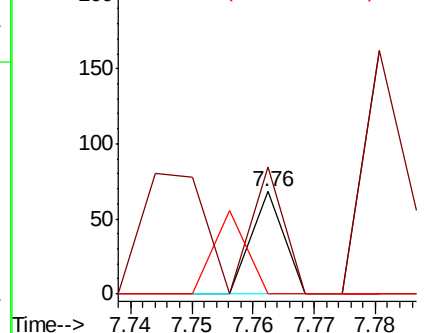
58 80.0 47.8 71.8#

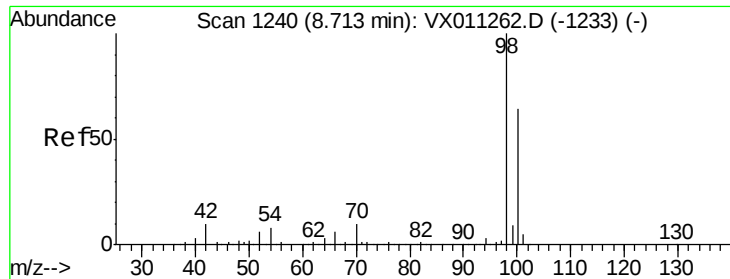


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.104 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

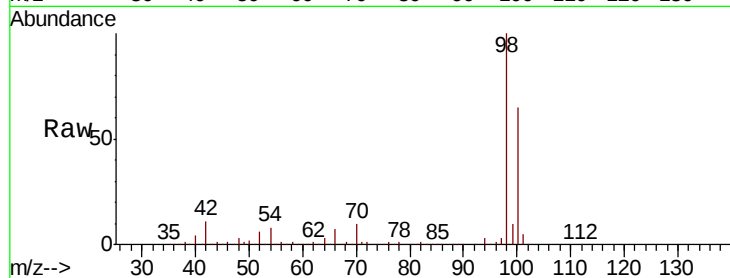
DUP-01_080719DL

Tgt Ion: 98 Resp: 311647

Ion Ratio Lower Upper

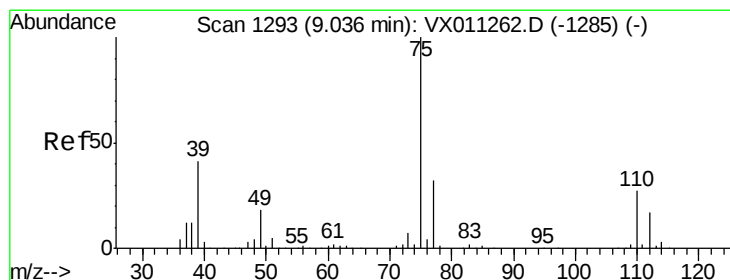
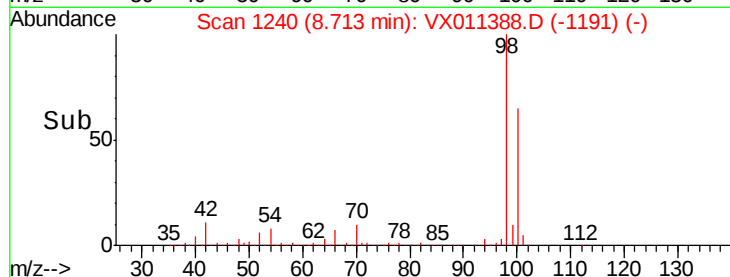
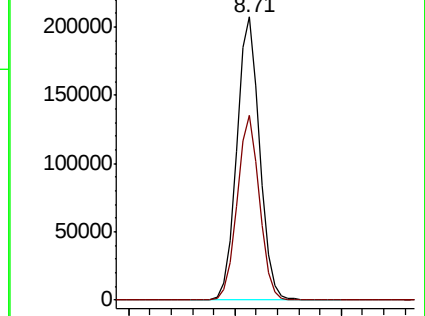
98 100

100 64.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.846 ug/l

RT: 8.98 min Scan# 1284

Delta R.T. -0.05 min

Lab File: VX011388.D

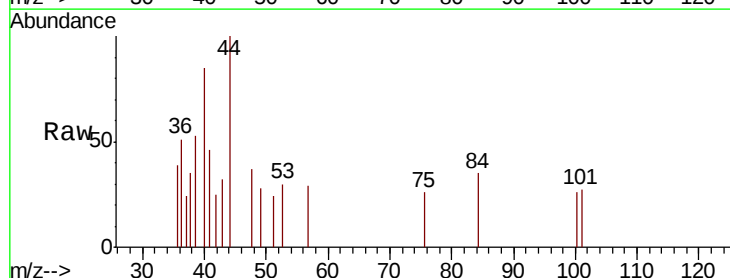
Acq: 08 Aug 2019 13:42

Tgt Ion: 75 Resp: 21

Ion Ratio Lower Upper

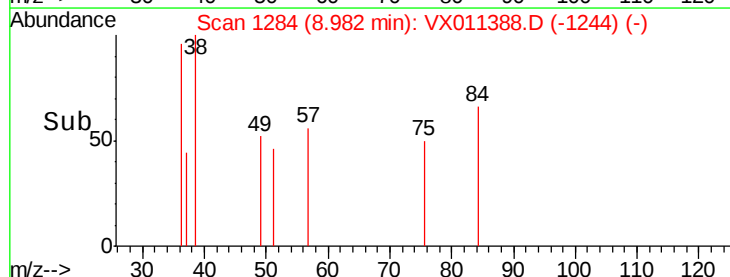
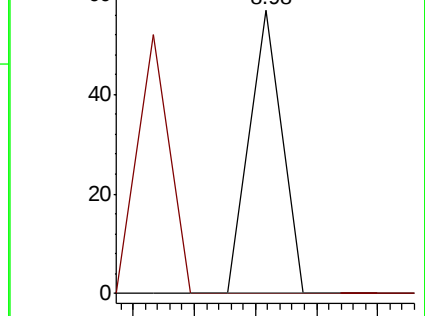
75 100

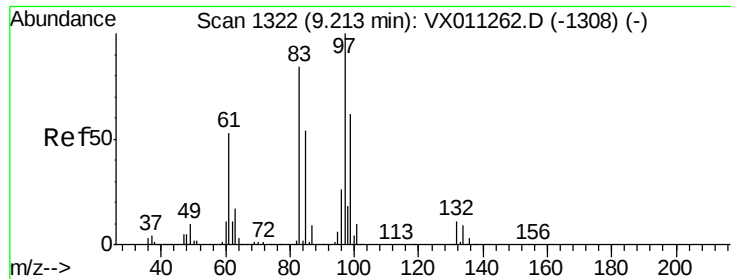
77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#55

1,1,2-Trichloroethane

Concen: 0.453 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. 0.12 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

DUP-01_080719DL

Tgt Ion: 97 Resp: 810

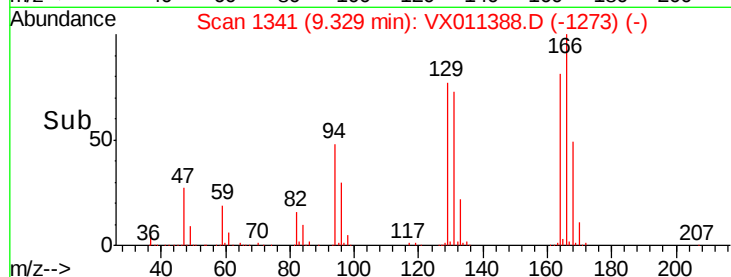
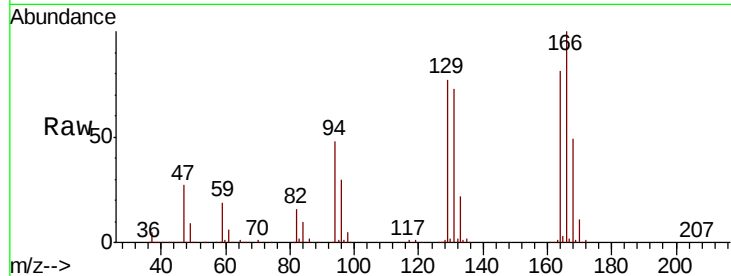
Ion Ratio Lower Upper

97 100

83 219.8 67.6 101.4#

85 32.2 43.4 65.0#

99 13.7 49.6 74.4#

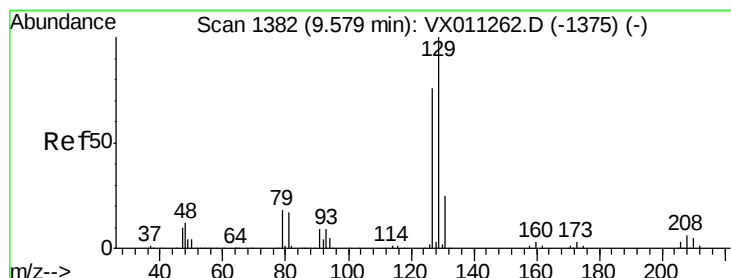
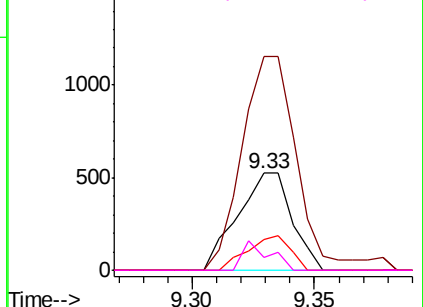


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#60

Dibromochloromethane

Concen: 46.103 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX011388.D

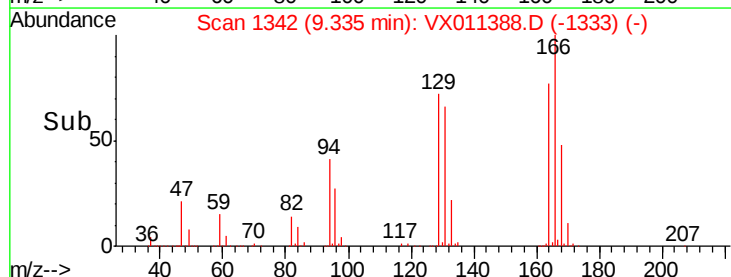
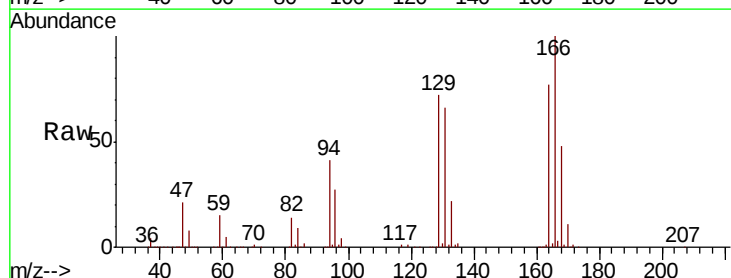
Acq: 08 Aug 2019 13:42

Tgt Ion:129 Resp: 84376

Ion Ratio Lower Upper

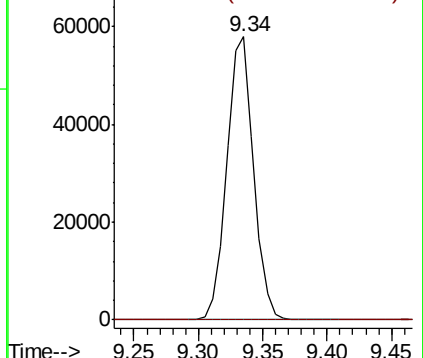
129 100

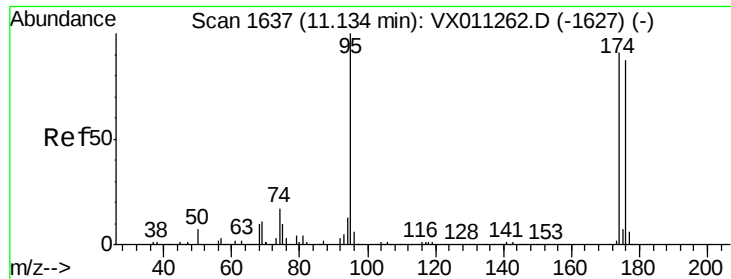
127 0.1 39.2 117.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 48.584 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

DUP-01_080719DL

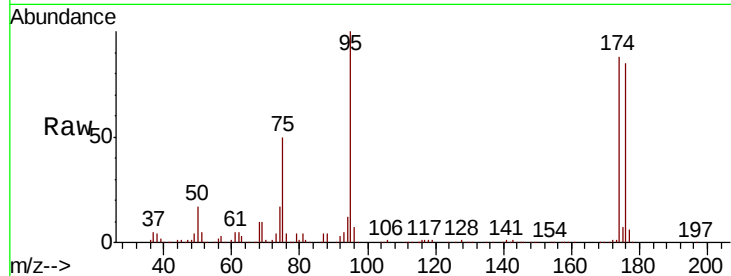
Tgt Ion: 95 Resp: 107892

Ion Ratio Lower Upper

95 100

174 90.3 0.0 191.2

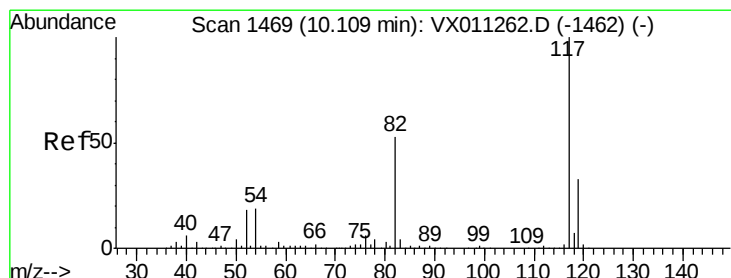
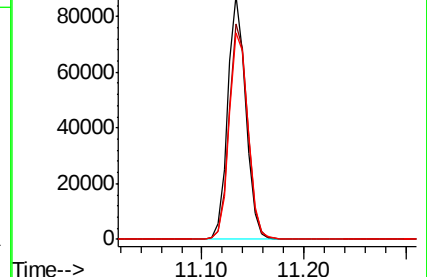
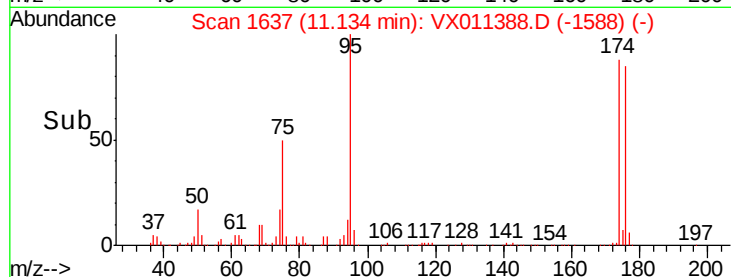
176 88.0 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VX011388.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011388.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011388.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

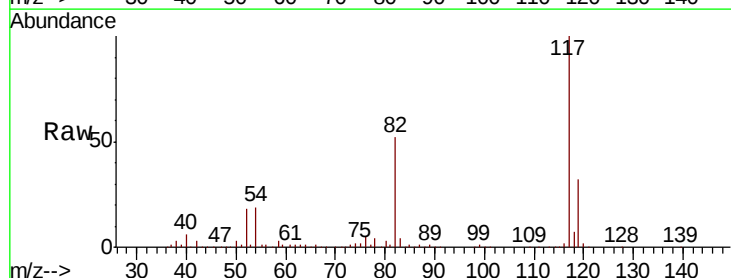
Tgt Ion: 117 Resp: 243685

Ion Ratio Lower Upper

117 100

82 52.1 42.2 63.2

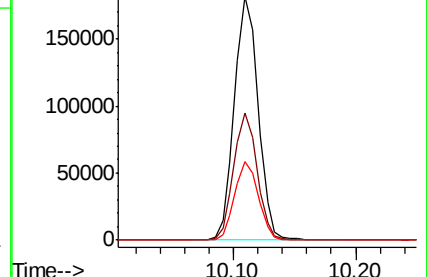
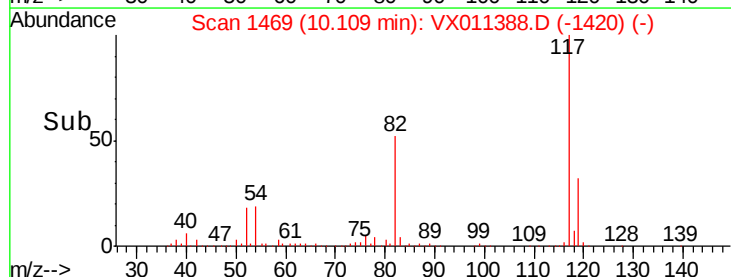
119 32.2 26.6 39.8

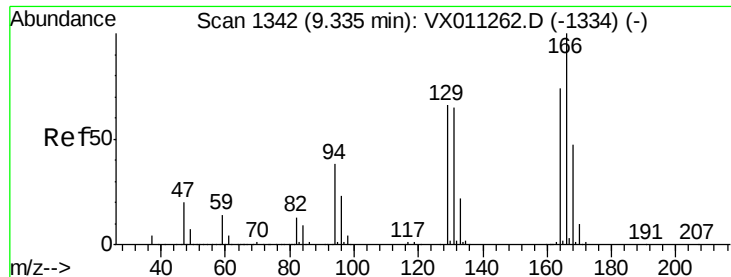


Abundance Ion 116.90 (116.60 to 117.60): VX011388.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011388.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011388.D (-1420) (-)





#64

Tetrachloroethene

Concen: 43.658 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

Instrument :

MSVOA_X

ClientSampleId :

DUP-01_080719DL

Tgt Ion:164 Resp: 90349

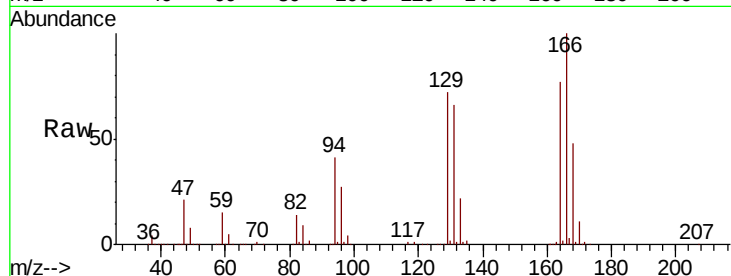
Ion Ratio Lower Upper

164 100

166 130.6 107.5 161.3

129 94.6 71.0 106.4

131 86.2 69.8 104.6

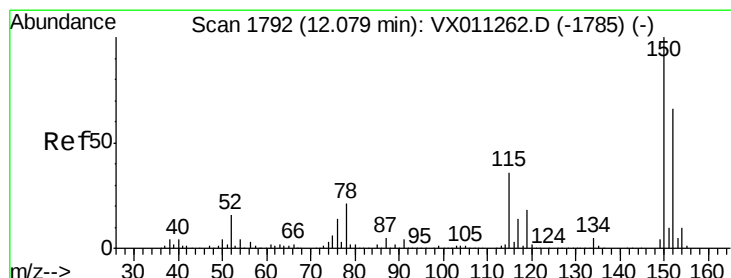
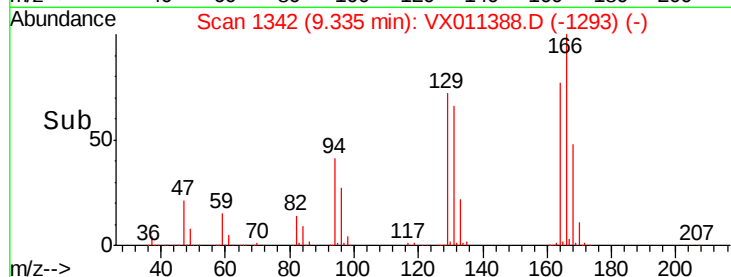
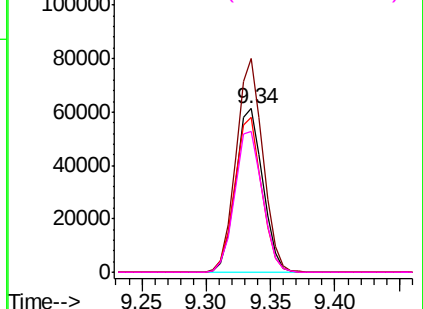


Abundance Ion 163.80 (163.50 to 164.50): V

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: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011388.D

Acq: 08 Aug 2019 13:42

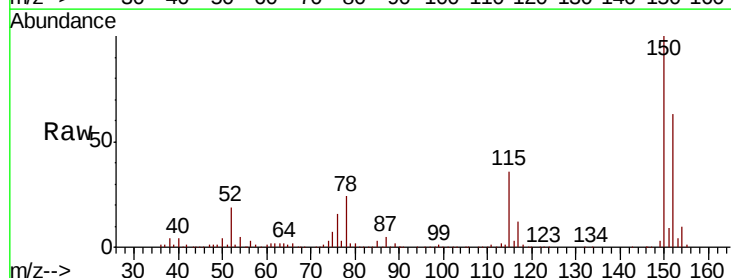
Tgt Ion:152 Resp: 108976

Ion Ratio Lower Upper

152 100

115 55.7 40.0 119.9

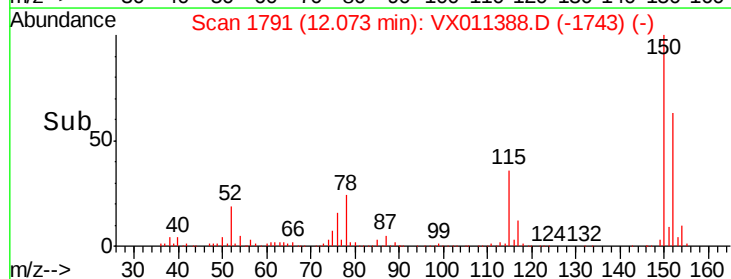
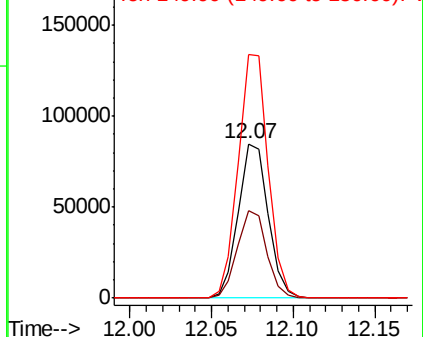
150 157.9 0.0 350.4

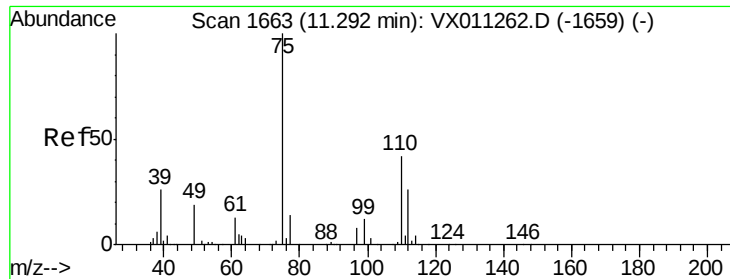


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

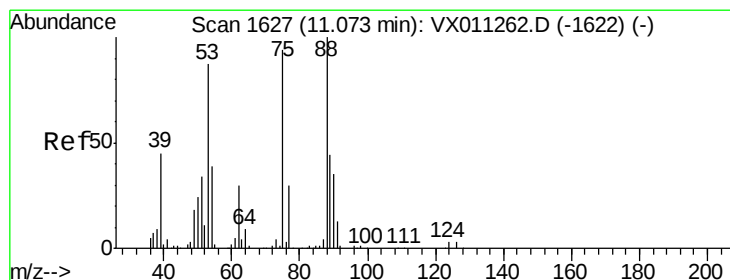
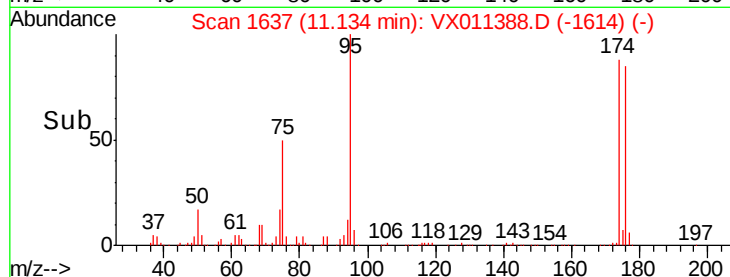
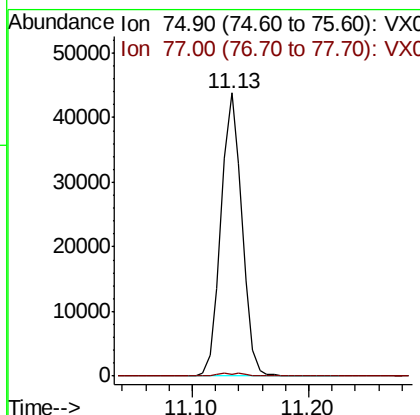
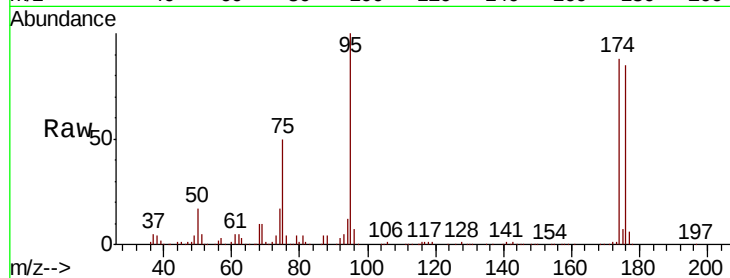




#76
 1,2,3-Trichloropropane
 Concen: 27.418 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011388.D
 Acq: 08 Aug 2019 13:42

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-01_080719DL

Tgt Ion: 75 Resp: 54413
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.1 63.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.111 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011388.D
 Acq: 08 Aug 2019 13:42

Tgt Ion: 75 Resp: 54413
 Ion Ratio Lower Upper
 75 100
 53 0.2 78.2 117.4#
 89 0.0 37.9 56.9#

