

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101819\
 Data File : VX013134.D
 Acq On : 18 Oct 2019 17:54
 Operator : JC/SP
 Sample : K5451-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JBW7326A

Quant Time: Oct 18 23:59:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:26:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	166838	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	264987	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	226996	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	90552	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	102621	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
35) Dibromofluoromethane	5.49	113	80304	52.80	ug/l	0.00
Spiked Amount			Recovery	=	105.60%	
50) Toluene-d8	8.71	98	310251	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
62) 4-Bromofluorobenzene	11.13	95	104528	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	

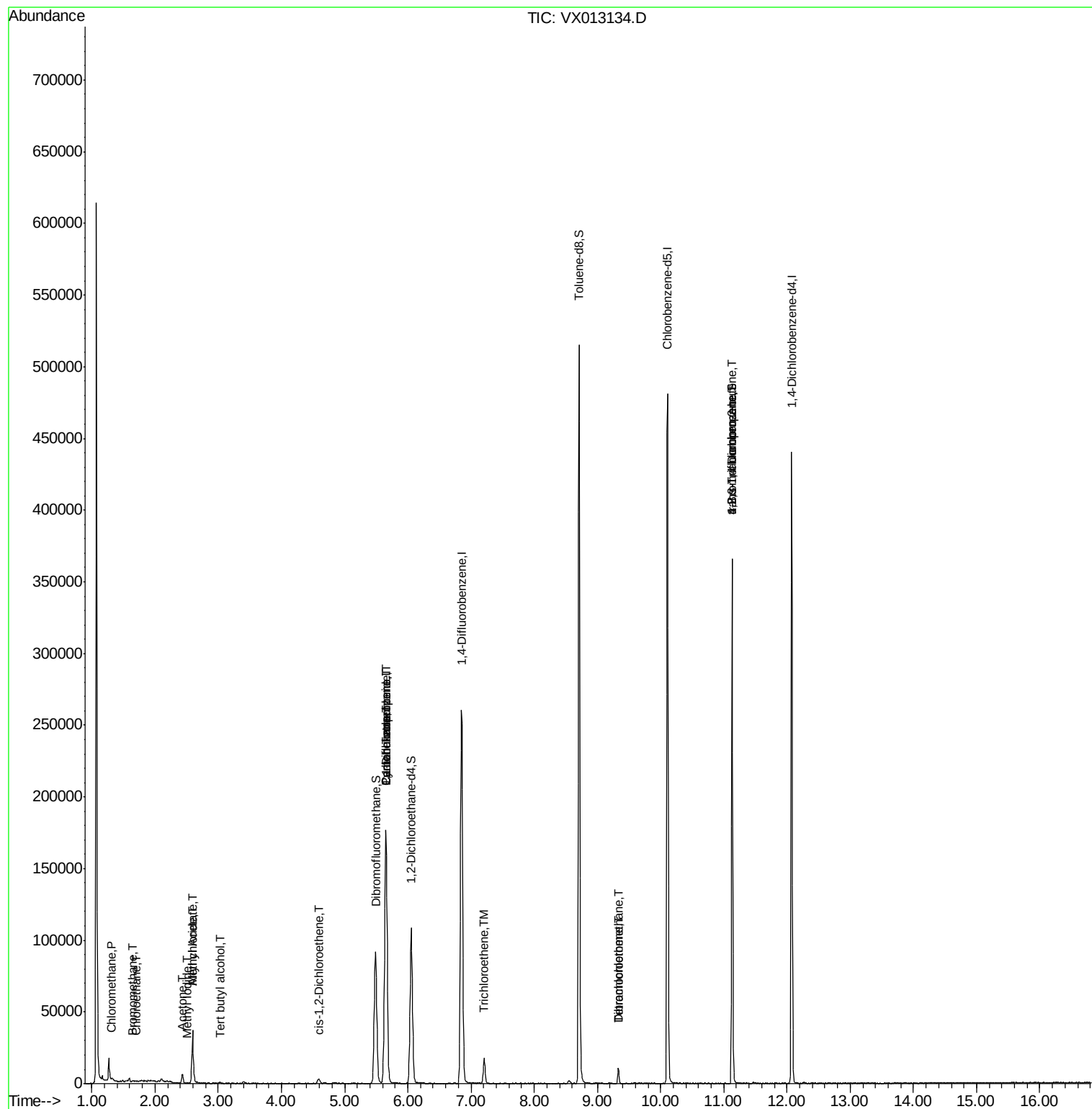
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	952	0.514	ug/l	98
5) Bromomethane	1.64	94	216	0.272	ug/l	89
6) Chloroethane	1.70	64	492	0.786	ug/l #	43
10) Methyl Iodide	2.51	142	22	5.092	ug/l #	40
11) Tert butyl alcohol	3.03	59	947	1.713	ug/l #	72
14) Allyl chloride	2.59	41	3757	1.251	ug/l #	63
16) Acetone	2.44	43	6439	5.858	ug/l	96
18) Methyl Acetate	2.59	43	9516	3.653	ug/l #	51
27) cis-1,2-Dichloroethene	4.59	96	2069	0.993	ug/l	92
31) Cyclohexane	5.65	56	3304	1.092	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	12633	5.422	ug/l #	51
38) Carbon Tetrachloride	5.65	117	17042	7.515	ug/l #	16
44) Trichloroethene	7.20	130	7080	3.710	ug/l	93
60) Dibromochloromethane	9.33	129	1910	2.806	ug/l #	10
64) Tetrachloroethene	9.33	164	2007	1.275	ug/l #	78
76) 1,2,3-Trichloropropane	11.13	75	53424	26.600	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	53424	66.898	ug/l #	10

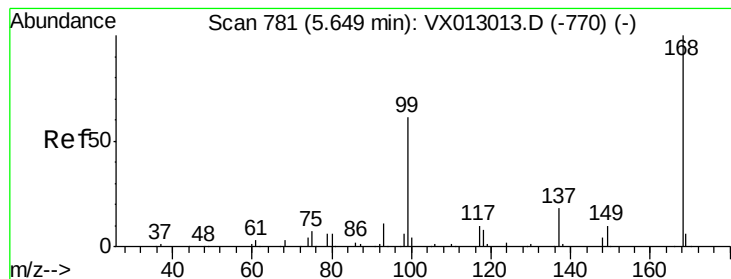
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 16 07:26:22 2019
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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: VX013134.D

Acq: 18 Oct 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

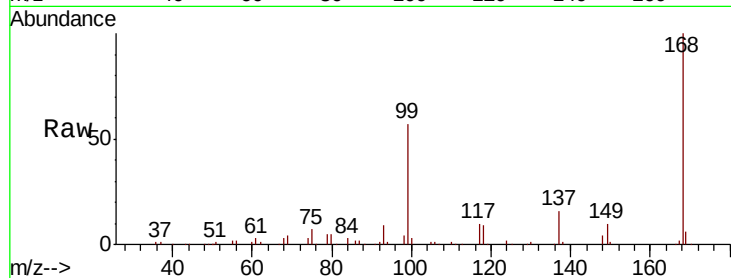
FA19-JBW7326A

Tot Ion:168 Resp: 166838

Ion Ratio Lower Upper

168 100

99 57.4 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

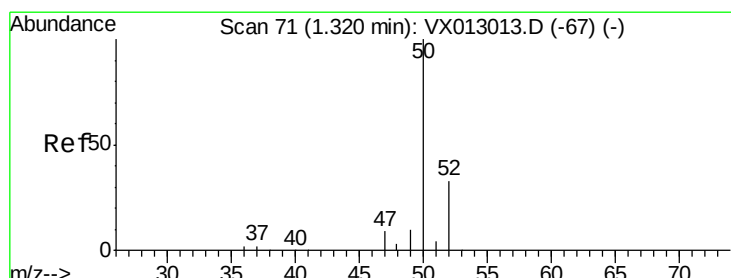
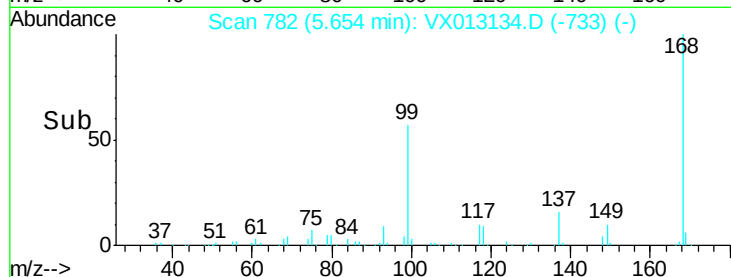
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.514 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013134.D

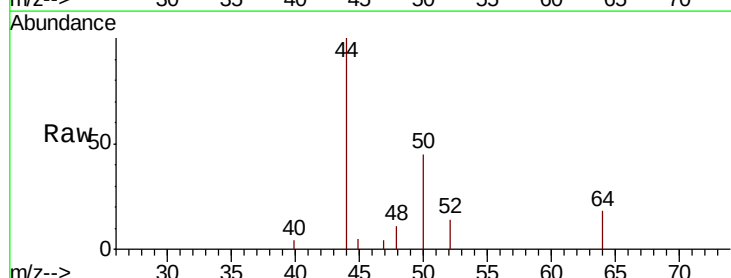
Acq: 18 Oct 2019 17:54

Tgt Ion: 50 Resp: 952

Ion Ratio Lower Upper

50 100

52 30.6 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

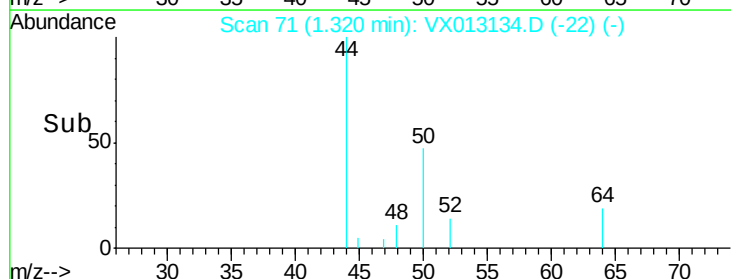
600

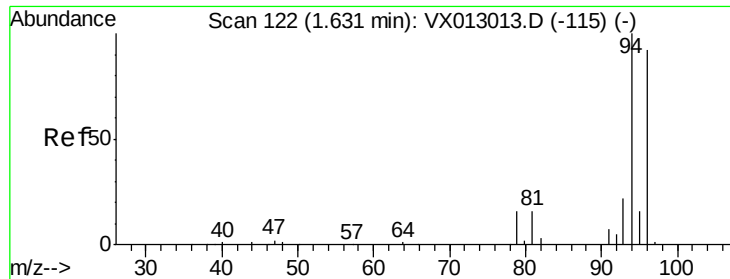
400

200

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.272 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013134.D

Acq: 18 Oct 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

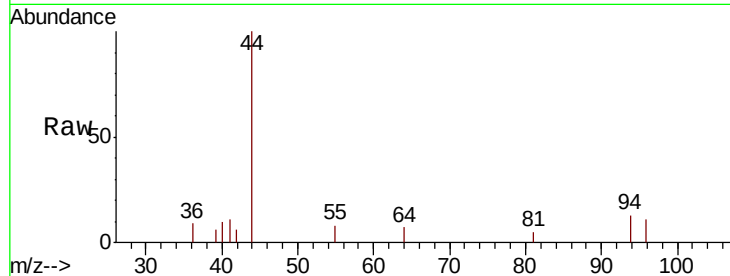
FA19-JBW7326A

Tot Ion: 94 Resp: 216

Ion Ratio Lower Upper

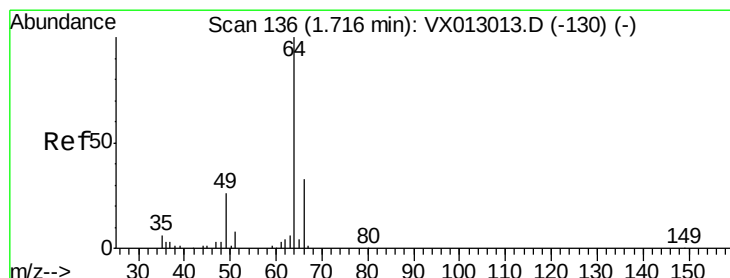
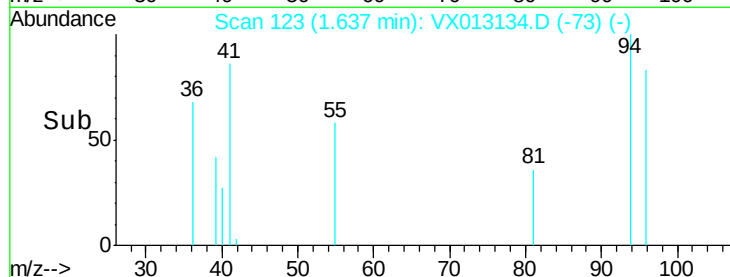
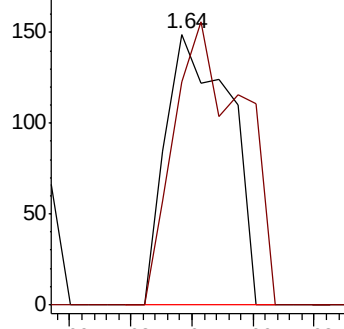
94 100

96 82.6 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: 0.786 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX013134.D

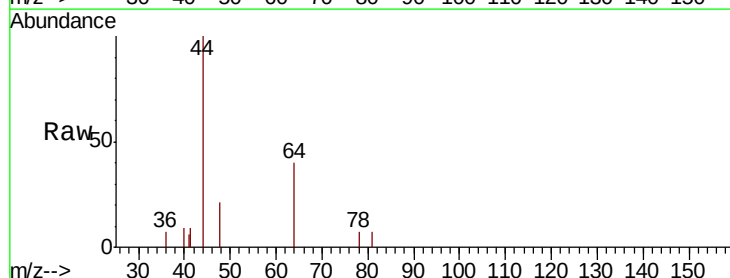
Acq: 18 Oct 2019 17:54

Tgt Ion: 64 Resp: 492

Ion Ratio Lower Upper

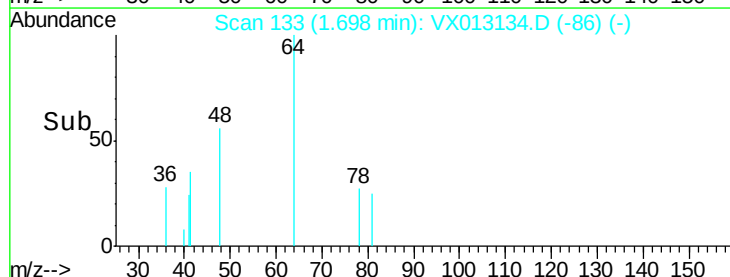
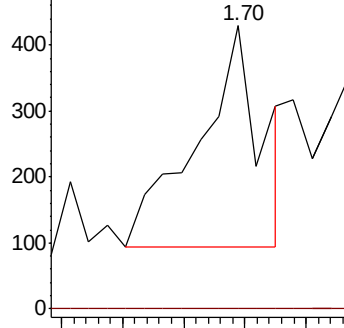
64 100

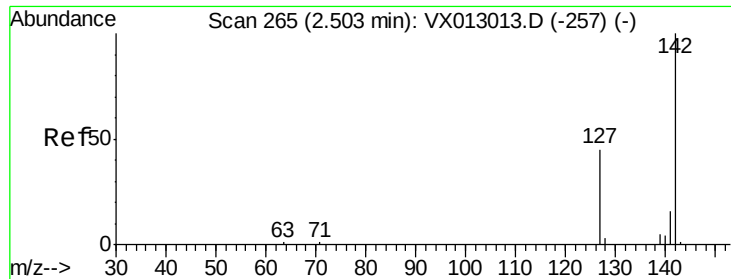
66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

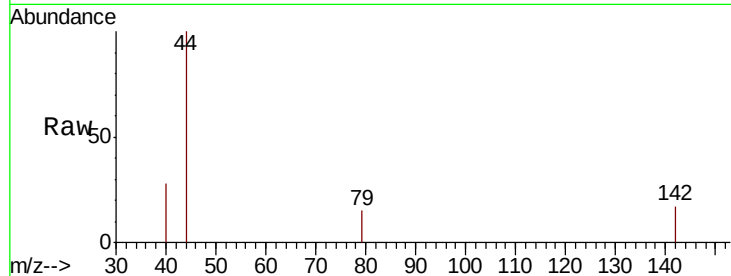




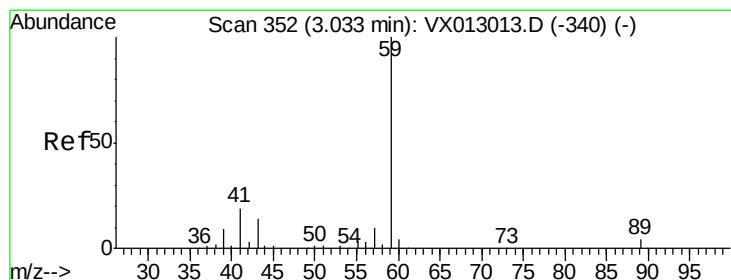
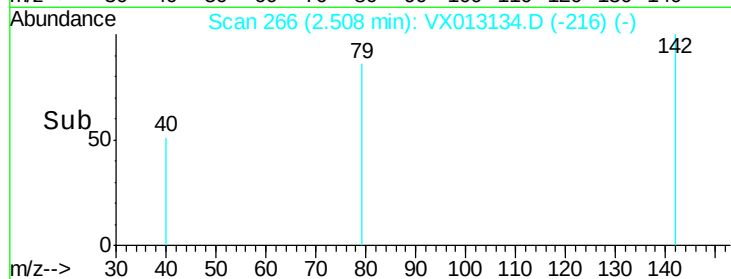
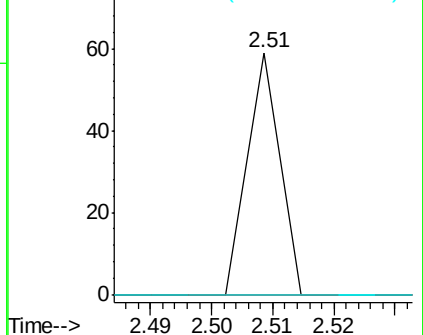
#10
Methvl Iodide
Concen: 5.092 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX013134.D
Acq: 18 Oct 2019 17:54

Instrument :
MSVOA_X
ClientSampleId :
FA19-JBW7326A

Tot Ion:142 Resp: 22
Ion Ratio Lower Upper
142 100
127 0.0 34.9 52.3#
141 0.0 11.6 17.4#

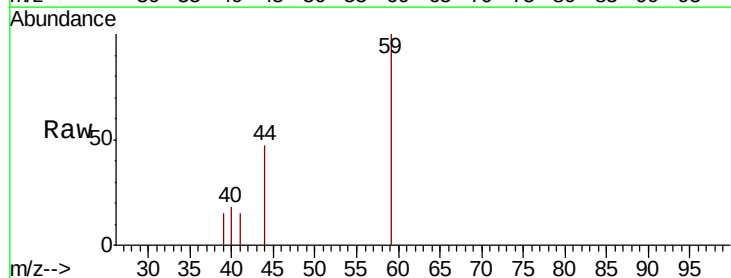


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

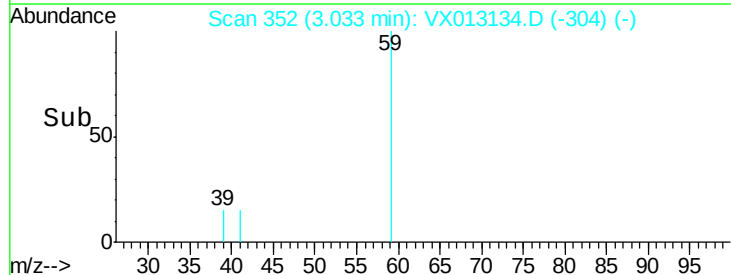
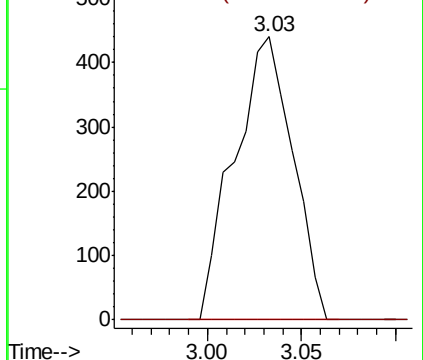


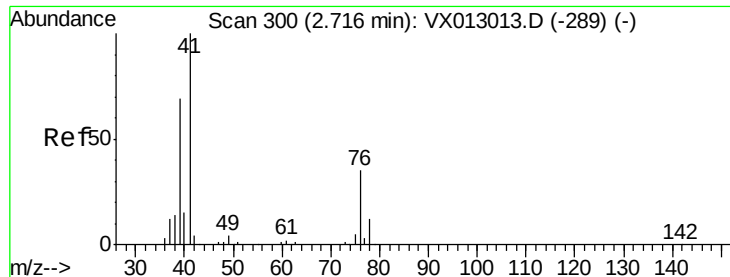
#11
Tert butyl alcohol
Concen: 1.713 ug/l
RT: 3.03 min Scan# 352
Delta R.T. -0.01 min
Lab File: VX013134.D
Acq: 18 Oct 2019 17:54

Tgt Ion: 59 Resp: 947
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



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





#14

Allvl chloride

Concen: 1.251 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX013134.D

Acq: 18 Oct 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

FA19-JBW7326A

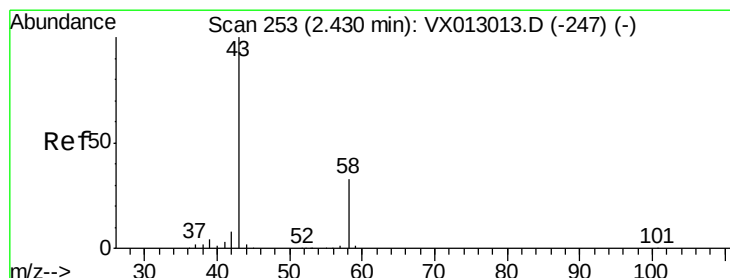
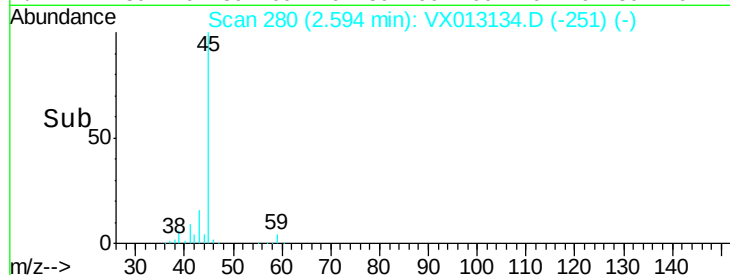
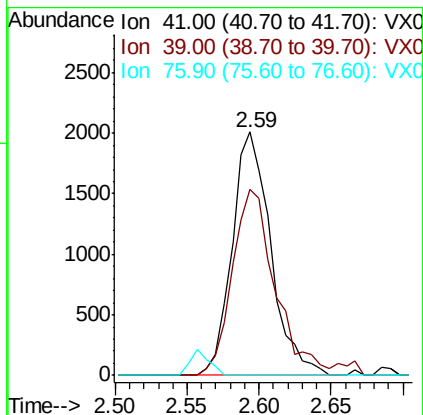
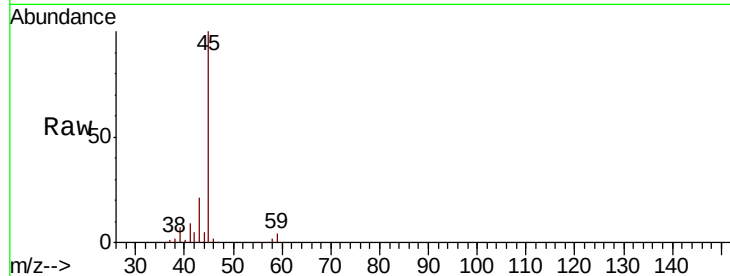
Tot Ion: 41 Resp: 3757

Ion Ratio Lower Upper

41 100

39 84.4 51.0 76.6#

76 0.0 26.2 39.4#



#16

Acetone

Concen: 5.858 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013134.D

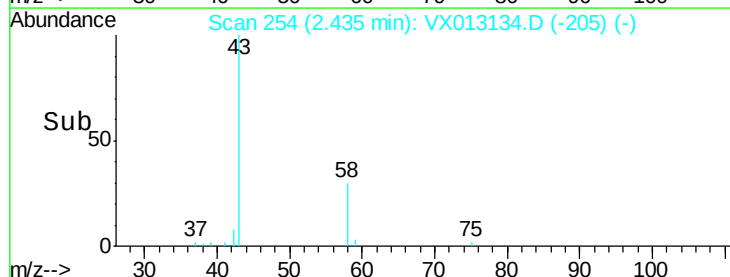
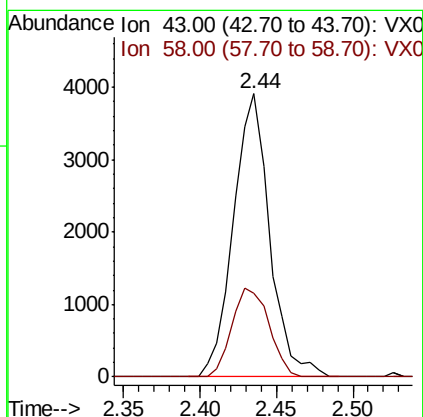
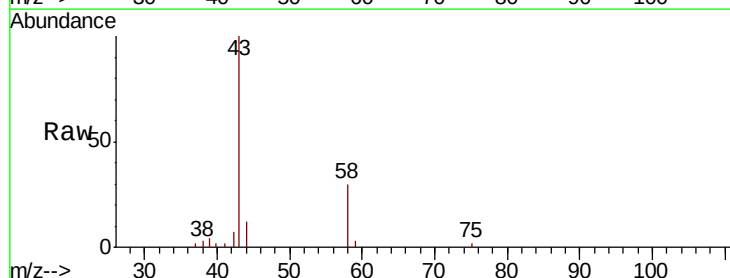
Acq: 18 Oct 2019 17:54

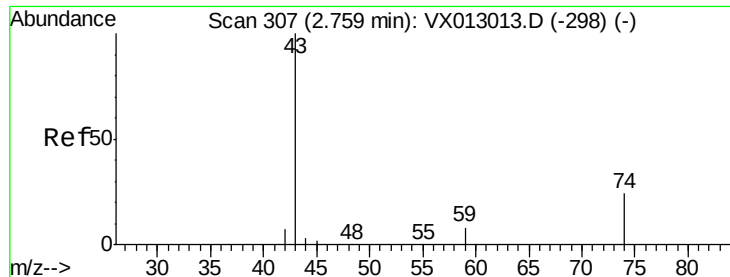
Tgt Ion: 43 Resp: 6439

Ion Ratio Lower Upper

43 100

58 29.8 25.4 38.2





#18

Methvl Acetate

Concen: 3.653 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX013134.D

Acq: 18 Oct 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

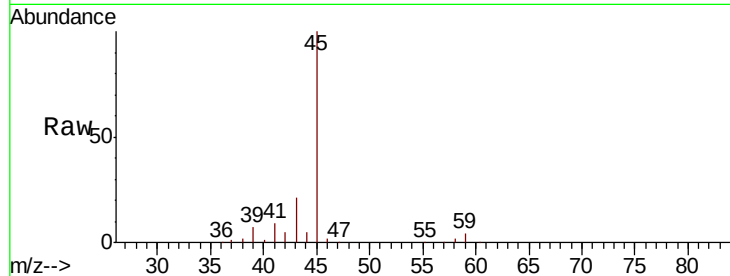
FA19-JBW7326A

Tot Ion: 43 Resp: 9516

Ion Ratio Lower Upper

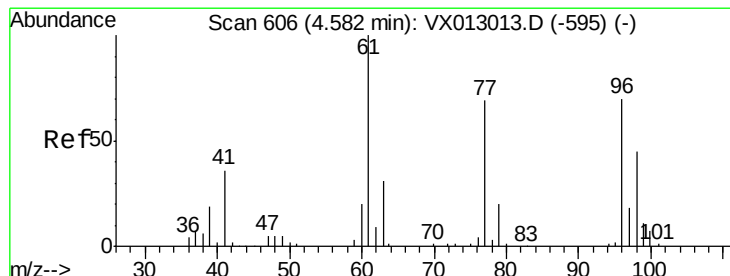
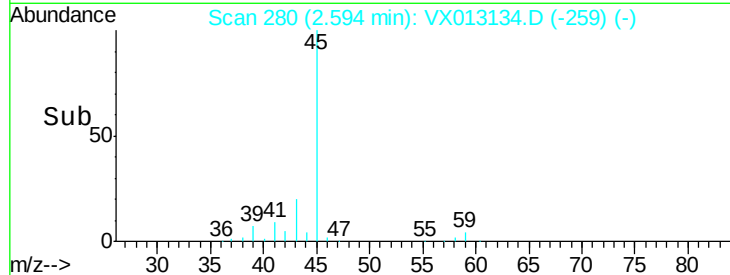
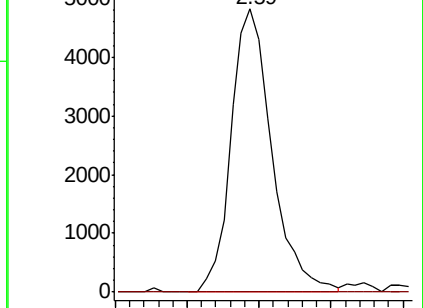
43 100

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



#27

cis-1,2-Dichloroethene

Concen: 0.993 ug/l

RT: 4.59 min Scan# 607

Delta R.T. -0.00 min

Lab File: VX013134.D

Acq: 18 Oct 2019 17:54

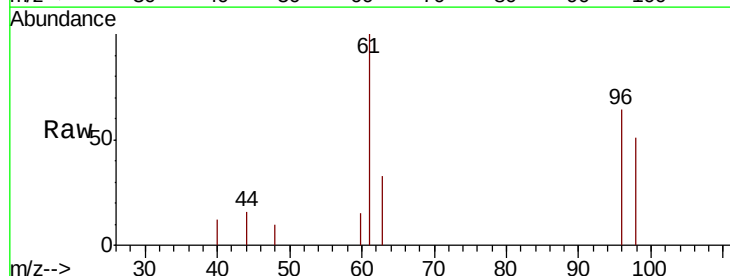
Tgt Ion: 96 Resp: 2069

Ion Ratio Lower Upper

96 100

61 132.2 0.0 290.6

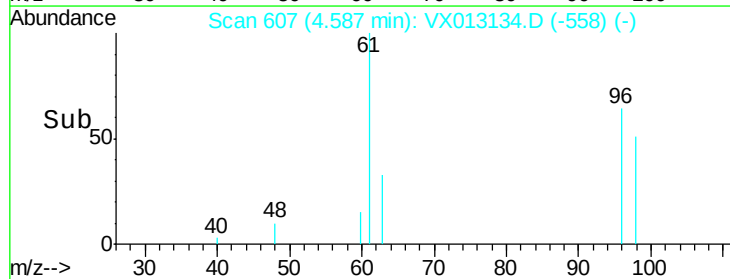
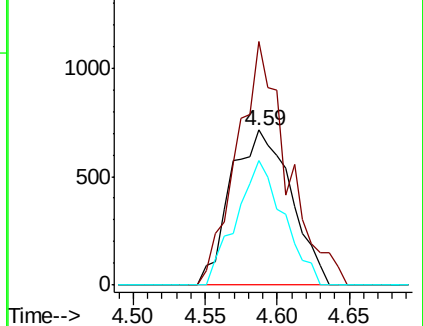
98 63.3 0.0 128.8

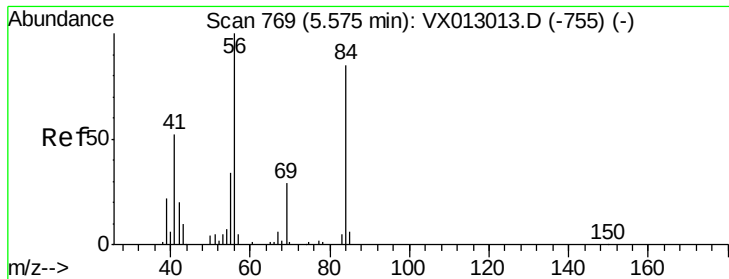


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

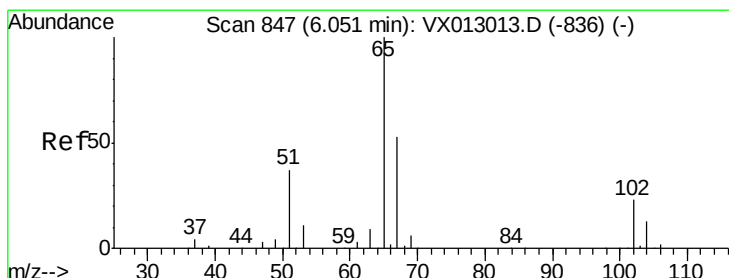
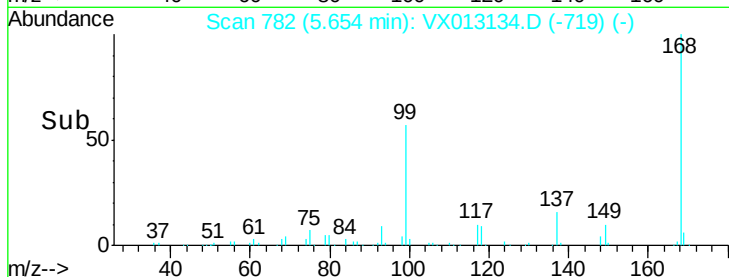
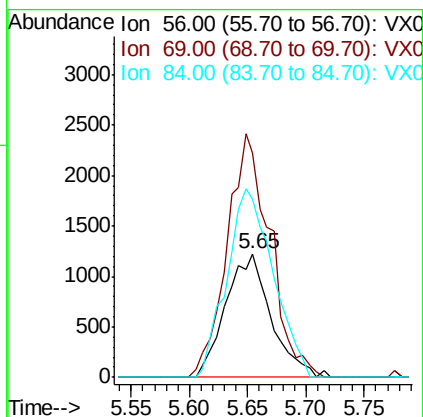
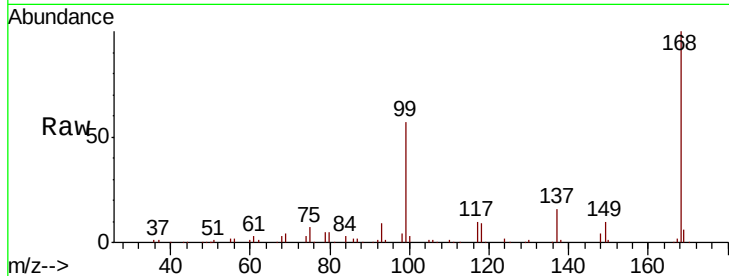




#31
Cyclohexane
Concen: 1.092 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.08 min
Lab File: VX013134.D
Acq: 18 Oct 2019 17:54

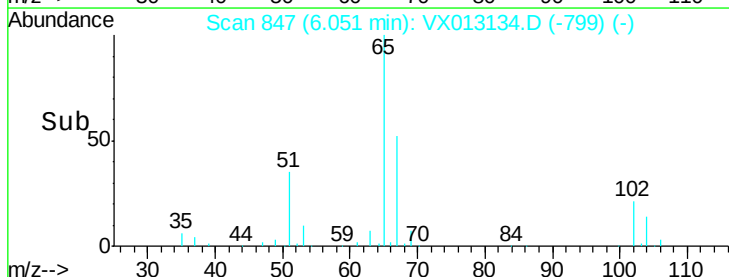
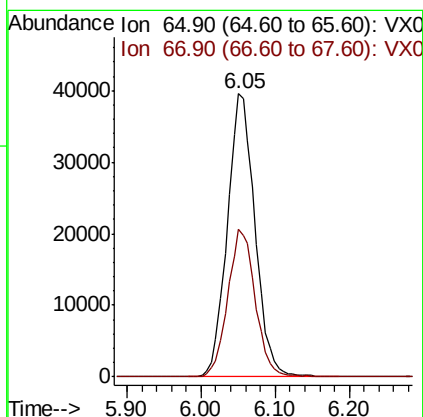
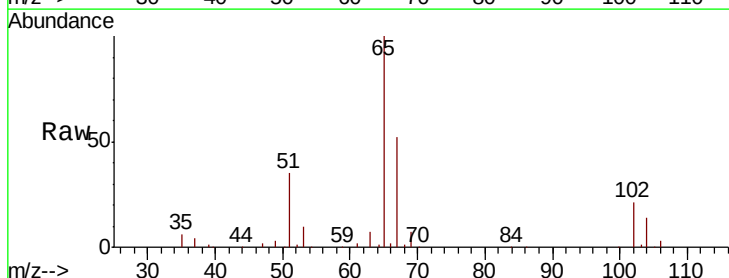
Instrument :
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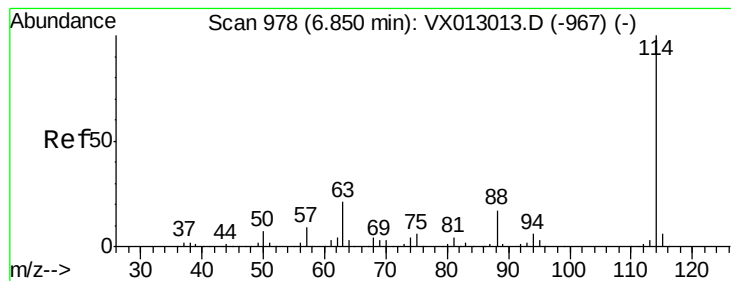
Tot Ion: 56 Resp: 3304
Ion Ratio Lower Upper
56 100
69 181.6 25.2 37.8#
84 144.7 71.3 106.9#



#33
1,2-Dichloroethane-d4
Concen: 49.212 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.01 min
Lab File: VX013134.D
Acq: 18 Oct 2019 17:54

Tgt Ion: 65 Resp: 102621
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX013134.D

Acq: 18 Oct 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

FA19-JBW7326A

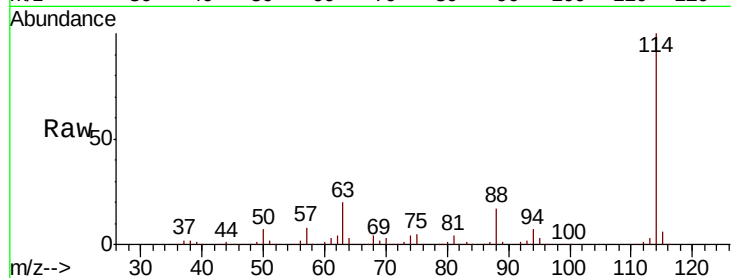
Tot Ion:114 Resp: 264987

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

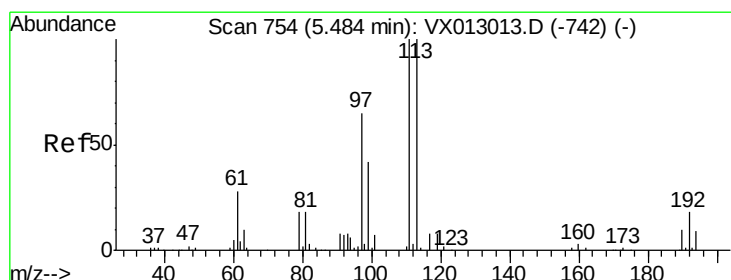
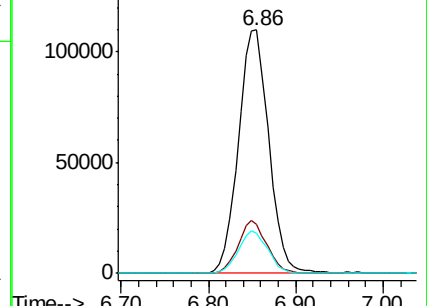
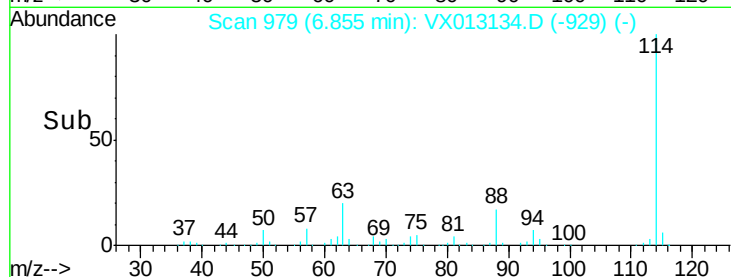
88 16.6 0.0 33.8



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: 52.801 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013134.D

Acq: 18 Oct 2019 17:54

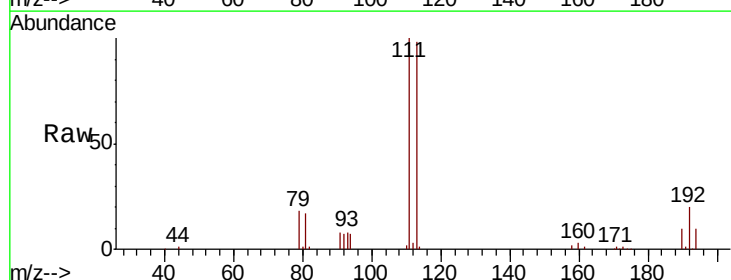
Tgt Ion:113 Resp: 80304

Ion Ratio Lower Upper

113 100

111 102.6 83.2 124.8

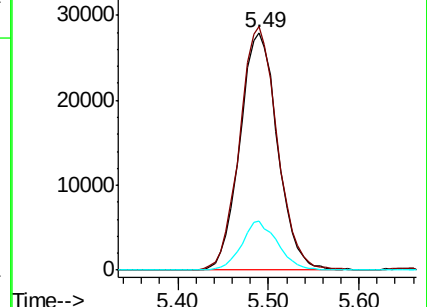
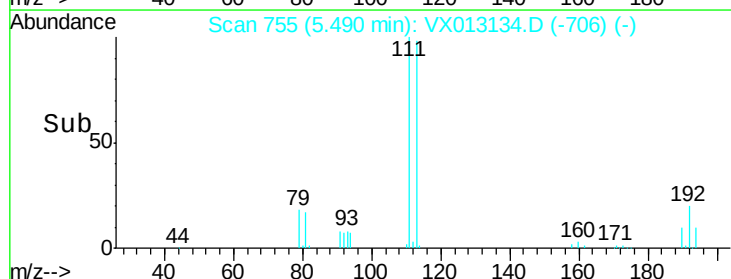
192 19.8 15.4 23.2

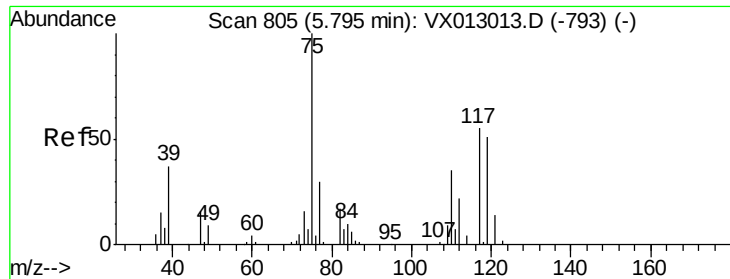


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

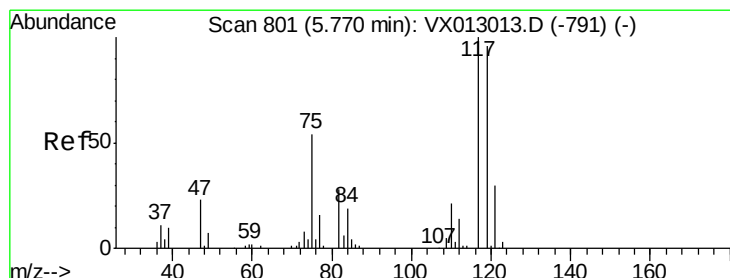
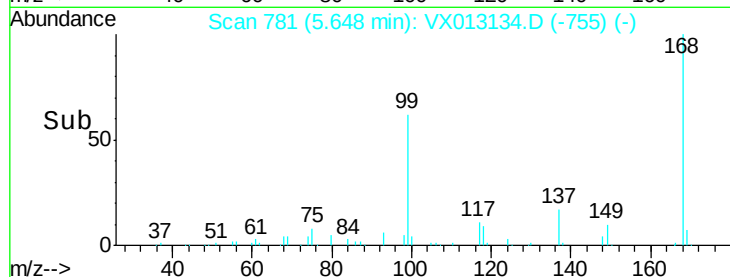
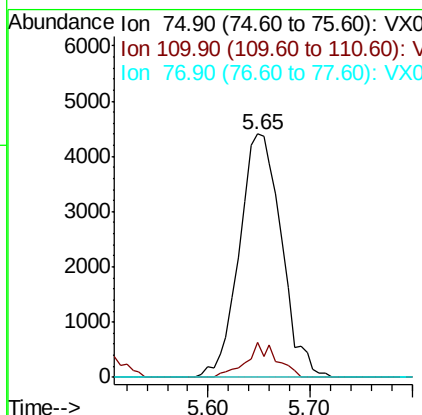
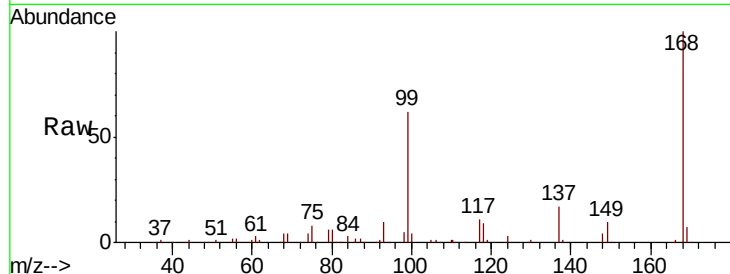




#36
 1,1-Dichloropropene
 Concen: 5.422 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013134.D
 Acq: 18 Oct 2019 17:54

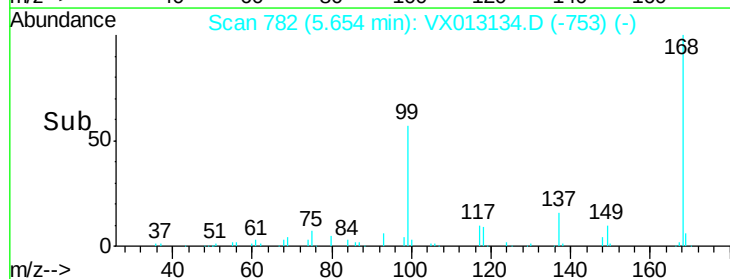
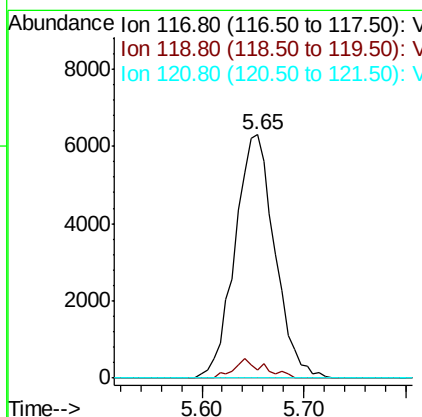
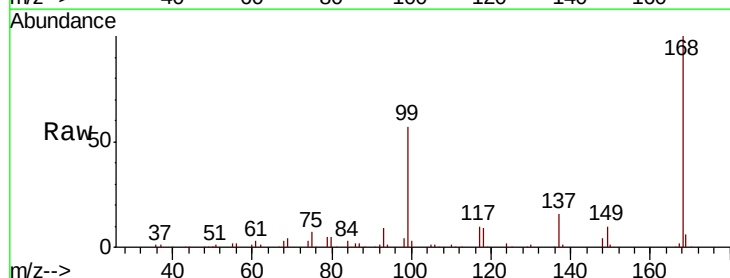
Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JBW7326A

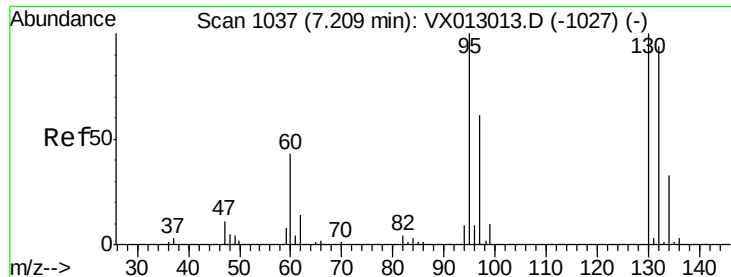
Tot Ion	75	Resp	12633
Ion Ratio	Lower	Upper	
75	100		
110	10.2	17.6	52.9#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 7.515 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013134.D
 Acq: 18 Oct 2019 17:54

Tgt Ion	117	Resp	17042
Ion Ratio	Lower	Upper	
117	100		
119	3.6	74.5	111.7#
121	0.0	24.2	36.4#

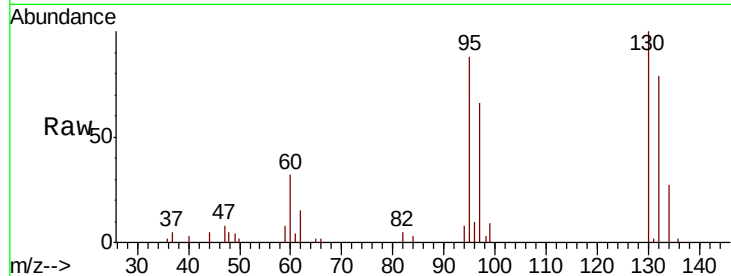




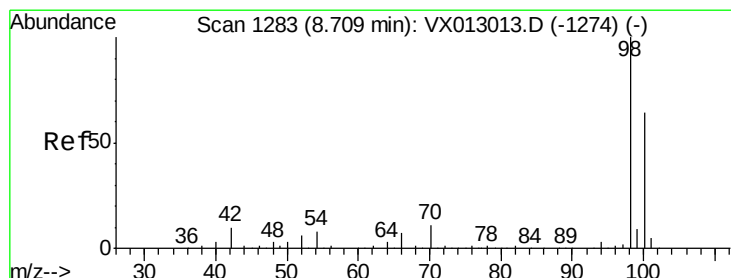
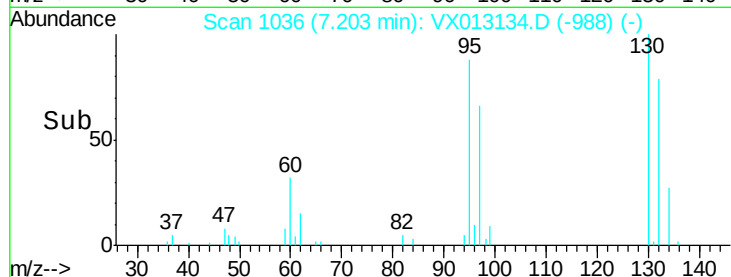
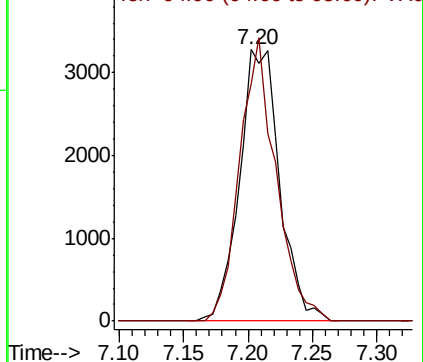
#44
 Trichloroethene
 Concen: 3.710 ug/l
 RT: 7.20 min Scan# 1036
 Delta R.T. -0.01 min
 Lab File: VX013134.D
 Acq: 18 Oct 2019 17:54

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JBW7326A

Tot Ion:130 Resp: 7080
 Ion Ratio Lower Upper
 130 100
 95 87.6 0.0 189.2

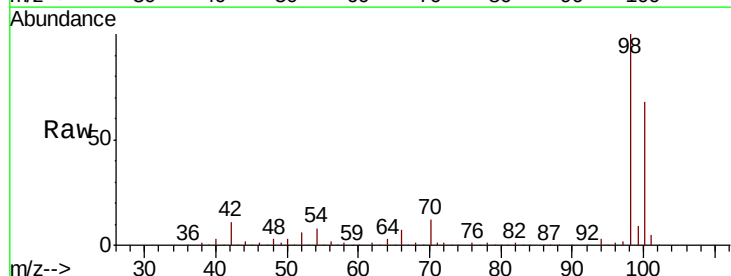


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

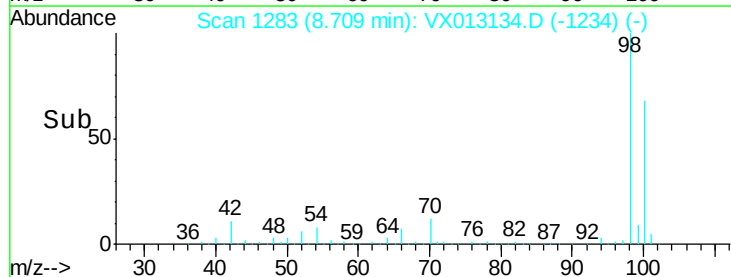
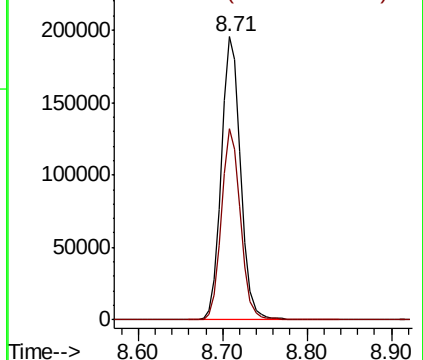


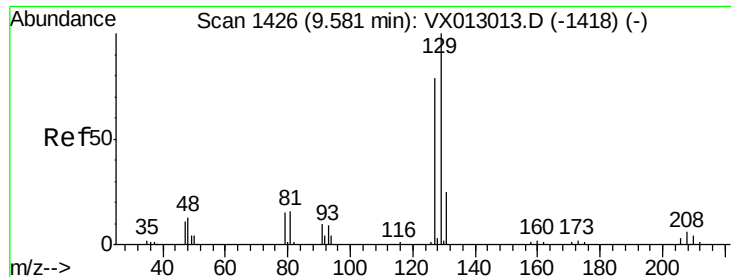
#50
 Toluene-d8
 Concen: 52.303 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. -0.00 min
 Lab File: VX013134.D
 Acq: 18 Oct 2019 17:54

Tgt Ion: 98 Resp: 310251
 Ion Ratio Lower Upper
 98 100
 100 66.7 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.806 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013134.D

Acq: 18 Oct 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

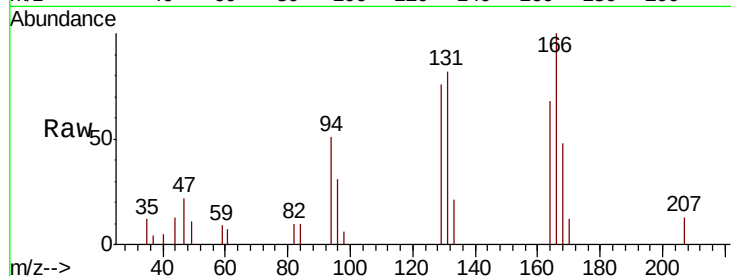
FA19-JBW7326A

Tot Ion:129 Resp: 1910

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

1500

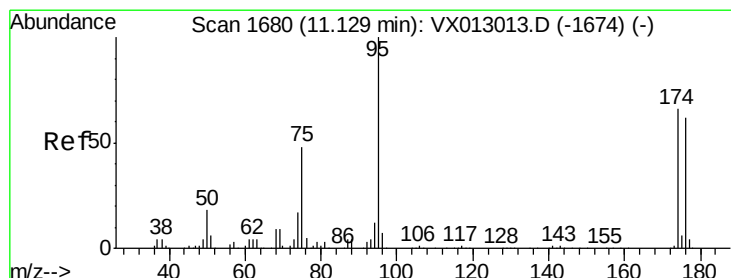
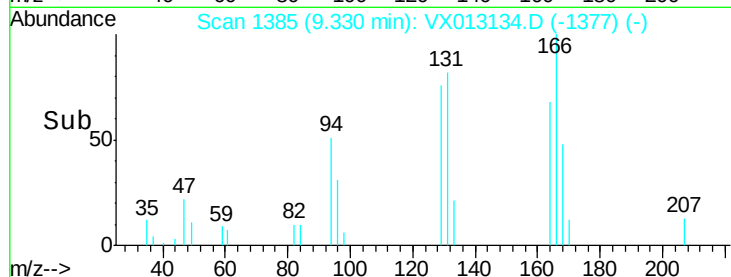
1000

500

0

9.30 9.35

Time-->



#62

4-Bromofluorobenzene

Concen: 45.351 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013134.D

Acq: 18 Oct 2019 17:54

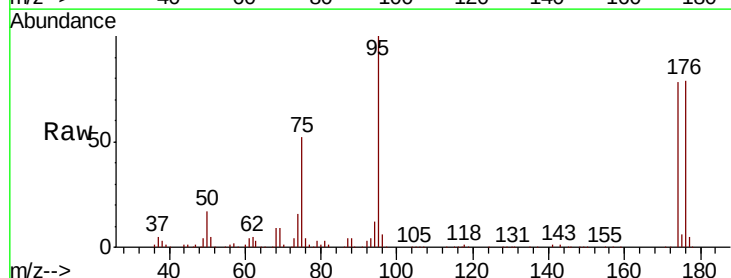
Tgt Ion: 95 Resp: 104528

Ion Ratio Lower Upper

95 100

174 73.0 0.0 143.4

176 72.8 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

100000

80000

60000

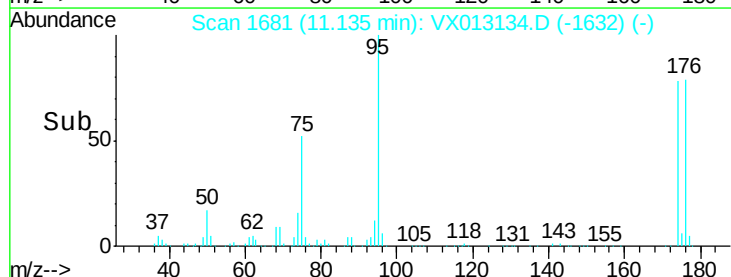
40000

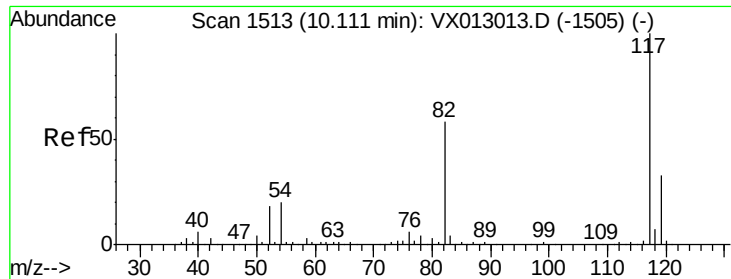
20000

0

11.10 11.20

Time-->

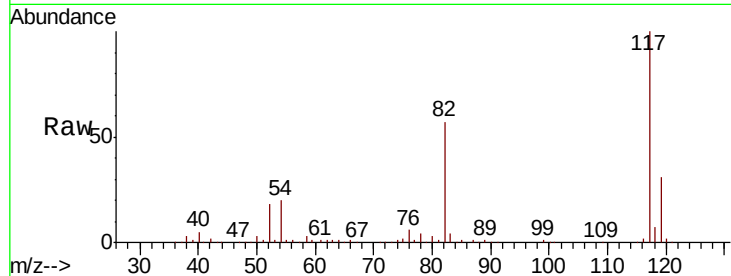




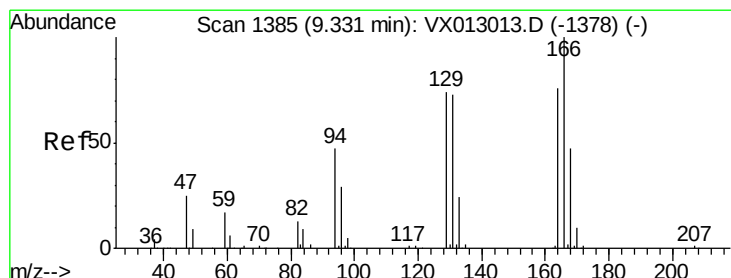
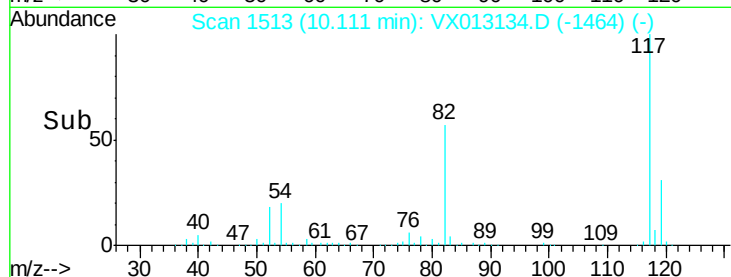
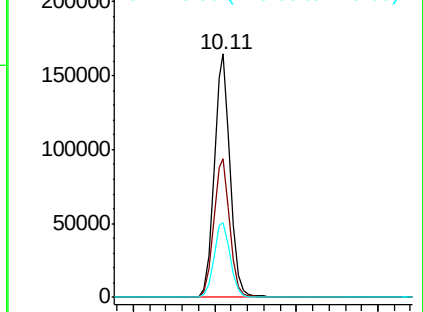
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013134.D
Acq: 18 Oct 2019 17:54

Instrument :
MSVOA_X
ClientSampleId :
FA19-JBW7326A

Tot Ion:117 Resp: 226996
Ion Ratio Lower Upper
117 100
82 56.9 44.1 66.1
119 30.7 25.8 38.8

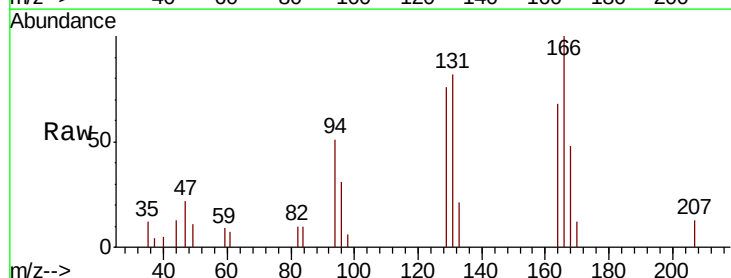


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

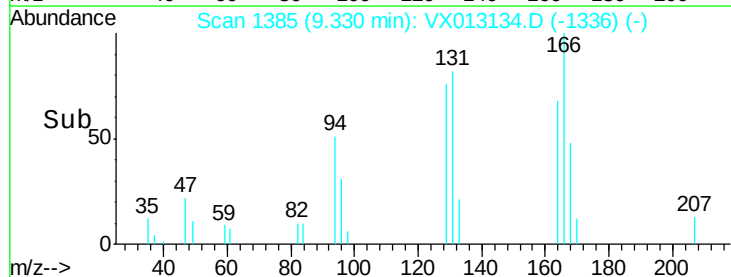
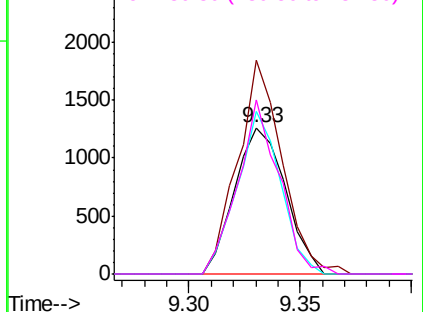


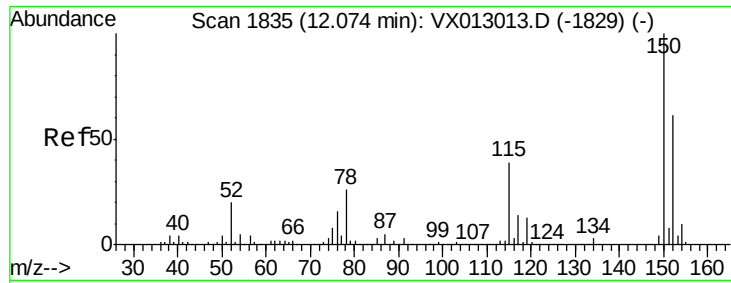
#64
Tetrachloroethene
Concen: 1.275 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013134.D
Acq: 18 Oct 2019 17:54

Tgt Ion:164 Resp: 2007
Ion Ratio Lower Upper
164 100
166 146.1 96.9 145.3#
129 111.3 77.9 116.9
131 119.1 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: VX013134.D

Acq: 18 Oct 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

FA19-JBW7326A

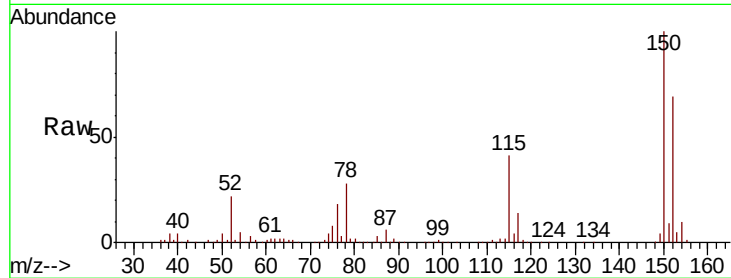
Tot Ion:152 Resp: 90552

Ion Ratio Lower Upper

152 100

115 61.3 44.5 133.5

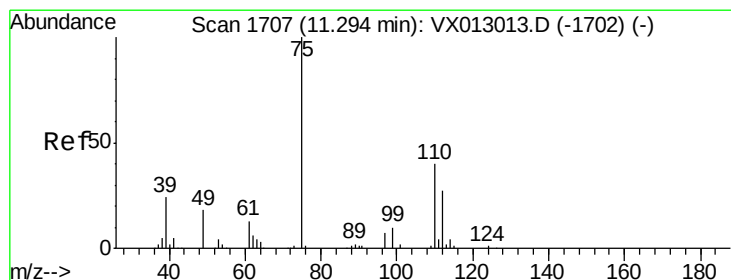
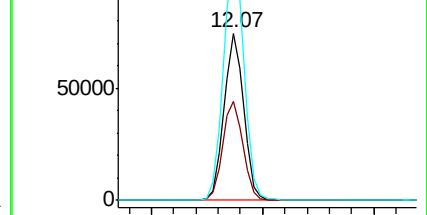
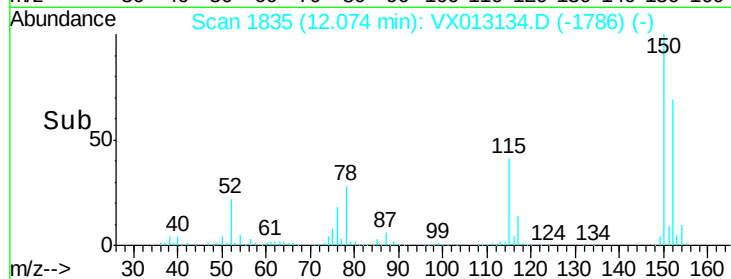
150 152.0 0.0 353.4



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: 26.600 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013134.D

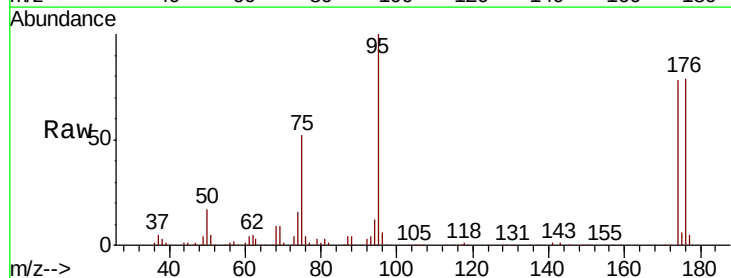
Acq: 18 Oct 2019 17:54

Tgt Ion: 75 Resp: 53424

Ion Ratio Lower Upper

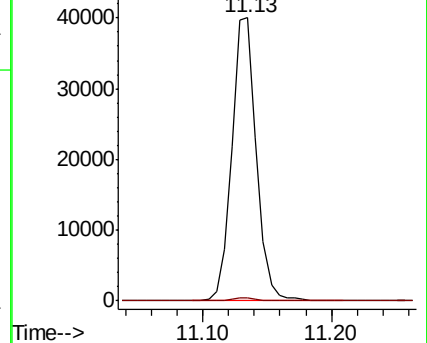
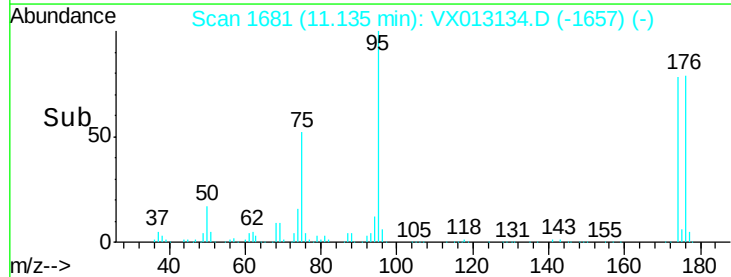
75 100

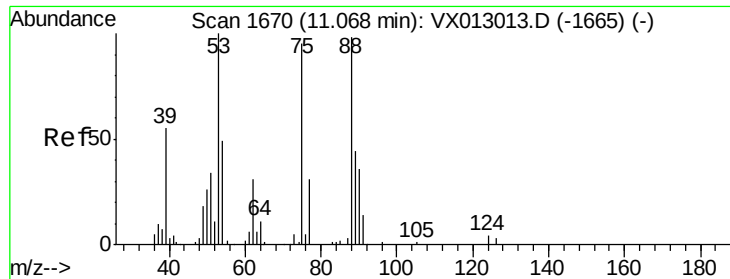
77 1.2 22.9 68.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.898 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013134.D

Acq: 18 Oct 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

FA19-JBW7326A

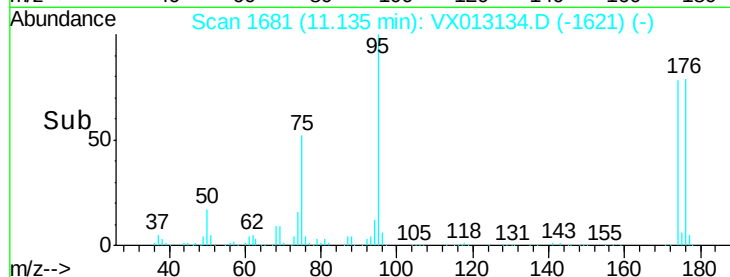
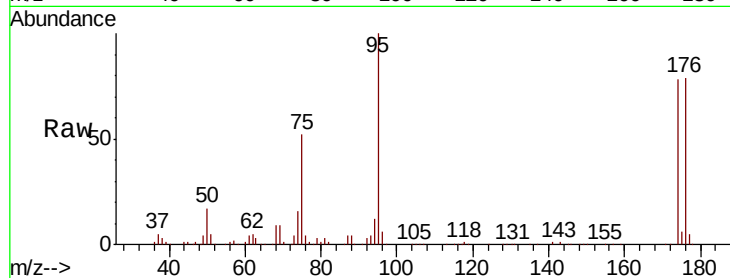
Tot Ion: 75 Resp: 53424

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.2 37.4 56.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

