

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101119\
 Data File : VX013019.D
 Acq On : 11 Oct 2019 16:20
 Operator : JC/SP
 Sample : K5306-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 391009761-TRIP-BLANK

Quant Time: Oct 11 23:27:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	175203	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	288979	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	239299	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	90401	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	107813	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
35) Dibromofluoromethane	5.49	113	84153	50.74	ug/l	0.00
Spiked Amount			Recovery	=	101.48%	
50) Toluene-d8	8.71	98	335199	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
62) 4-Bromofluorobenzene	11.14	95	109488	43.56	ug/l	0.00
Spiked Amount			Recovery	=	87.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	322	0.386	ug/l	84
6) Chloroethane	1.66	64	1866	1.879	ug/l #	59
10) Methyl Iodide	2.52	142	183	5.164	ug/l #	40
11) Tert butyl alcohol	3.03	59	302	0.520	ug/l #	72
14) Allyl chloride	2.59	41	6946	2.203	ug/l #	61
16) Acetone	2.43	43	153335	132.844	ug/l	99
18) Methyl Acetate	2.59	43	19862	7.260	ug/l #	51
19) Methyl tert-butyl Ether	3.19	73	3169	0.518	ug/l	94
28) Bromochloromethane	5.21	49	45	Below Cal	#	13
30) Chloroform	5.20	83	1301	0.373	ug/l	89
31) Cyclohexane	5.65	56	3688	1.160	ug/l #	25
36) 1,1-Dichloropropene	5.65	75	13735	5.406	ug/l #	50
38) Carbon Tetrachloride	5.65	117	18120	7.327	ug/l #	17
51) 4-Methyl-2-Pentanone	8.70	43	1513	0.532	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	53371	26.618	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	53371	66.940	ug/l #	10

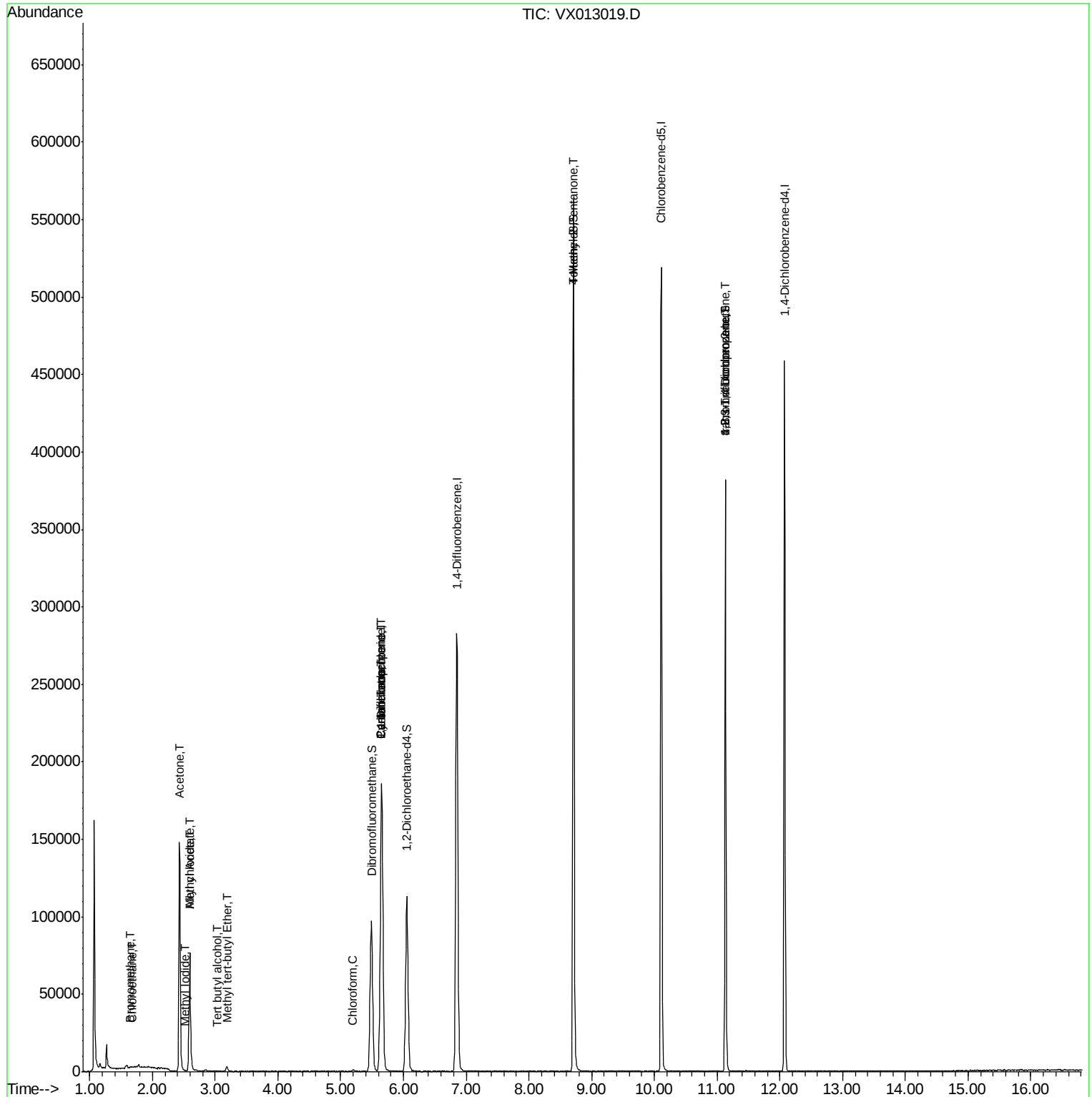
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX013019.D

Acq: 11 Oct 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

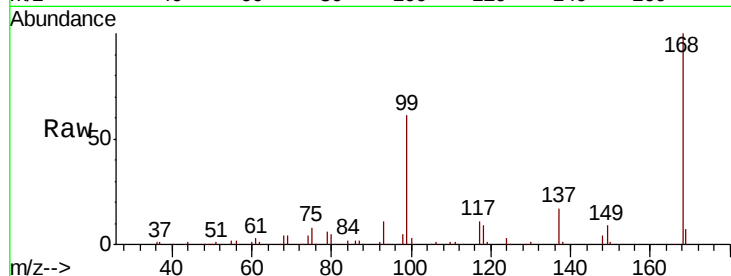
391009761-TRIP-BLANK

Tot Ion:168 Resp: 175203

Ion Ratio Lower Upper

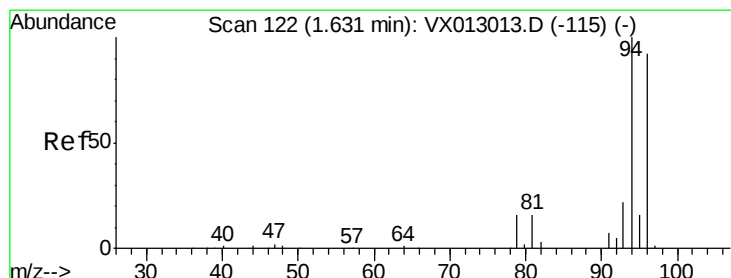
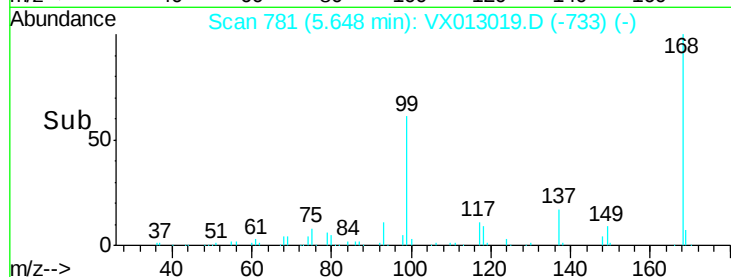
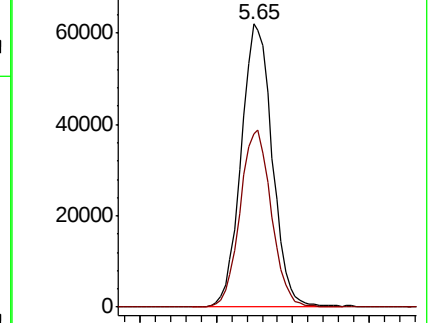
168 100

99 61.3 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.386 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013019.D

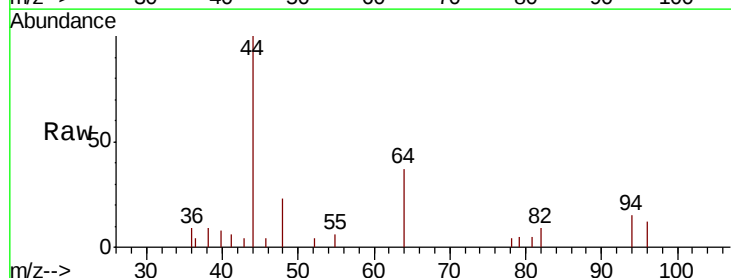
Acq: 11 Oct 2019 16:20

Tgt Ion: 94 Resp: 322

Ion Ratio Lower Upper

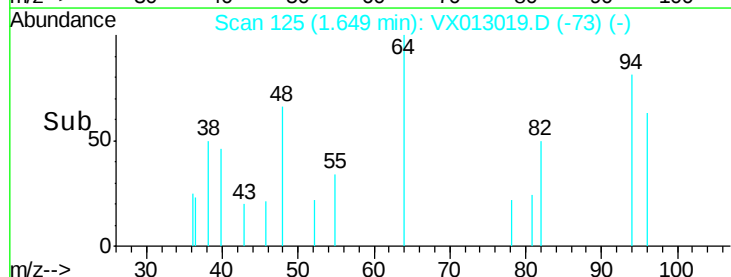
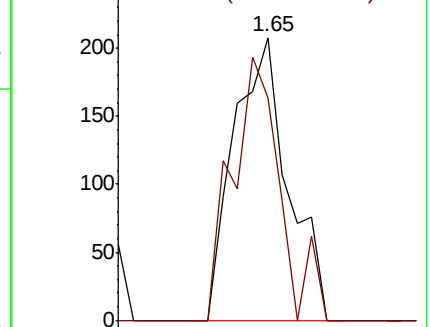
94 100

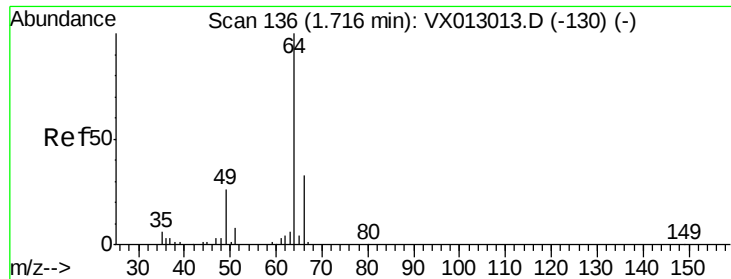
96 78.4 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.879 ug/l

RT: 1.66 min Scan# 127

Delta R.T. -0.05 min

Lab File: VX013019.D

Acq: 11 Oct 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

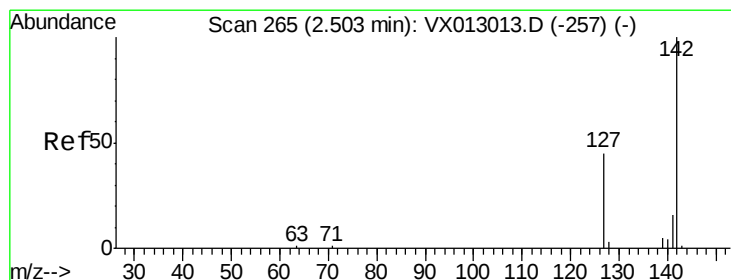
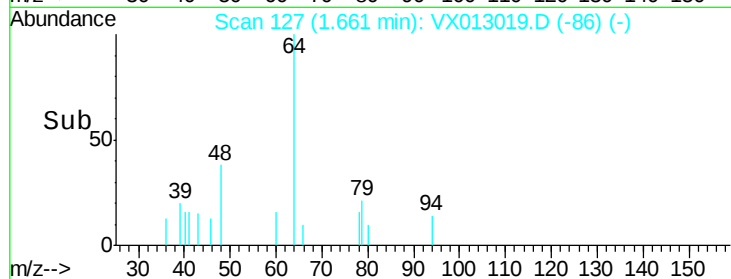
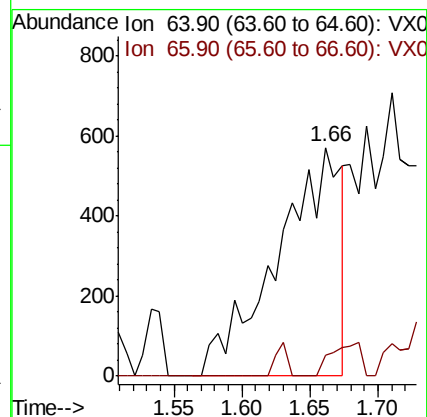
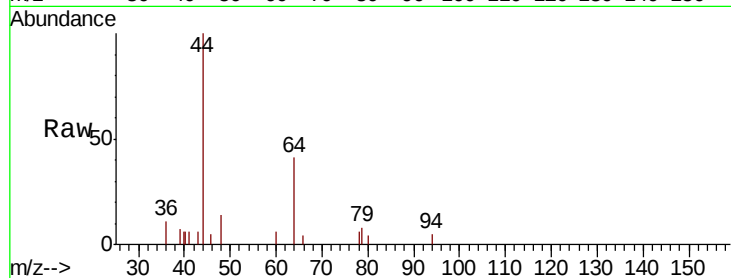
391009761-TRIP-BLANK

Tot Ion: 64 Resp: 1866

Ion Ratio Lower Upper

64 100

66 9.1 25.6 38.4#



#10

Methyl Iodide

Concen: 5.164 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.02 min

Lab File: VX013019.D

Acq: 11 Oct 2019 16:20

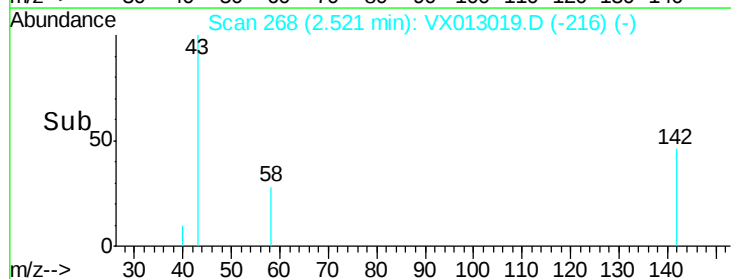
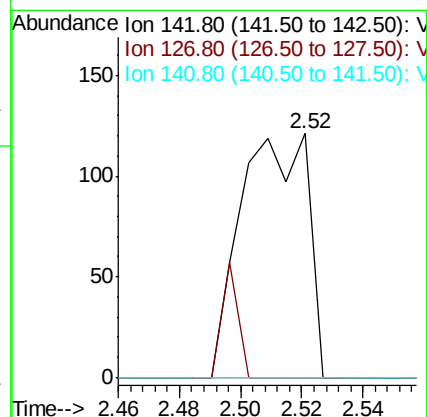
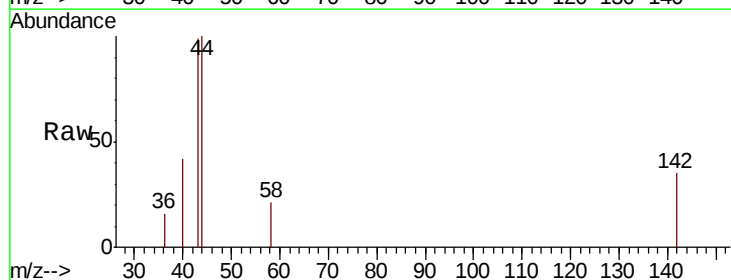
Tgt Ion: 142 Resp: 183

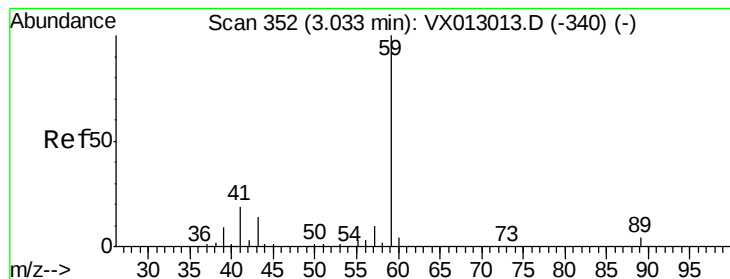
Ion Ratio Lower Upper

142 100

127 0.0 34.9 52.3#

141 0.0 11.6 17.4#



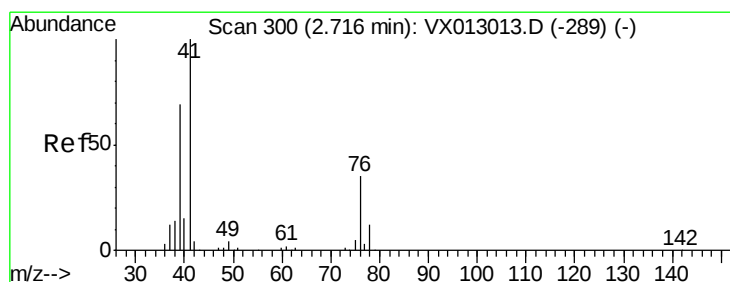
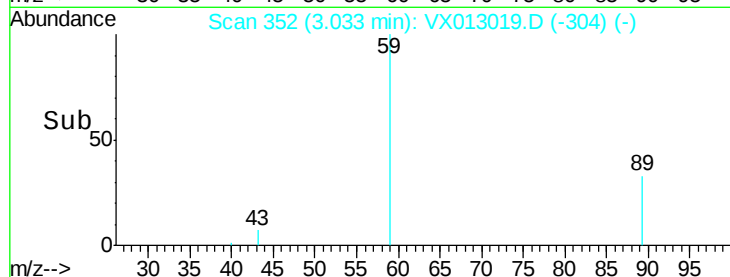
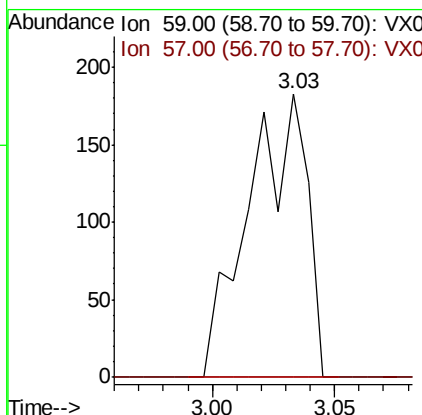
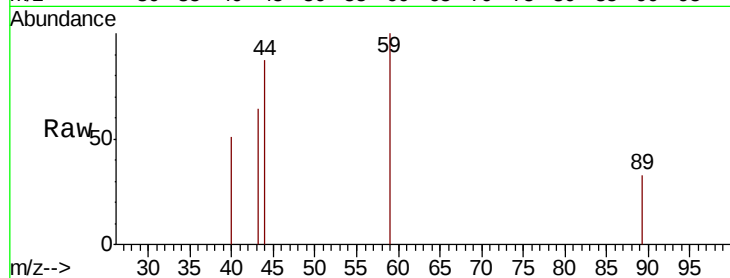


#11

Tert butyl alcohol
 Concen: 0.520 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VX013019.D
 Acq: 11 Oct 2019 16:20

Instrument :
 MSVOA_X
 ClientSampleId :
 391009761-TRIP-BLANK

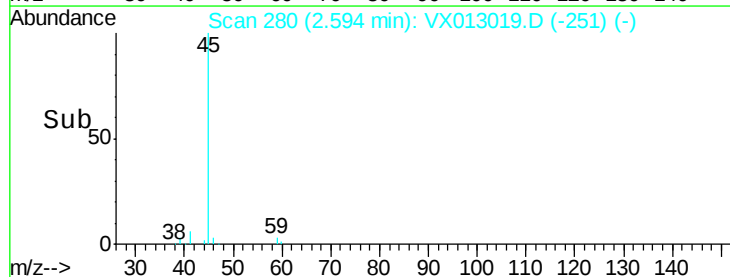
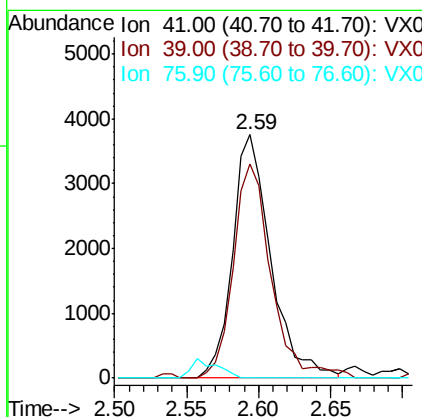
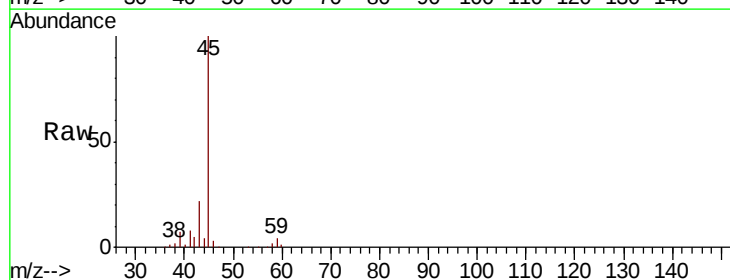
Tot Ion: 59 Resp: 302
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

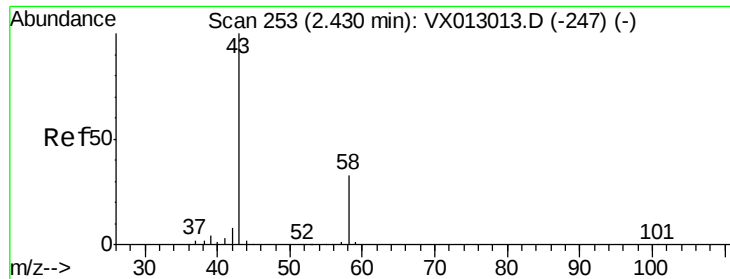


#14

Allyl chloride
 Concen: 2.203 ug/l
 RT: 2.59 min Scan# 280
 Delta R.T. -0.12 min
 Lab File: VX013019.D
 Acq: 11 Oct 2019 16:20

Tgt Ion: 41 Resp: 6946
 Ion Ratio Lower Upper
 41 100
 39 87.1 51.0 76.6#
 76 0.0 26.2 39.4#





#16

Acetone

Concen: 132.844 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013019.D

Acq: 11 Oct 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

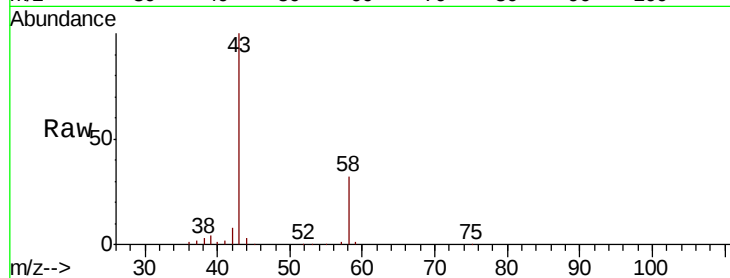
391009761-TRIP-BLANK

Tot Ion: 43 Resp: 153335

Ion Ratio Lower Upper

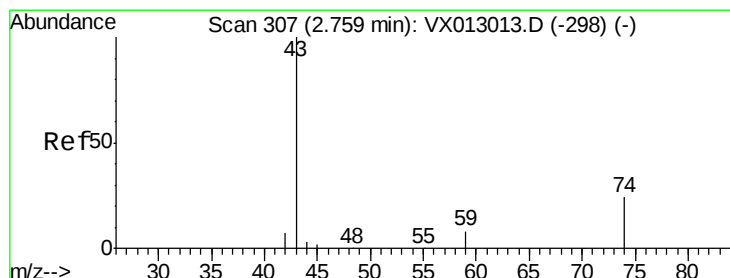
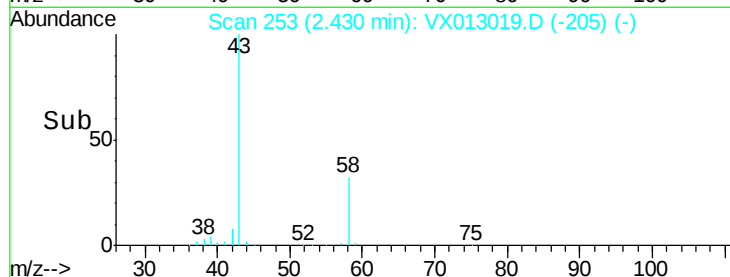
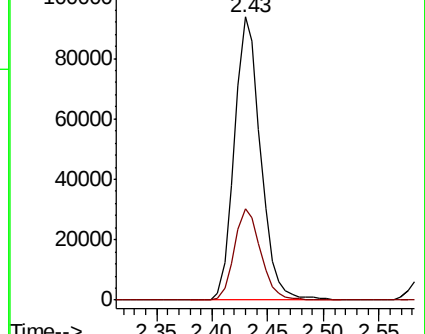
43 100

58 32.1 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 7.260 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX013019.D

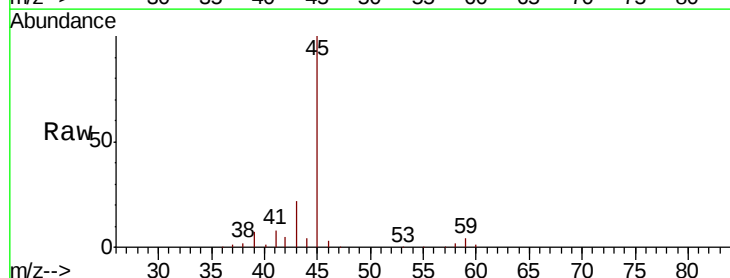
Acq: 11 Oct 2019 16:20

Tgt Ion: 43 Resp: 19862

Ion Ratio Lower Upper

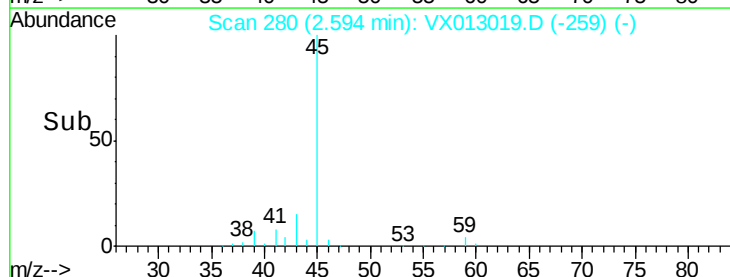
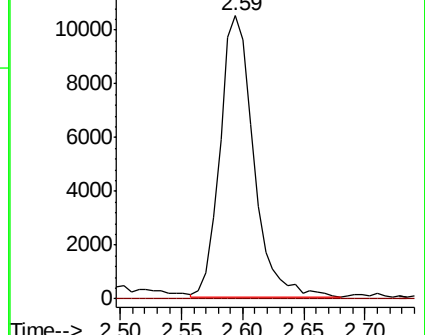
43 100

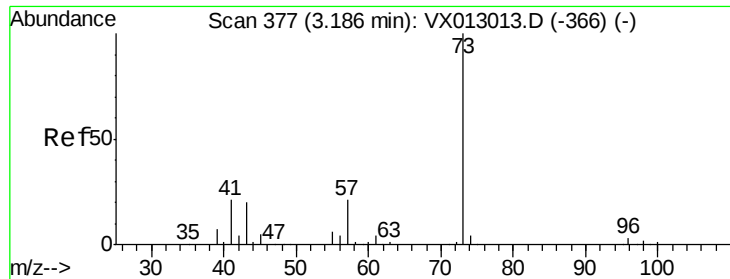
74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

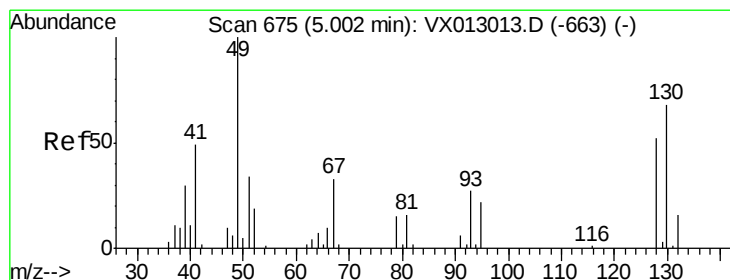
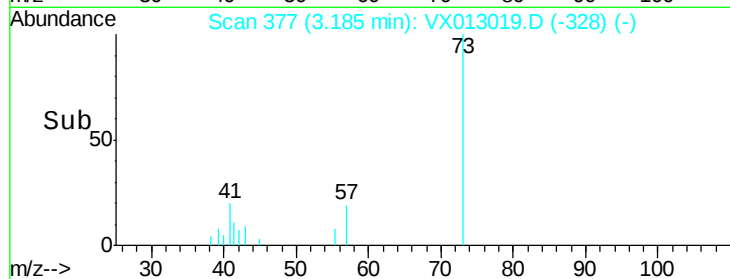
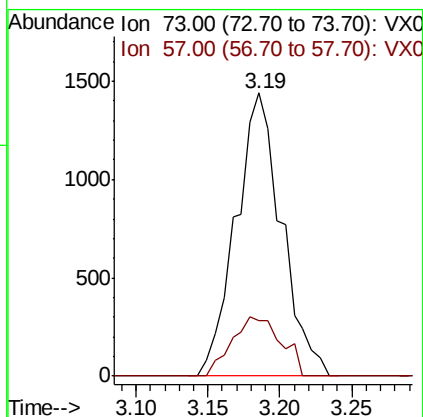
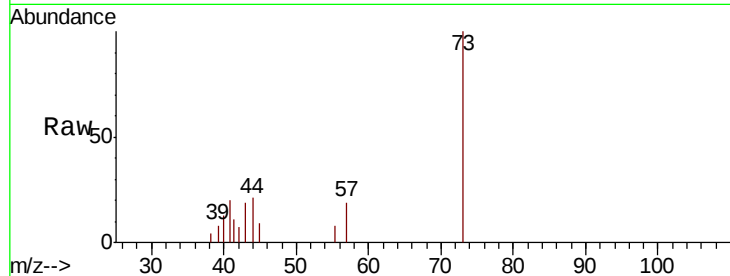




#19
Methvl tert-butvl Ether
Concen: 0.518 ug/l
RT: 3.19 min Scan# 377
Delta R.T. -0.00 min
Lab File: VX013019.D
Acq: 11 Oct 2019 16:20

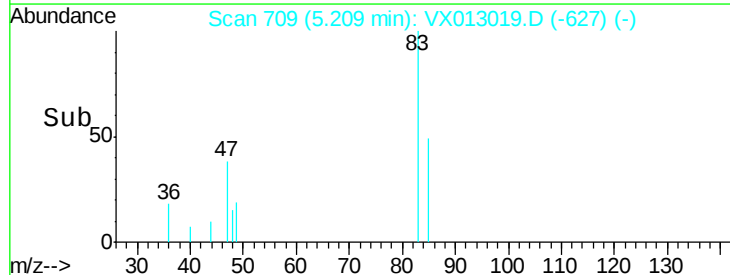
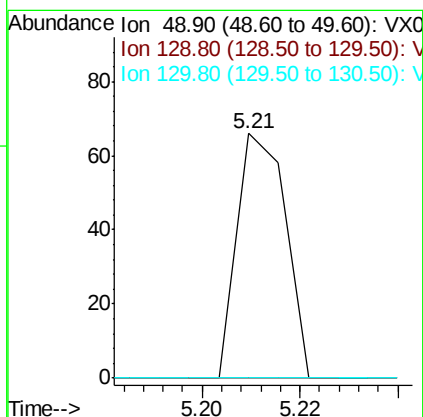
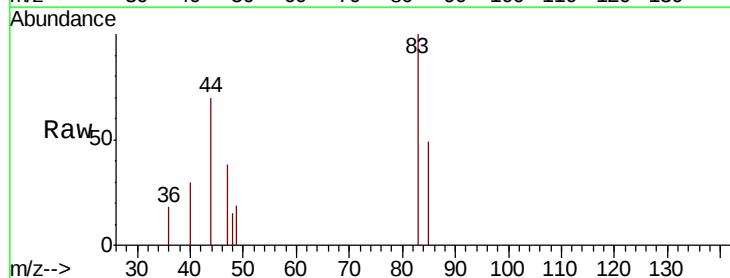
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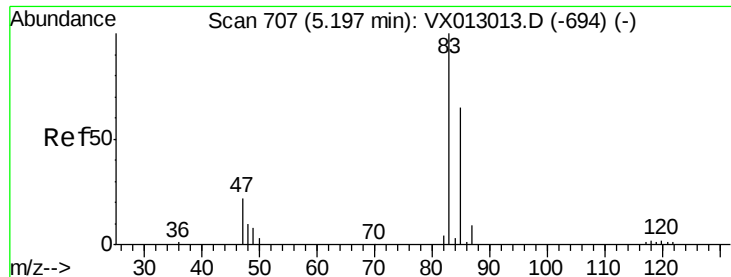
Tot Ion: 73 Resp: 3169
Ion Ratio Lower Upper
73 100
57 19.4 17.8 26.6



#28
Bromochloromethane
Concen: Below Cal
RT: 5.21 min Scan# 709
Delta R.T. 0.20 min
Lab File: VX013019.D
Acq: 11 Oct 2019 16:20

Tgt Ion: 49 Resp: 45
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 62.1 93.1#

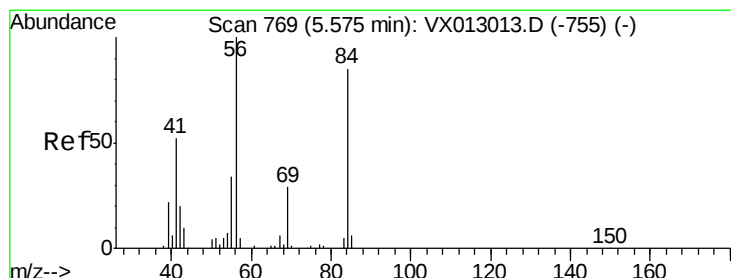
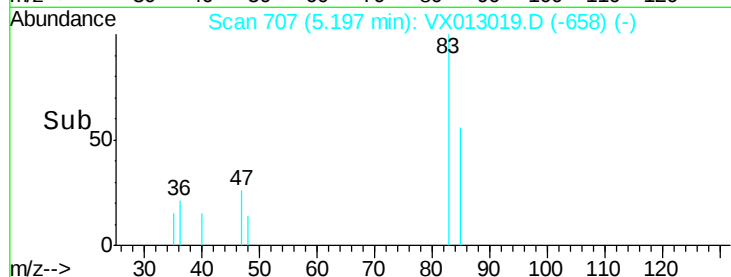
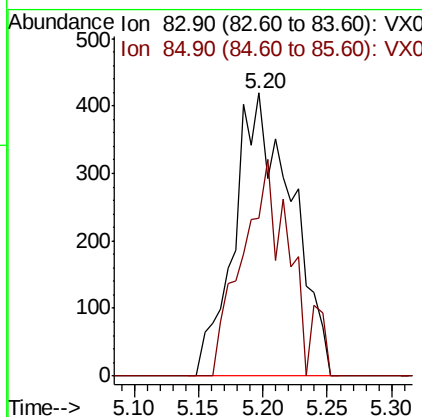
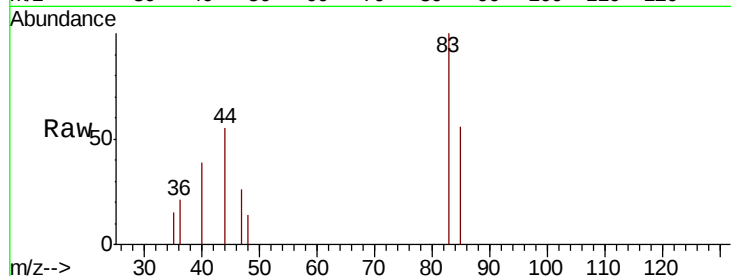




#30
Chloroform
Concen: 0.373 ug/l
RT: 5.20 min Scan# 707
Delta R.T. -0.00 min
Lab File: VX013019.D
Acq: 11 Oct 2019 16:20

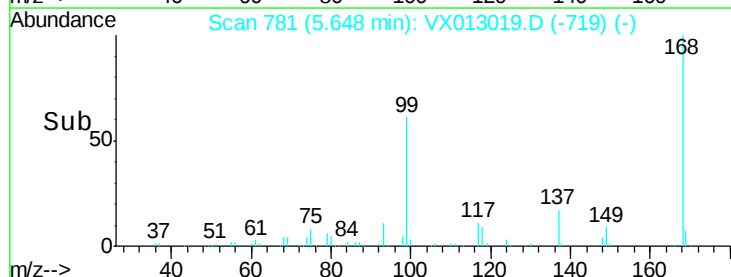
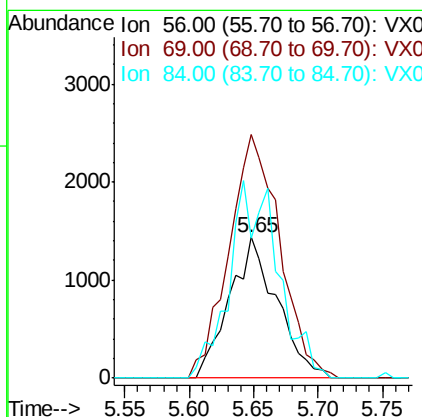
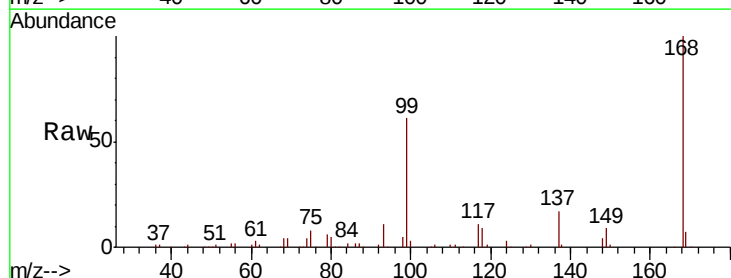
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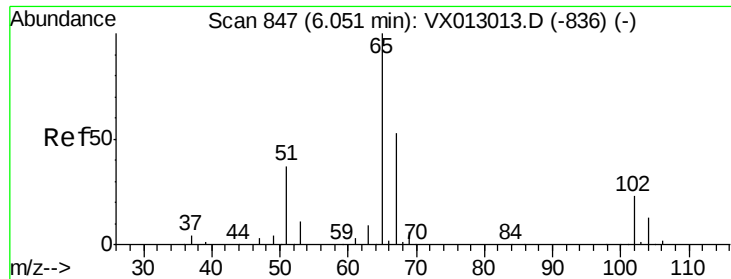
Tot Ion: 83 Resp: 1301
Ion Ratio Lower Upper
83 100
85 55.8 51.5 77.3



#31
Cyclohexane
Concen: 1.160 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013019.D
Acq: 11 Oct 2019 16:20

Tgt Ion: 56 Resp: 3688
Ion Ratio Lower Upper
56 100
69 173.0 25.2 37.8#
84 99.6 71.3 106.9

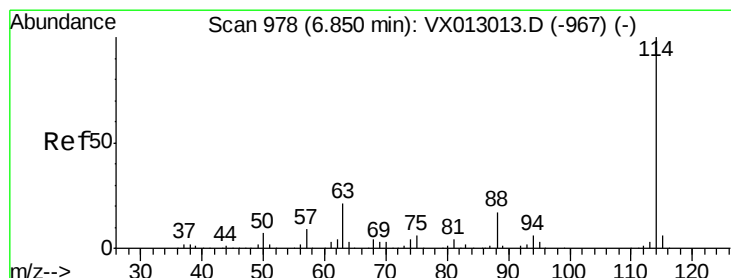
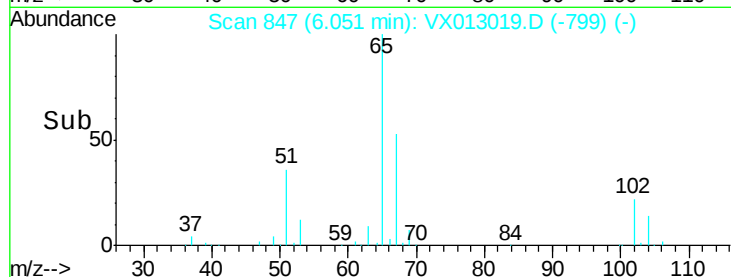
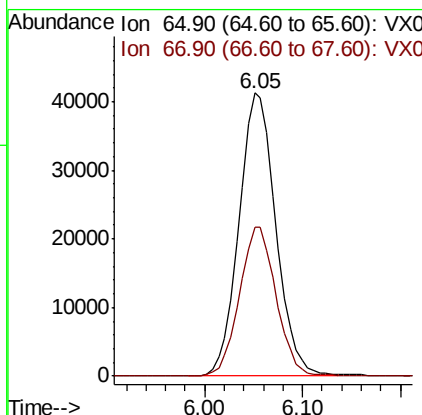
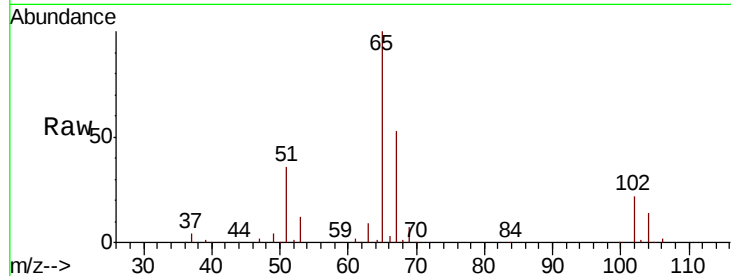




#33
 1,2-Dichloroethane-d4
 Concen: 49.234 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013019.D
 Acq: 11 Oct 2019 16:20

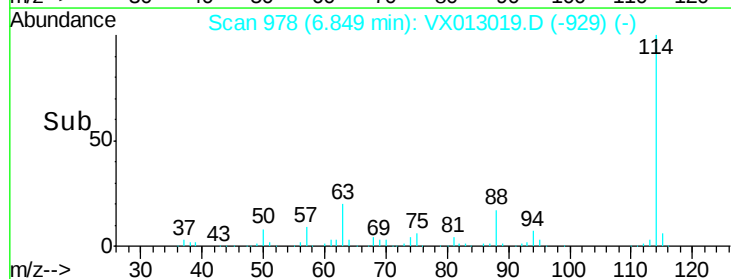
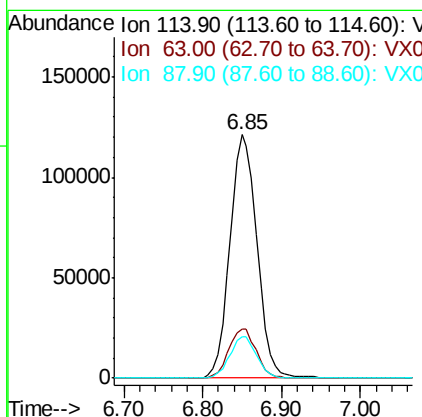
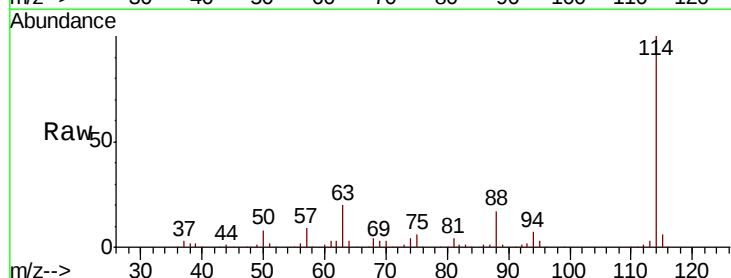
Instrument :
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 ClientSampleId :
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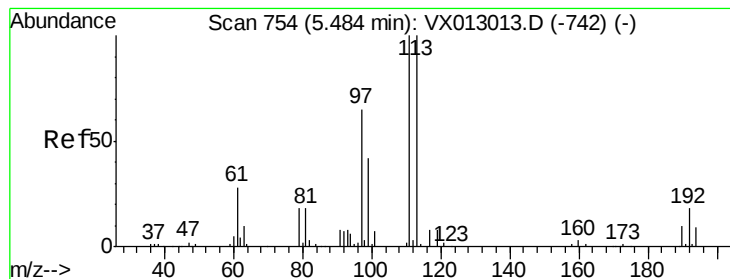
Tot Ion: 65 Resp: 107813
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013019.D
 Acq: 11 Oct 2019 16:20

Tgt Ion: 114 Resp: 288979
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.8
 88 17.2 0.0 33.8





#35

Dibromofluoromethane

Concen: 50.738 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013019.D

Acq: 11 Oct 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

391009761-TRIP-BLANK

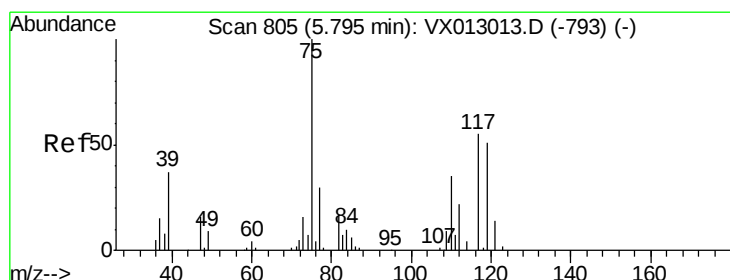
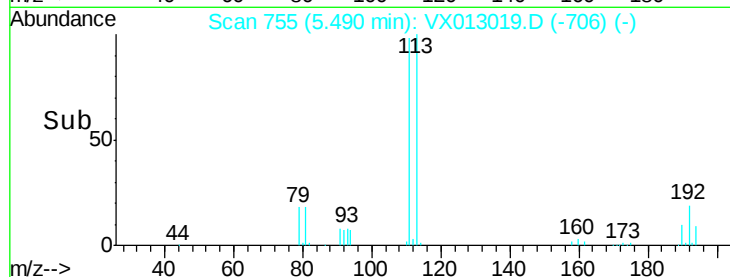
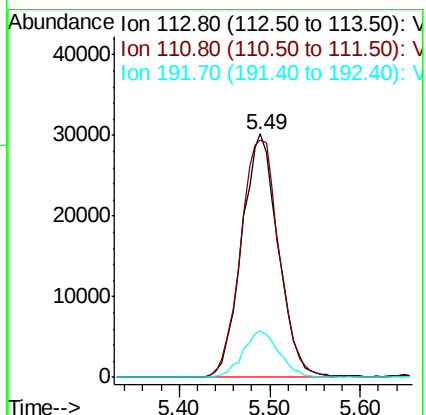
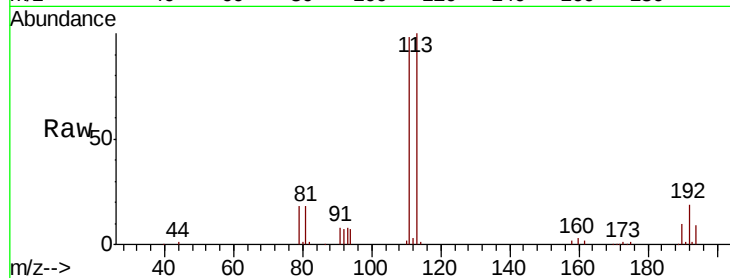
Tot Ion:113 Resp: 84153

Ion Ratio Lower Upper

113 100

111 102.9 83.2 124.8

192 19.0 15.4 23.2



#36

1,1-Dichloropropene

Concen: 5.406 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013019.D

Acq: 11 Oct 2019 16:20

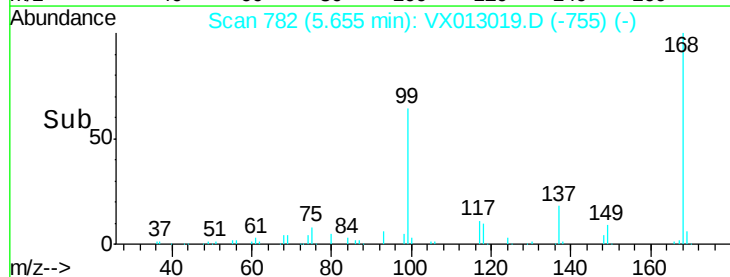
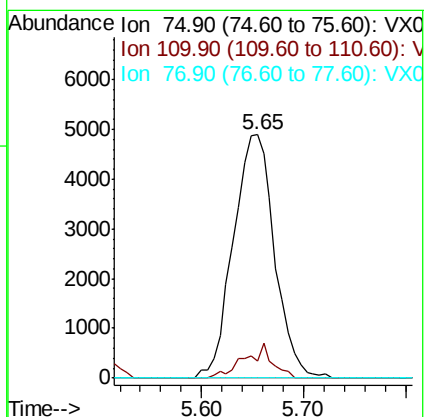
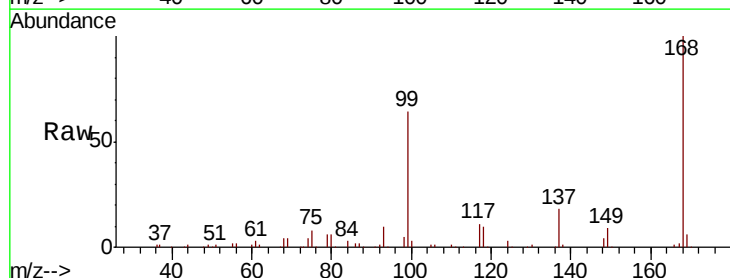
Tgt Ion: 75 Resp: 13735

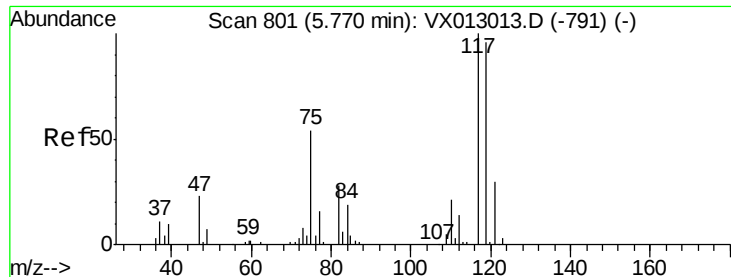
Ion Ratio Lower Upper

75 100

110 9.6 17.6 52.9#

77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 7.327 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013019.D

Acq: 11 Oct 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

391009761-TRIP-BLANK

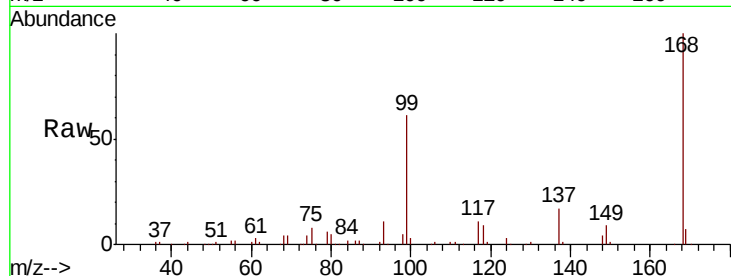
Tot Ion:117 Resp: 18120

Ion Ratio Lower Upper

117 100

119 5.4 74.5 111.7#

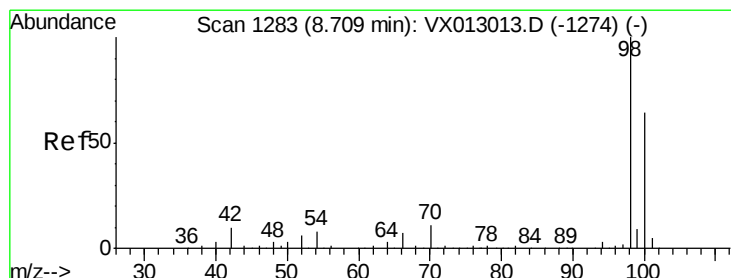
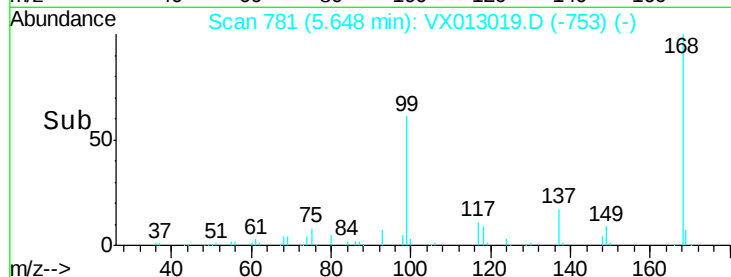
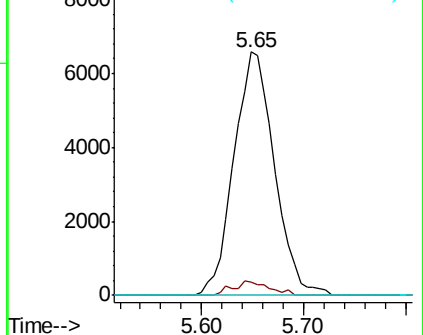
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 51.817 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013019.D

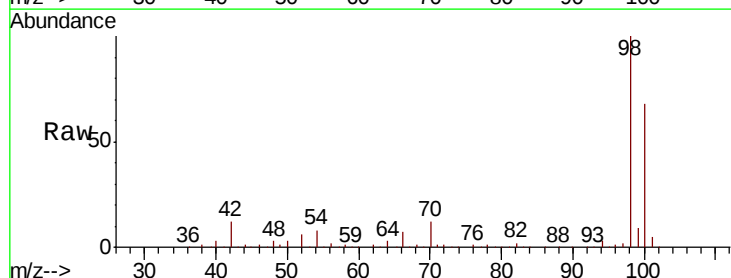
Acq: 11 Oct 2019 16:20

Tgt Ion: 98 Resp: 335199

Ion Ratio Lower Upper

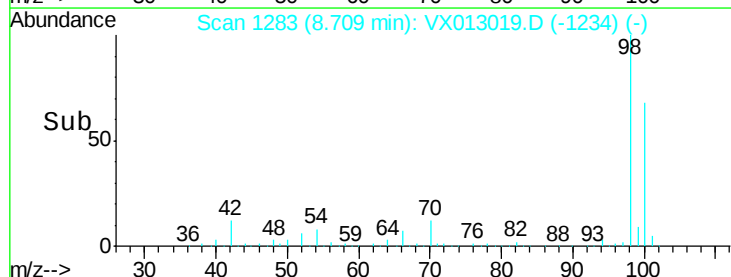
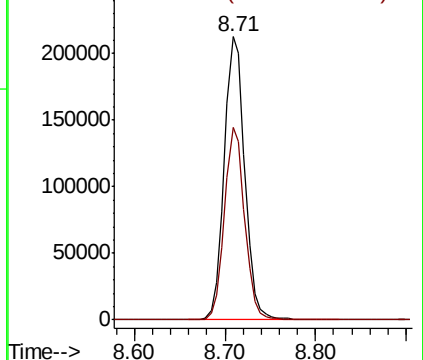
98 100

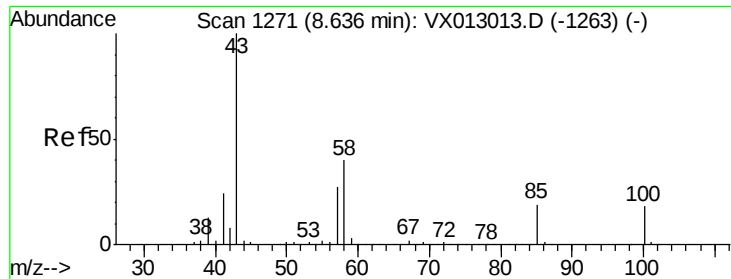
100 67.0 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.532 ug/l

RT: 8.70 min Scan# 1282

Delta R.T. 0.07 min

Lab File: VX013019.D

Acq: 11 Oct 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

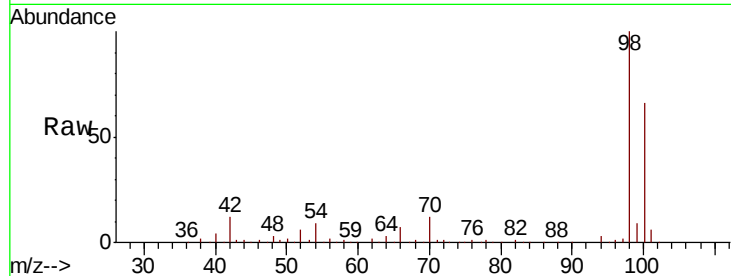
391009761-TRIP-BLANK

Tot Ion: 43 Resp: 1513

Ion Ratio Lower Upper

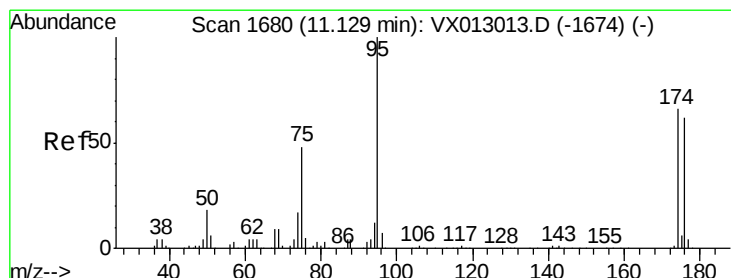
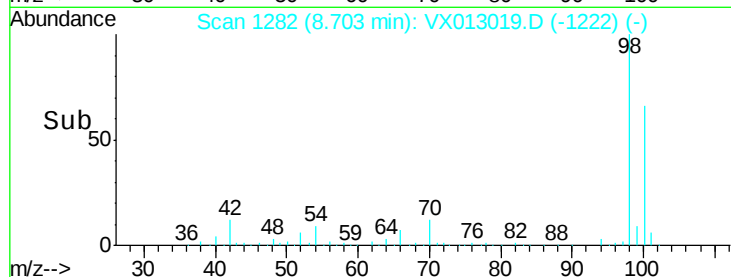
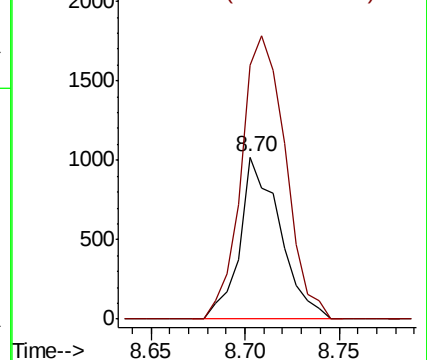
43 100

58 191.3 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 43.559 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013019.D

Acq: 11 Oct 2019 16:20

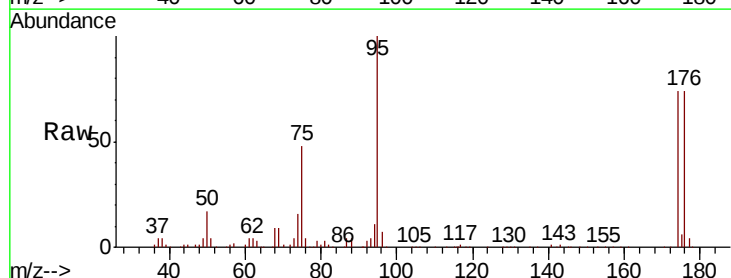
Tgt Ion: 95 Resp: 109488

Ion Ratio Lower Upper

95 100

174 72.0 0.0 143.4

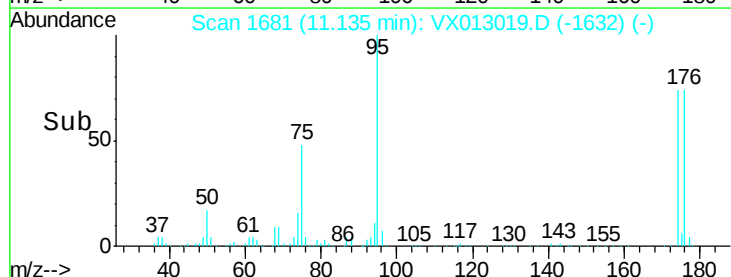
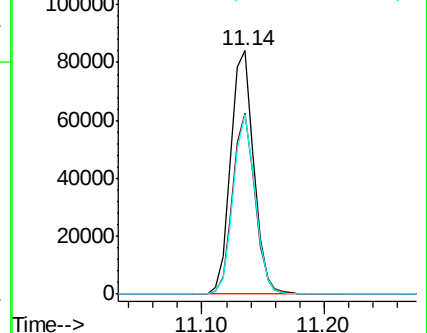
176 70.2 0.0 136.0

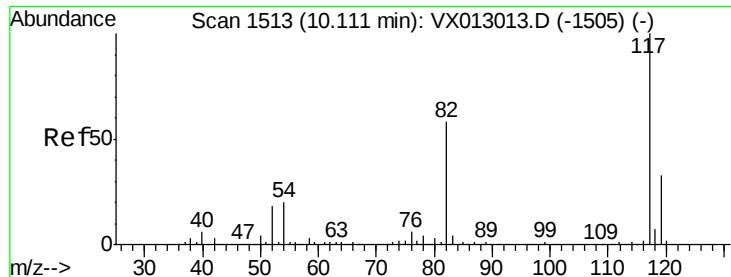


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

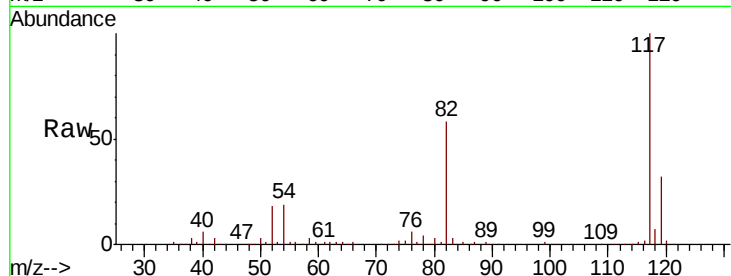




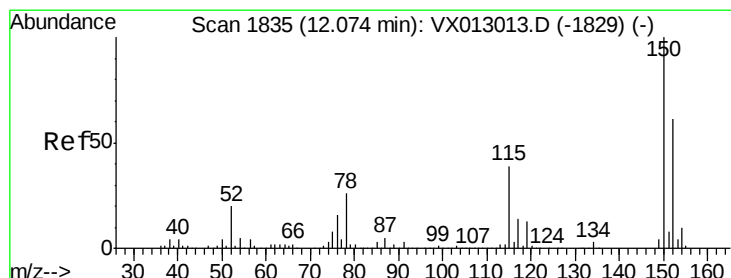
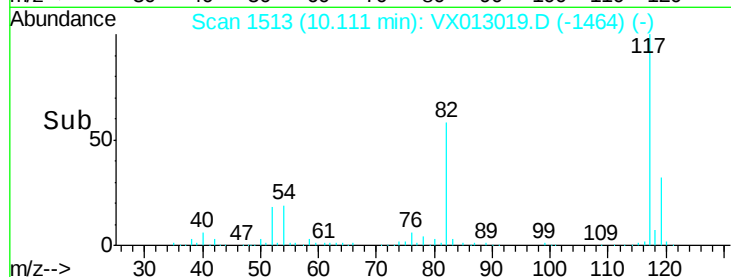
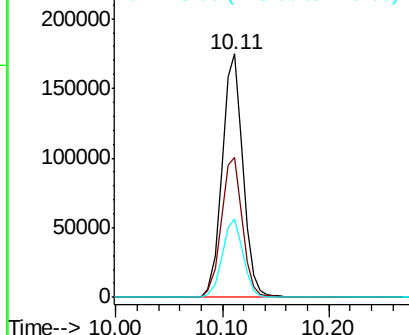
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013019.D
Acq: 11 Oct 2019 16:20

Instrument :
MSVOA_X
ClientSampleId :
391009761-TRIP-BLANK

Tot Ion:117 Resp: 239299
Ion Ratio Lower Upper
117 100
82 57.5 44.1 66.1
119 32.1 25.8 38.8

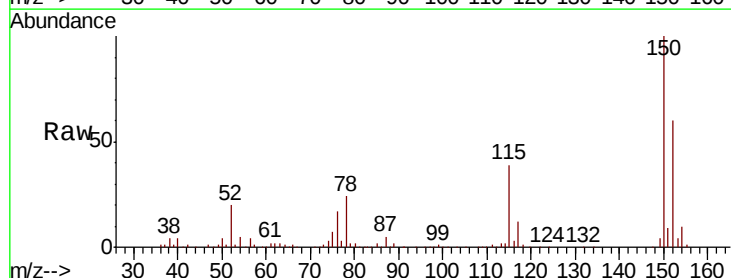


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

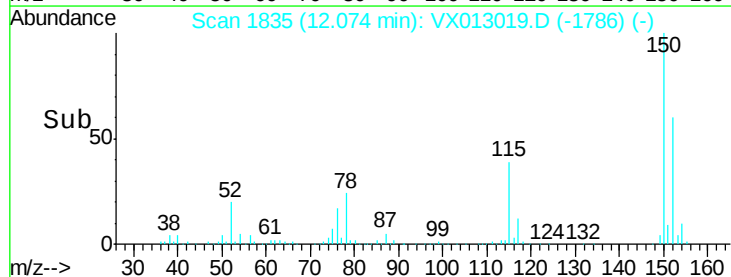
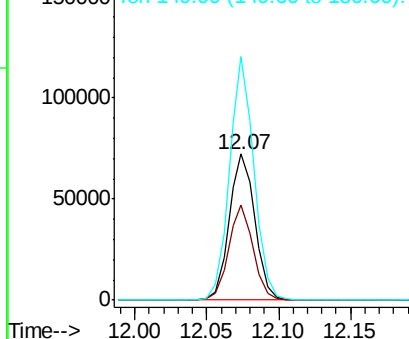


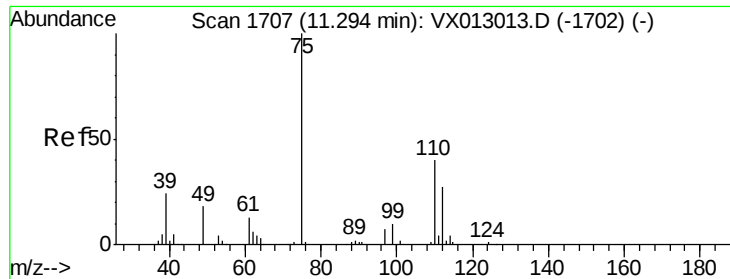
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013019.D
Acq: 11 Oct 2019 16:20

Tgt Ion:152 Resp: 90401
Ion Ratio Lower Upper
152 100
115 62.4 44.5 133.5
150 159.4 0.0 353.4



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

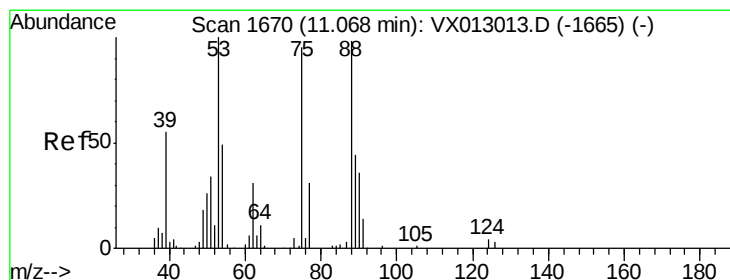
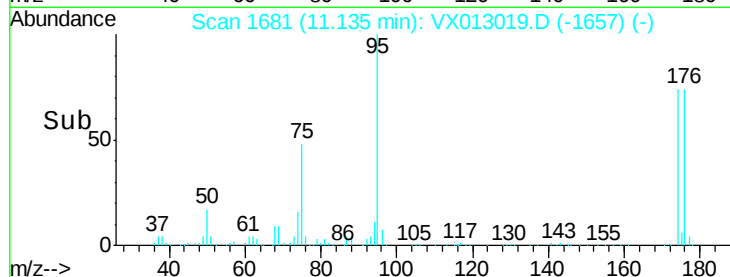
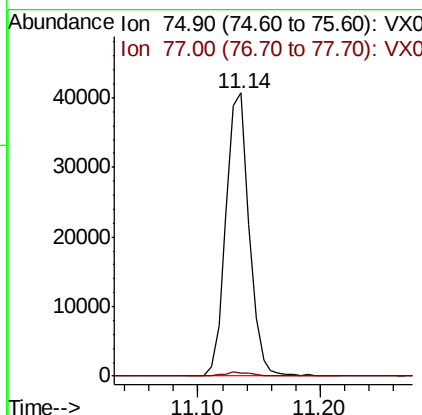
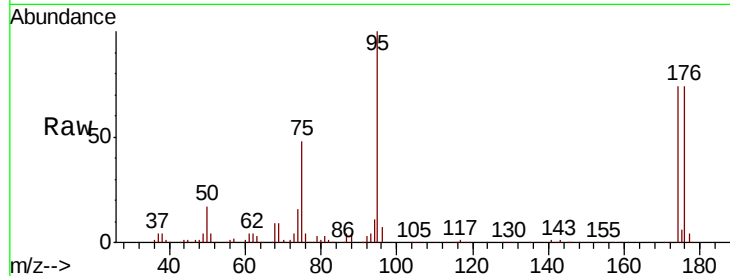




#76
 1,2,3-Trichloropropane
 Concen: 26.618 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.15 min
 Lab File: VX013019.D
 Acq: 11 Oct 2019 16:20

Instrument :
 MSVOA_X
 ClientSampleId :
 391009761-TRIP-BLANK

Tot Ion: 75 Resp: 53371
 Ion Ratio Lower Upper
 75 100
 77 1.5 22.9 68.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.940 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.07 min
 Lab File: VX013019.D
 Acq: 11 Oct 2019 16:20

Tgt Ion: 75 Resp: 53371
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 37.4 56.2#

