

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092019\
 Data File : VX012578.D
 Acq On : 21 Sep 2019 00:09
 Operator : JC/SP
 Sample : K4978-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB-2019-2

Quant Time: Sep 21 01:41:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	175758	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	283644	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	237615	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	98535	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	117620	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	
35) Dibromofluoromethane	5.48	113	84791	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	8.71	98	323318	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	11.14	95	115360	43.72	ug/l	0.00
Spiked Amount			Recovery	=	87.44%	

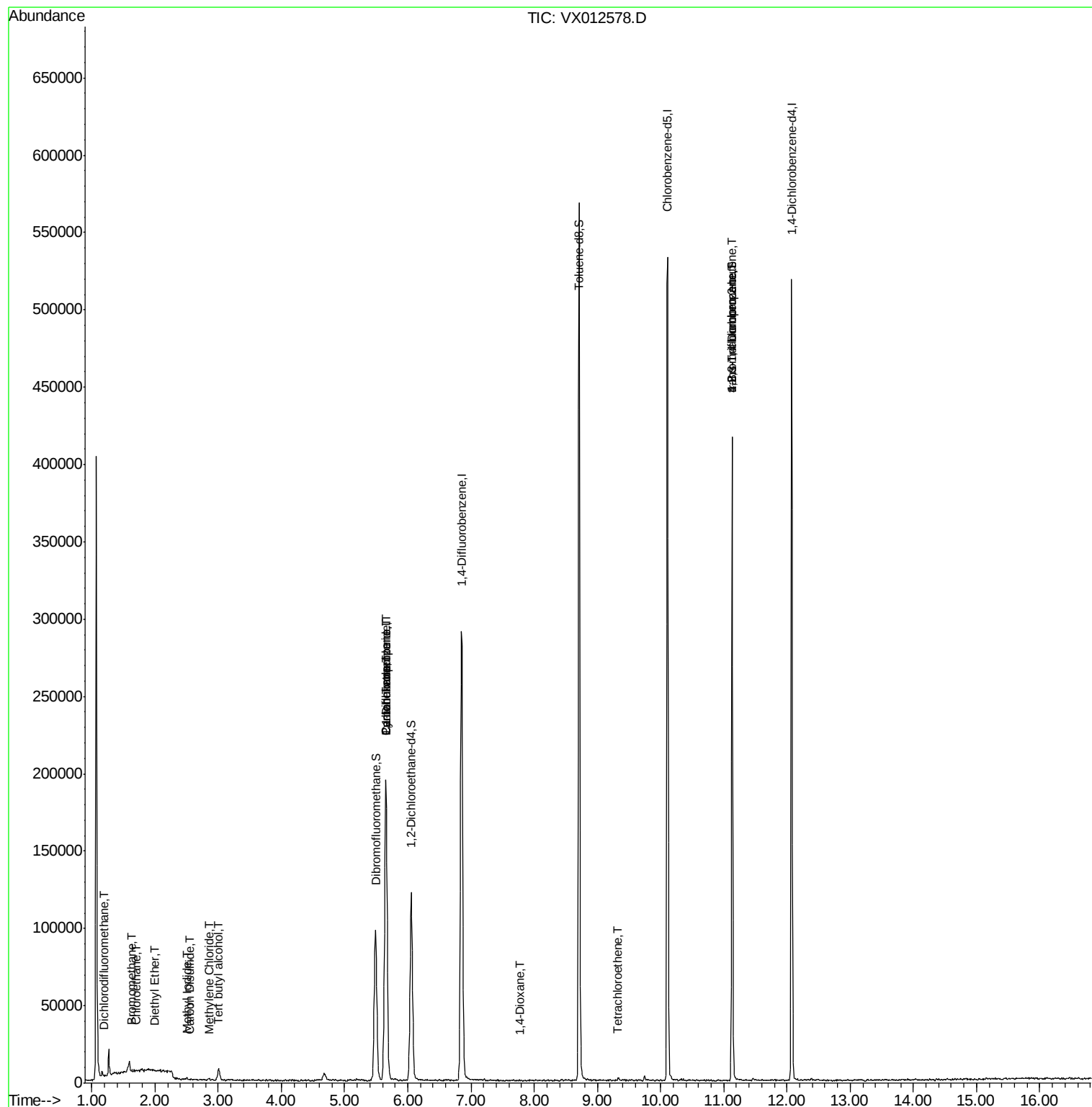
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	51	0.434	ug/l #	43
5) Bromomethane	1.64	94	381	0.929	ug/l #	45
6) Chloroethane	1.71	64	339	0.415	ug/l #	51
8) Diethyl Ether	2.00	74	181	0.209	ug/l	59
10) Methyl Iodide	2.51	142	293	4.667	ug/l	92
11) Tert butyl alcohol	3.00	59	4414	1.063	ug/l #	80
16) Acetone	2.44	43	581	Below Cal	#	46
17) Carbon Disulfide	2.55	76	197	1.928	ug/l #	1
20) Methylene Chloride	2.85	84	638	0.419	ug/l #	53
31) Cyclohexane	5.65	56	4375	2.515	ug/l #	23
36) 1,1-Dichloropropene	5.65	75	14501	8.412	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19073	8.896	ug/l #	16
49) 1,4-Dioxane	7.78	88	19	0.349	ug/l #	1
64) Tetrachloroethene	9.33	164	232	0.213	ug/l #	76
76) 1,2,3-Trichloropropane	11.14	75	59981	26.500	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	59981	71.344	ug/l #	8

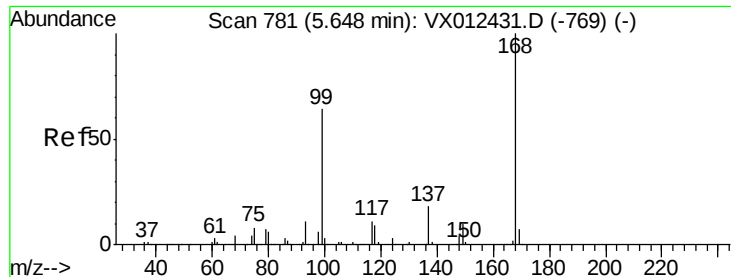
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

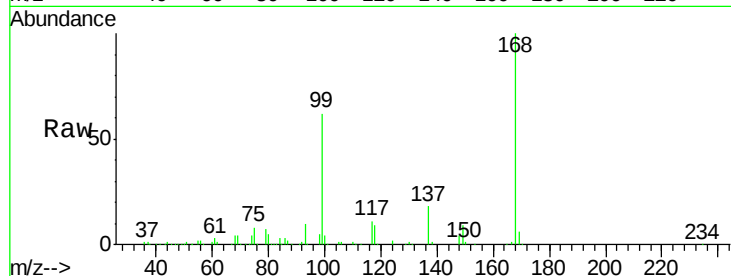
Z3-TB-2019-2

Tot Ion:168 Resp: 175758

Ion Ratio Lower Upper

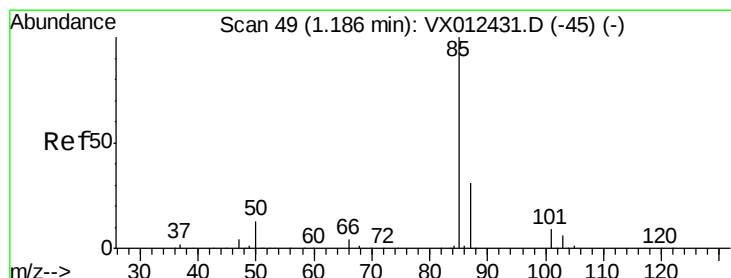
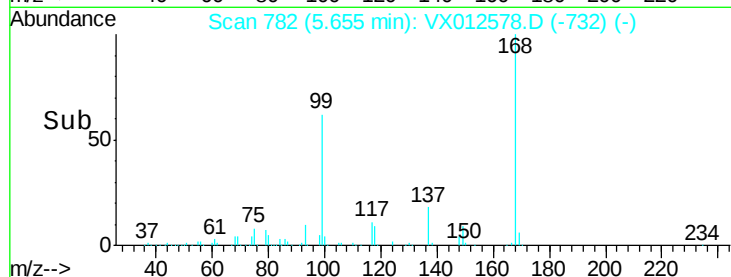
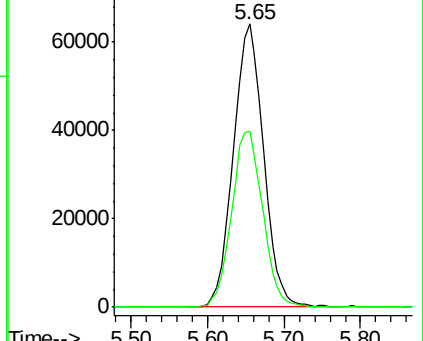
168 100

99 62.0 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.434 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX012578.D

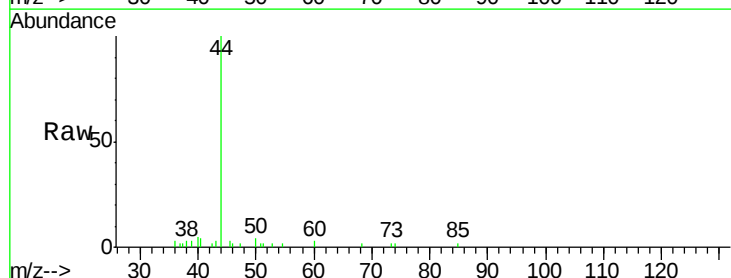
Acq: 21 Sep 2019 00:09

Tgt Ion: 85 Resp: 51

Ion Ratio Lower Upper

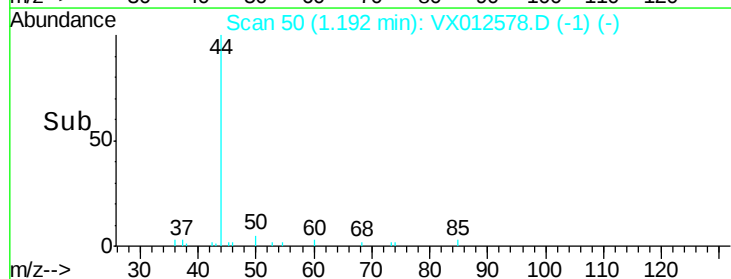
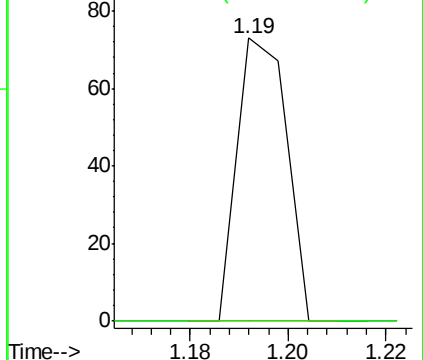
85 100

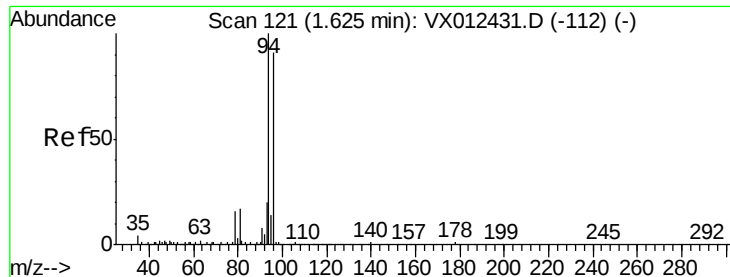
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: 0.929 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Instrument :

MSVOA_X

ClientSampled :

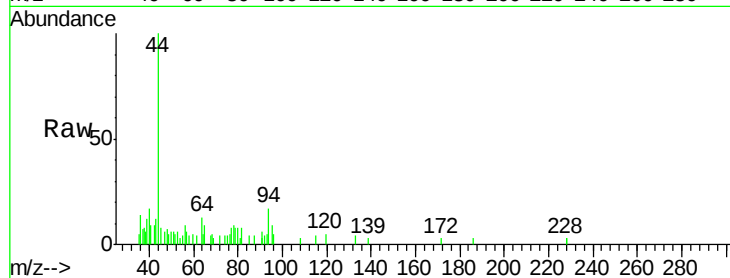
Z3-TB-2019-2

Tot Ion: 94 Resp: 381

Ion Ratio Lower Upper

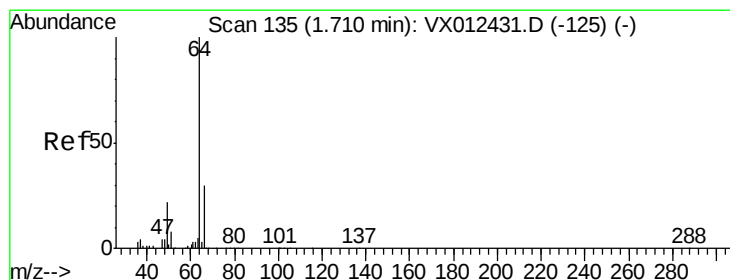
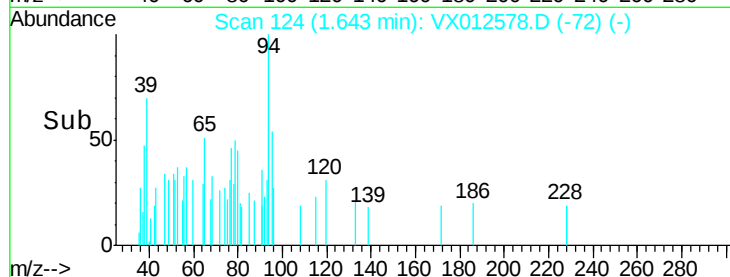
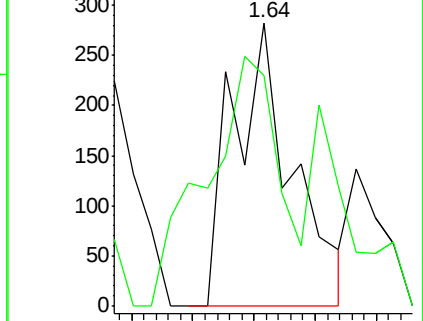
94 100

96 38.9 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.415 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX012578.D

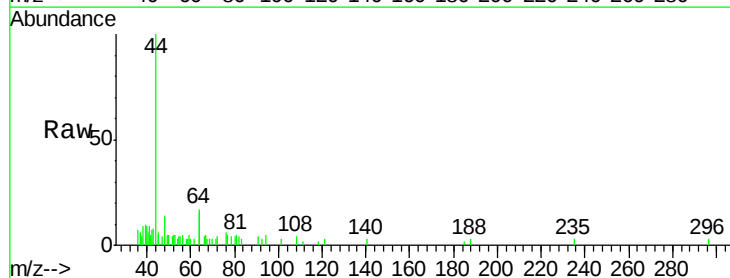
Acq: 21 Sep 2019 00:09

Tgt Ion: 64 Resp: 339

Ion Ratio Lower Upper

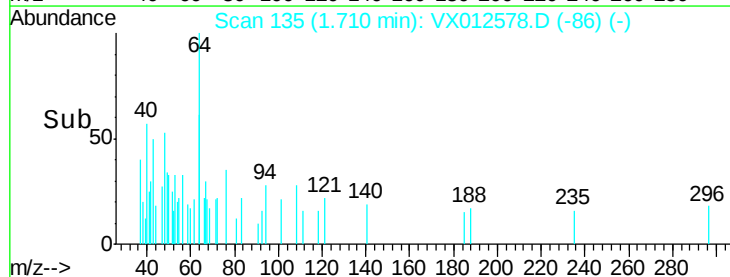
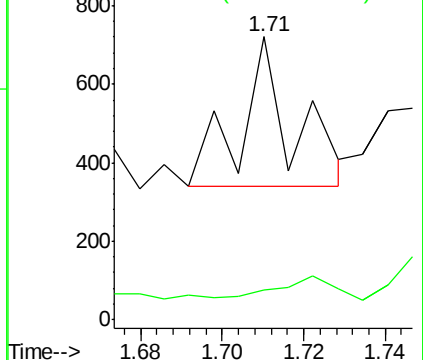
64 100

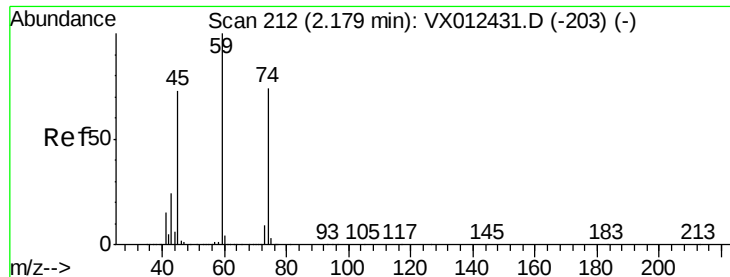
66 3.4 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.209 ug/l

RT: 2.00 min Scan# 182

Delta R.T. -0.18 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

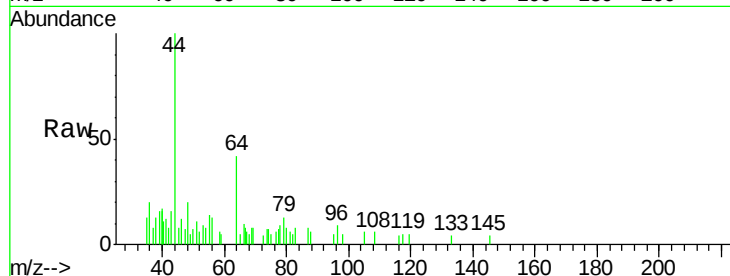
Z3-TB-2019-2

Tot Ion: 74 Resp: 181

Ion Ratio Lower Upper

74 100

45 59.1 49.9 149.7



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

250

200

150

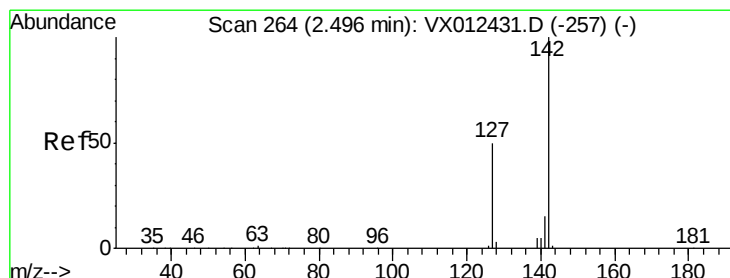
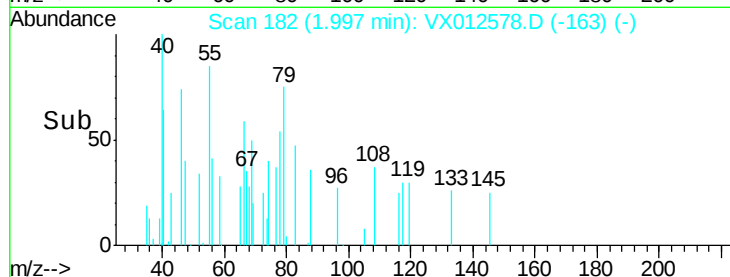
100

50

0

1.98 2.00 2.02

Time-->



#10

Methyl Iodide

Concen: 4.667 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

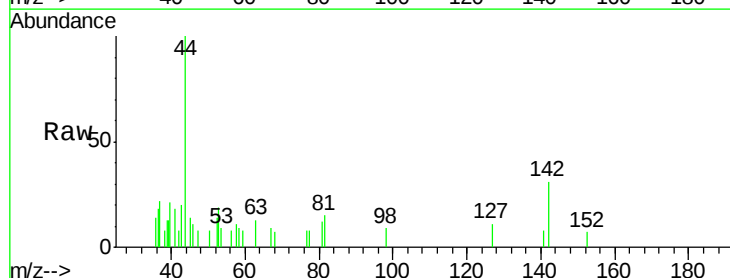
Tgt Ion: 142 Resp: 293

Ion Ratio Lower Upper

142 100

127 44.0 40.8 61.2

141 14.0 12.1 18.1



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

300

250

200

150

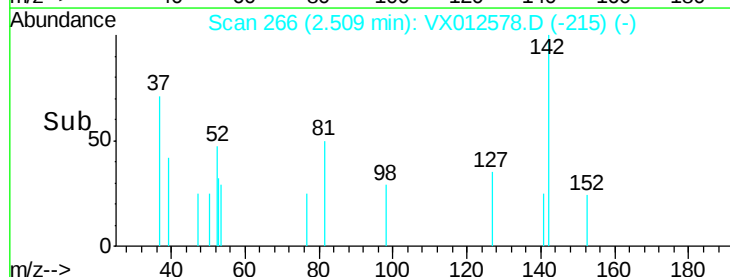
100

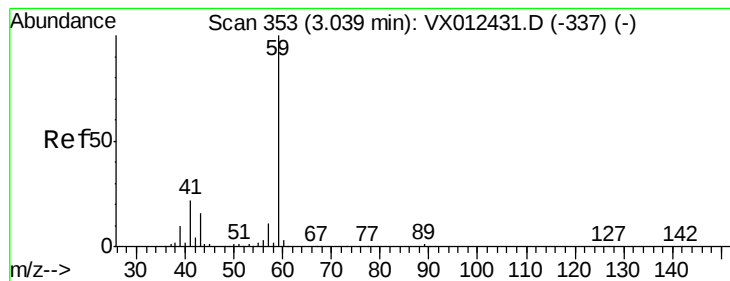
50

0

2.50 2.51 2.55

Time-->



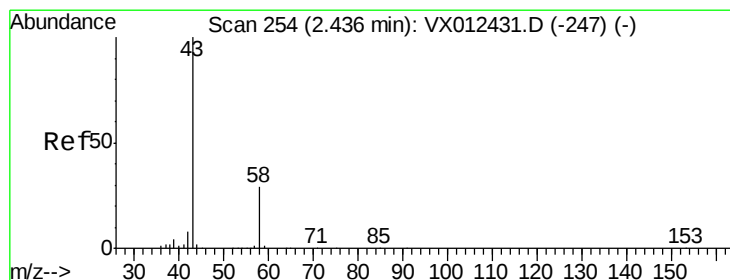
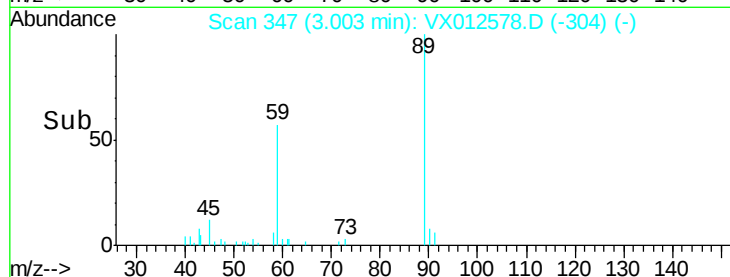
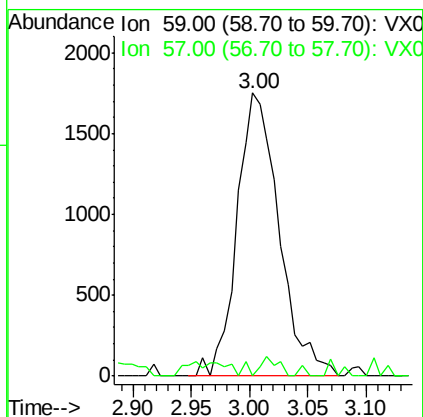
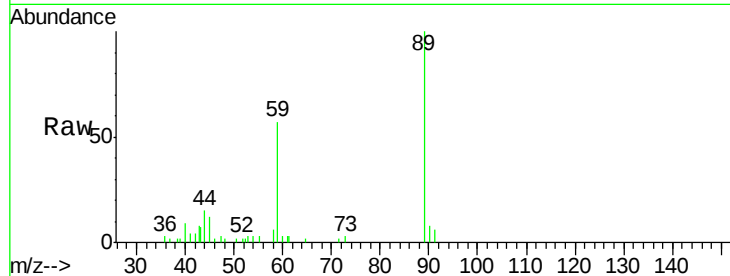


#11

Tert butyl alcohol
 Concen: 1.063 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX012578.D
 Acq: 21 Sep 2019 00:09

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB-2019-2

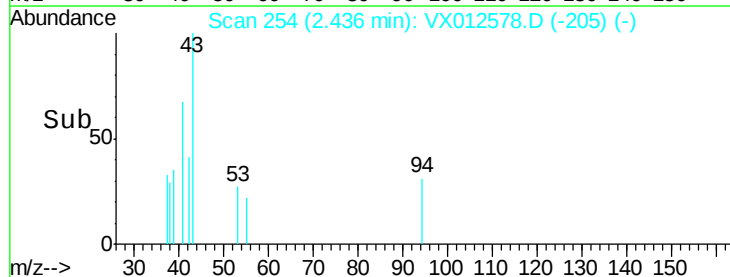
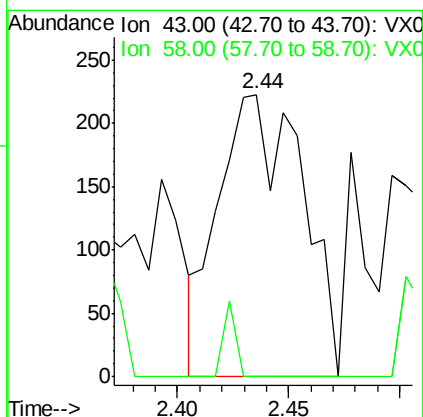
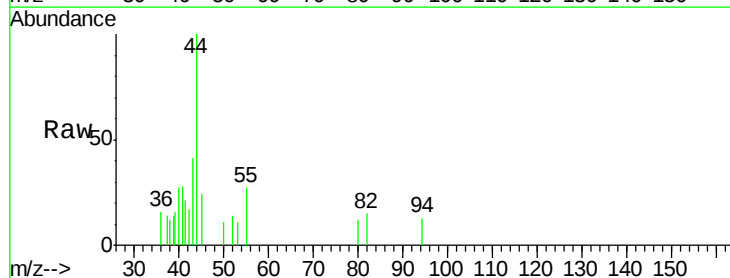
Tot Ion: 59 Resp: 4414
 Ion Ratio Lower Upper
 59 100
 57 2.8 8.3 12.5#

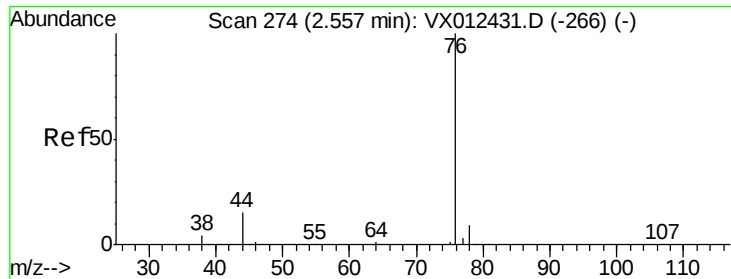


#16

Acetone
 Concen: Below Cal
 RT: 2.44 min Scan# 254
 Delta R.T. 0.00 min
 Lab File: VX012578.D
 Acq: 21 Sep 2019 00:09

Tgt Ion: 43 Resp: 581
 Ion Ratio Lower Upper
 43 100
 58 0.0 23.3 34.9#





#17

Carbon Disulfide

Concen: 1.928 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Instrument :

MSVOA_X

ClientSampled :

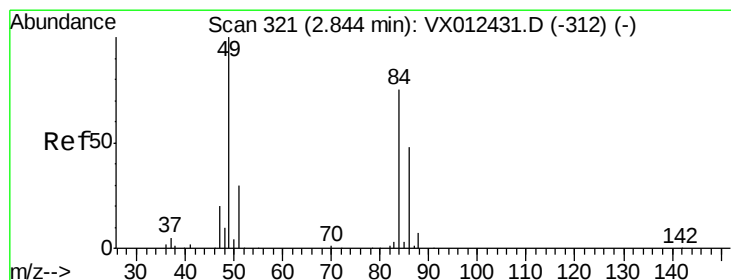
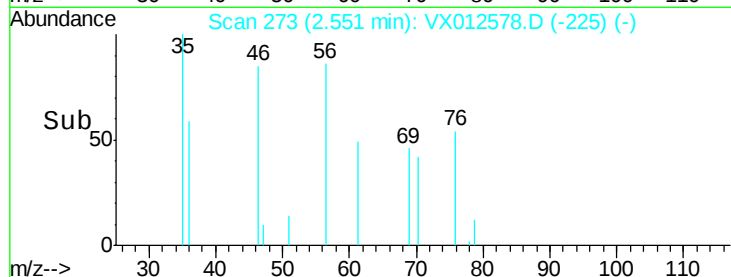
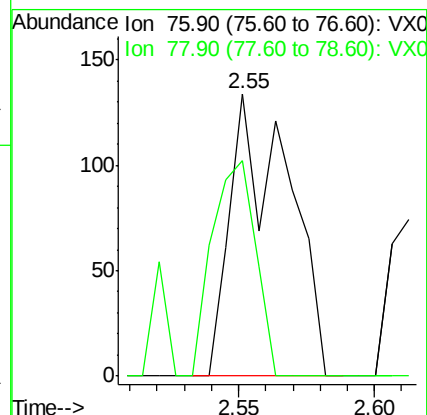
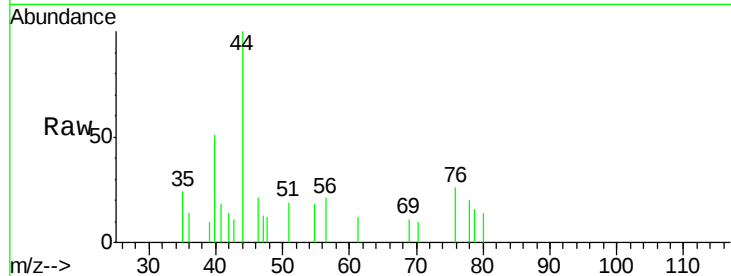
Z3-TB-2019-2

Tot Ion: 76 Resp: 197

Ion Ratio Lower Upper

76 100

78 76.1 7.3 10.9#



#20

Methylene Chloride

Concen: 0.419 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Tgt Ion: 84 Resp: 638

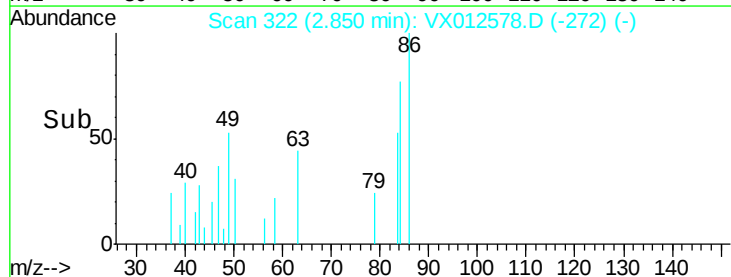
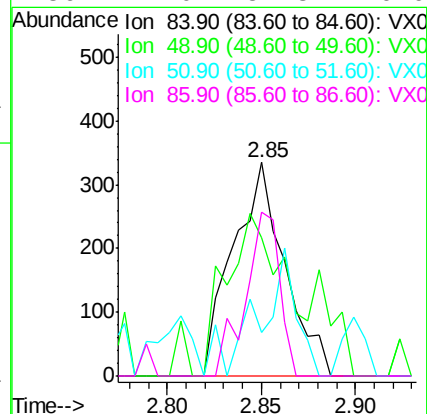
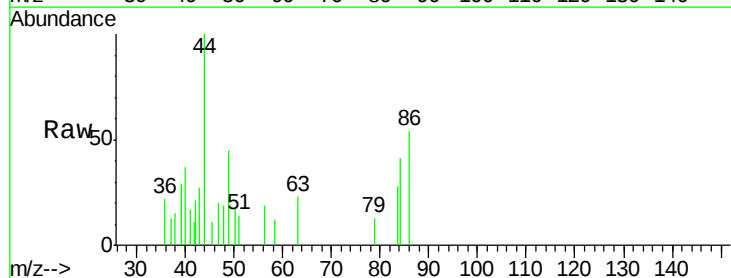
Ion Ratio Lower Upper

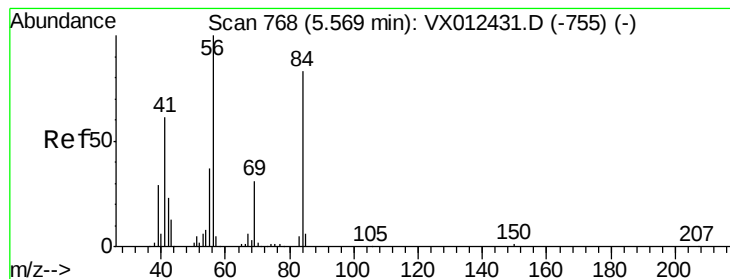
84 100

49 64.8 106.8 160.2#

51 3.0 32.3 48.5#

86 77.0 51.3 76.9#





#31

Cyclohexane

Concen: 2.515 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Instrument :

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Z3-TB-2019-2

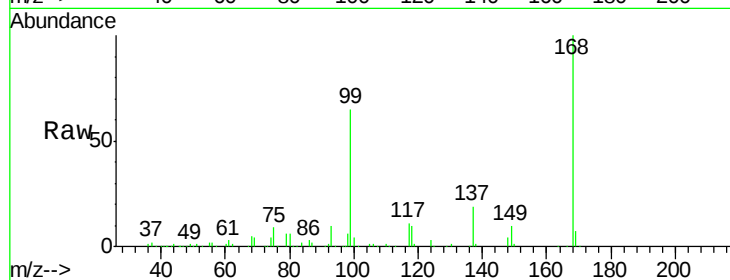
Tot Ion: 56 Resp: 4375

Ion Ratio Lower Upper

56 100

69 167.0 25.0 37.6#

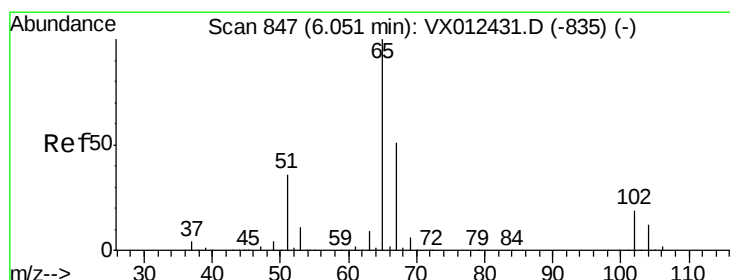
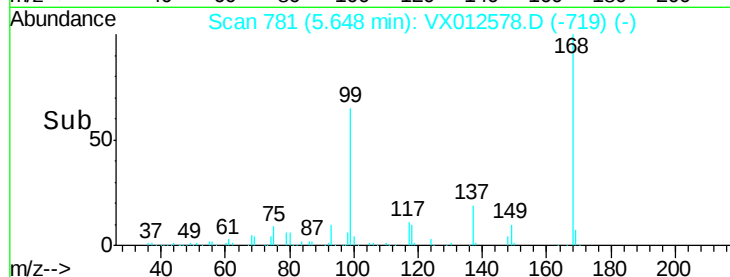
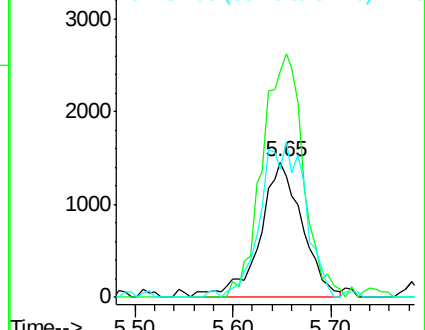
84 95.2 66.4 99.6



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: 46.694 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012578.D

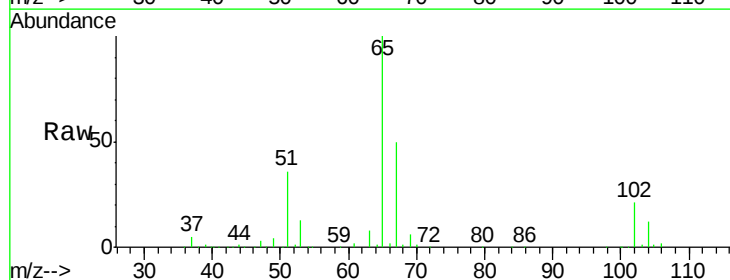
Acq: 21 Sep 2019 00:09

Tgt Ion: 65 Resp: 117620

Ion Ratio Lower Upper

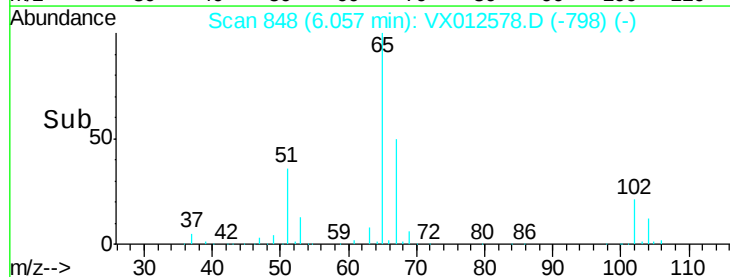
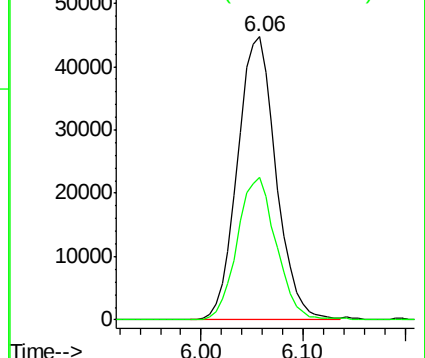
65 100

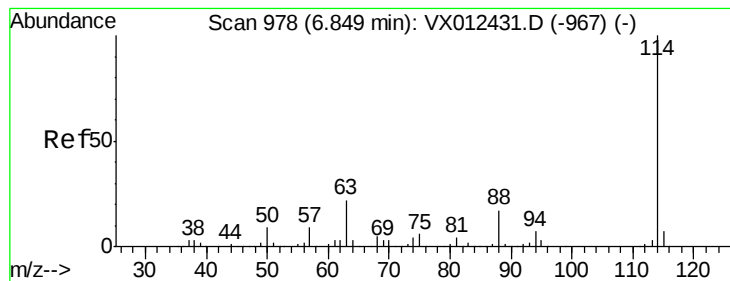
67 50.8 0.0 101.2



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# 978

Delta R.T. 0.00 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB-2019-2

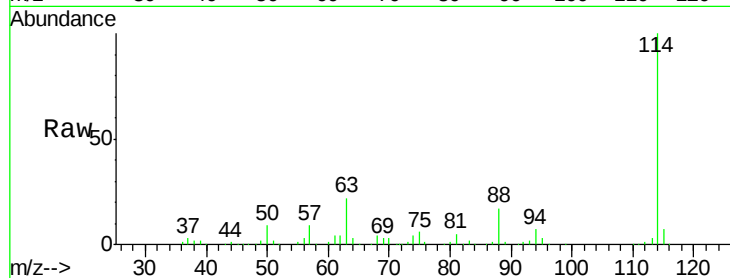
Tot Ion:114 Resp: 283644

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.2

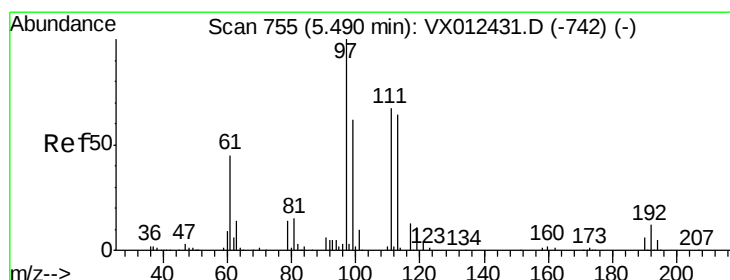
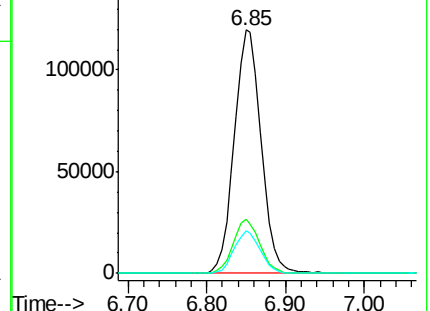
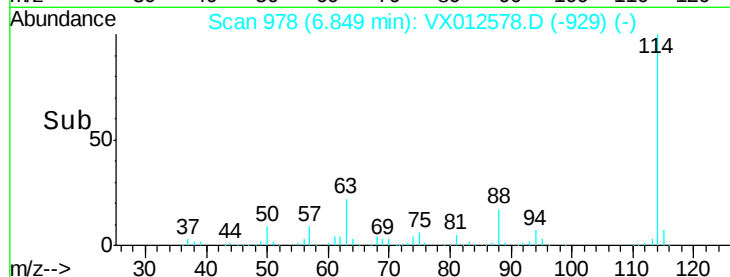
88 17.3 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.390 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

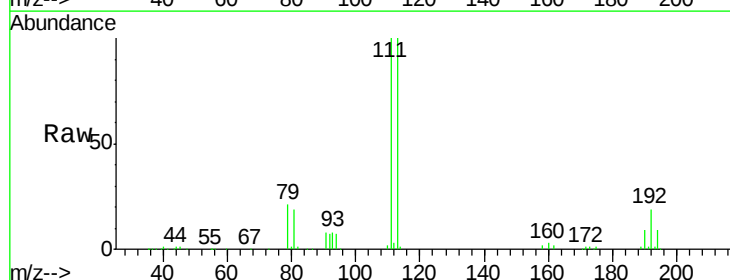
Tgt Ion:113 Resp: 84791

Ion Ratio Lower Upper

113 100

111 101.8 83.4 125.2

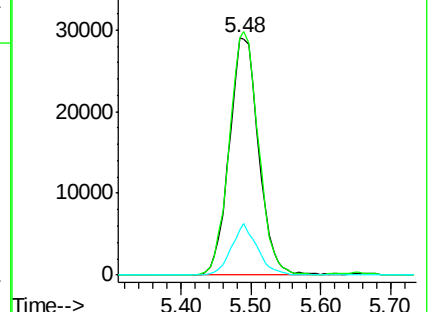
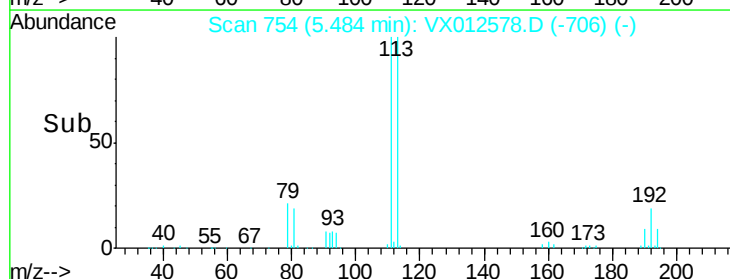
192 19.2 14.4 21.6

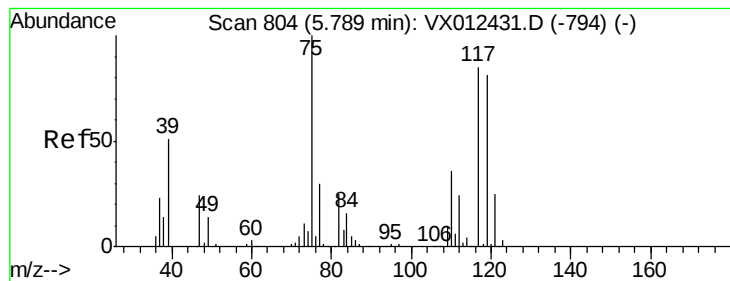


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 8.412 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Instrument :

MSVOA_X

ClientSampled :

Z3-TB-2019-2

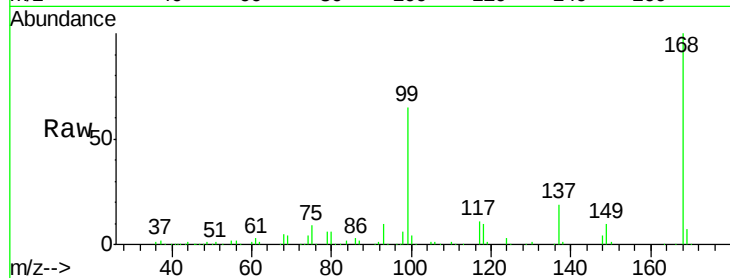
Tot Ion: 75 Resp: 14501

Ion Ratio Lower Upper

75 100

110 9.9 16.7 50.0#

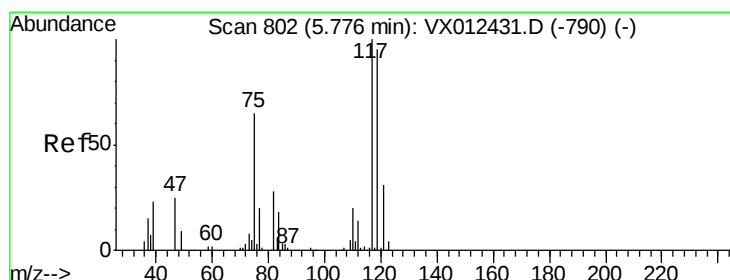
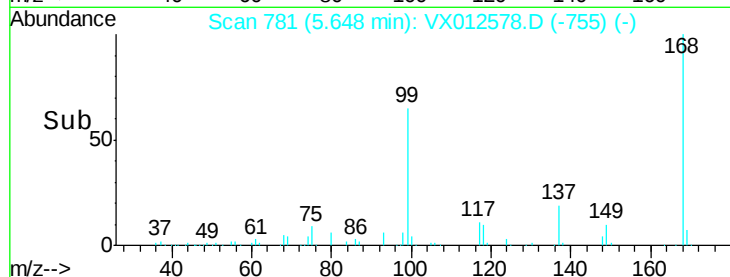
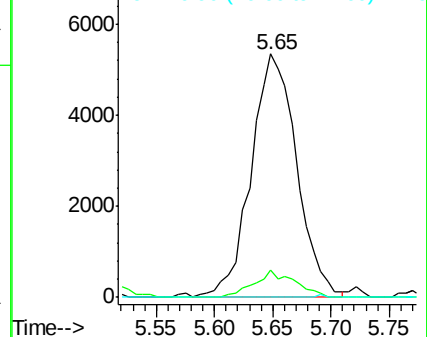
77 0.0 24.2 36.2#



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: 8.896 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

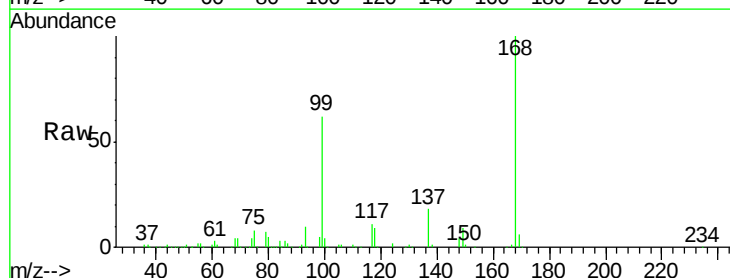
Tgt Ion: 117 Resp: 19073

Ion Ratio Lower Upper

117 100

119 3.9 75.7 113.5#

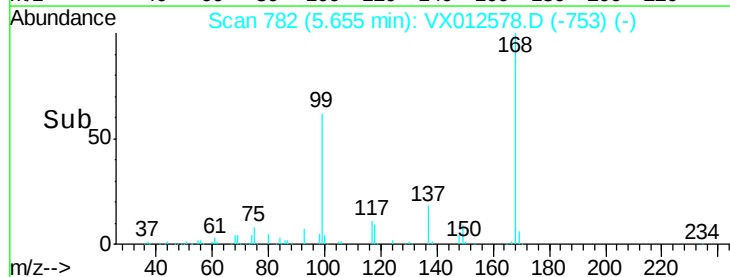
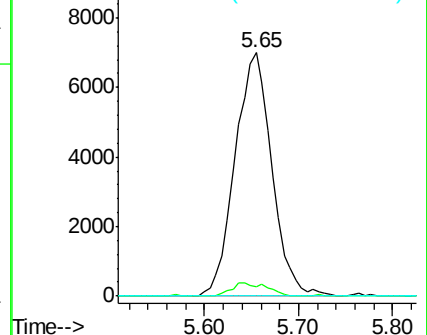
121 0.0 24.2 36.4#

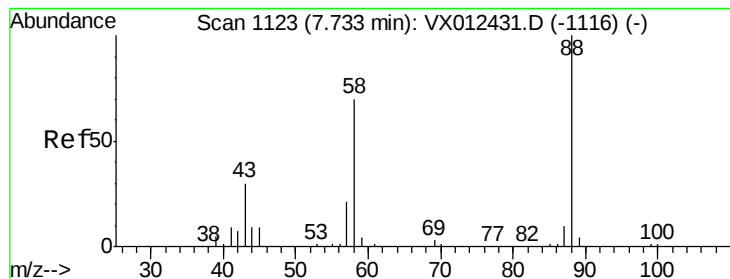


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.349 ug/l

RT: 7.78 min Scan# 1130

Delta R.T. 0.04 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB-2019-2

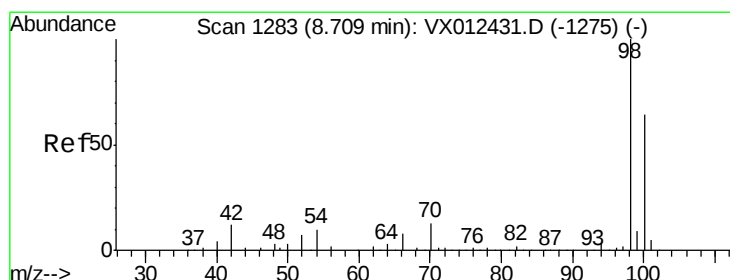
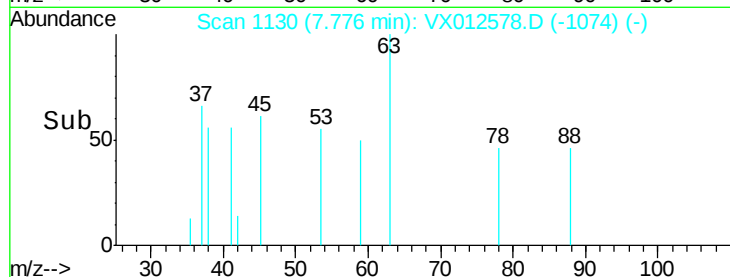
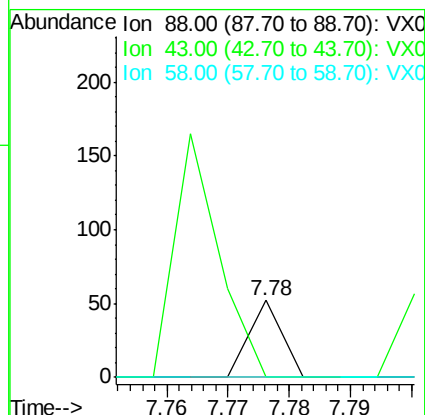
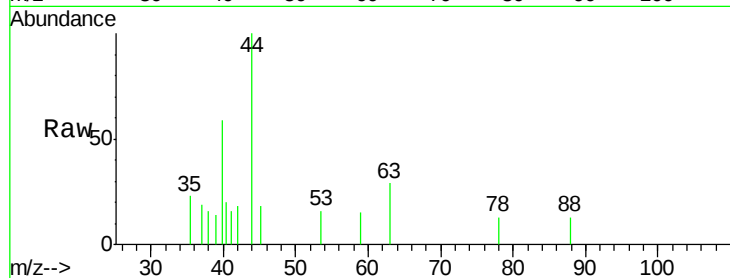
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 431.6 29.4 44.0#

58 0.0 57.5 86.3#



#50

Toluene-d8

Concen: 50.880 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012578.D

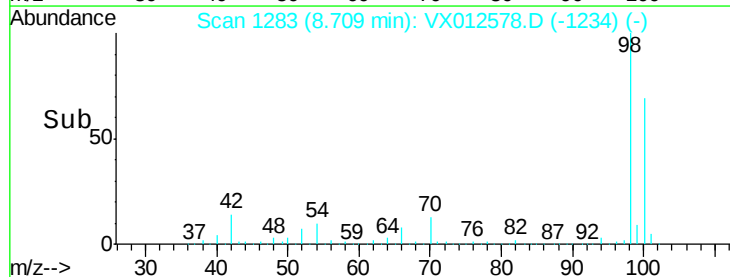
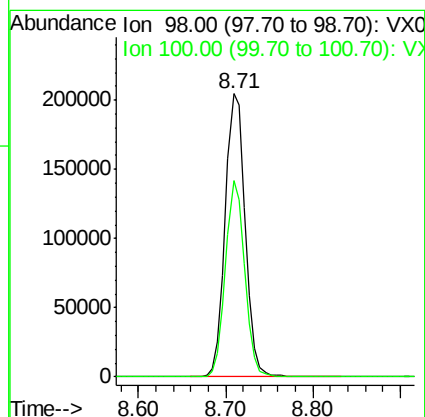
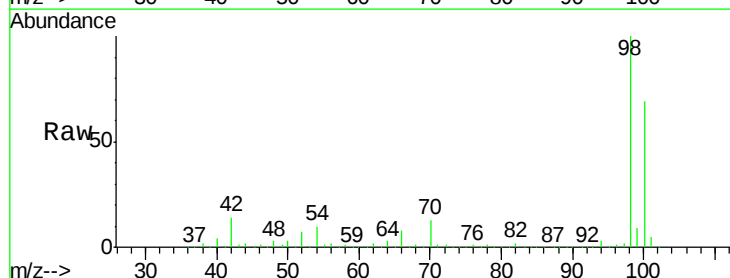
Acq: 21 Sep 2019 00:09

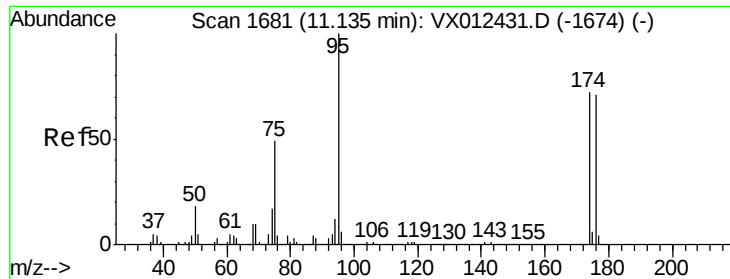
Tgt Ion: 98 Resp: 323318

Ion Ratio Lower Upper

98 100

100 66.7 53.4 80.2

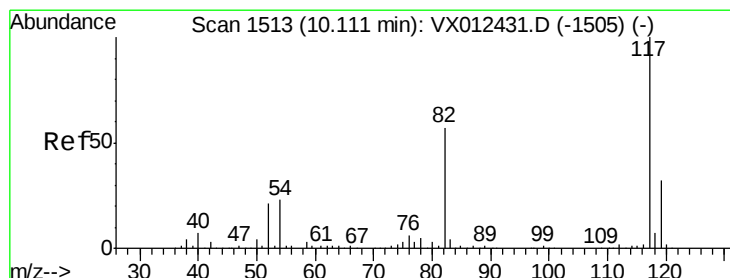
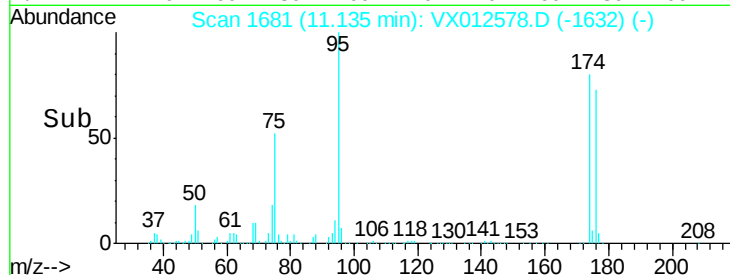
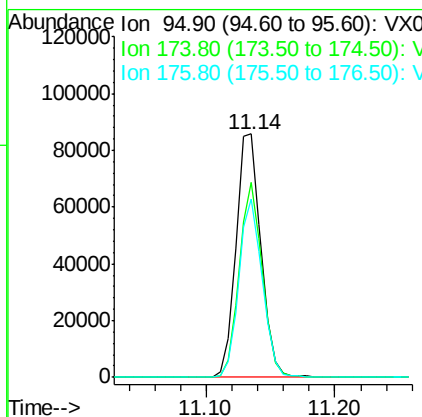
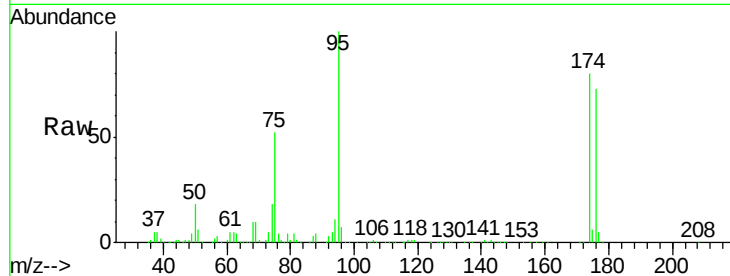




#62
4-Bromofluorobenzene
Concen: 43.722 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012578.D
Acq: 21 Sep 2019 00:09

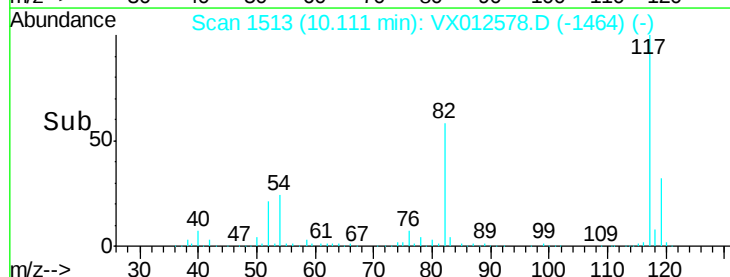
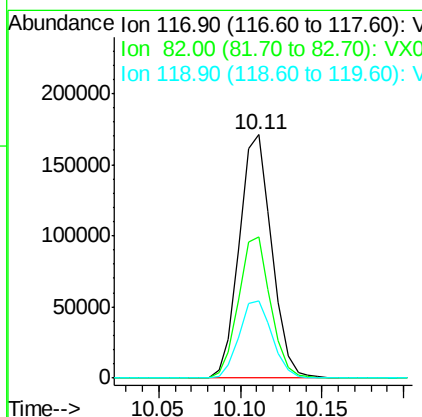
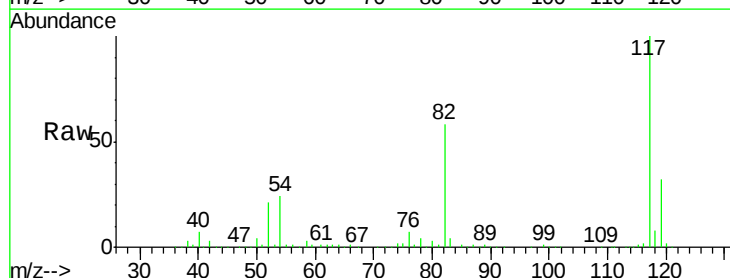
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB-2019-2

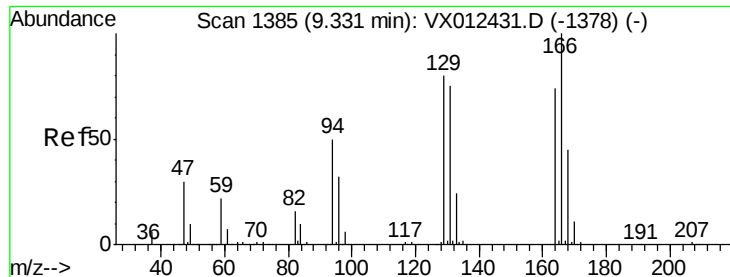
Tot Ion: 95 Resp: 115360
Ion Ratio Lower Upper
95 100
174 73.9 0.0 140.0
176 68.5 0.0 135.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012578.D
Acq: 21 Sep 2019 00:09

Tgt Ion: 117 Resp: 237615
Ion Ratio Lower Upper
117 100
82 57.9 45.9 68.9
119 31.7 25.3 37.9





#64

Tetrachloroethene

Concen: 0.213 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB-2019-2

Tot Ion:164 Resp: 232

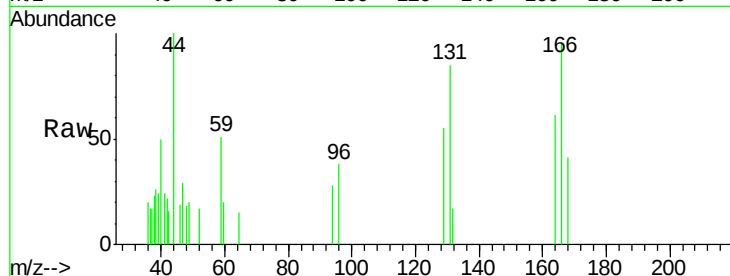
Ion Ratio Lower Upper

164 100

166 156.7 107.8 161.6

129 91.0 86.2 129.2

131 139.3 80.4 120.6#

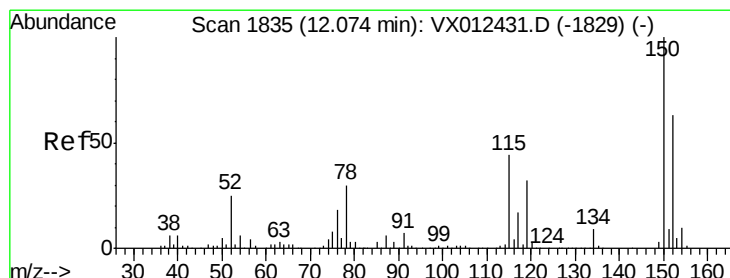
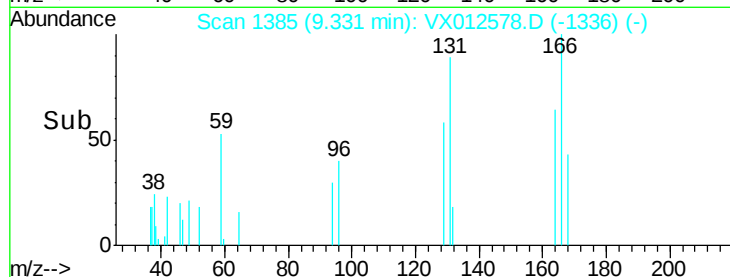
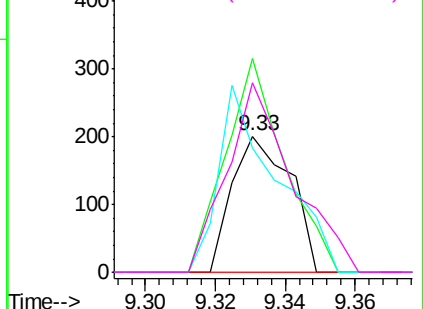


Abundance Ion 163.80 (163.50 to 164.50): V

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# 1835

Delta R.T. 0.00 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

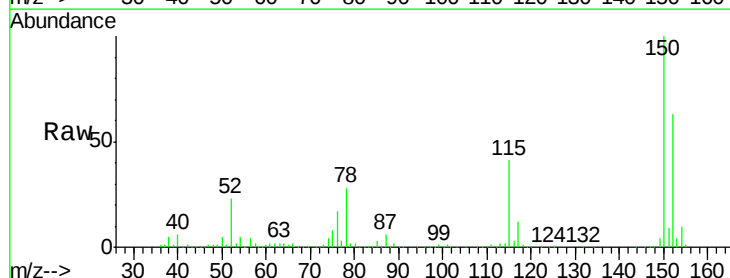
Tgt Ion:152 Resp: 98535

Ion Ratio Lower Upper

152 100

115 63.0 44.1 132.3

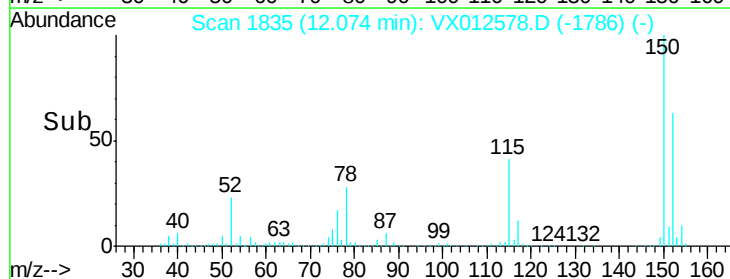
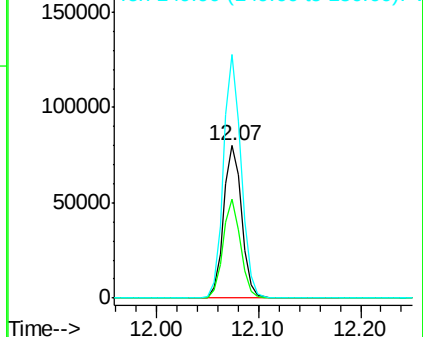
150 156.1 0.0 343.8

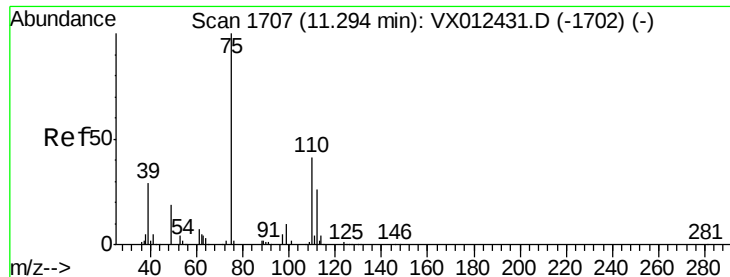


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.500 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Instrument :

MSVOA_X

ClientSampleId :

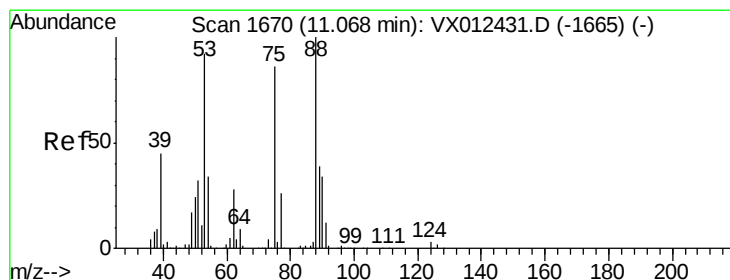
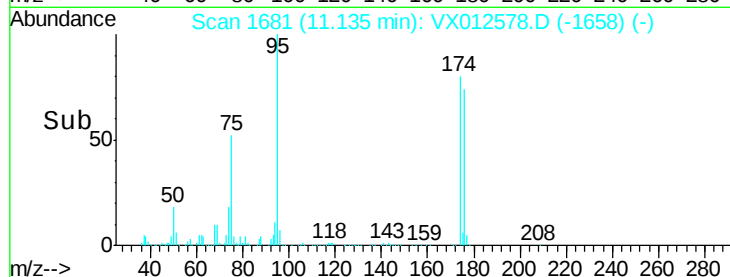
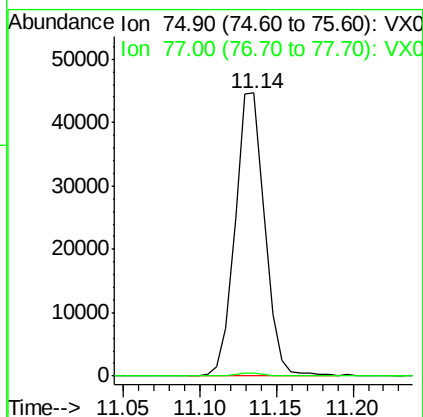
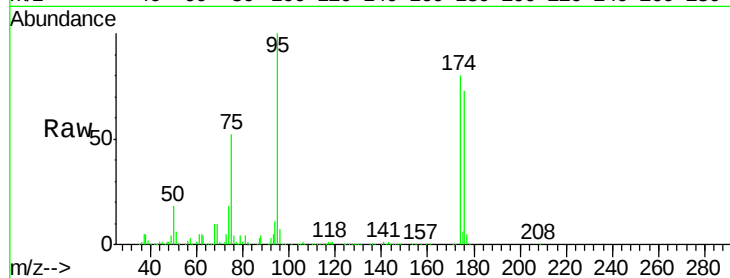
Z3-TB-2019-2

Tot Ion: 75 Resp: 59981

Ion Ratio Lower Upper

75 100

77 1.2 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.344 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012578.D

Acq: 21 Sep 2019 00:09

Tgt Ion: 75 Resp: 59981

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

89 0.0 36.3 54.5#

