

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101019\
 Data File : VX012996.D
 Acq On : 10 Oct 2019 15:20
 Operator : JC/SP
 Sample : K5290-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-MMW0125R-9001

Quant Time: Oct 11 04:37:17 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	170339	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	288160	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	243991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	94483	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	111540	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
35) Dibromofluoromethane	5.49	113	85532	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
50) Toluene-d8	8.71	98	333874	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	
62) 4-Bromofluorobenzene	11.14	95	114335	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	

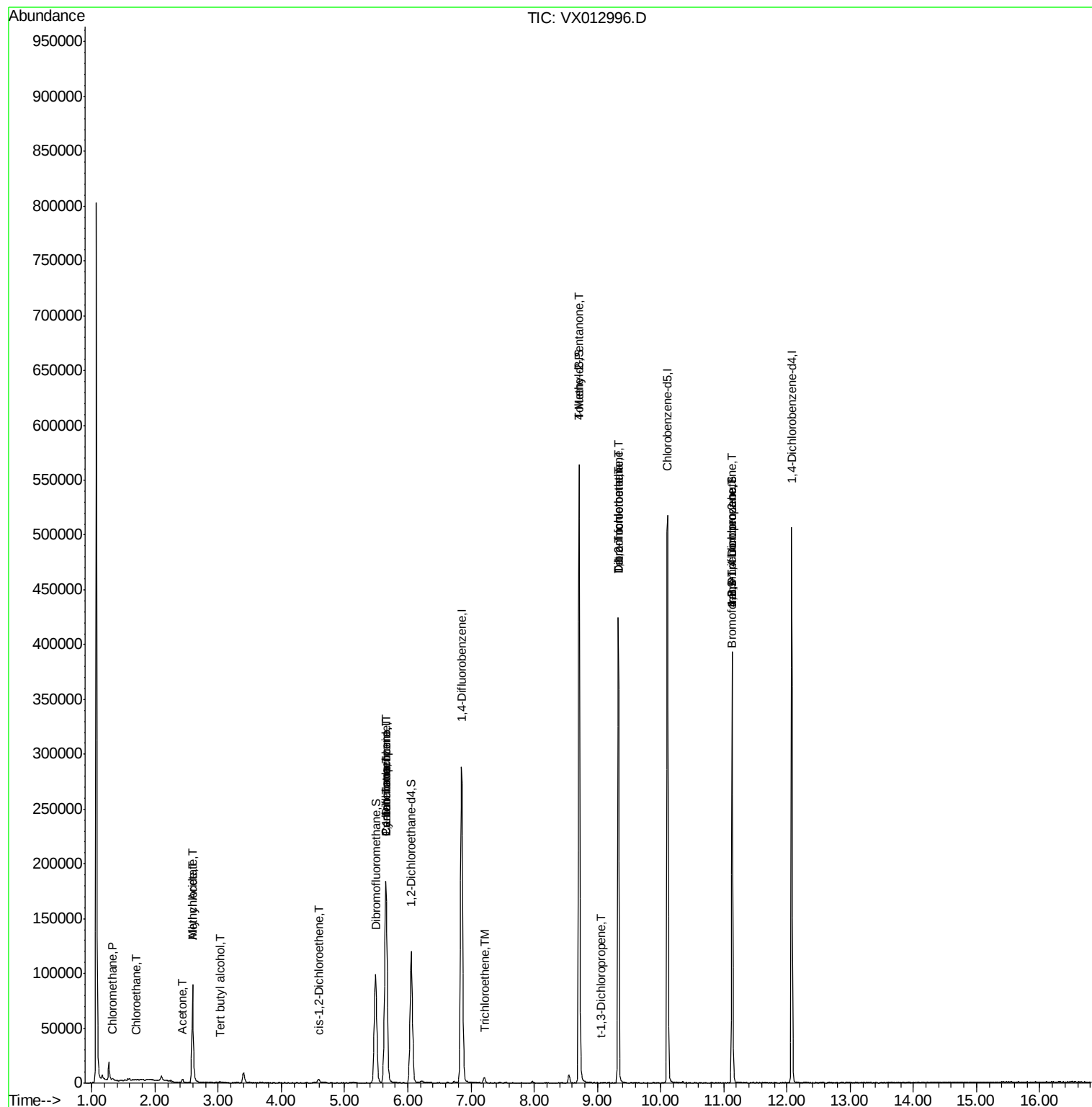
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	385	0.204	ug/l	91
6) Chloroethane	1.70	64	258	0.583	ug/l #	43
11) Tert butyl alcohol	3.03	59	1131	2.004	ug/l #	72
14) Allyl chloride	2.59	41	8615	2.810	ug/l #	63
16) Acetone	2.43	43	3592	3.201	ug/l	97
18) Methyl Acetate	2.59	43	22835	8.585	ug/l #	51
27) cis-1,2-Dichloroethene	4.59	96	2188	1.029	ug/l	92
31) Cyclohexane	5.65	56	3554	1.150	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13866	5.473	ug/l #	49
38) Carbon Tetrachloride	5.65	117	17838	7.234	ug/l #	17
44) Trichloroethene	7.21	130	2086	1.005	ug/l	90
51) 4-Methyl-2-Pentanone	8.71	43	1586	0.559	ug/l #	1
53) t-1,3-Dichloropropene	9.04	75	47	2.183	ug/l #	42
55) 1,1,2-Trichloroethane	9.33	97	793	0.419	ug/l #	1
60) Dibromochloromethane	9.33	129	77316	37.168	ug/l #	10
64) Tetrachloroethene	9.33	164	77381	45.725	ug/l	95
71) Bromoform	11.12	173	110	3.205	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	56835	27.121	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	56835	68.128	ug/l #	10

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

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QLast Update : Wed Oct 09 01:51:23 2019
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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: VX012996.D

Acq: 10 Oct 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

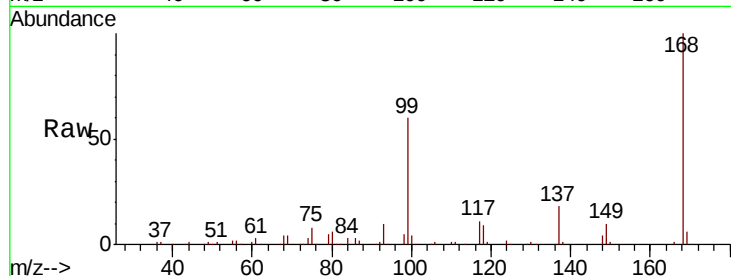
FA19-MMW0125R-9001

Tot Ion:168 Resp: 170339

Ion Ratio Lower Upper

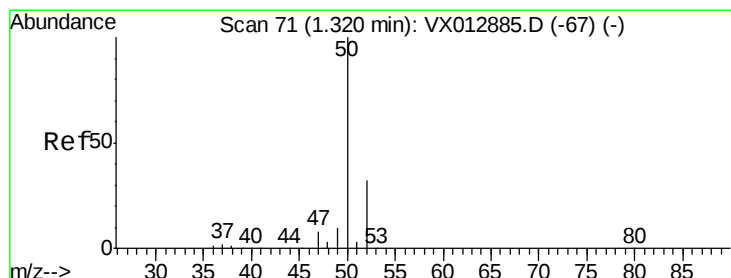
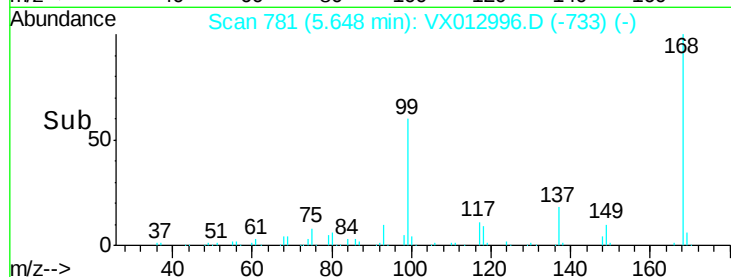
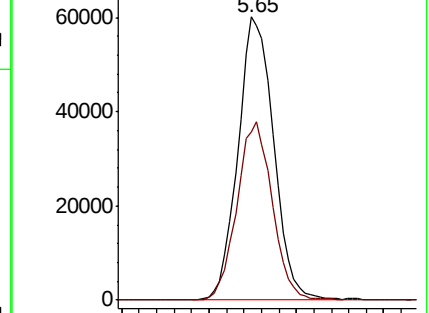
168 100

99 59.4 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: 0.204 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012996.D

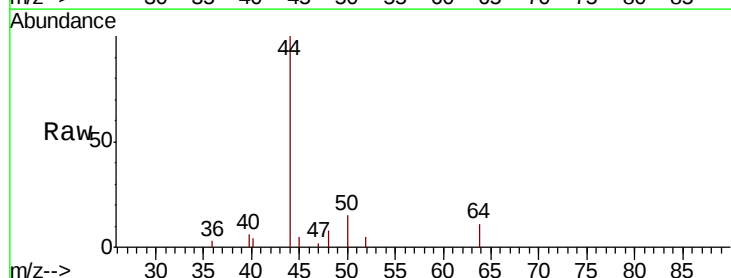
Acq: 10 Oct 2019 15:20

Tgt Ion: 50 Resp: 385

Ion Ratio Lower Upper

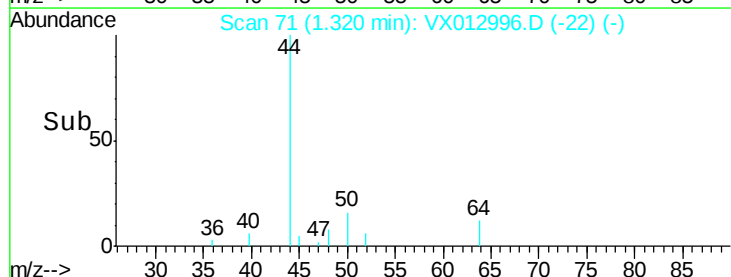
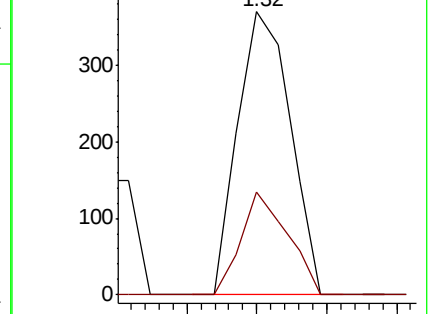
50 100

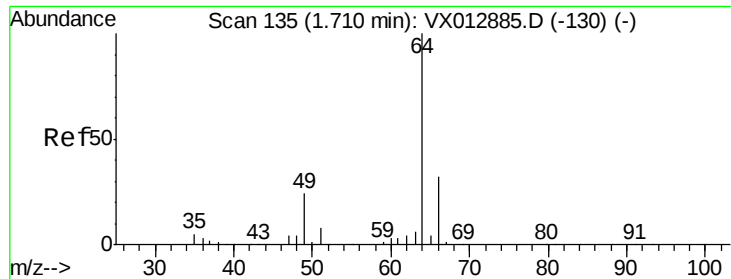
52 36.6 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: 0.583 ug/l

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX012996.D

Acq: 10 Oct 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

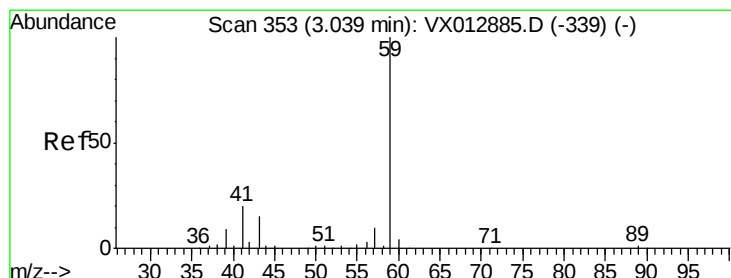
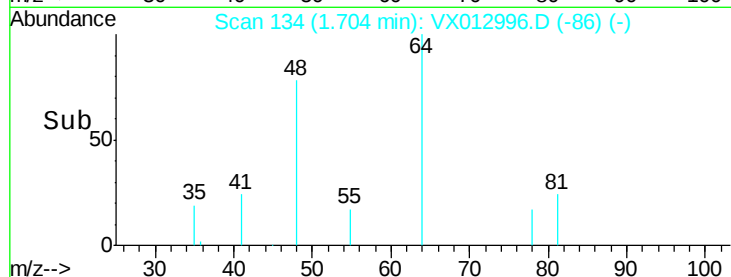
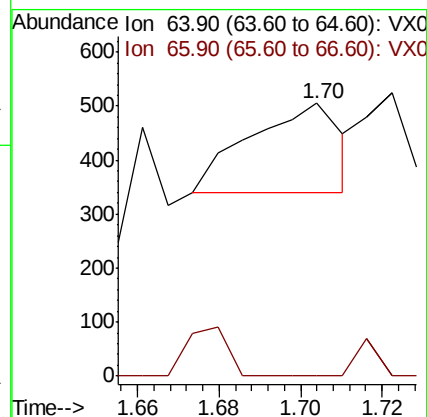
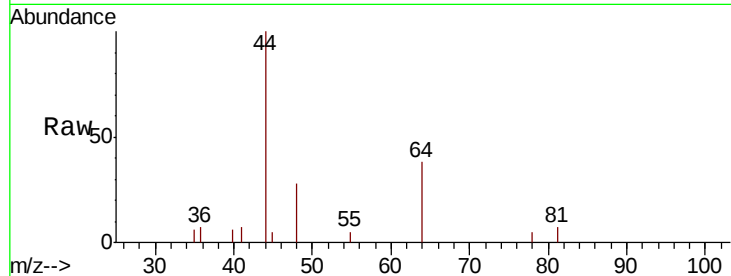
FA19-MMW0125R-9001

Tot Ion: 64 Resp: 258

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#11

Tert butyl alcohol

Concen: 2.004 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX012996.D

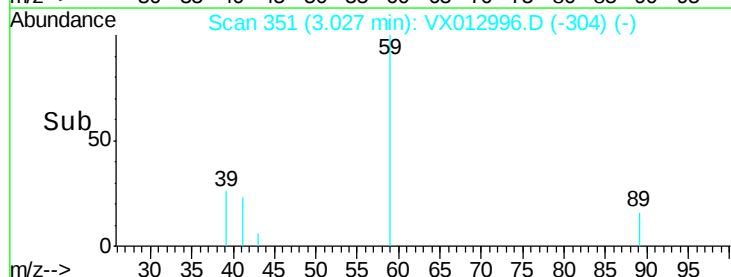
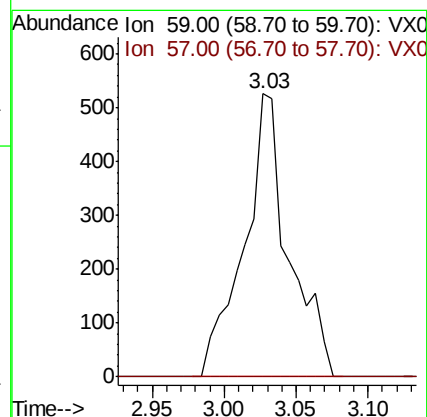
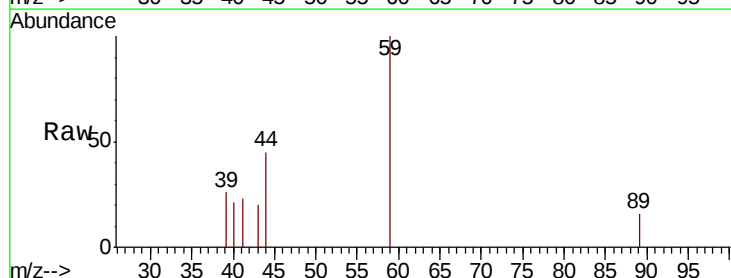
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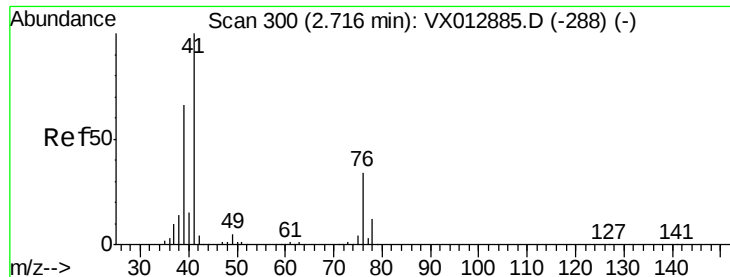
Tgt Ion: 59 Resp: 1131

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#

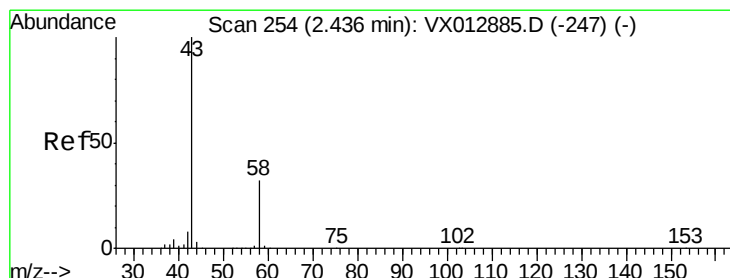
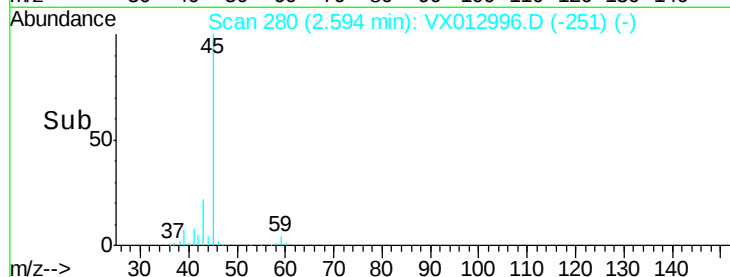
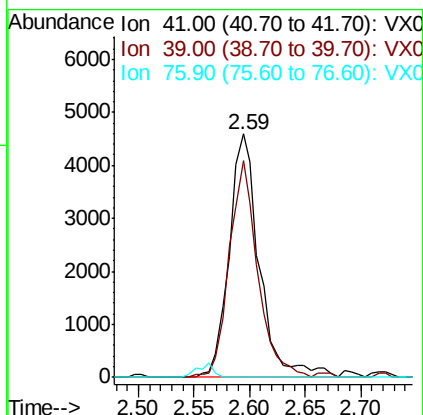
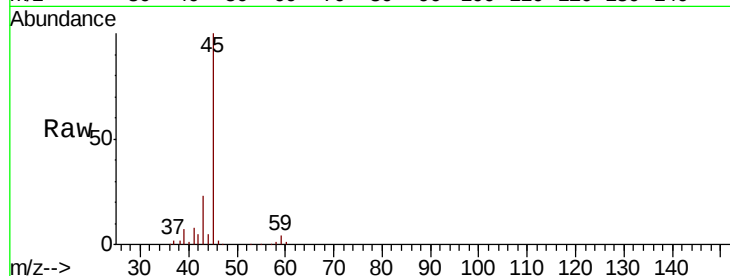




#14
Allvl chloride
Concen: 2.810 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.12 min
Lab File: VX012996.D
Acq: 10 Oct 2019 15:20

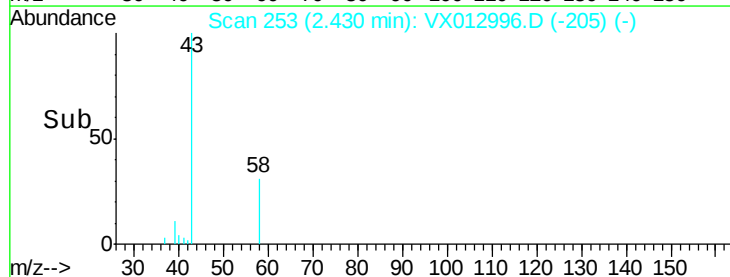
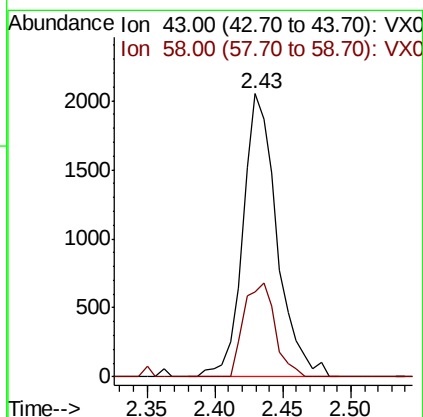
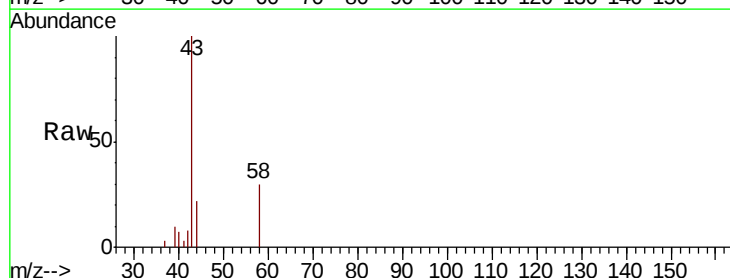
Instrument :
MSVOA_X
ClientSampleId :
FA19-MMW0125R-9001

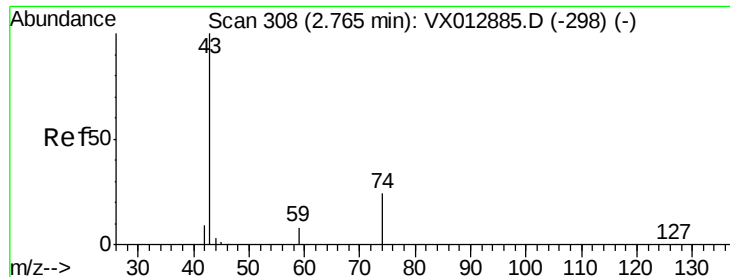
Tot Ion: 41 Resp: 8615
Ion Ratio Lower Upper
41 100
39 84.2 51.0 76.6#
76 0.0 26.2 39.4#



#16
Acetone
Concen: 3.201 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX012996.D
Acq: 10 Oct 2019 15:20

Tgt Ion: 43 Resp: 3592
Ion Ratio Lower Upper
43 100
58 29.9 25.4 38.2

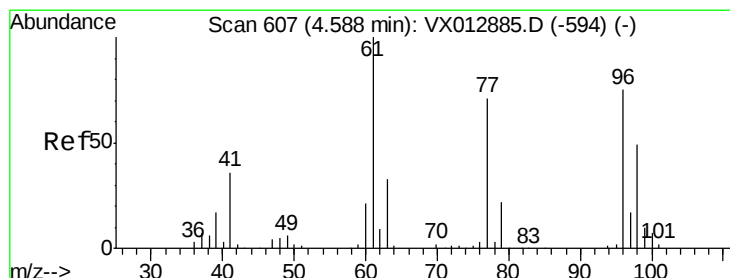
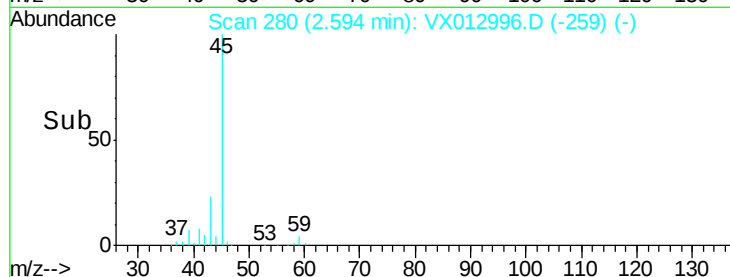
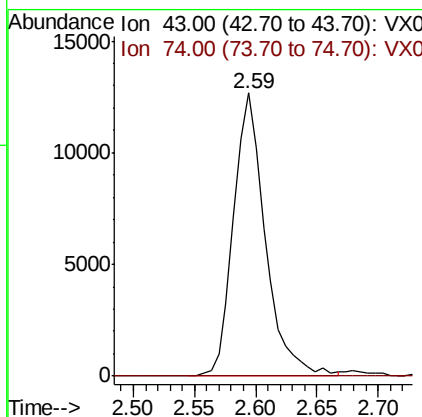
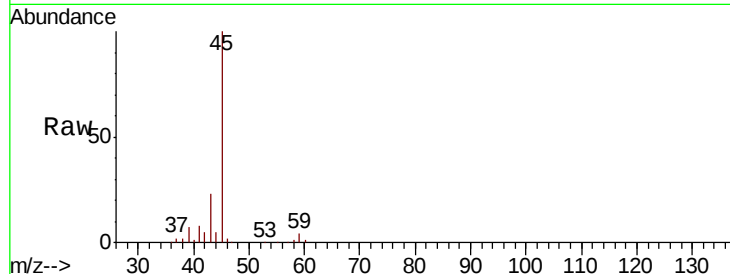




#18
Methvl Acetate
Concen: 8.585 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012996.D
Acq: 10 Oct 2019 15:20

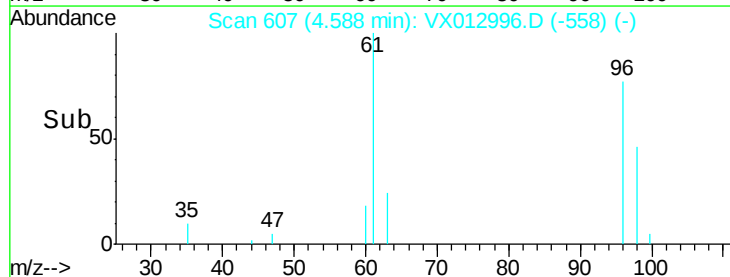
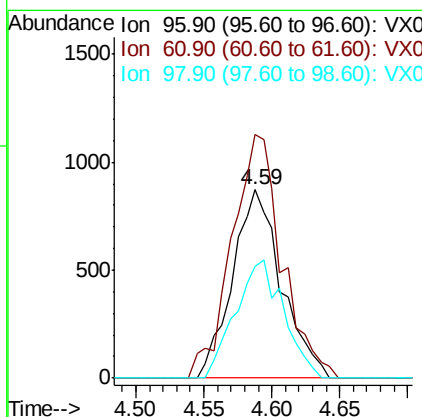
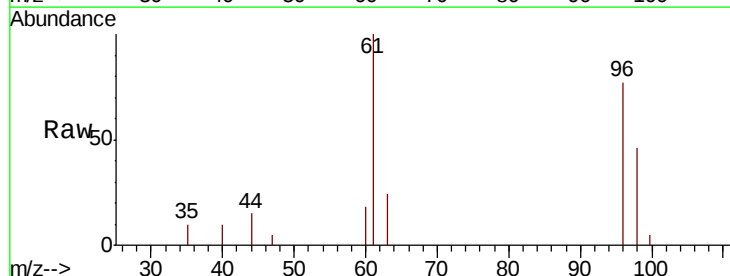
Instrument :
MSVOA_X
ClientSampleId :
FA19-MMW0125R-9001

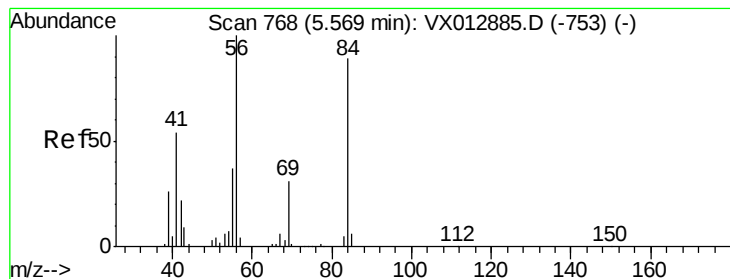
Tot Ion: 43 Resp: 22835
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#27
cis-1,2-Dichloroethene
Concen: 1.029 ug/l
RT: 4.59 min Scan# 607
Delta R.T. -0.00 min
Lab File: VX012996.D
Acq: 10 Oct 2019 15:20

Tgt Ion: 96 Resp: 2188
Ion Ratio Lower Upper
96 100
61 132.4 0.0 290.6
98 61.5 0.0 128.8





#31

Cyclohexane

Concen: 1.150 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX012996.D

Acq: 10 Oct 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

FA19-MMW0125R-9001

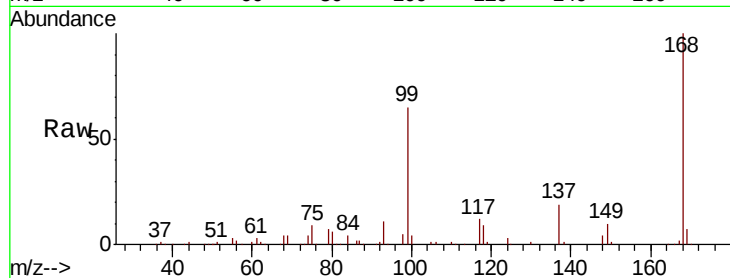
Tot Ion: 56 Resp: 3554

Ion Ratio Lower Upper

56 100

69 187.5 25.2 37.8#

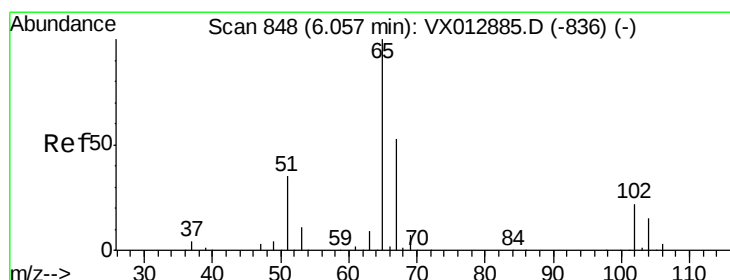
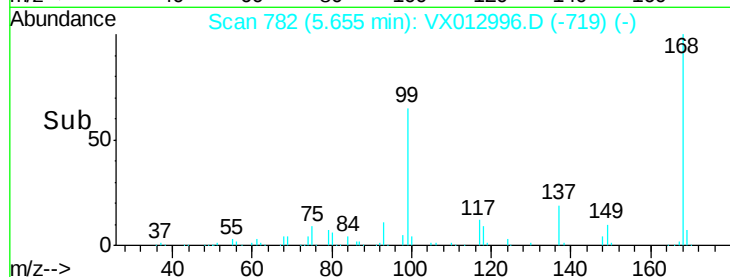
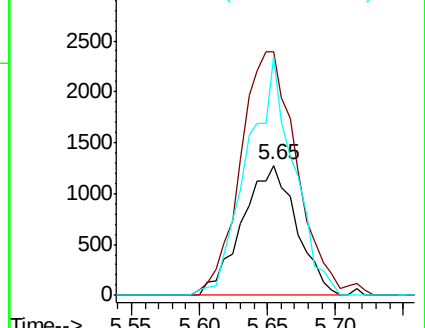
84 183.6 71.3 106.9#



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: 52.390 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX012996.D

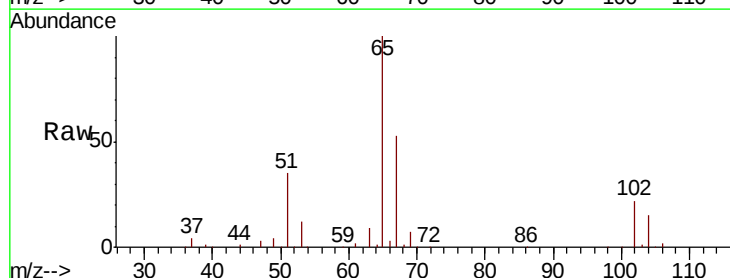
Acq: 10 Oct 2019 15:20

Tgt Ion: 65 Resp: 111540

Ion Ratio Lower Upper

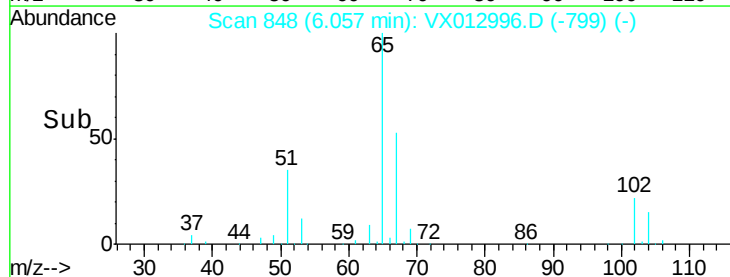
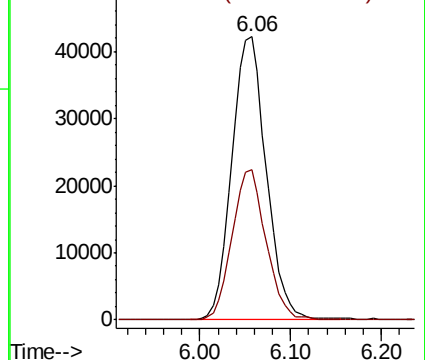
65 100

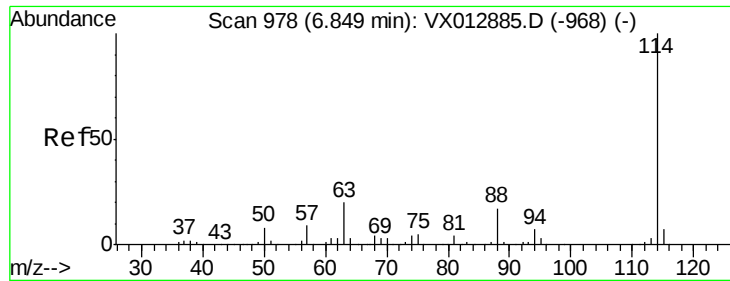
67 52.4 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

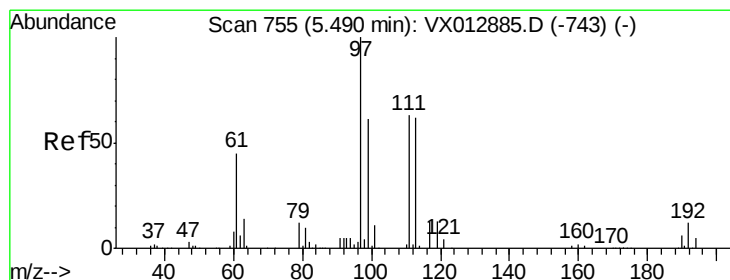
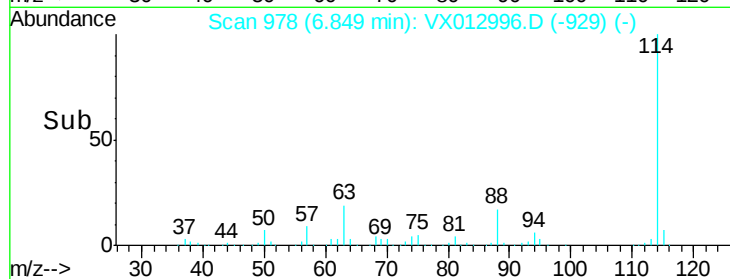
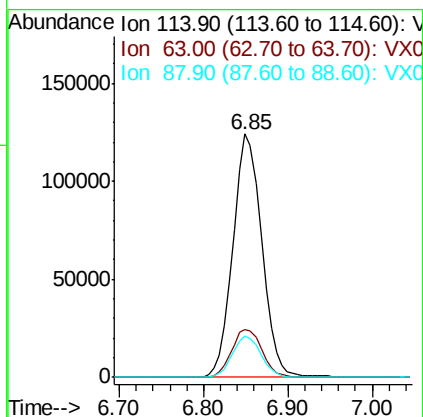
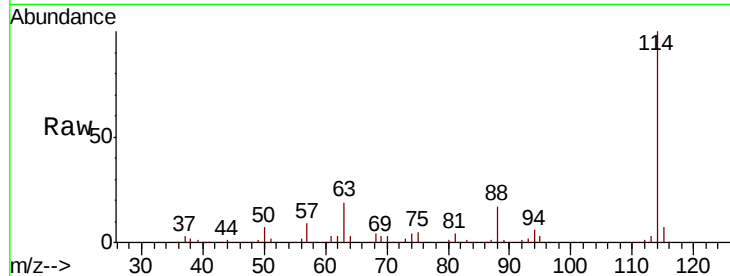




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012996.D
 Acq: 10 Oct 2019 15:20

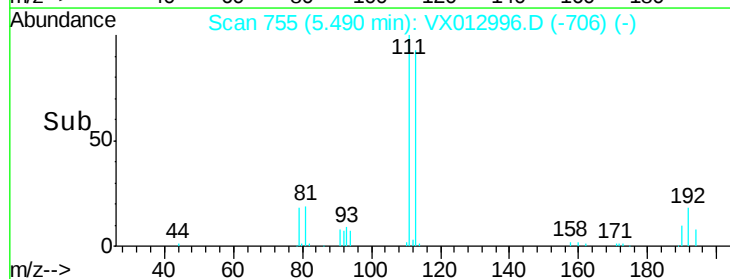
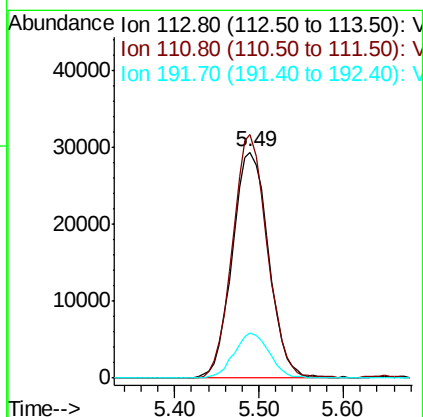
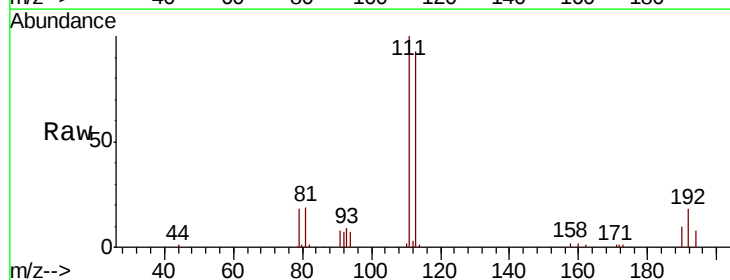
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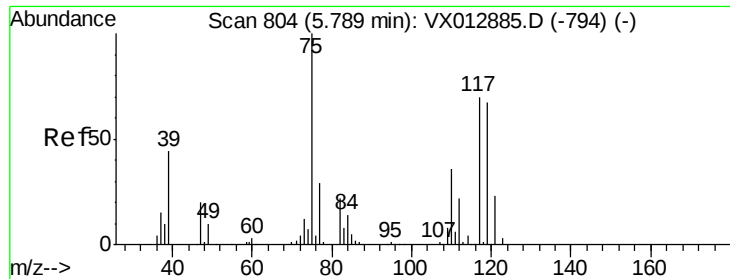
Tot Ion:114 Resp: 288160
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.8
 88 16.9 0.0 33.8



#35
 Dibromofluoromethane
 Concen: 51.716 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX012996.D
 Acq: 10 Oct 2019 15:20

Tgt Ion:113 Resp: 85532
 Ion Ratio Lower Upper
 113 100
 111 103.4 83.2 124.8
 192 19.1 15.4 23.2

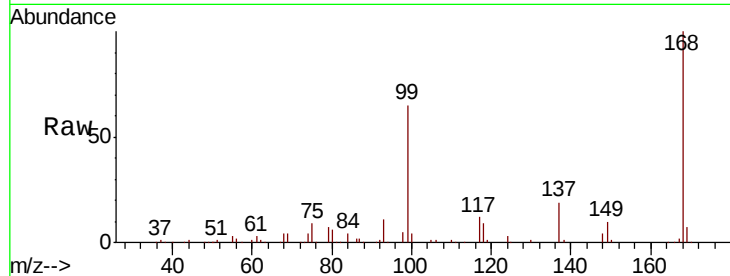




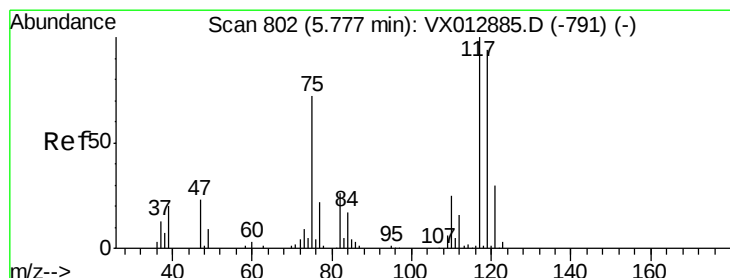
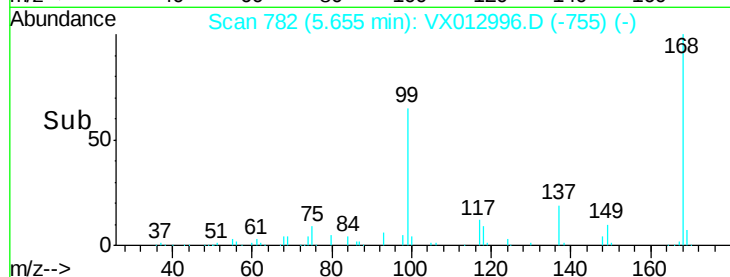
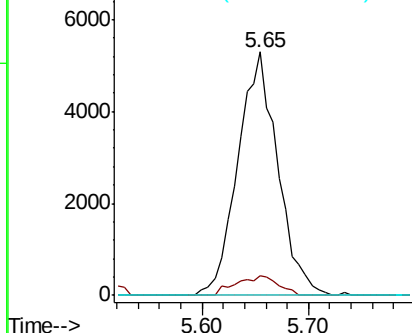
#36
 1,1-Dichloropropene
 Concen: 5.473 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012996.D
 Acq: 10 Oct 2019 15:20

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-MMW0125R-9001

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	17.6	52.9#
77	0.0	24.4	36.6#

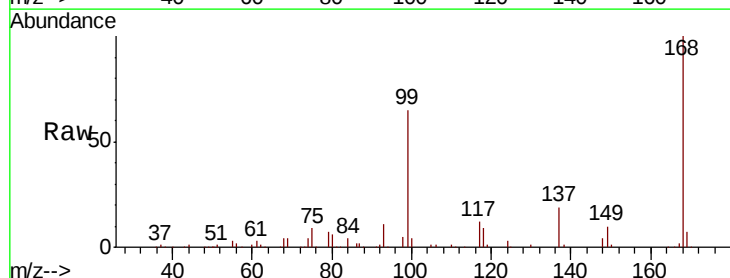


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

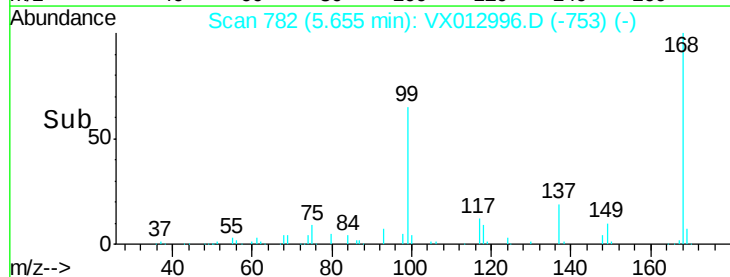
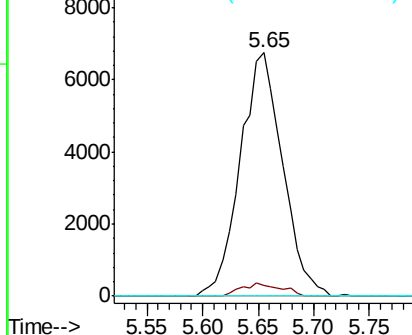


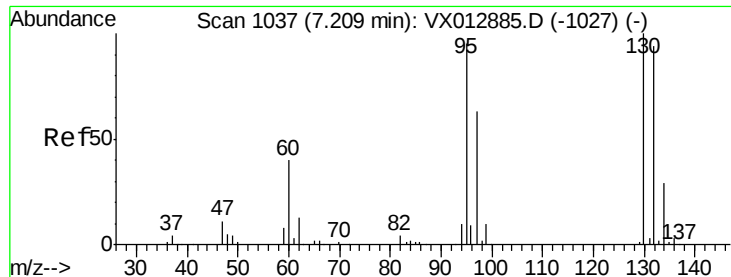
#38
 Carbon Tetrachloride
 Concen: 7.234 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX012996.D
 Acq: 10 Oct 2019 15:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	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: 1.005 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX012996.D

Acq: 10 Oct 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

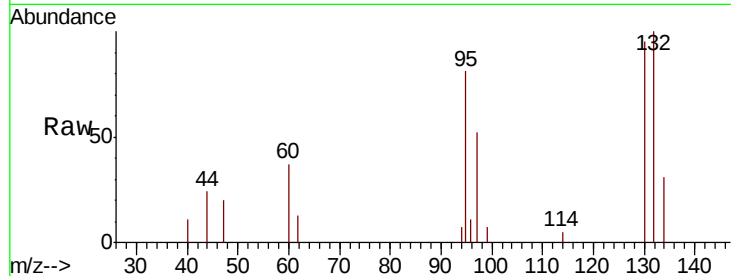
FA19-MMW0125R-9001

Tot Ion:130 Resp: 2086

Ion Ratio Lower Upper

130 100

95 84.5 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

1000

800

600

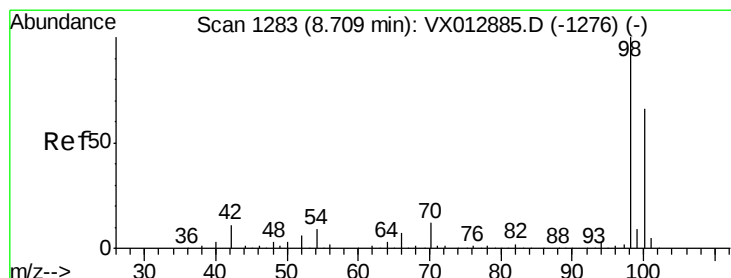
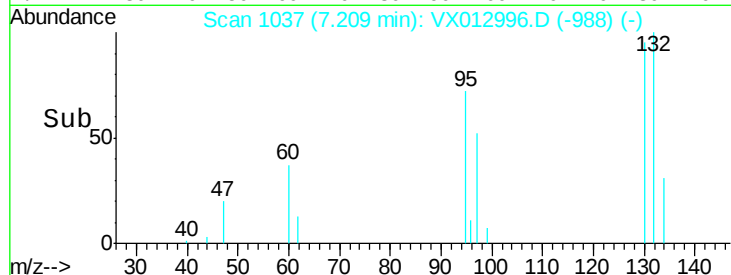
400

200

0

Time-->

7.15 7.20 7.25



#50

Toluene-d8

Concen: 51.759 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012996.D

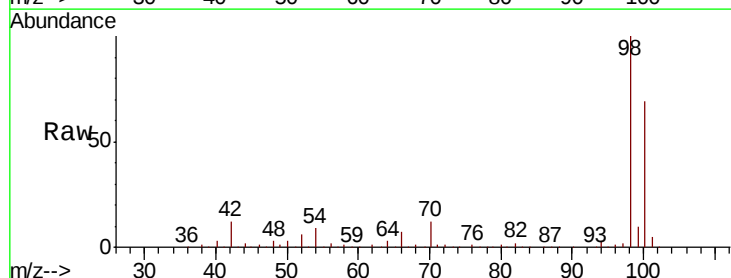
Acq: 10 Oct 2019 15:20

Tgt Ion: 98 Resp: 333874

Ion Ratio Lower Upper

98 100

100 67.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

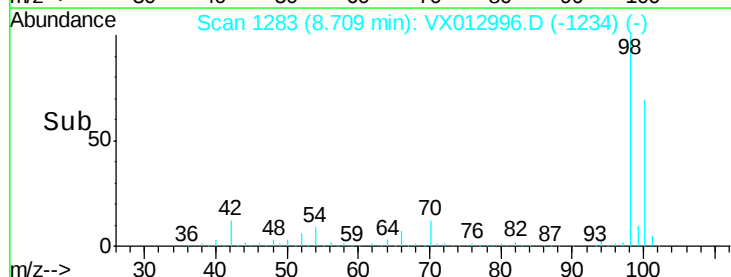
100000

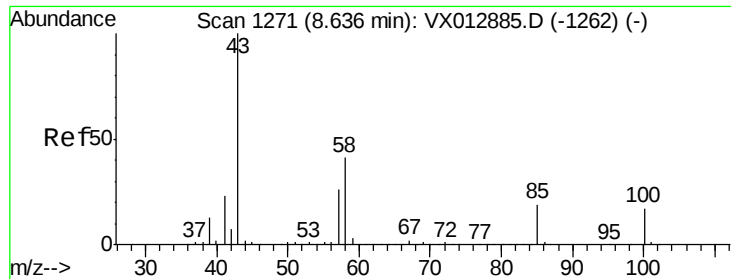
50000

0

Time-->

8.60 8.70 8.80





#51

4-Methyl-2-Pentanone

Concen: 0.559 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012996.D

Acq: 10 Oct 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

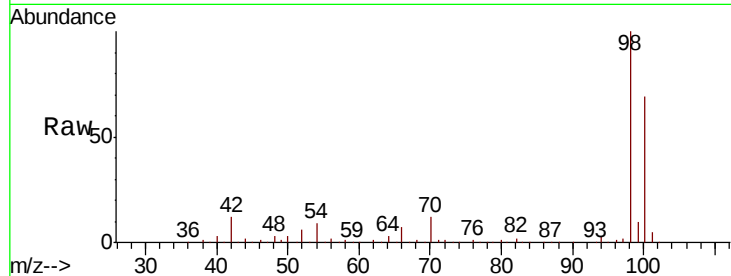
FA19-MMW0125R-9001

Tot Ion: 43 Resp: 1586

Ion Ratio Lower Upper

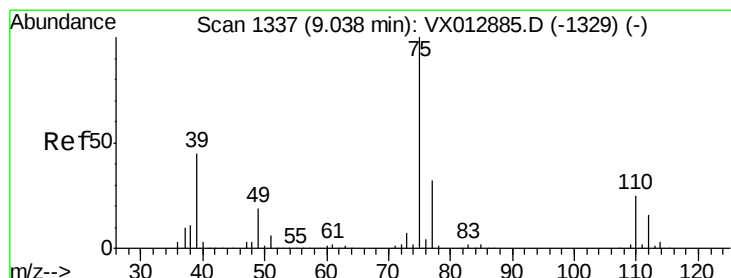
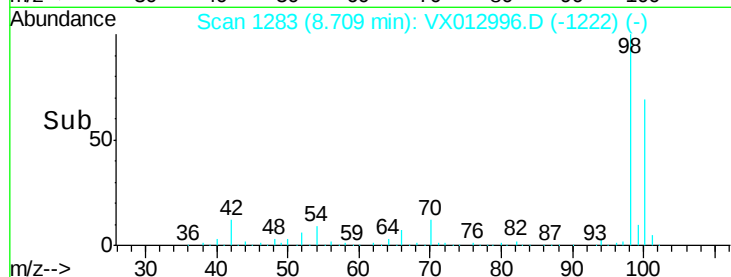
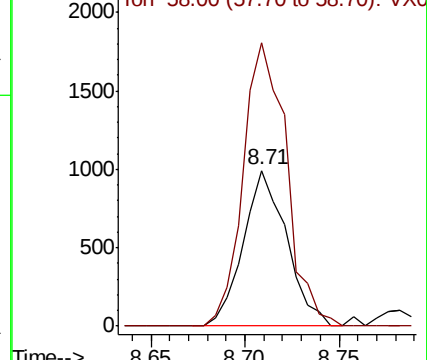
43 100

58 181.3 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.183 ug/l

RT: 9.04 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VX012996.D

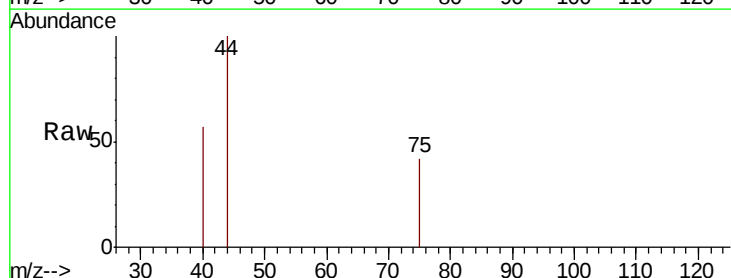
Acq: 10 Oct 2019 15:20

Tgt Ion: 75 Resp: 47

Ion Ratio Lower Upper

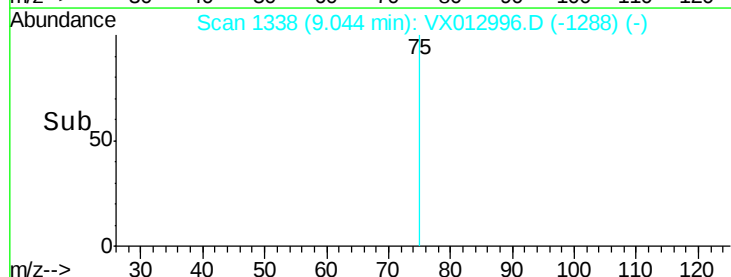
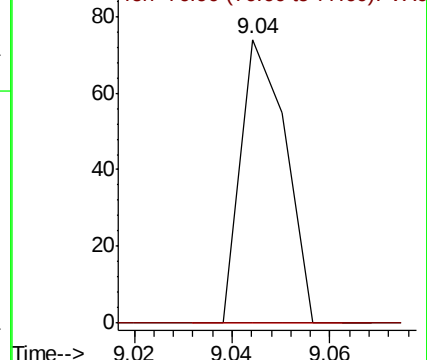
75 100

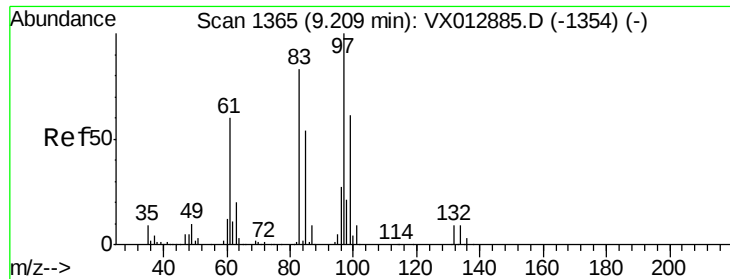
77 0.0 25.8 38.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

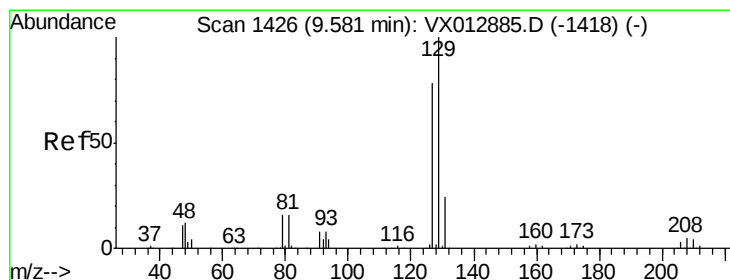
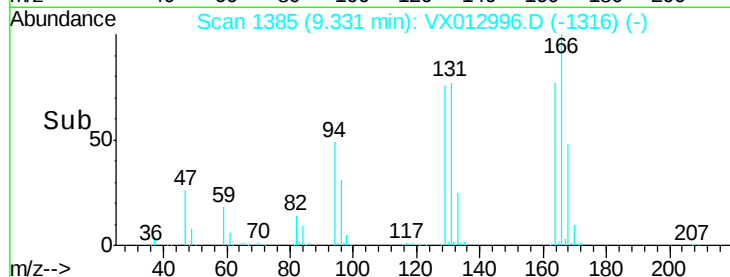
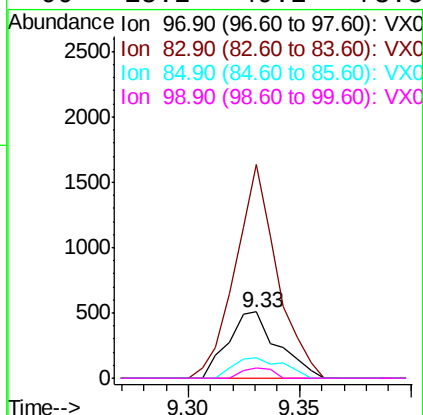
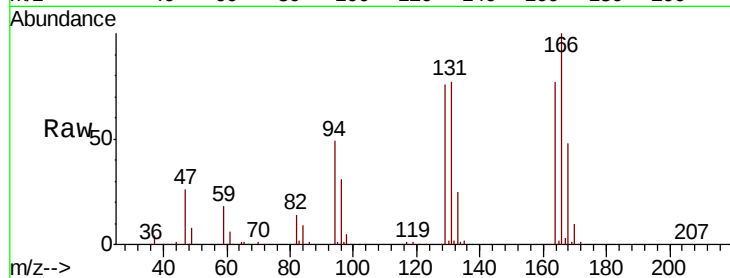




#55
 1,1,2-Trichloroethane
 Concen: 0.419 ug/l
 RT: 9.33 min Scan# 1385
 Delta R.T. 0.12 min
 Lab File: VX012996.D
 Acq: 10 Oct 2019 15:20

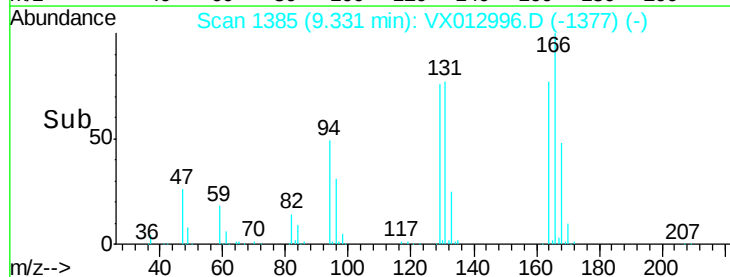
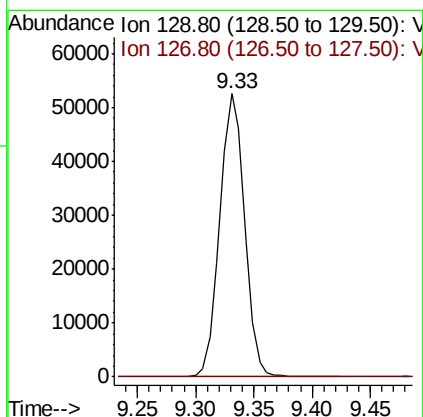
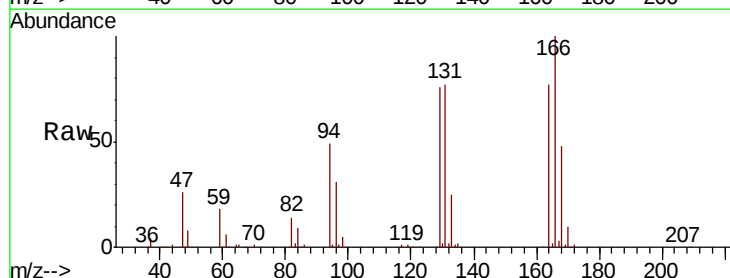
Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-MMW0125R-9001

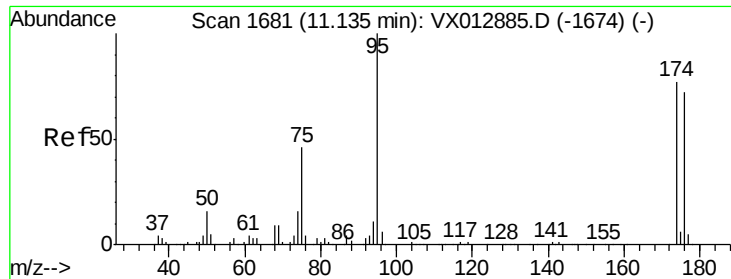
Tot Ion: 97 Resp: 793
 Ion Ratio Lower Upper
 97 100
 83 321.9 66.5 99.7#
 85 31.7 43.1 64.7#
 99 15.2 49.2 73.8#



#60
 Dibromochloromethane
 Concen: 37.168 ug/l
 RT: 9.33 min Scan# 1385
 Delta R.T. -0.25 min
 Lab File: VX012996.D
 Acq: 10 Oct 2019 15:20

Tgt Ion:129 Resp: 77316
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.9 116.7#





#62

4-Bromofluorobenzene

Concen: 45.617 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012996.D

Acq: 10 Oct 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

FA19-MMW0125R-9001

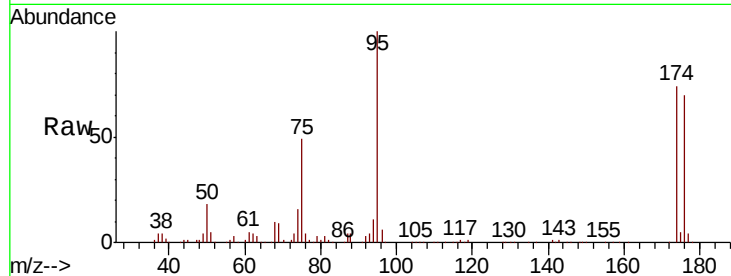
Tot Ion: 95 Resp: 114335

Ion Ratio Lower Upper

95 100

174 71.8 0.0 143.4

176 68.4 0.0 136.0

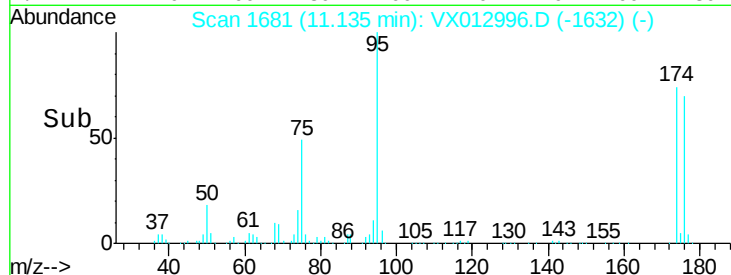


Abundance Ion 94.90 (94.60 to 95.60): VX012885.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX012885.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX012885.D (-1674) (-)

Time-->

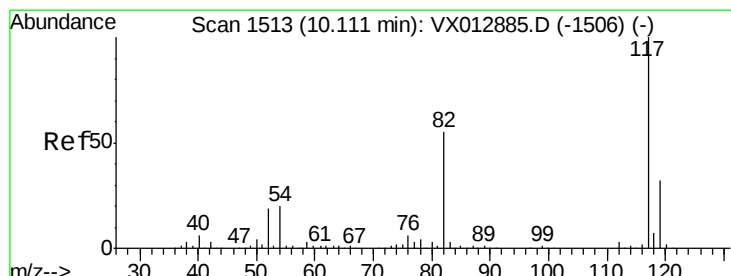


Abundance Ion 94.90 (94.60 to 95.60): VX012996.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012996.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012996.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012996.D

Acq: 10 Oct 2019 15:20

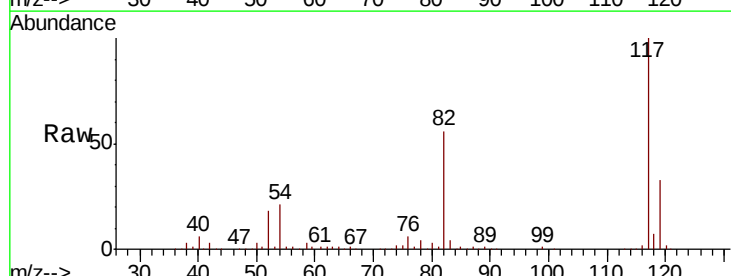
Tgt Ion: 117 Resp: 243991

Ion Ratio Lower Upper

117 100

82 56.3 44.1 66.1

119 32.6 25.8 38.8

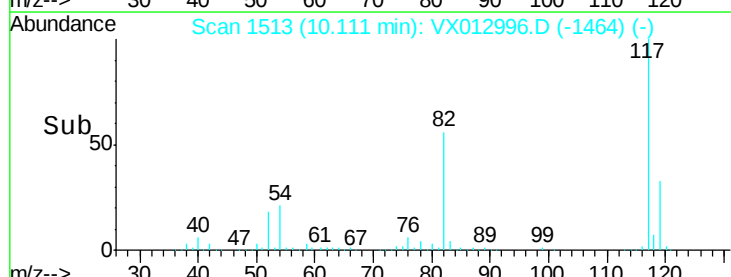


Abundance Ion 116.90 (116.60 to 117.60): VX012885.D (-1506) (-)

Ion 82.00 (81.70 to 82.70): VX012885.D (-1506) (-)

Ion 118.90 (118.60 to 119.60): VX012885.D (-1506) (-)

Time-->

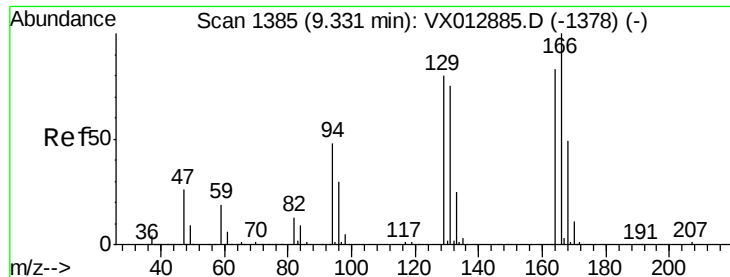


Abundance Ion 116.90 (116.60 to 117.60): VX012996.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012996.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012996.D (-1464) (-)

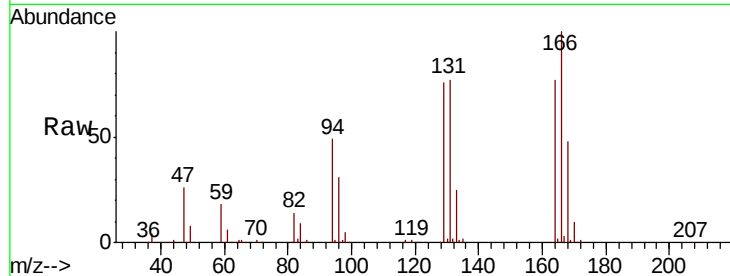
Time-->



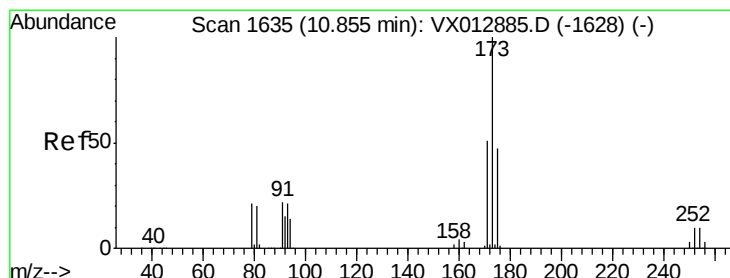
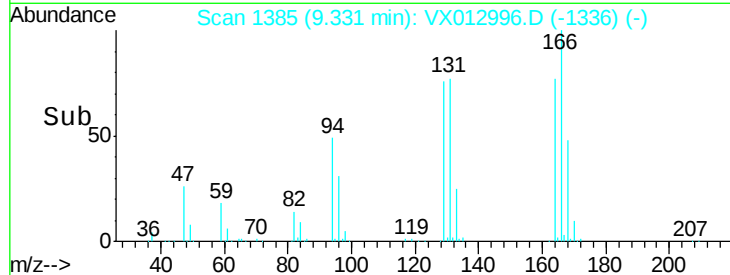
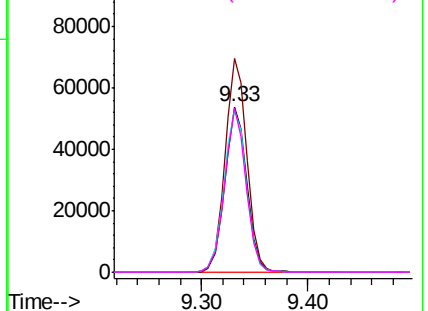
#64
Tetrachloroethene
Concen: 45.725 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX012996.D
Acq: 10 Oct 2019 15:20

Instrument :
MSVOA_X
ClientSampleId :
FA19-MMW0125R-9001

Tot Ion:164 Resp: 77381
Ion Ratio Lower Upper
164 100
166 129.2 96.9 145.3
129 97.7 77.9 116.9
131 99.0 72.7 109.1

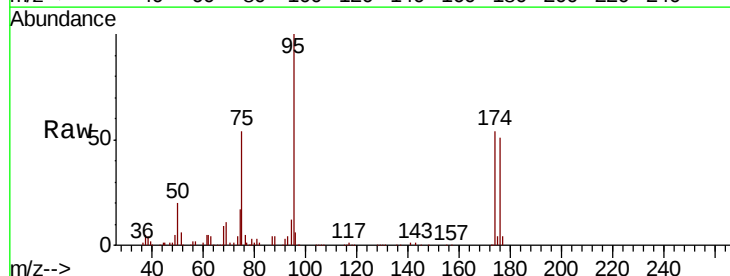


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

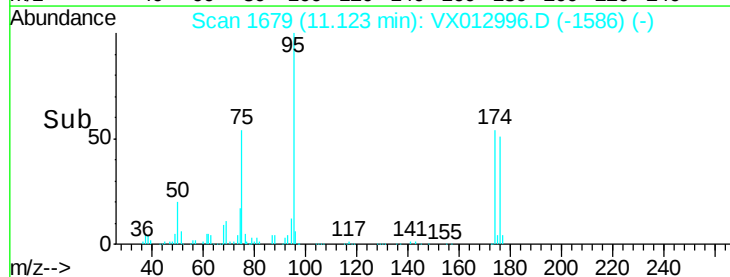
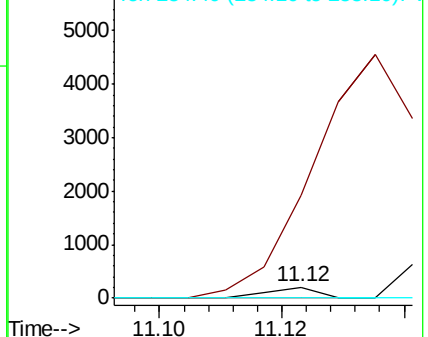


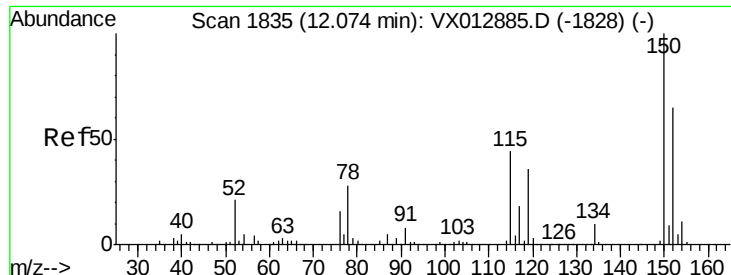
#71
Bromoform
Concen: 3.205 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.27 min
Lab File: VX012996.D
Acq: 10 Oct 2019 15:20

Tgt Ion:173 Resp: 110
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VX012996.D

Acq: 10 Oct 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

FA19-MMW0125R-9001

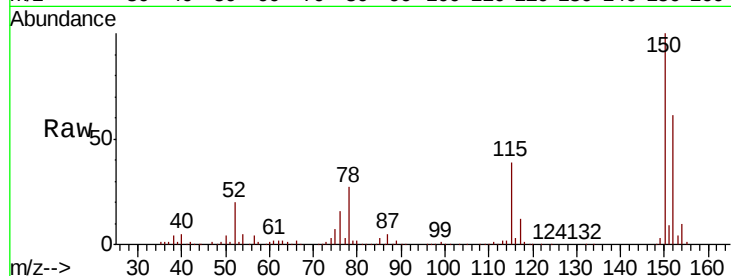
Tot Ion:152 Resp: 94483

Ion Ratio Lower Upper

152 100

115 64.2 44.5 133.5

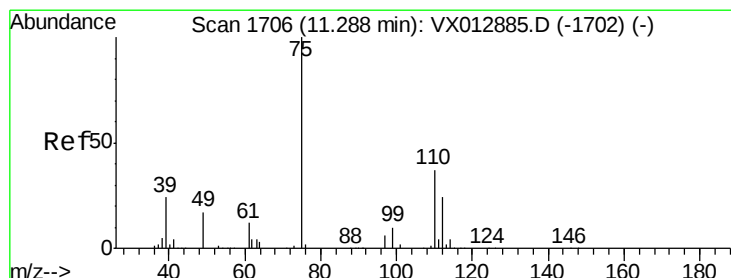
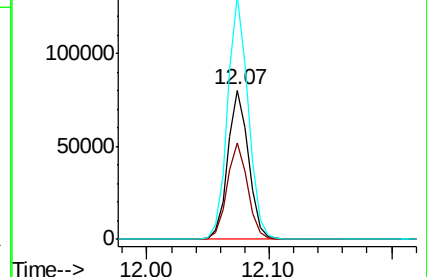
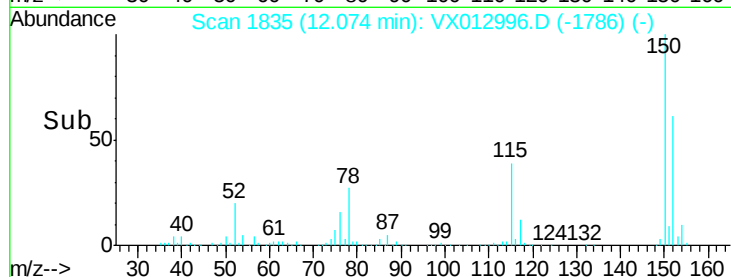
150 161.3 0.0 353.4



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: 27.121 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX012996.D

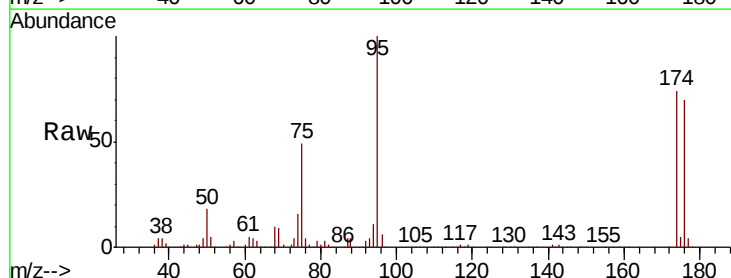
Acq: 10 Oct 2019 15:20

Tgt Ion: 75 Resp: 56835

Ion Ratio Lower Upper

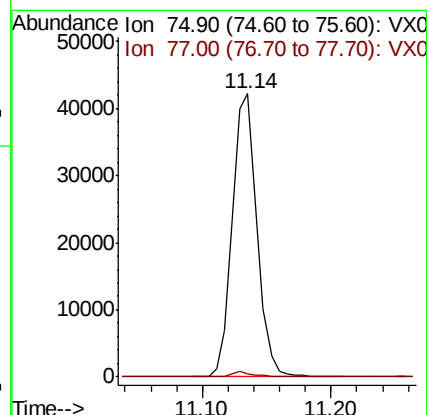
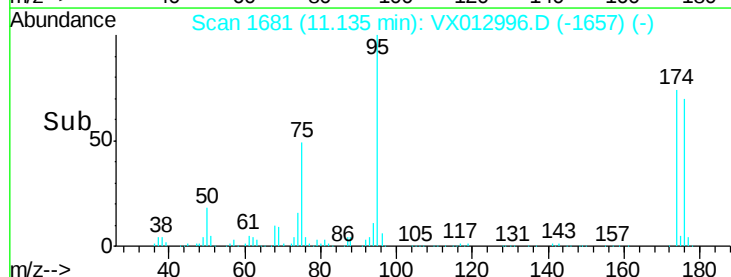
75 100

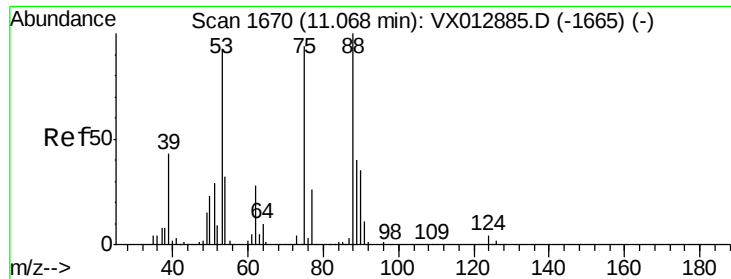
77 1.5 22.9 68.8#



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: 68.128 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012996.D

Acq: 10 Oct 2019 15:20

Instrument :

MSVOA_X

ClientSampleId :

FA19-MMW0125R-9001

Tot Ion: 75 Resp: 56835

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#

