

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101019\
 Data File : VX012993.D
 Acq On : 10 Oct 2019 14:10
 Operator : JC/SP
 Sample : K5290-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JBW7213A

Quant Time: Oct 11 04:36:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	174242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	288505	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	239038	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	85362	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	113964	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
35) Dibromofluoromethane	5.49	113	86033	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	
50) Toluene-d8	8.71	98	336965	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
62) 4-Bromofluorobenzene	11.14	95	106840	42.58	ug/l	0.00
Spiked Amount			Recovery	=	85.16%	

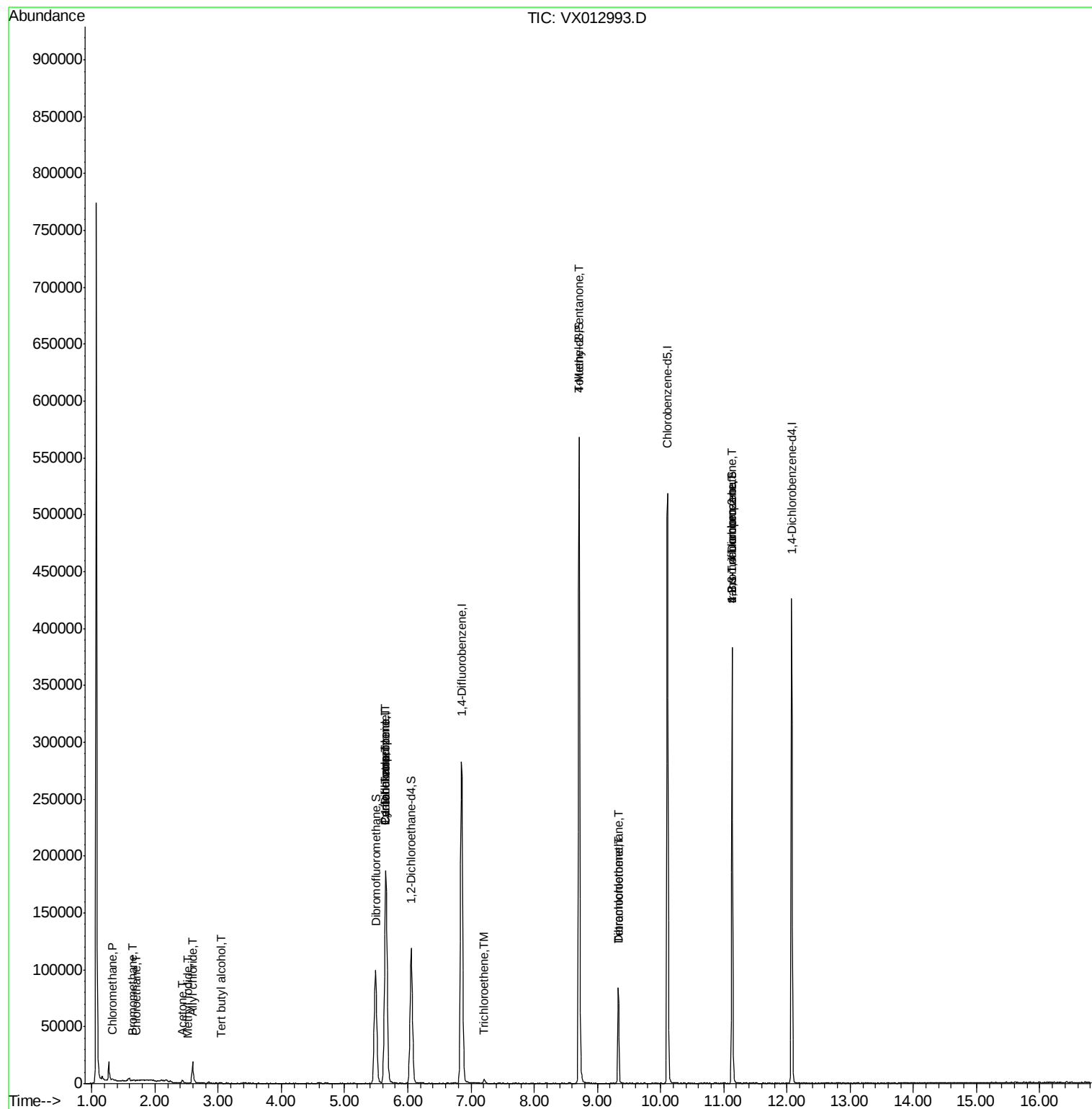
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	462	0.239	ug/l #	81
5) Bromomethane	1.64	94	255	0.307	ug/l	82
6) Chloroethane	1.70	64	974	1.161	ug/l #	87
10) Methyl Iodide	2.51	142	23	5.092	ug/l #	40
11) Tert butyl alcohol	3.04	59	731	1.266	ug/l #	72
14) Allyl chloride	2.59	41	1915	0.611	ug/l #	61
16) Acetone	2.43	43	2658	2.315	ug/l	94
31) Cyclohexane	5.65	56	4068	1.287	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14161	5.583	ug/l #	50
38) Carbon Tetrachloride	5.65	117	18381	7.445	ug/l #	17
44) Trichloroethene	7.21	130	1471	0.708	ug/l	91
51) 4-Methyl-2-Pentanone	8.71	43	1555	0.548	ug/l #	1
60) Dibromochloromethane	9.33	129	15335	8.852	ug/l #	10
64) Tetrachloroethene	9.33	164	15151	9.138	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	54284	28.671	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	54284	71.790	ug/l #	10

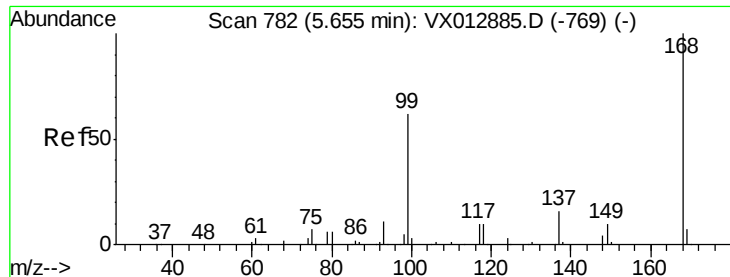
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX012993.D

Acq: 10 Oct 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

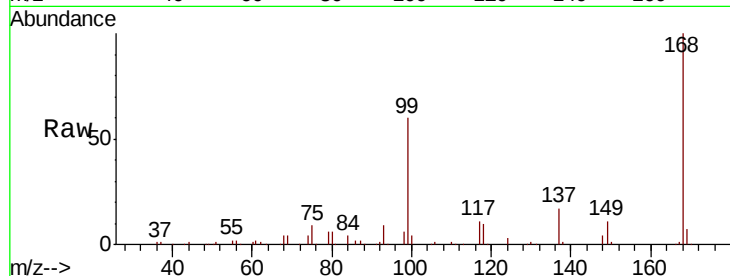
FA19-JBW7213A

Tot Ion:168 Resp: 174242

Ion Ratio Lower Upper

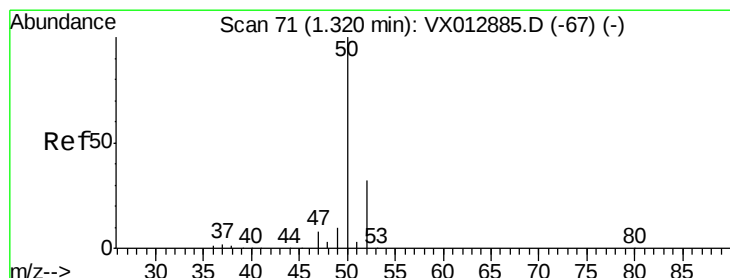
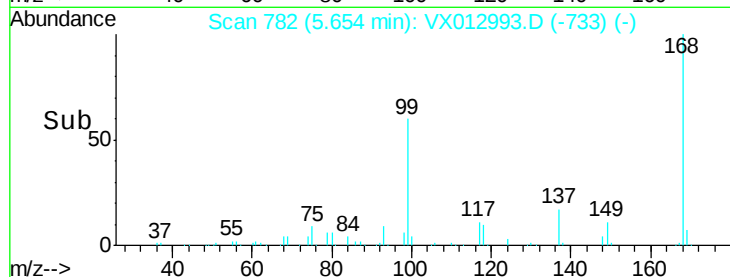
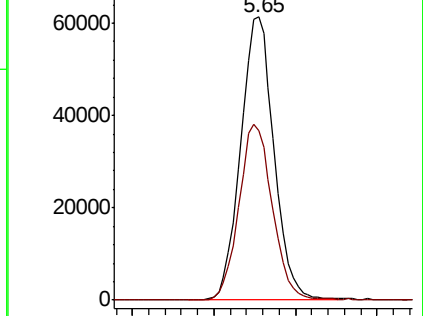
168 100

99 60.1 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.239 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012993.D

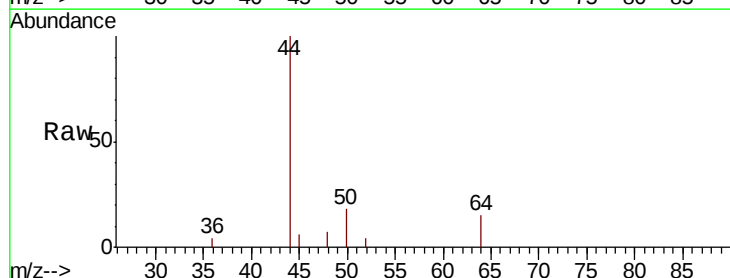
Acq: 10 Oct 2019 14:10

Tgt Ion: 50 Resp: 462

Ion Ratio Lower Upper

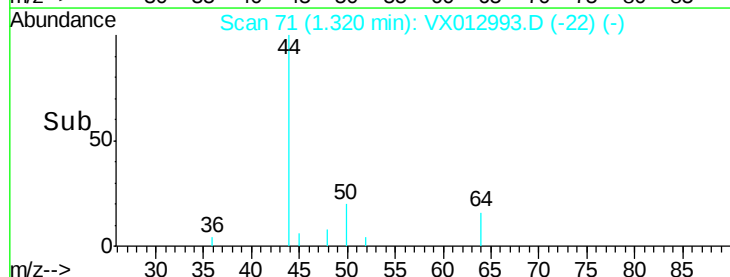
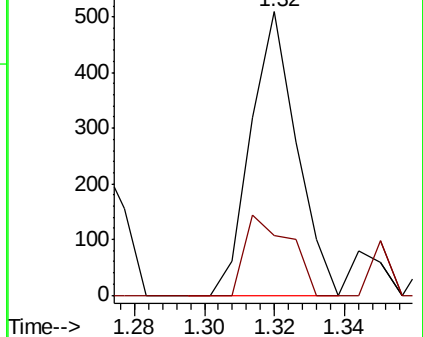
50 100

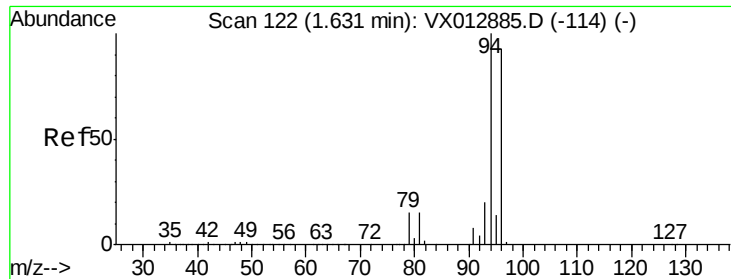
52 21.2 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.307 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX012993.D

Acq: 10 Oct 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

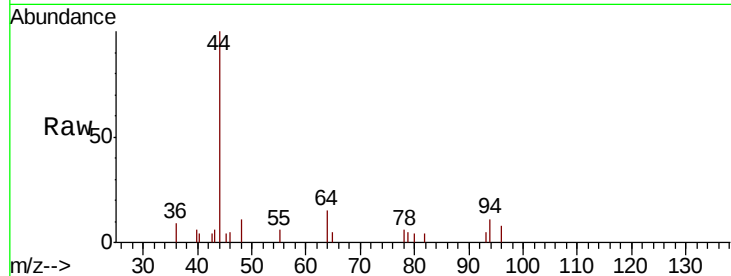
FA19-JBW7213A

Tot Ion: 94 Resp: 255

Ion Ratio Lower Upper

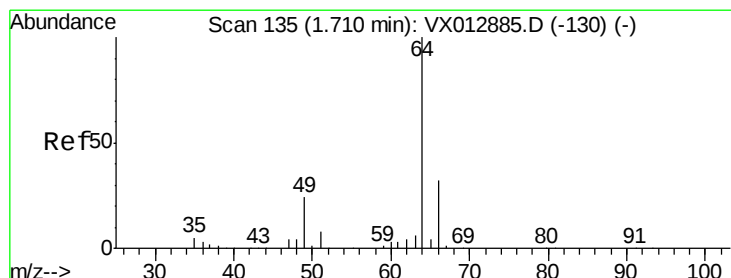
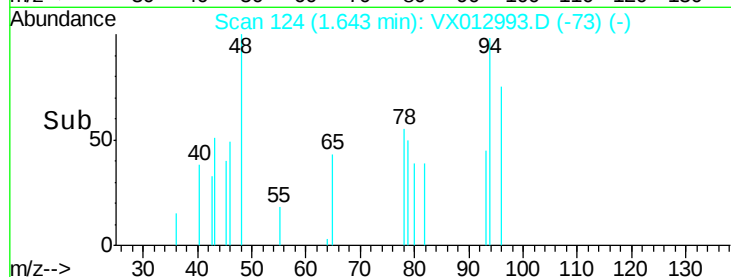
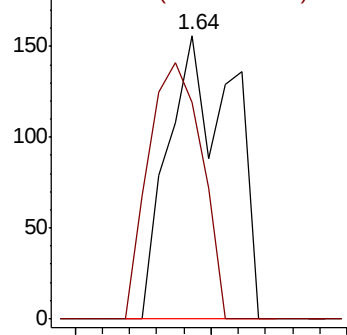
94 100

96 76.3 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: 1.161 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX012993.D

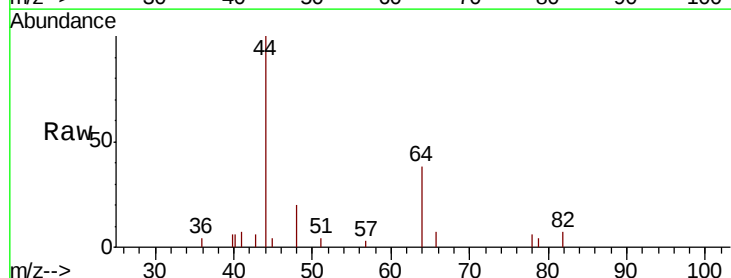
Acq: 10 Oct 2019 14:10

Tgt Ion: 64 Resp: 974

Ion Ratio Lower Upper

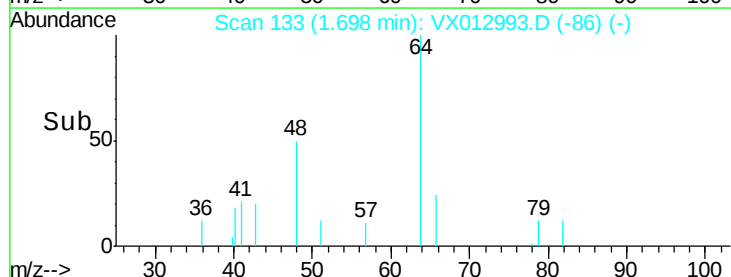
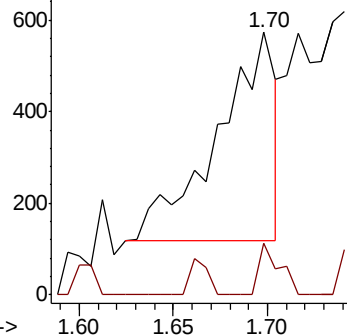
64 100

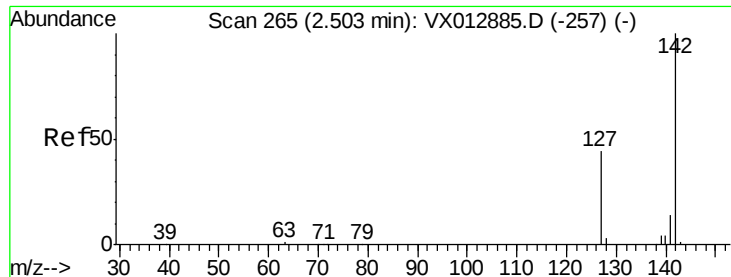
66 24.6 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

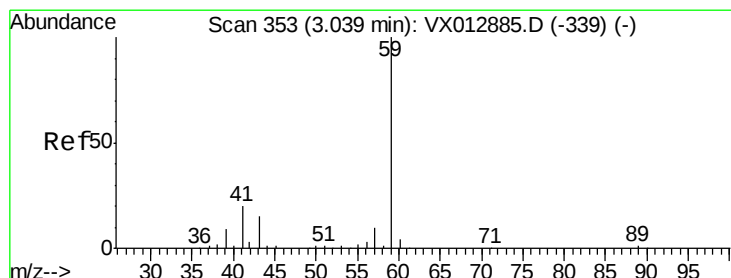
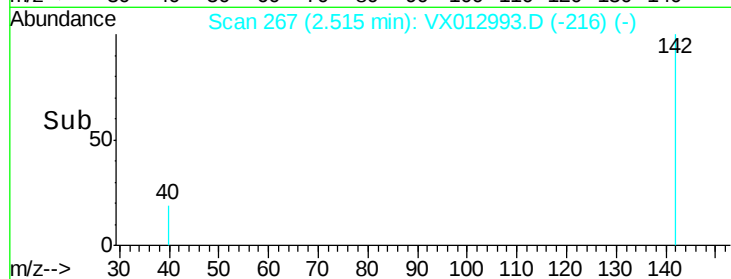
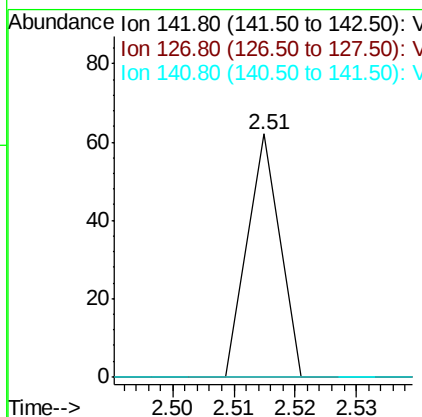
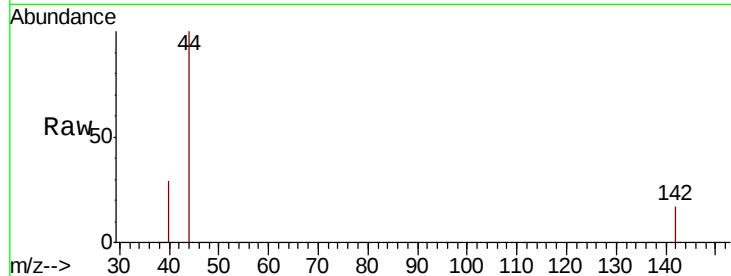




#10
Methvl Iodide
Concen: 5.092 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX012993.D
Acq: 10 Oct 2019 14:10

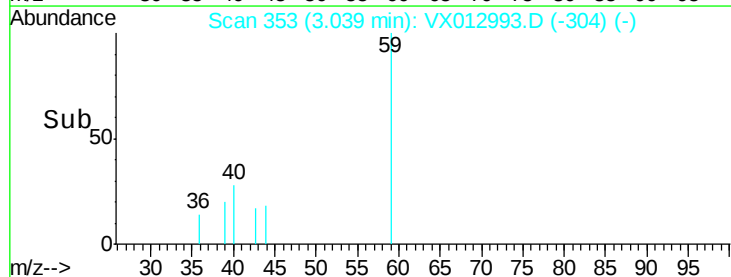
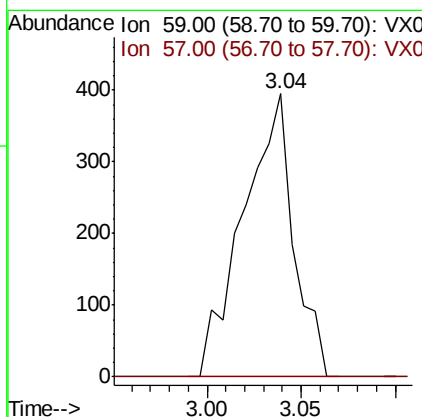
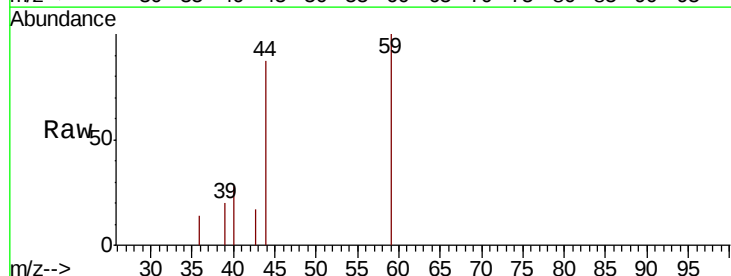
Instrument :
MSVOA_X
ClientSampleId :
FA19-JBW7213A

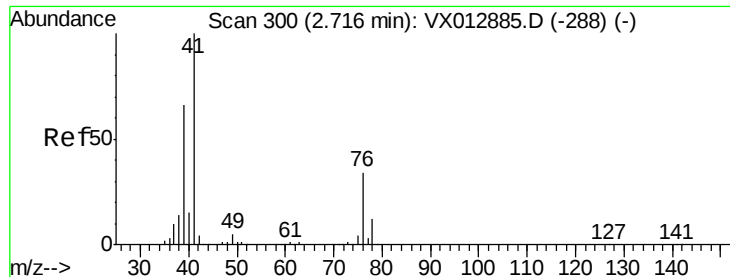
Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	34.9	52.3#
141	0.0	11.6	17.4#



#11
Tert butyl alcohol
Concen: 1.266 ug/l
RT: 3.04 min Scan# 353
Delta R.T. -0.00 min
Lab File: VX012993.D
Acq: 10 Oct 2019 14:10

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#

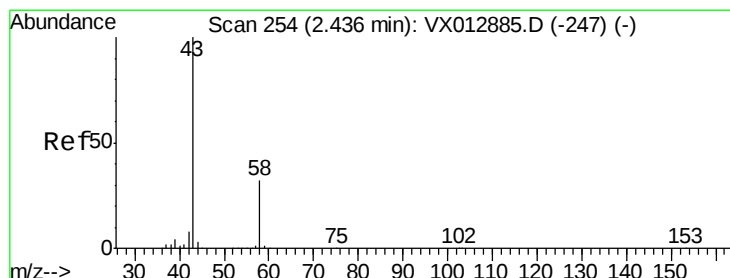
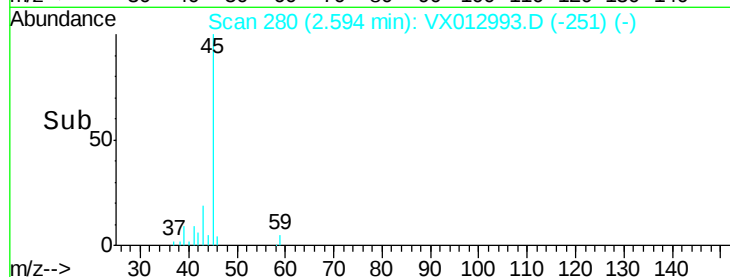
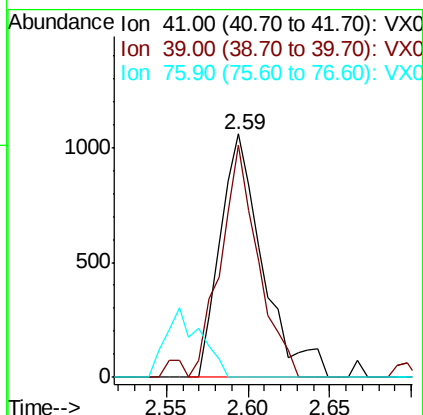
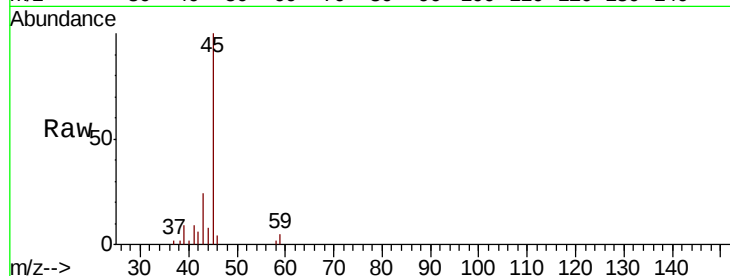




#14
Allvl chloride
Concen: 0.611 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.12 min
Lab File: VX012993.D
Acq: 10 Oct 2019 14:10

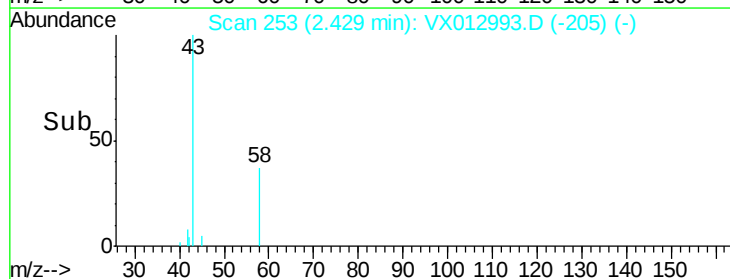
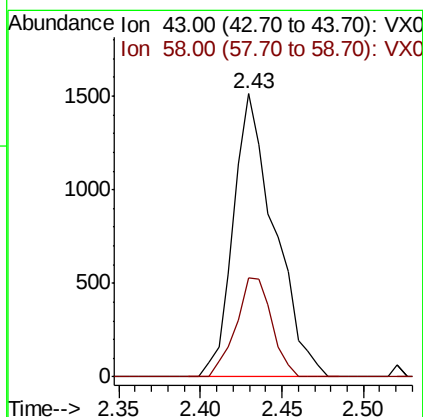
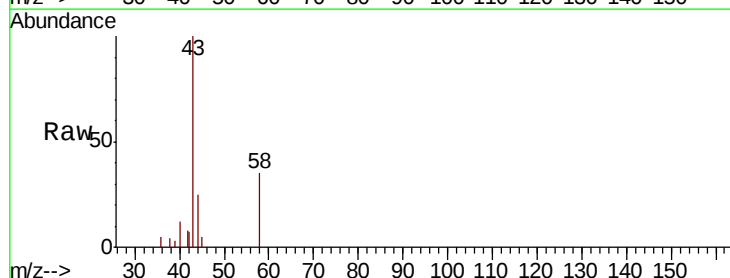
Instrument :
MSVOA_X
ClientSampleId :
FA19-JBW7213A

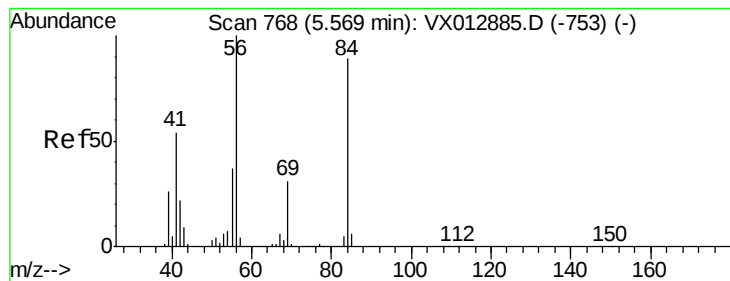
Tot Ion	Ratio	Lower	Upper
41	100		
39	86.7	51.0	76.6#
76	0.0	26.2	39.4#



#16
Acetone
Concen: 2.315 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX012993.D
Acq: 10 Oct 2019 14:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.1	25.4	38.2





#31

Cyclohexane

Concen: 1.287 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX012993.D

Acq: 10 Oct 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

FA19-JBW7213A

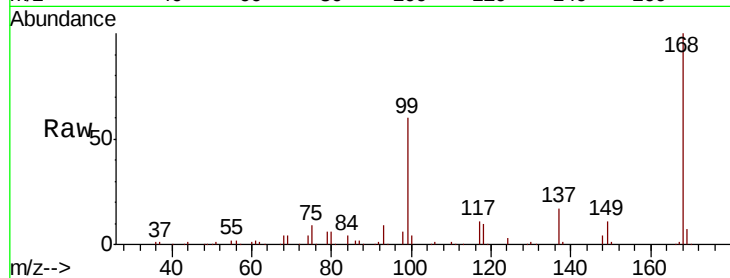
Tot Ion: 56 Resp: 4068

Ion Ratio Lower Upper

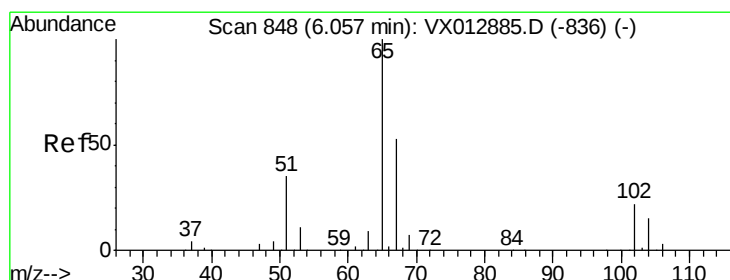
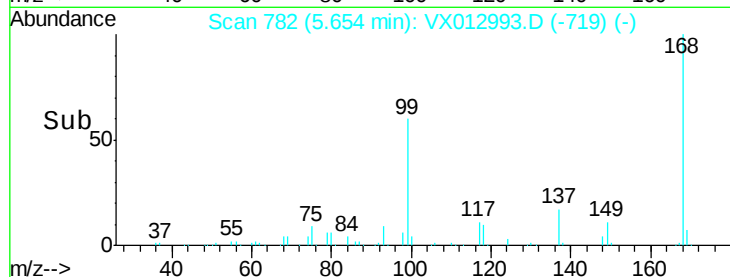
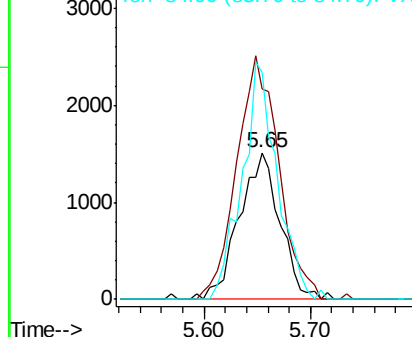
56 100

69 143.6 25.2 37.8#

84 154.5 71.3 106.9#



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: 52.330 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX012993.D

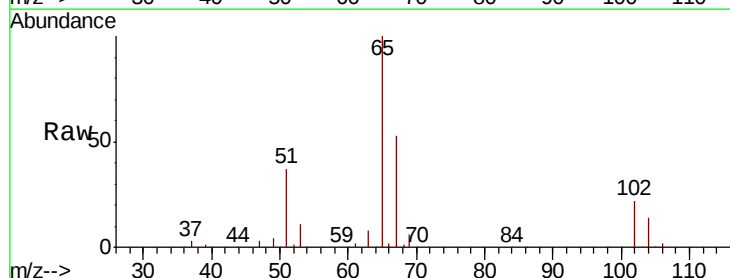
Acq: 10 Oct 2019 14:10

Tgt Ion: 65 Resp: 113964

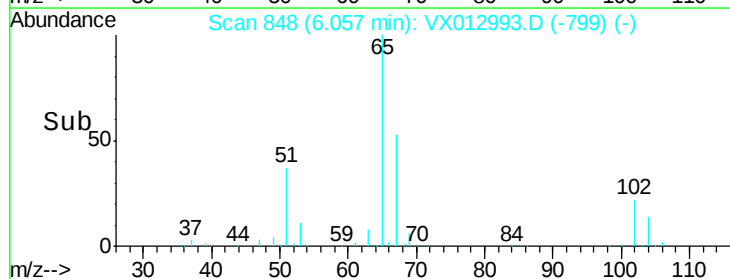
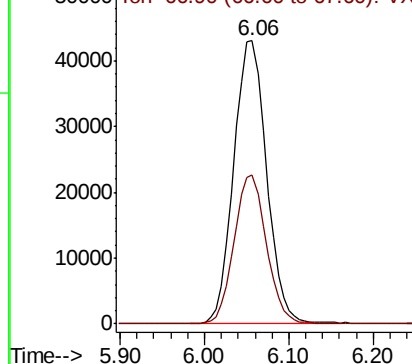
Ion Ratio Lower Upper

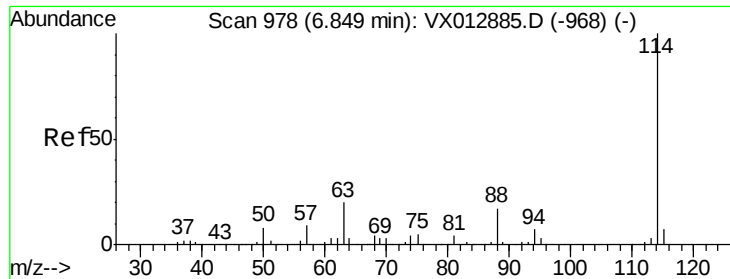
65 100

67 51.4 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

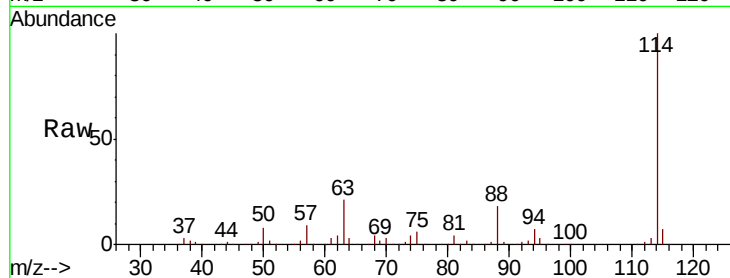




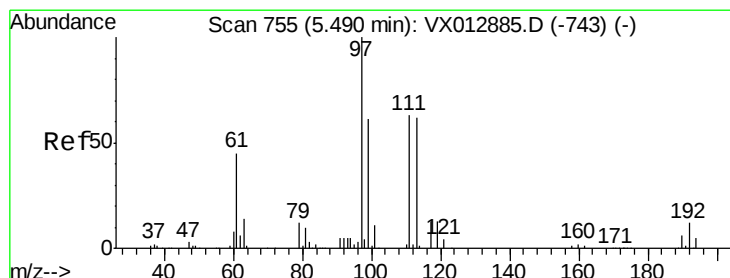
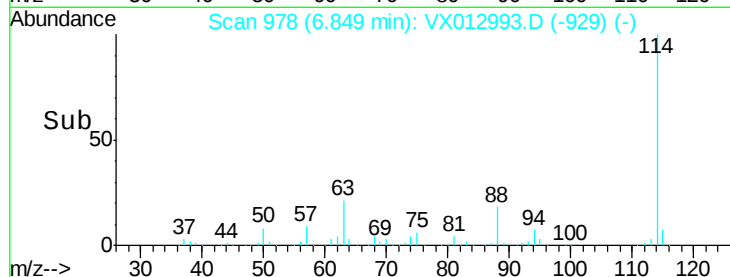
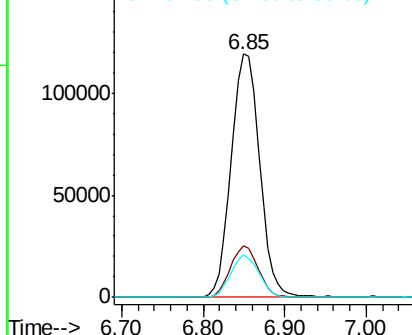
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX012993.D
Acq: 10 Oct 2019 14:10

Instrument :
MSVOA_X
ClientSampleId :
FA19-JBW7213A

Tot Ion:114 Resp: 288505
Ion Ratio Lower Upper
114 100
63 21.4 0.0 40.8
88 17.5 0.0 33.8

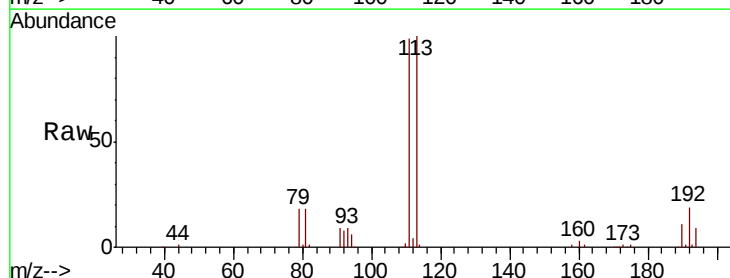


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

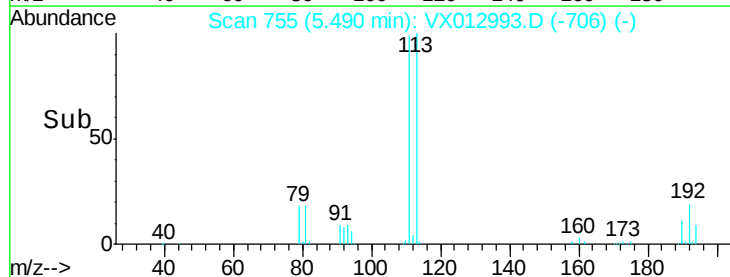
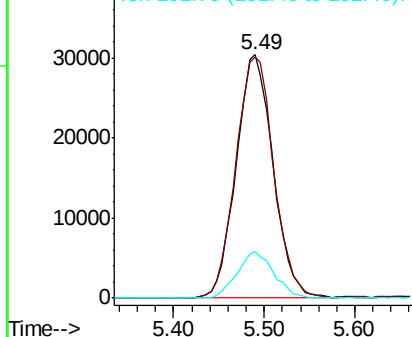


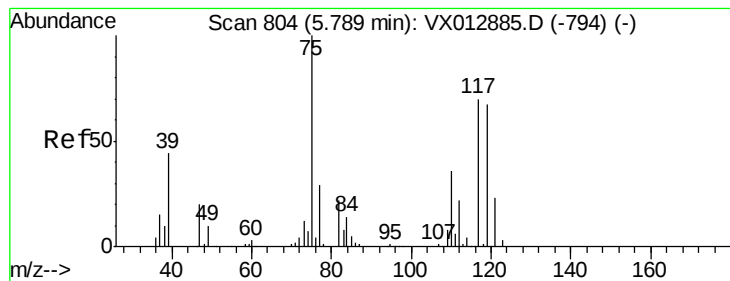
#35
Dibromofluoromethane
Concen: 51.956 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX012993.D
Acq: 10 Oct 2019 14:10

Tgt Ion:113 Resp: 86033
Ion Ratio Lower Upper
113 100
111 101.9 83.2 124.8
192 18.9 15.4 23.2



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: 5.583 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012993.D

Acq: 10 Oct 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

FA19-JBW7213A

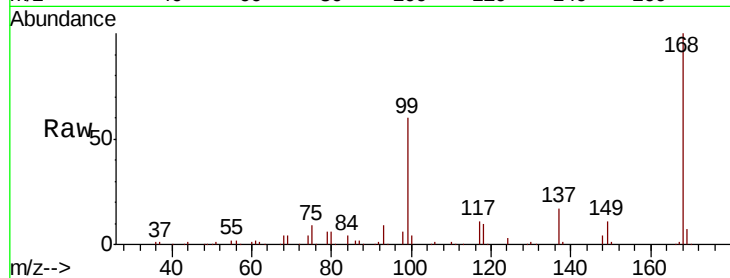
Tot Ion: 75 Resp: 14161

Ion Ratio Lower Upper

75 100

110 9.7 17.6 52.9#

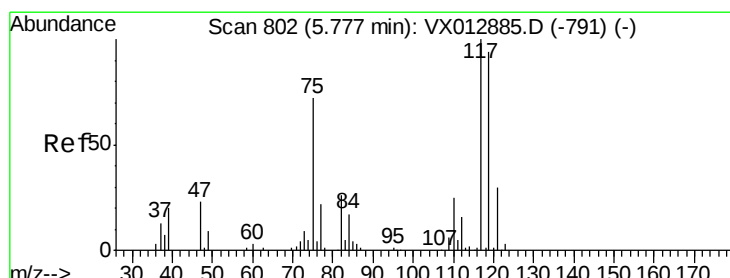
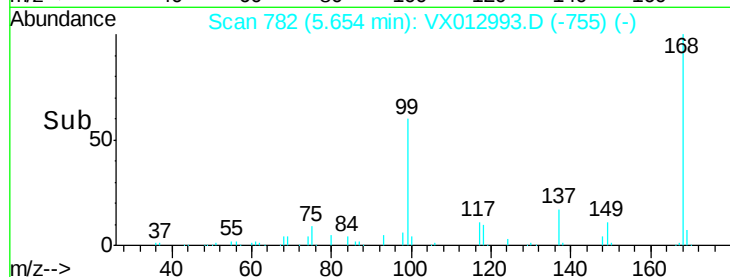
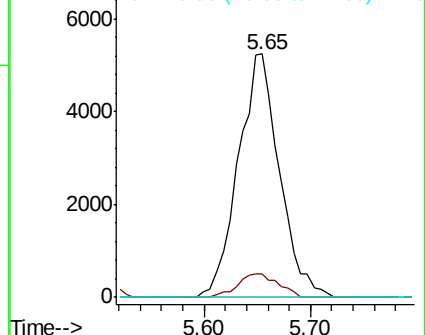
77 0.0 24.4 36.6#



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: 7.445 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012993.D

Acq: 10 Oct 2019 14:10

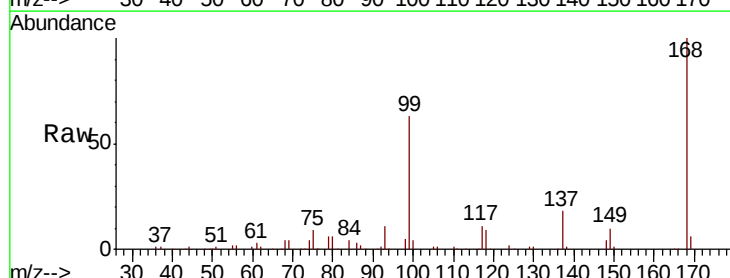
Tgt Ion: 117 Resp: 18381

Ion Ratio Lower Upper

117 100

119 4.3 74.5 111.7#

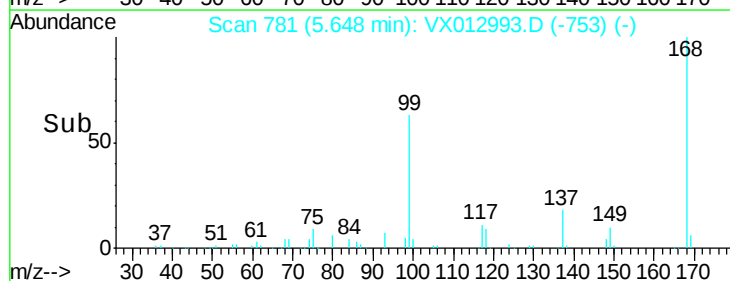
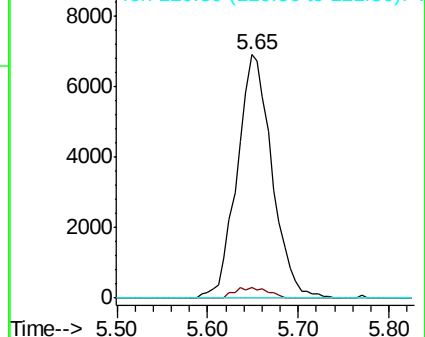
121 0.0 24.2 36.4#

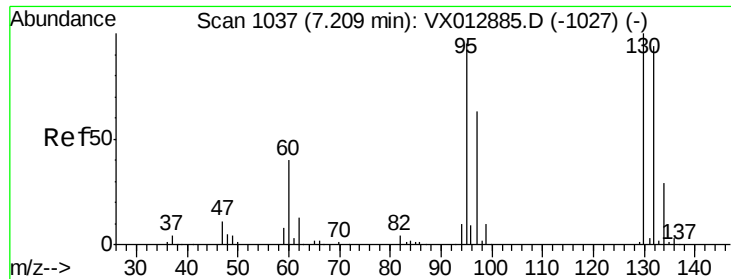


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.708 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX012993.D

Acq: 10 Oct 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

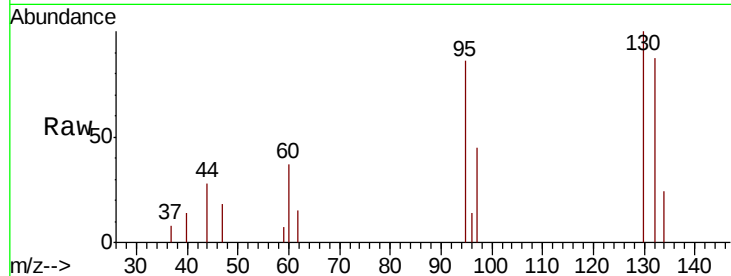
FA19-JBW7213A

Tot Ion:130 Resp: 1471

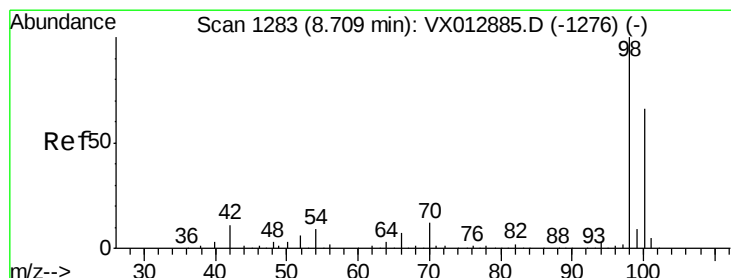
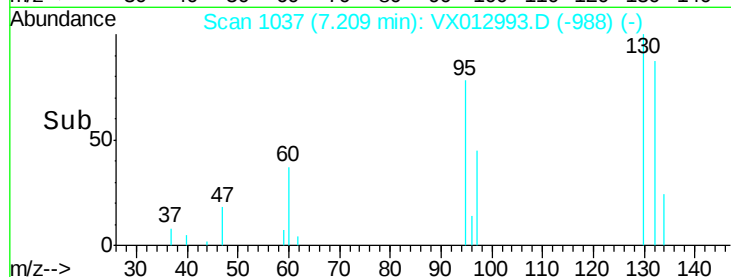
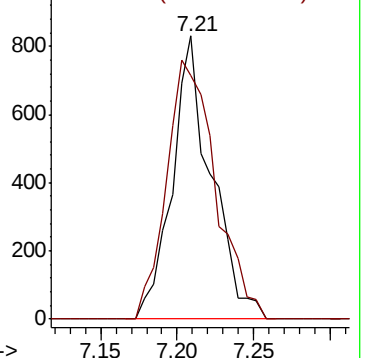
Ion Ratio Lower Upper

130 100

95 86.0 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 52.176 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012993.D

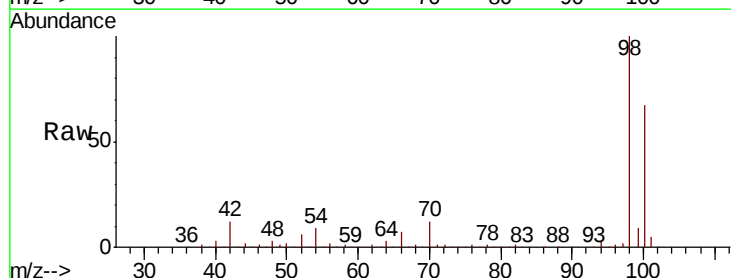
Acq: 10 Oct 2019 14:10

Tgt Ion: 98 Resp: 336965

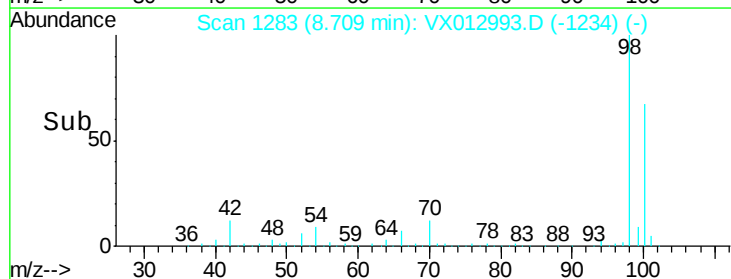
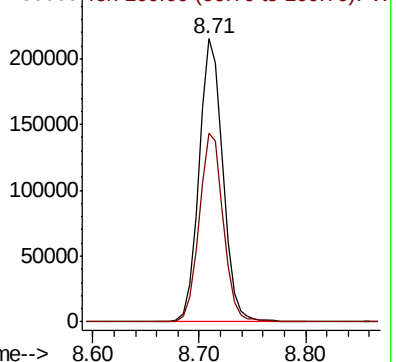
Ion Ratio Lower Upper

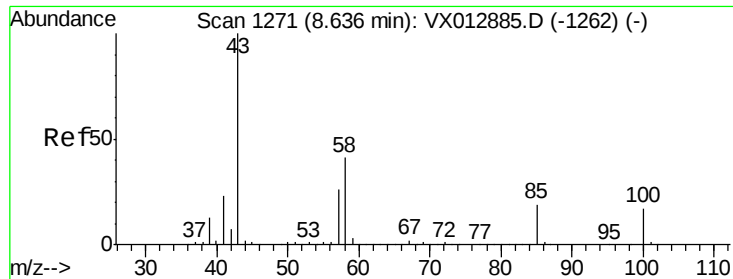
98 100

100 67.5 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.548 ug/l

RT: 8.71 min Scan# 1284

Delta R.T. 0.08 min

Lab File: VX012993.D

Acq: 10 Oct 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

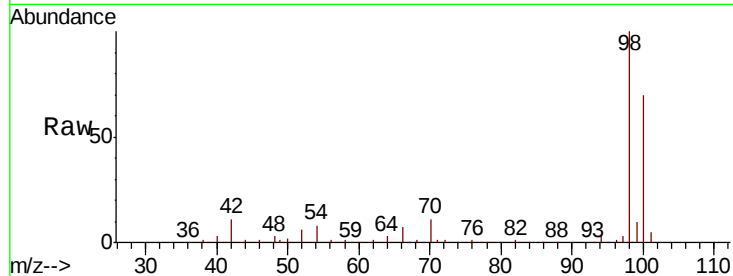
FA19-JBW7213A

Tot Ion: 43 Resp: 1555

Ion Ratio Lower Upper

43 100

58 181.0 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX012885.D (-1262) (-)

Ion 58.00 (57.70 to 58.70): VX012885.D (-1262) (-)

2000

1500

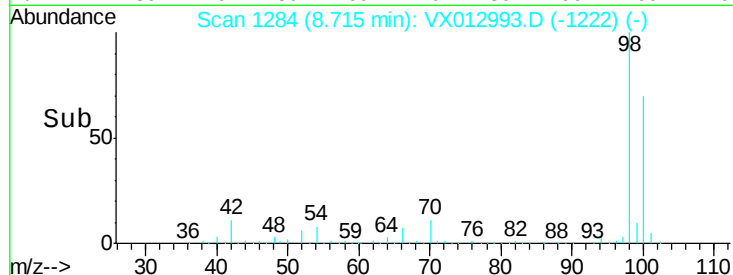
1000

500

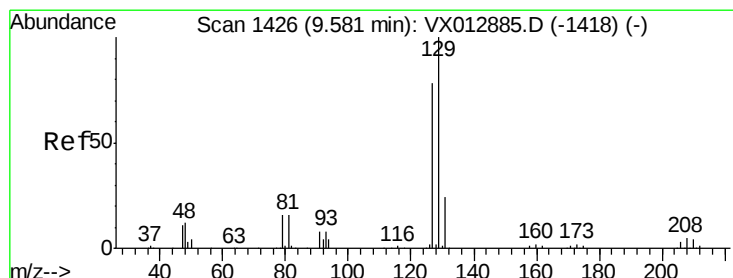
0

8.65 8.70 8.75 8.80

8.71



Time-->



#60

Dibromochloromethane

Concen: 8.852 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012993.D

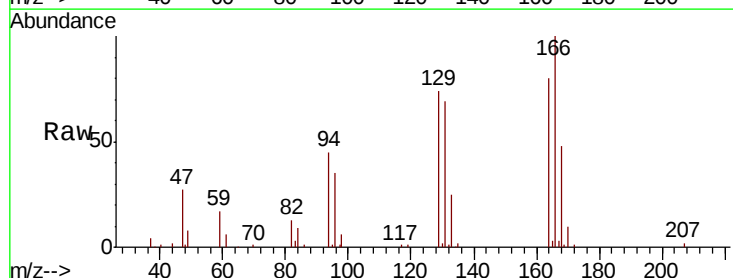
Acq: 10 Oct 2019 14:10

Tgt Ion: 129 Resp: 15335

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): VX012885.D (-1418) (-)

Ion 126.80 (126.50 to 127.50): VX012885.D (-1418) (-)

12000

10000

8000

6000

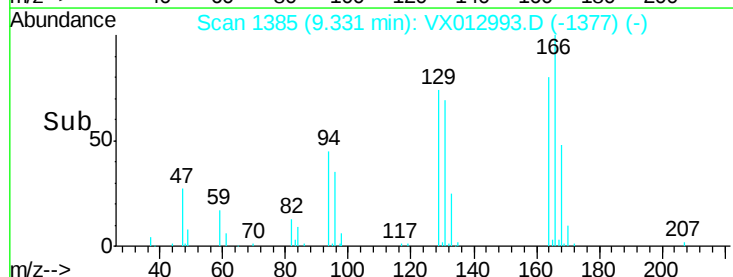
4000

2000

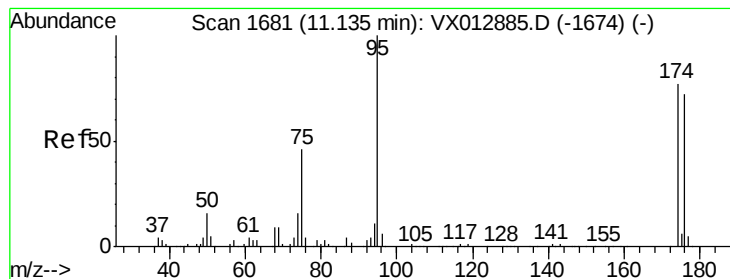
0

9.30 9.35 9.40

9.33



Time-->



#62

4-Bromofluorobenzene

Concen: 42.576 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012993.D

Acq: 10 Oct 2019 14:10

Instrument :

MSVOA_X

ClientSampleId :

FA19-JBW7213A

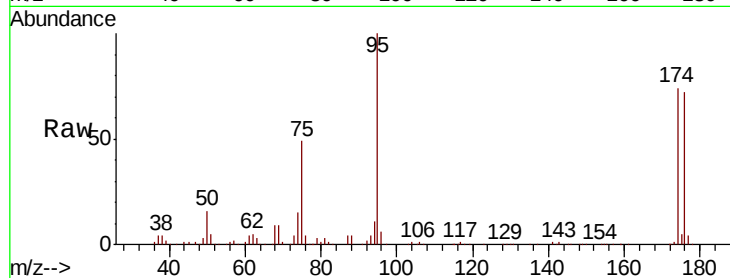
Tot Ion: 95 Resp: 106840

Ion Ratio Lower Upper

95 100

174 72.6 0.0 143.4

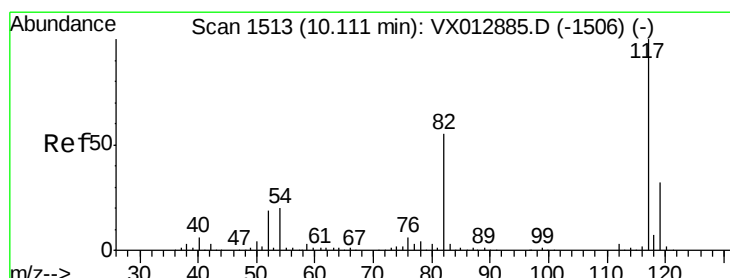
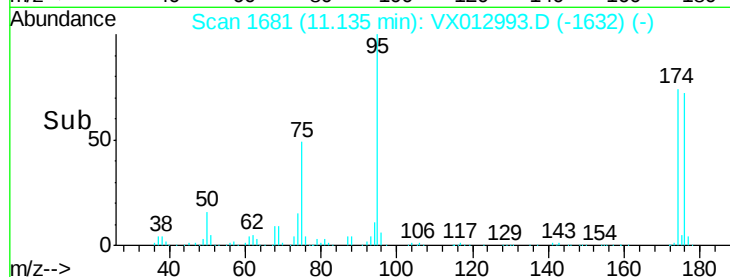
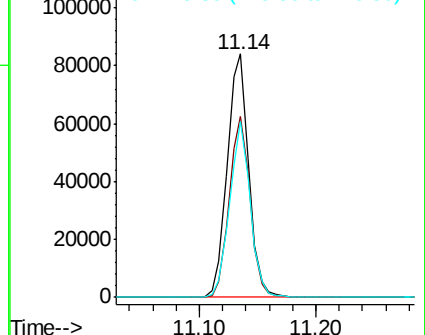
176 69.7 0.0 136.0



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: VX012993.D

Acq: 10 Oct 2019 14:10

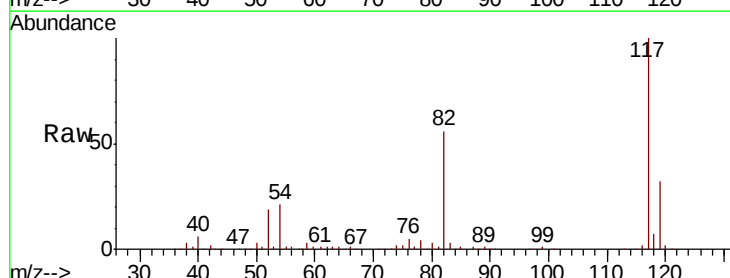
Tgt Ion: 117 Resp: 239038

Ion Ratio Lower Upper

117 100

82 55.6 44.1 66.1

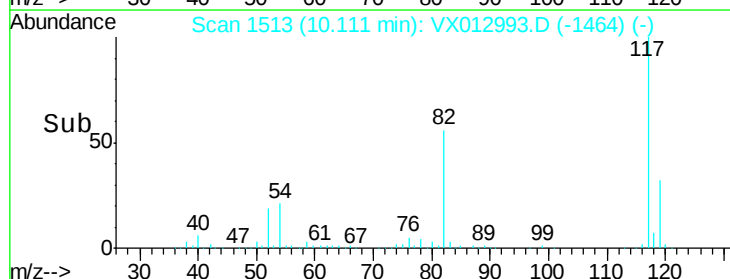
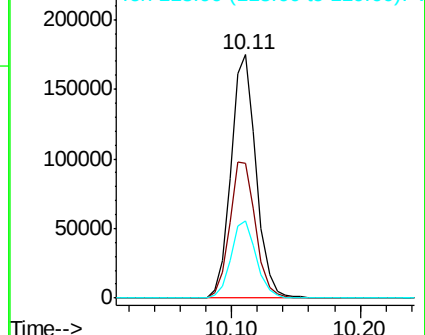
119 31.6 25.8 38.8

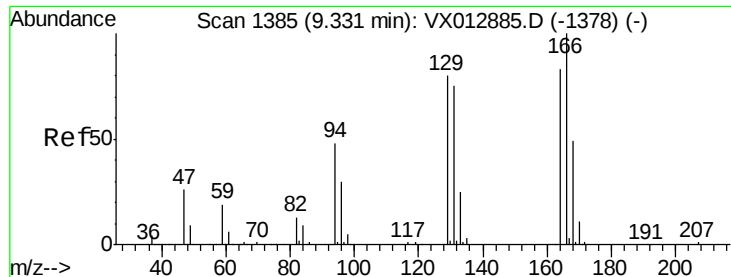


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

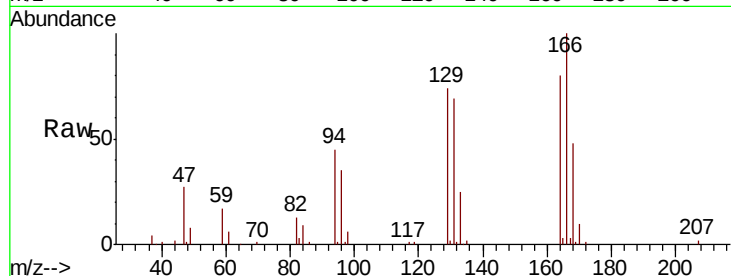




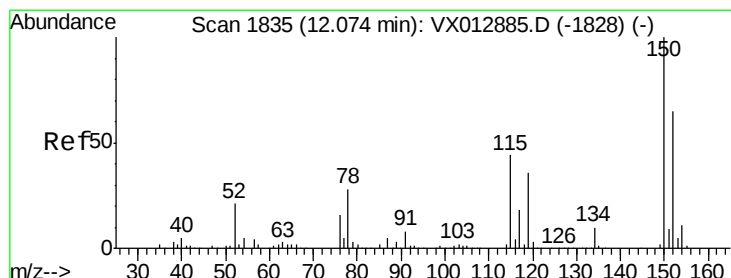
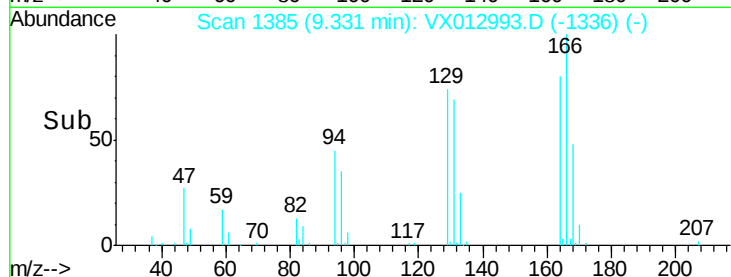
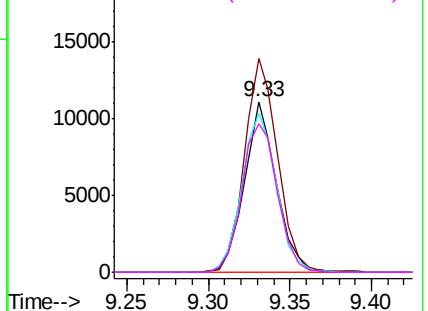
#64
Tetrachloroethene
Concen: 9.138 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX012993.D
Acq: 10 Oct 2019 14:10

Instrument :
MSVOA_X
ClientSampleId :
FA19-JBW7213A

Tot Ion:	164	Resp:	15151
Ion	Ratio	Lower	Upper
164	100		
166	125.0	96.9	145.3
129	93.0	77.9	116.9
131	86.6	72.7	109.1

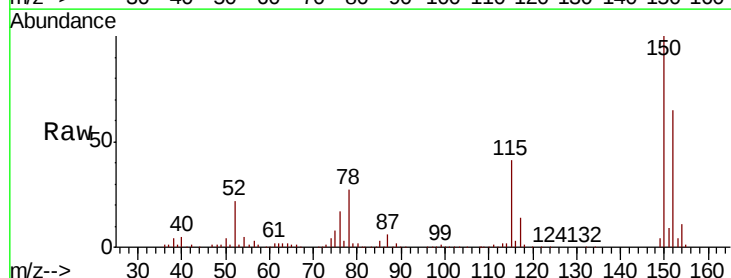


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

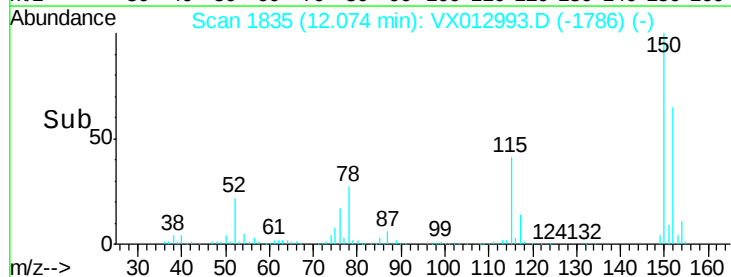
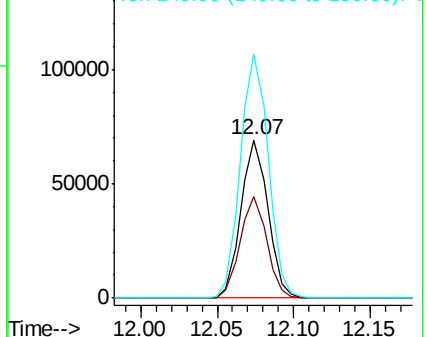


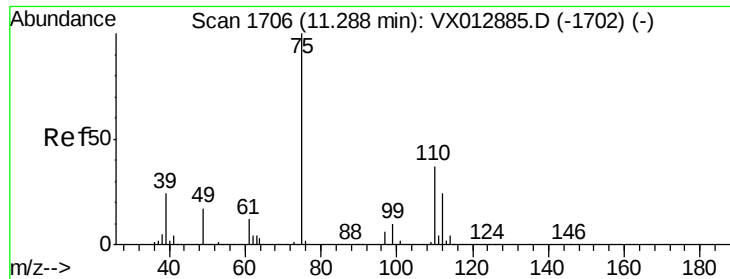
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012993.D
Acq: 10 Oct 2019 14:10

Tgt Ion:	152	Resp:	85362
Ion	Ratio	Lower	Upper
152	100		
115	63.2	44.5	133.5
150	159.1	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

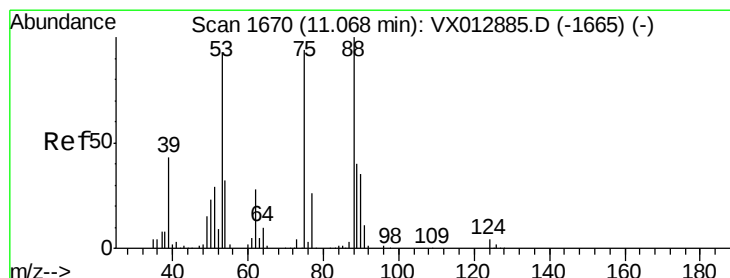
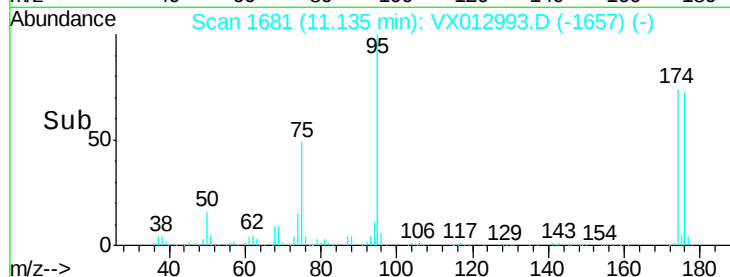
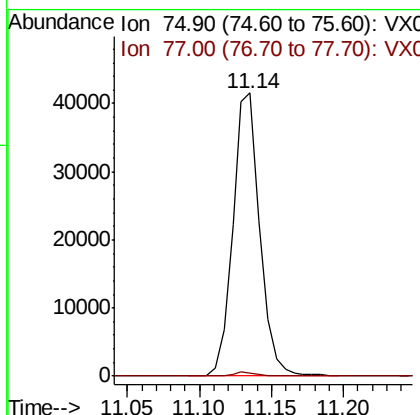
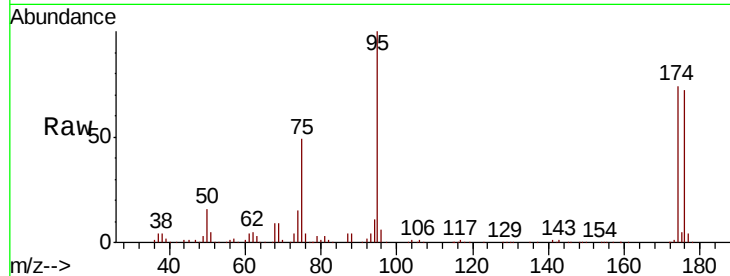




#76
 1,2,3-Trichloropropane
 Concen: 28.671 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.15 min
 Lab File: VX012993.D
 Acq: 10 Oct 2019 14:10

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JBW7213A

Tot Ion: 75 Resp: 54284
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.9 68.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.790 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.07 min
 Lab File: VX012993.D
 Acq: 10 Oct 2019 14:10

Tgt Ion: 75 Resp: 54284
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 37.4 56.2#

