

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031219\
 Data File : VX008021.D
 Acq On : 12 Mar 2019 17:27
 Operator : JC/SP
 Sample : K1841-09DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D1-20190308DL

Quant Time: Mar 13 05:21:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	229346	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	361611	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	336209	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	170381	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	127574	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
35) Dibromofluoromethane	5.50	113	115881	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
50) Toluene-d8	8.71	98	437533	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
62) 4-Bromofluorobenzene	11.13	95	162125	54.43	ug/l	0.00
Spiked Amount			Recovery	=	108.86%	

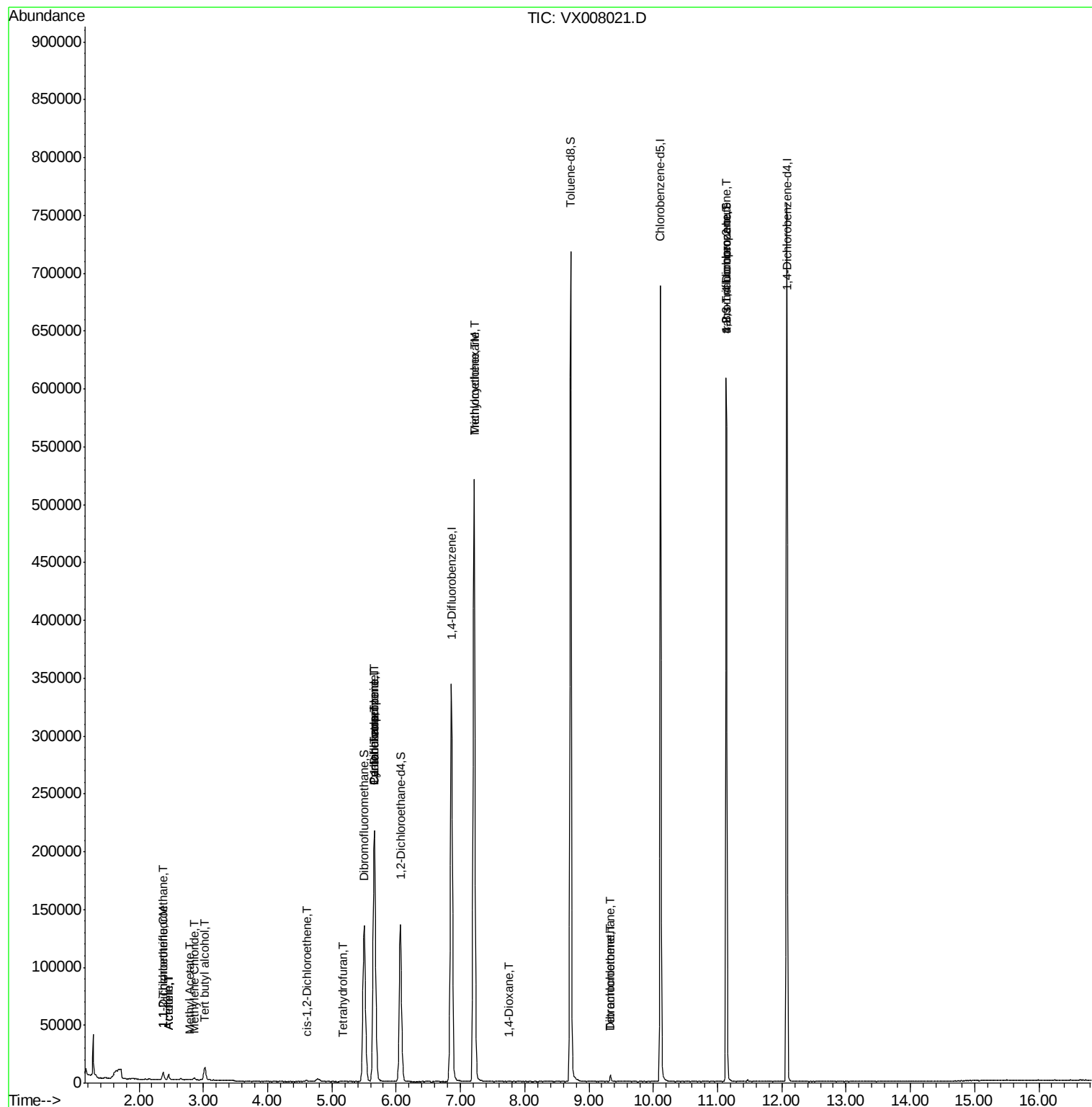
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	538	Below Cal		93
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1561	0.771	ug/l	97
11) Tert butyl alcohol	3.02	59	7270	13.437	ug/l #	74
12) 1,1-Dichloroethene	2.37	96	837	0.429	ug/l	79
13) Acrolein	2.45	56	20	1.606	ug/l #	1
16) Acetone	2.46	43	5868	4.190	ug/l	98
17) Carbon Disulfide	2.56	76	525	Below Cal	#	87
18) Methyl Acetate	2.79	43	1016	0.342	ug/l #	70
20) Methylene Chloride	2.85	84	691	0.310	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	567	0.231	ug/l	41
29) Tetrahydrofuran	5.17	42	449	0.363	ug/l #	57
31) Cyclohexane	5.67	56	3699	0.995	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14213	4.341	ug/l #	49
38) Carbon Tetrachloride	5.66	117	19571	6.296	ug/l #	17
39) Methylcyclohexane	7.21	83	2243	0.565	ug/l #	1
44) Trichloroethene	7.21	130	215991	80.404	ug/l	100
49) 1,4-Dioxane	7.76	88	86	1.385	ug/l #	41
60) Dibromochloromethane	9.33	129	1093	0.434	ug/l #	11
64) Tetrachloroethene	9.34	164	1212	0.435	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	72437	20.260	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	72437	64.762	ug/l #	11

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

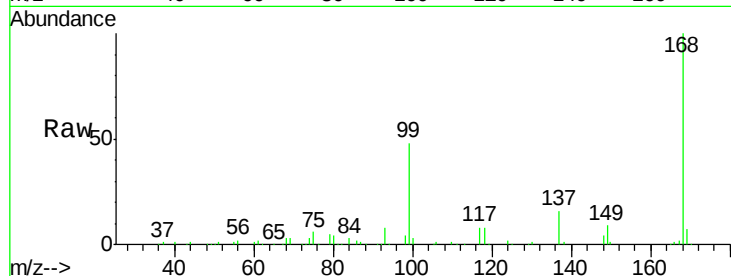
RE103D1-20190308DL

Tot Ion:168 Resp: 229346

Ion Ratio Lower Upper

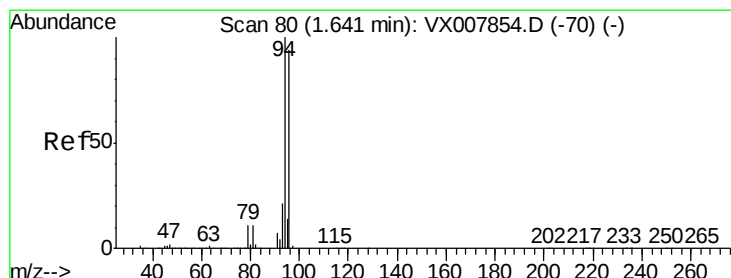
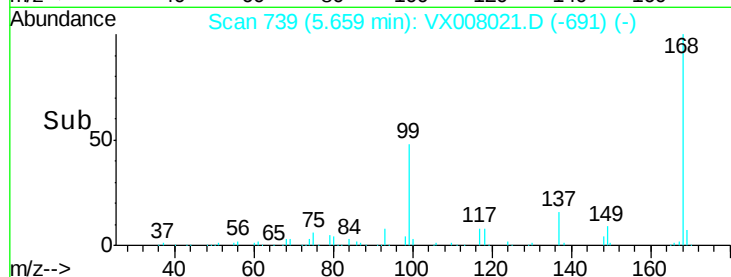
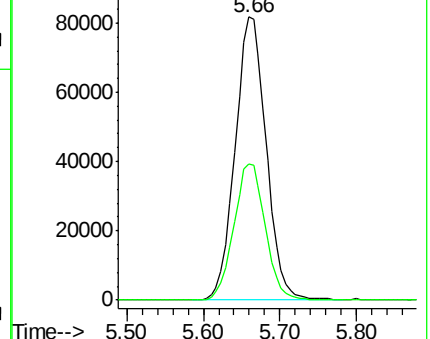
168 100

99 48.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX008021.D

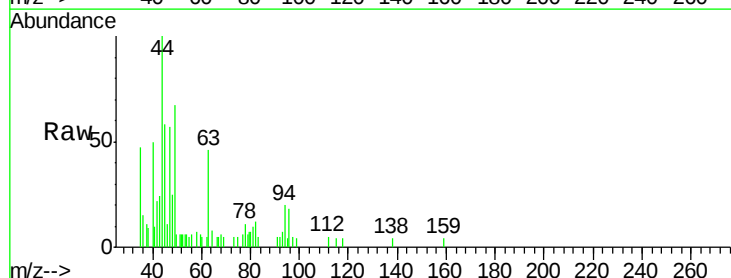
Acq: 12 Mar 2019 17:27

Tgt Ion: 94 Resp: 538

Ion Ratio Lower Upper

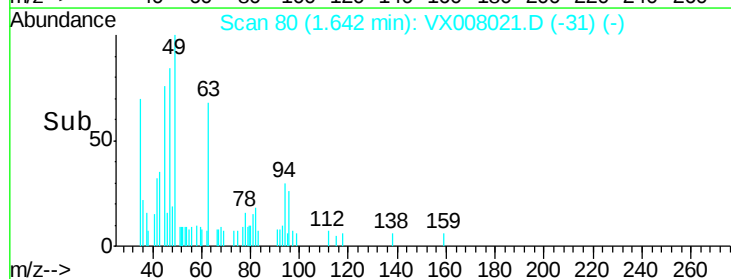
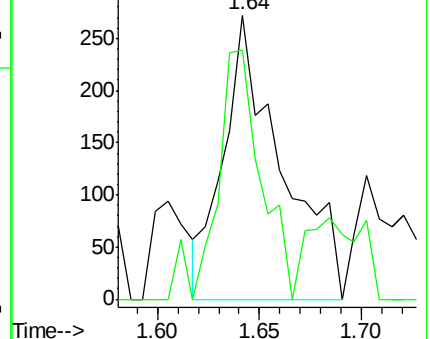
94 100

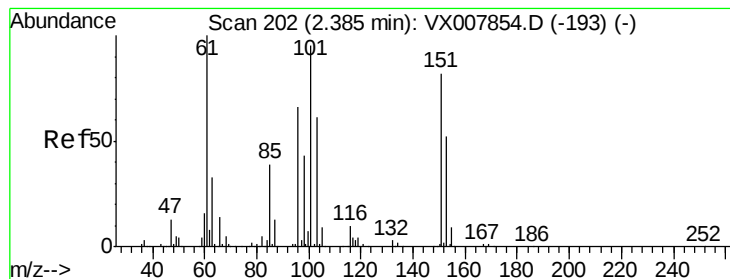
96 87.9 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.771 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.01 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20190308DL

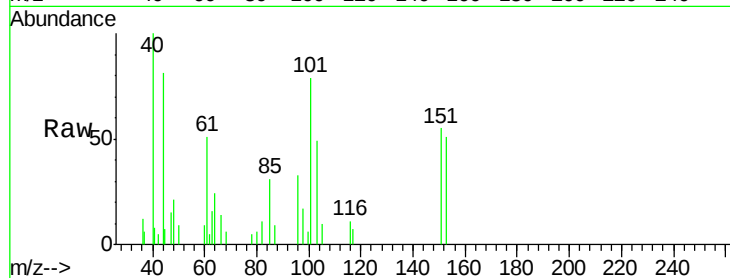
Tot Ion:101 Resp: 1561

Ion Ratio Lower Upper

101 100

85 41.3 33.8 50.6

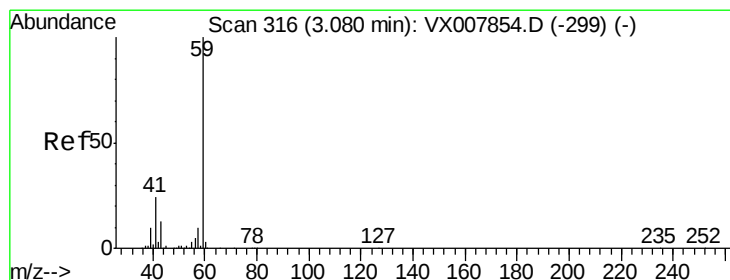
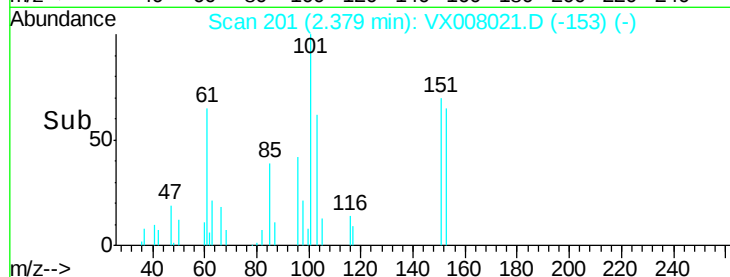
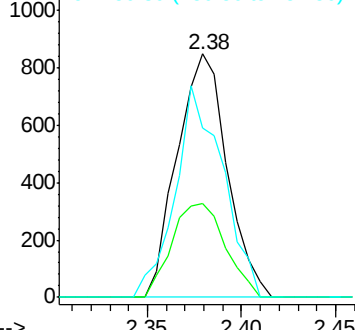
151 82.6 69.1 103.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 13.437 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX008021.D

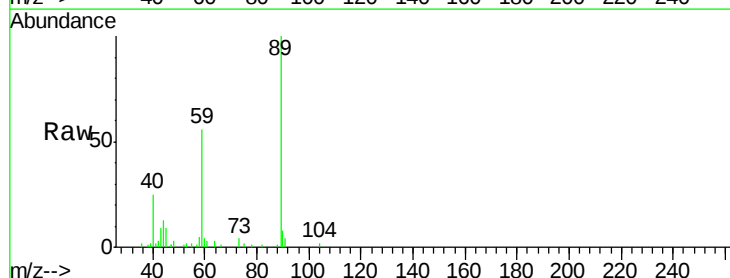
Acq: 12 Mar 2019 17:27

Tgt Ion: 59 Resp: 7270

Ion Ratio Lower Upper

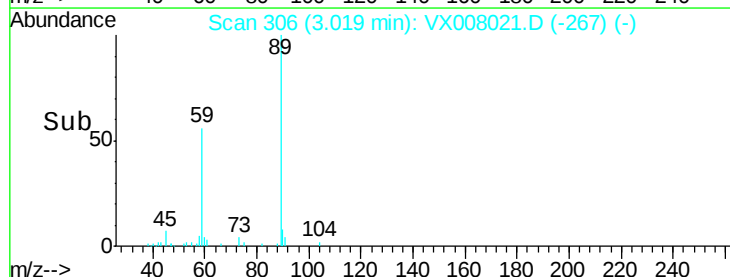
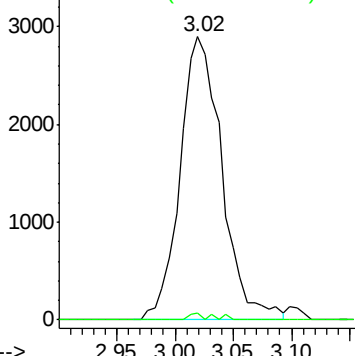
59 100

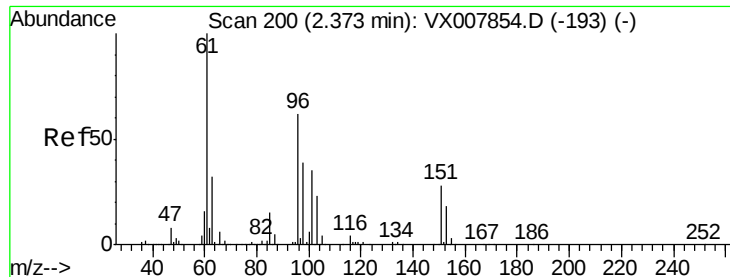
57 0.6 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.429 ug/l

RT: 2.37 min Scan# 199

Delta R.T. -0.01 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20190308DL

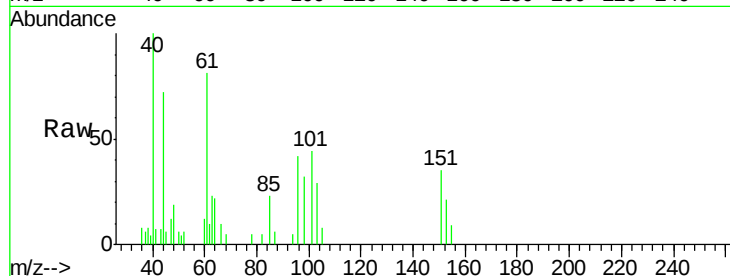
Tot Ion: 96 Resp: 837

Ion Ratio Lower Upper

96 100

61 194.0 129.8 194.6

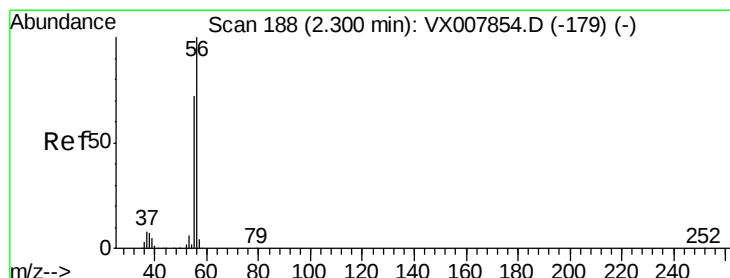
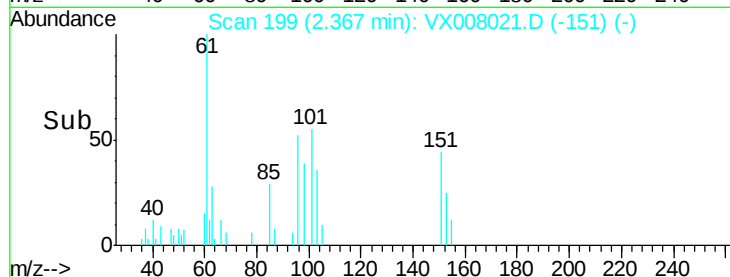
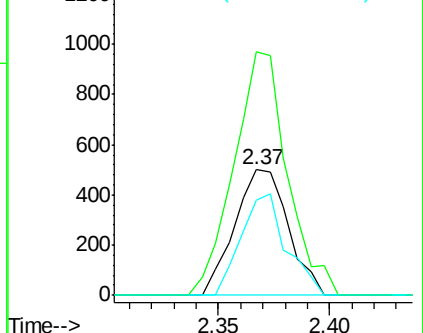
98 75.8 51.0 76.6



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



#13

Acrolein

Concen: 1.606 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.15 min

Lab File: VX008021.D

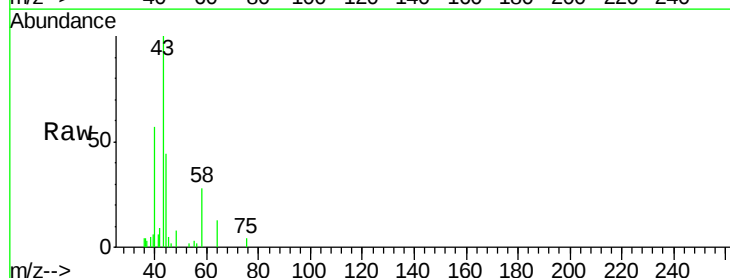
Acq: 12 Mar 2019 17:27

Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

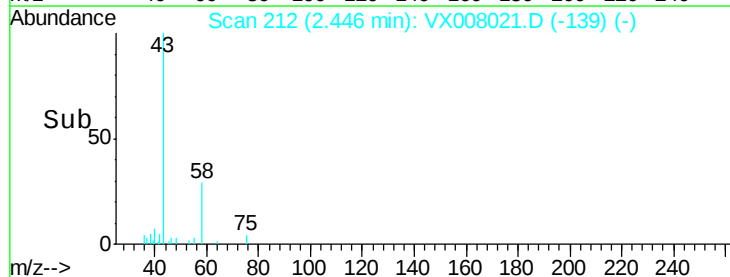
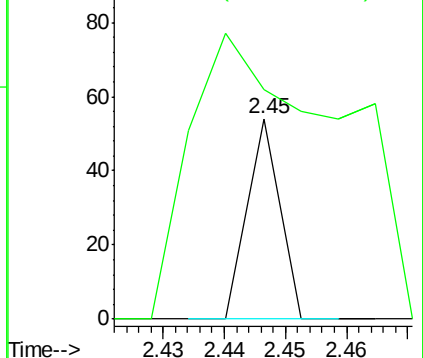
56 100

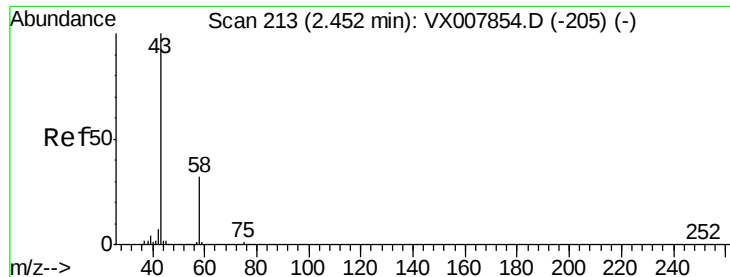
55 655.0 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 4.190 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

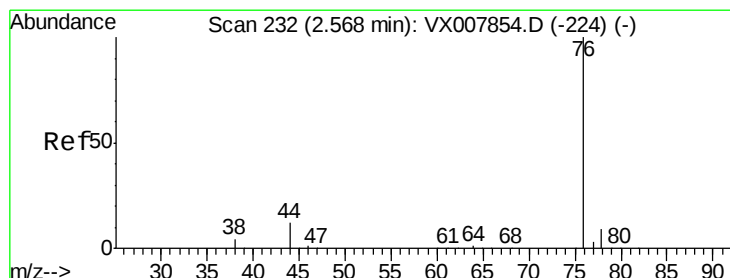
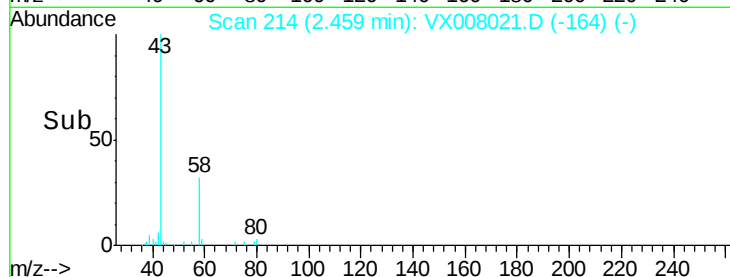
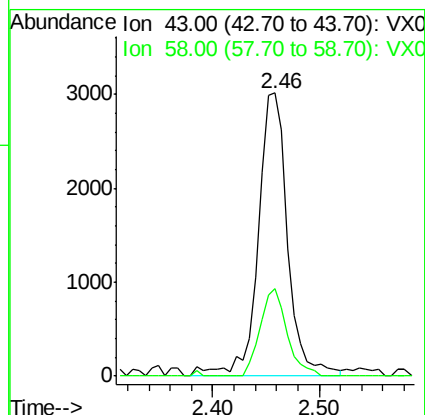
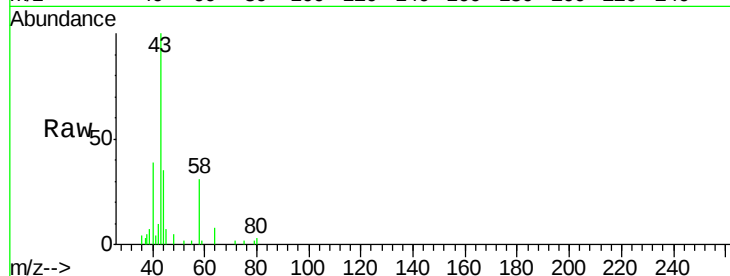
RE103D1-20190308DL

Tot Ion: 43 Resp: 5868

Ion Ratio Lower Upper

43 100

58 30.8 25.5 38.3



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX008021.D

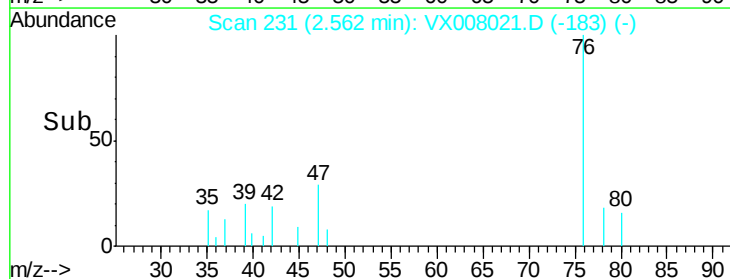
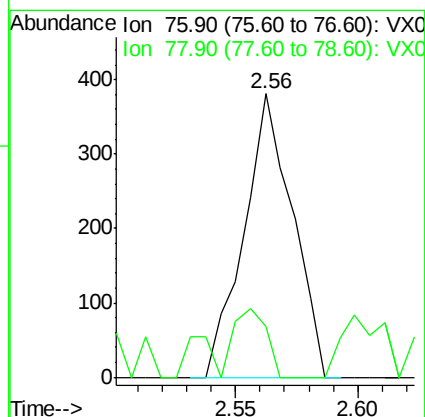
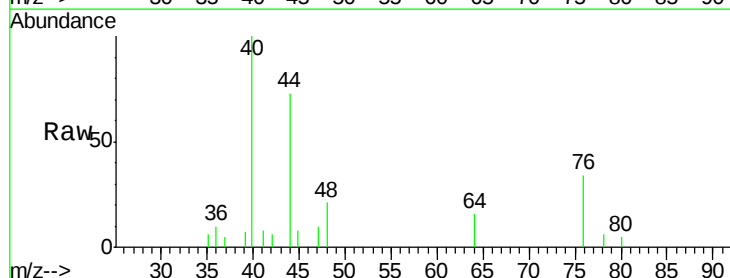
Acq: 12 Mar 2019 17:27

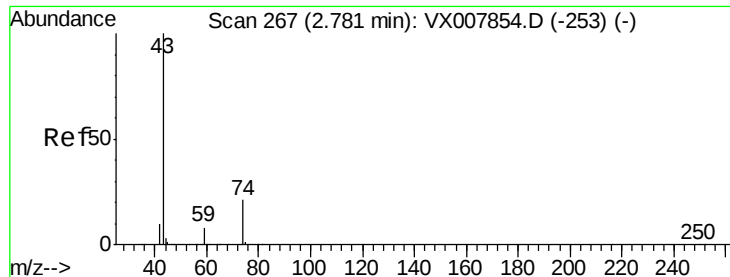
Tgt Ion: 76 Resp: 525

Ion Ratio Lower Upper

76 100

78 4.5 7.2 10.8#

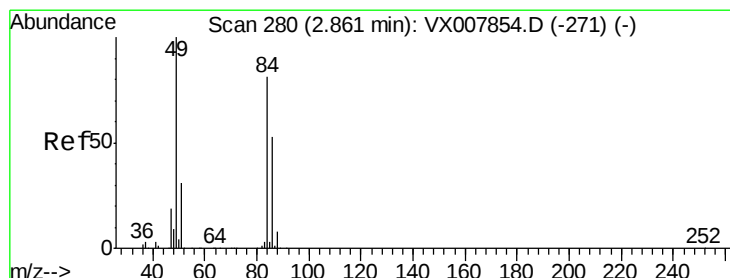
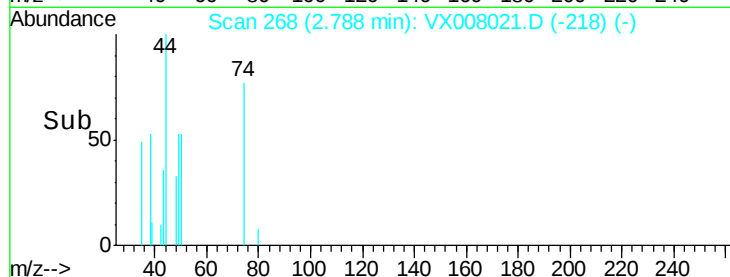
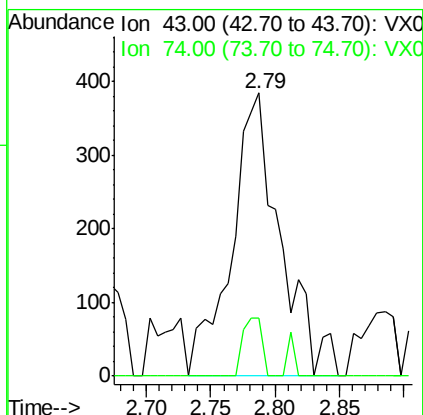
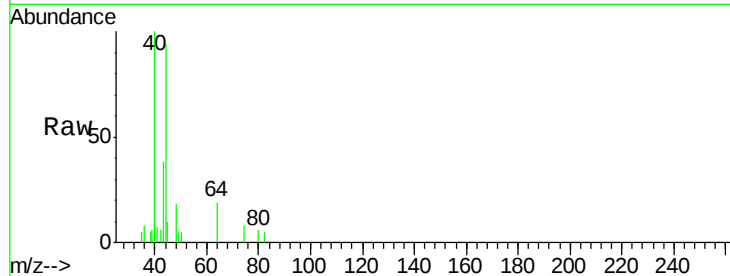




#18
Methyl Acetate
Concen: 0.342 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX008021.D
Acq: 12 Mar 2019 17:27

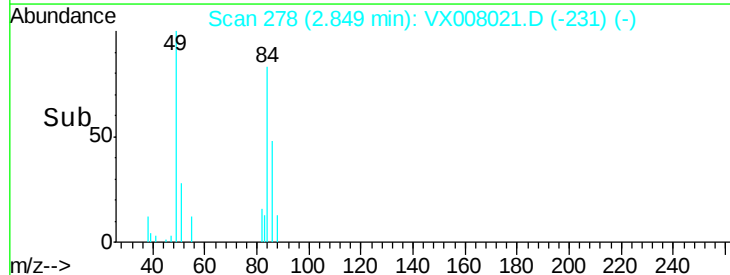
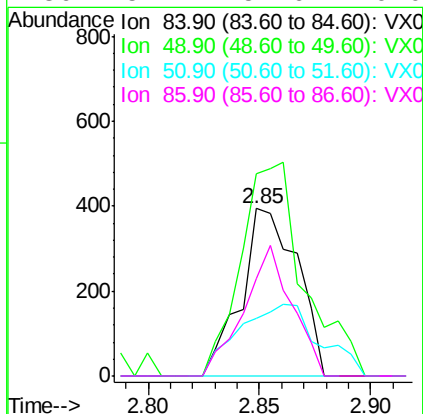
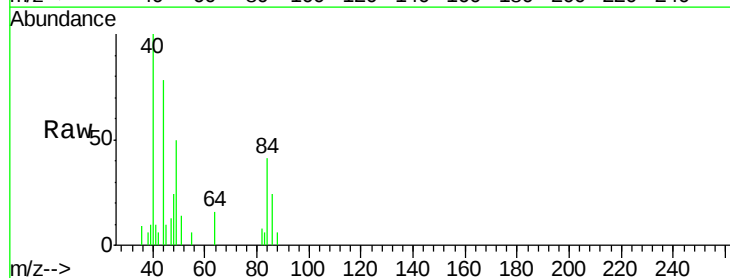
Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20190308DL

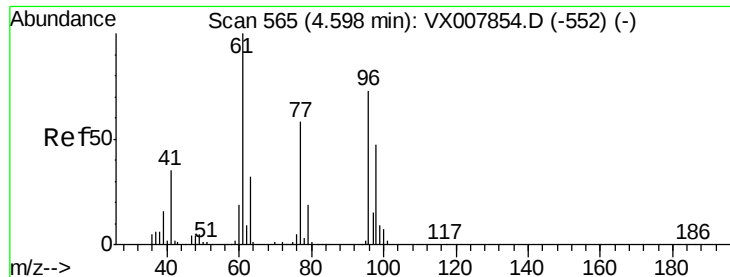
Tot Ion: 43 Resp: 1016
Ion Ratio Lower Upper
43 100
74 7.9 17.8 26.6#



#20
Methylene Chloride
Concen: 0.310 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX008021.D
Acq: 12 Mar 2019 17:27

Tgt Ion: 84 Resp: 691
Ion Ratio Lower Upper
84 100
49 120.5 99.3 148.9
51 34.2 31.3 46.9
86 57.7 52.6 79.0





#27

cis-1,2-Dichloroethene

Concen: 0.231 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20190308DL

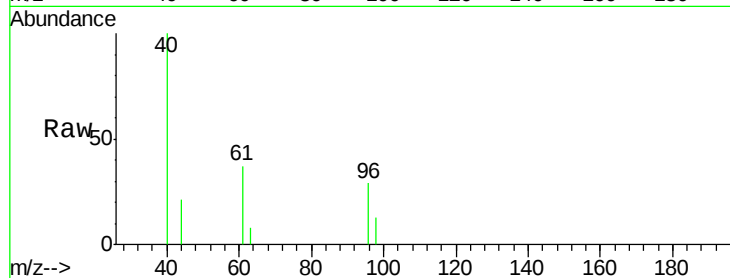
Tot Ion: 96 Resp: 567

Ion Ratio Lower Upper

96 100

61 247.6 0.0 288.0

98 61.9 0.0 129.0



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

4.60

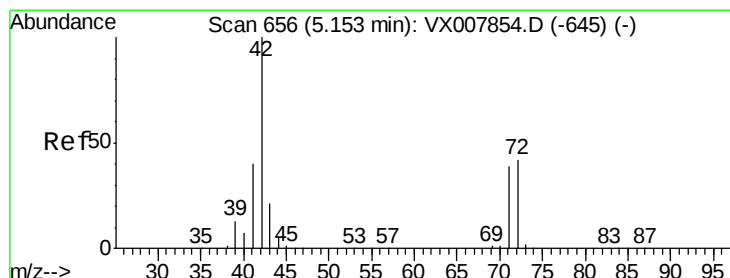
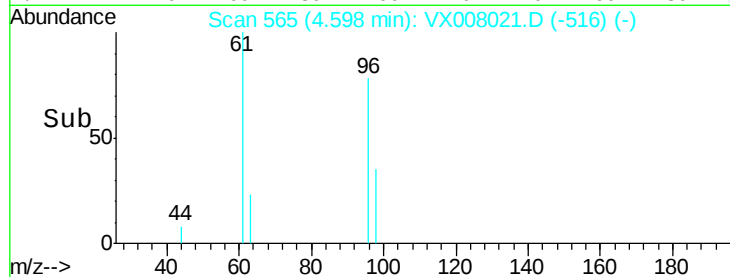
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.363 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

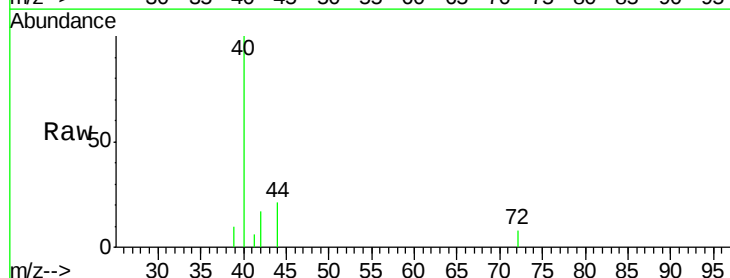
Tgt Ion: 42 Resp: 449

Ion Ratio Lower Upper

42 100

72 23.2 33.8 50.6#

71 4.9 31.5 47.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.17

200

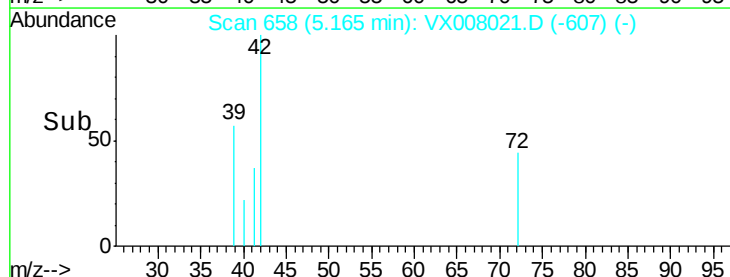
150

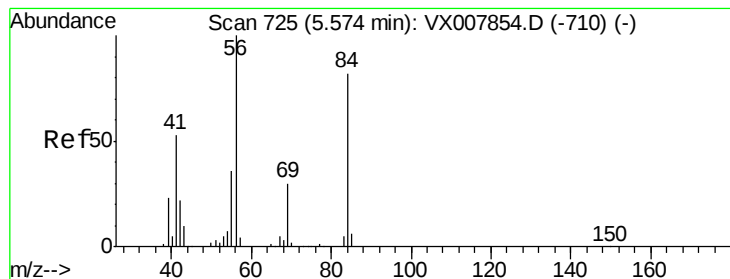
100

50

0

Time-->





#31

Cyclohexane

Concen: 0.995 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

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ClientSampleId :

RE103D1-20190308DL

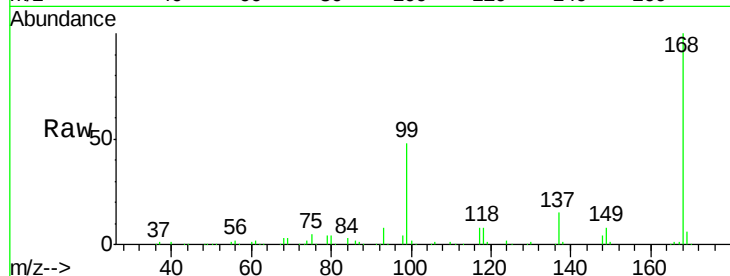
Tot Ion: 56 Resp: 3699

Ion Ratio Lower Upper

56 100

69 170.9 24.0 36.0#

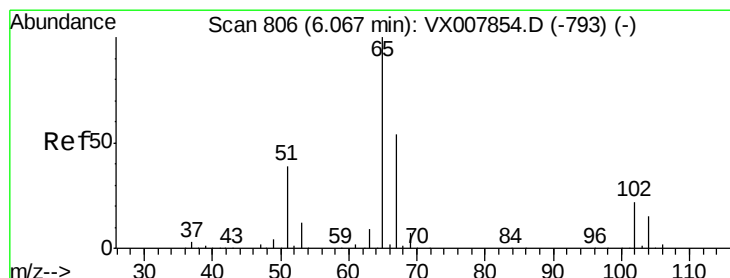
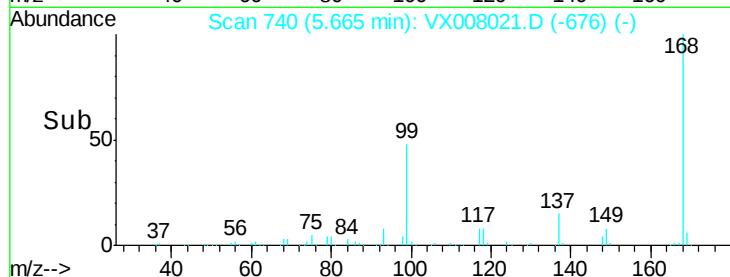
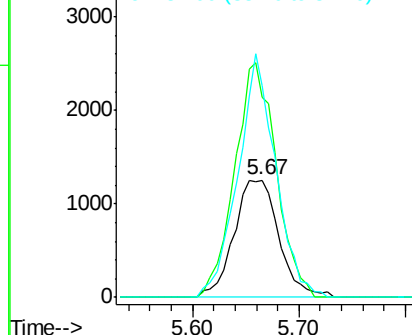
84 181.2 65.3 97.9#



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: 52.730 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX008021.D

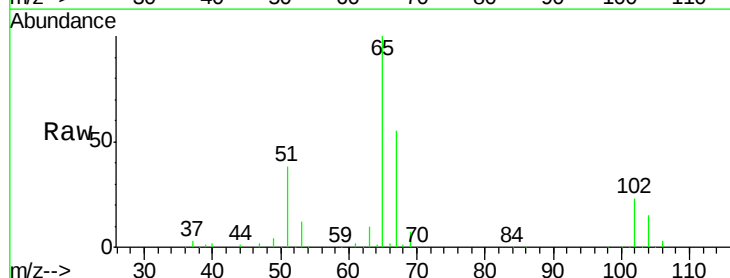
Acq: 12 Mar 2019 17:27

Tgt Ion: 65 Resp: 127574

Ion Ratio Lower Upper

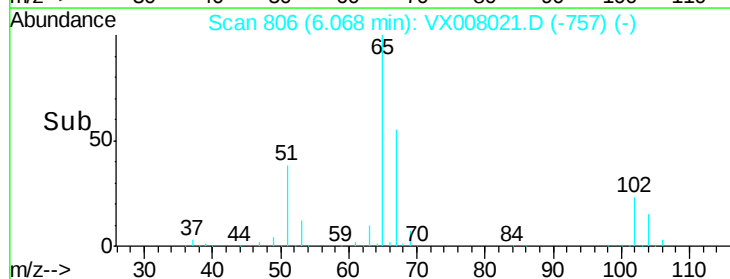
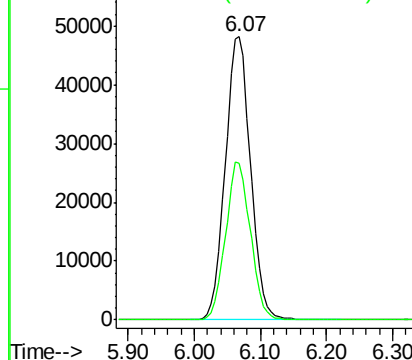
65 100

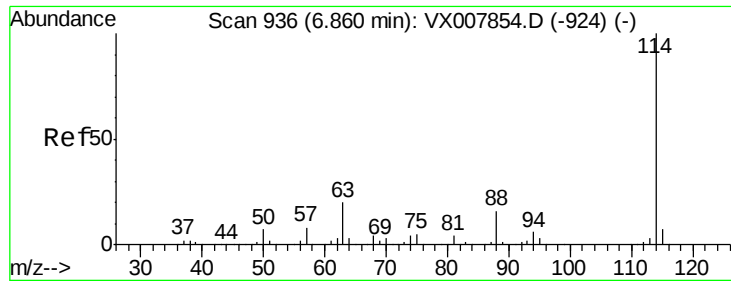
67 54.7 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

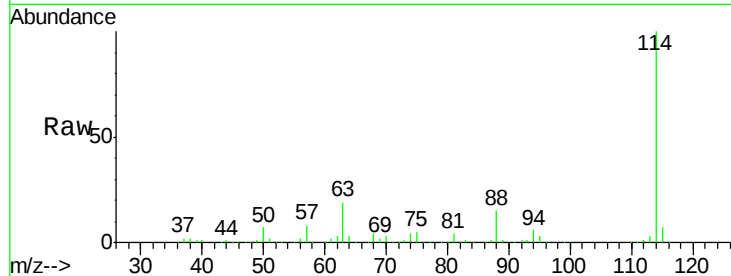




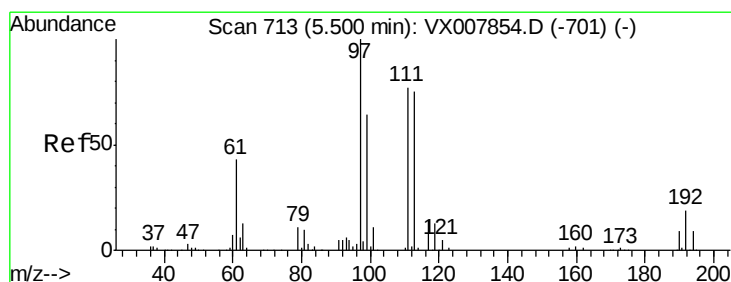
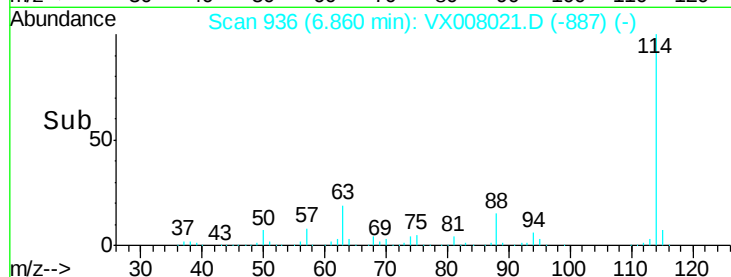
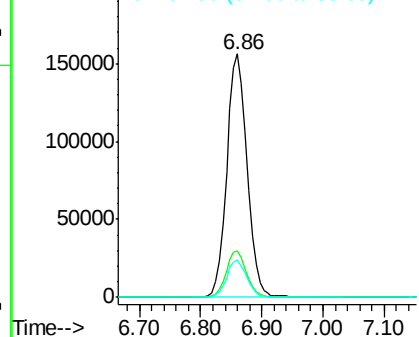
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX008021.D
Acq: 12 Mar 2019 17:27

Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20190308DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	39.8
88	15.4	0.0	31.4

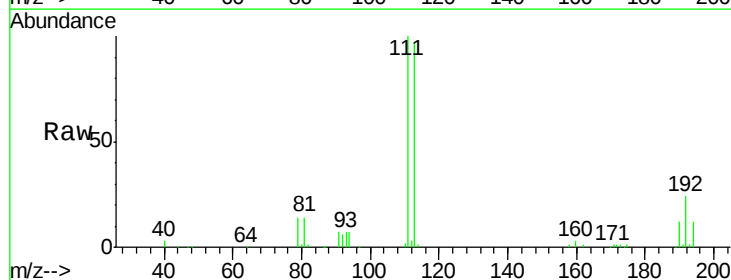


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX
Ion 87.90 (87.60 to 88.60): VX

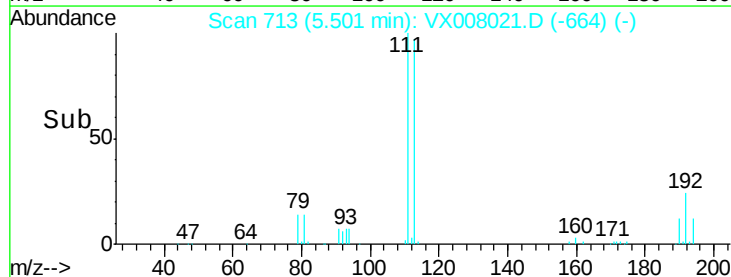
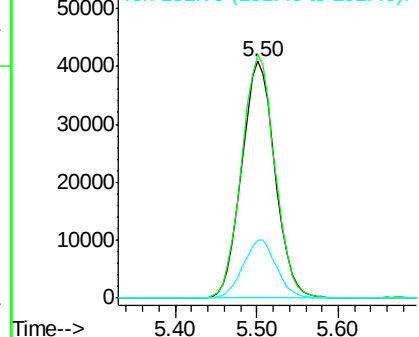


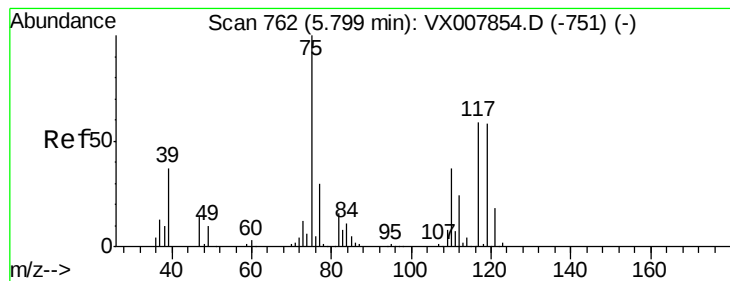
#35
Dibromofluoromethane
Concen: 50.098 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX008021.D
Acq: 12 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.4	122.0
192	24.6	19.4	29.0



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: 4.341 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20190308DL

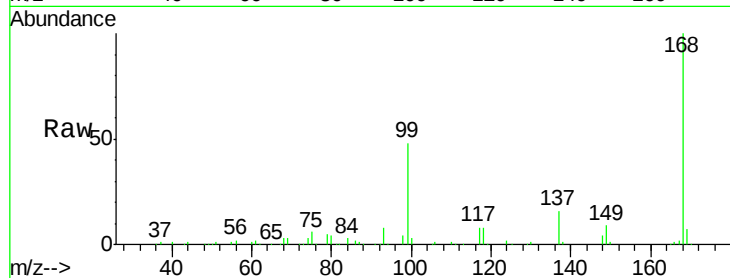
Tot Ion: 75 Resp: 14213

Ion Ratio Lower Upper

75 100

110 8.8 18.4 55.0#

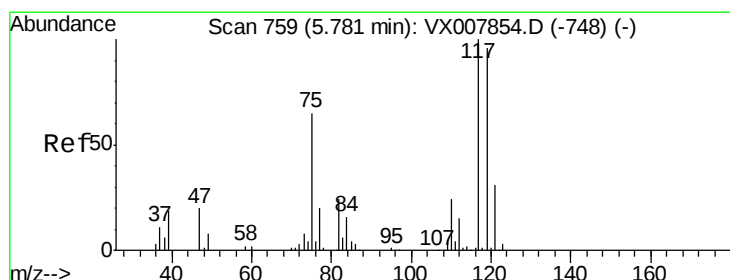
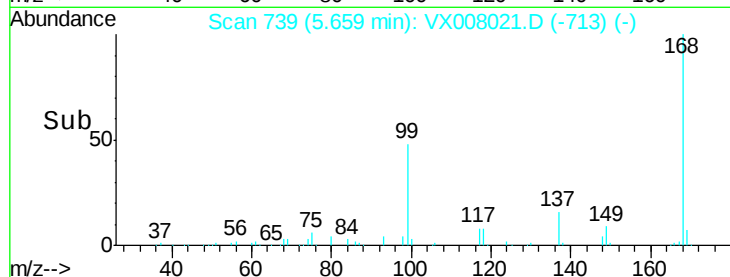
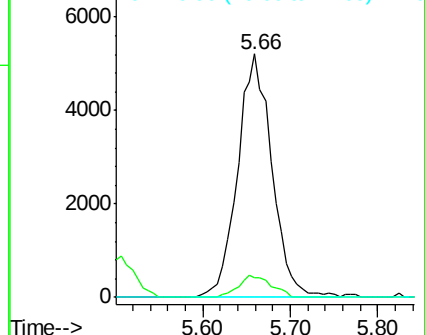
77 0.0 25.0 37.4#



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: 6.296 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

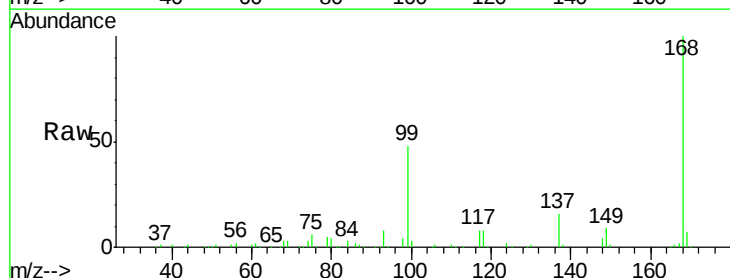
Tgt Ion:117 Resp: 19571

Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.2#

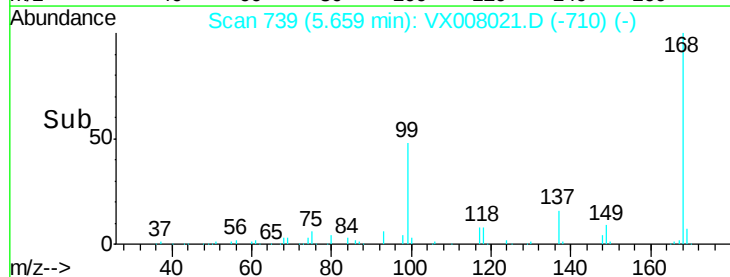
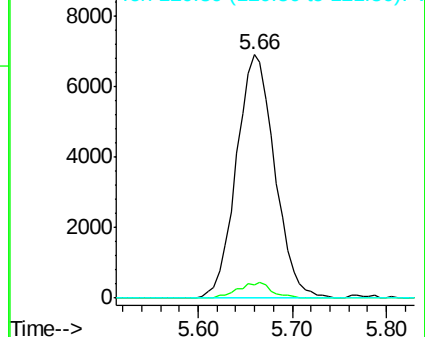
121 0.0 24.6 36.8#

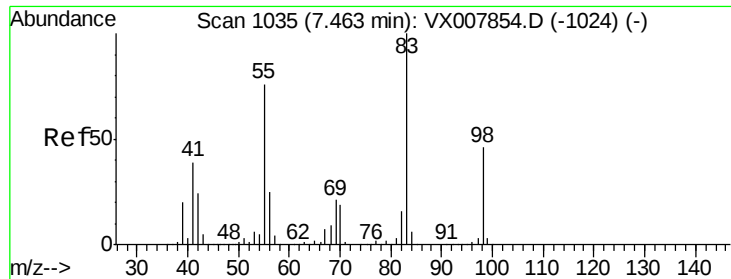


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

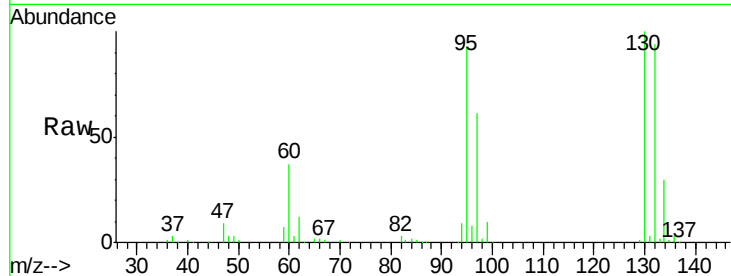




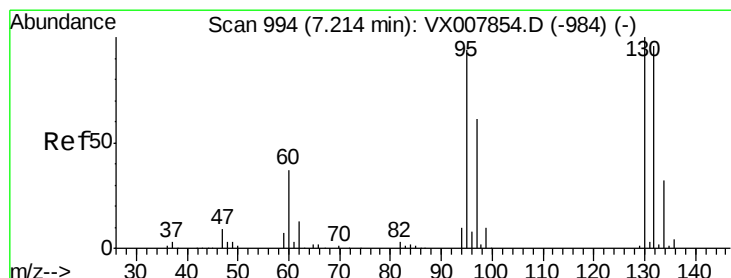
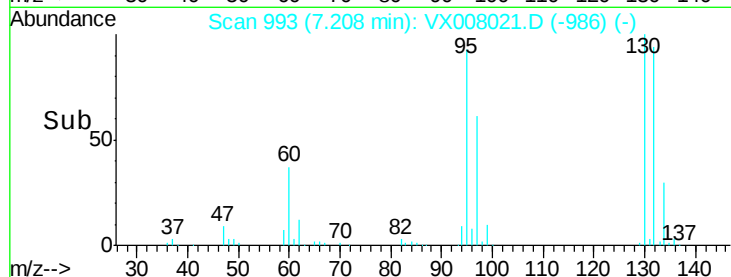
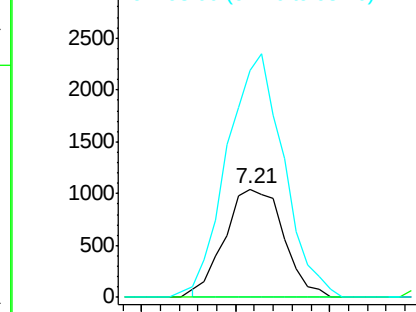
#39
Methvlcvclohexane
Concen: 0.565 ug/l
RT: 7.21 min Scan# 993
Delta R.T. -0.26 min
Lab File: VX008021.D
Acq: 12 Mar 2019 17:27

Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20190308DL

Tot Ion: 83 Resp: 2243
Ion Ratio Lower Upper
83 100
55 0.0 60.4 90.6#
98 208.5 36.5 54.7#

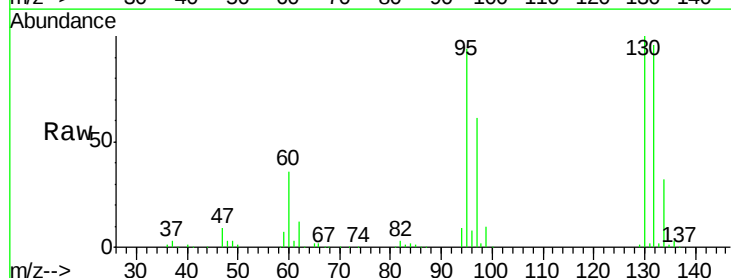


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

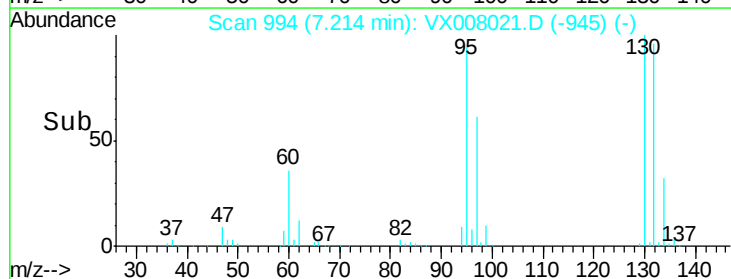
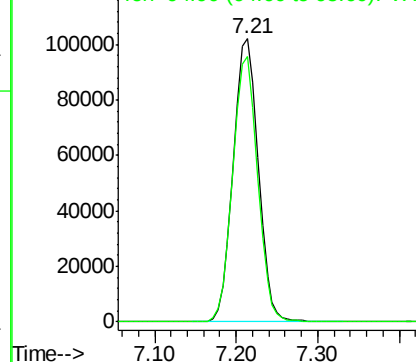


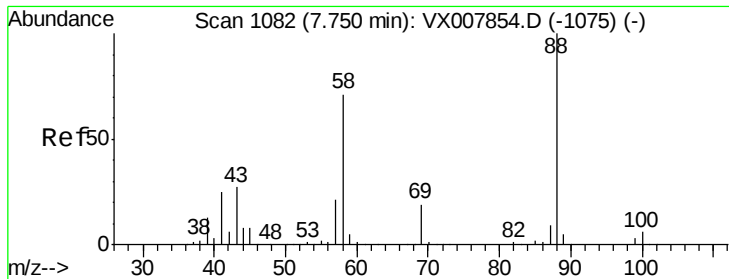
#44
Trichloroethene
Concen: 80.404 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX008021.D
Acq: 12 Mar 2019 17:27

Tgt Ion:130 Resp: 215991
Ion Ratio Lower Upper
130 100
95 93.9 0.0 188.0



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





#49

1,4-Dioxane

Concen: 1.385 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20190308DL

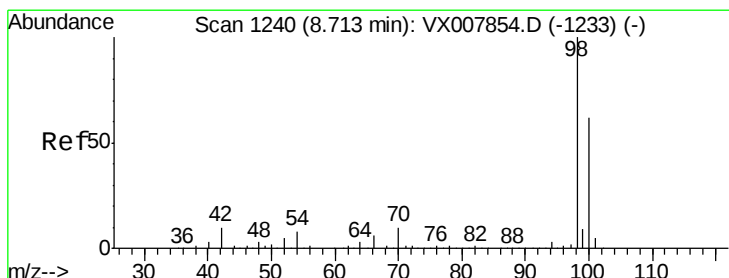
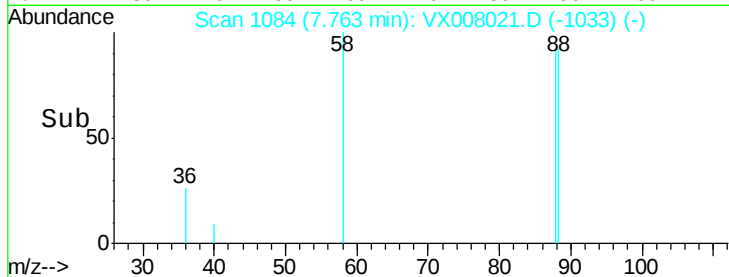
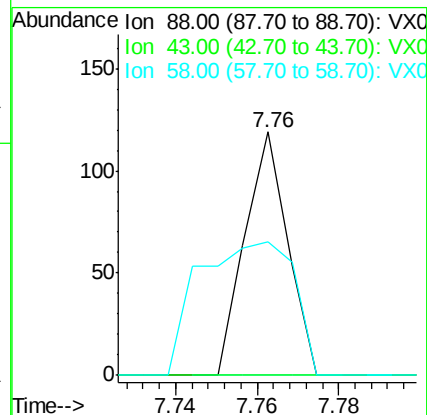
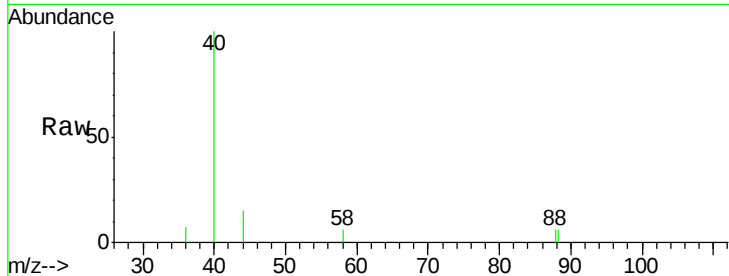
Tot Ion: 88 Resp: 86

Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

58 122.1 57.8 86.6#



#50

Toluene-d8

Concen: 51.505 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008021.D

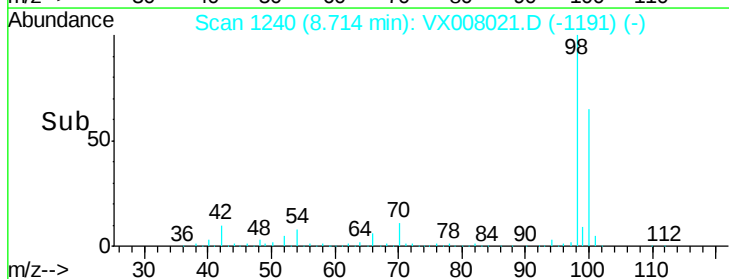
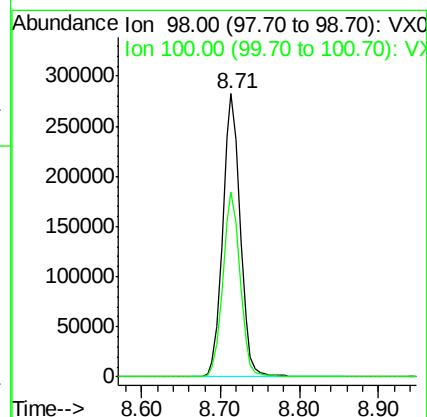
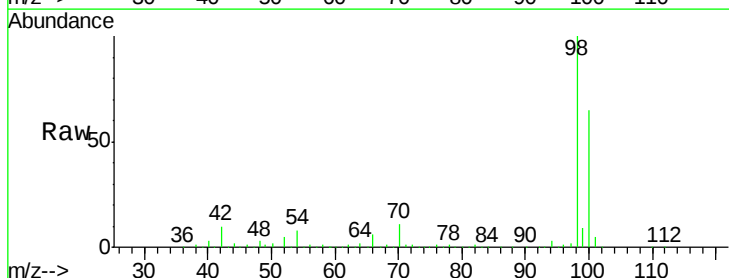
Acq: 12 Mar 2019 17:27

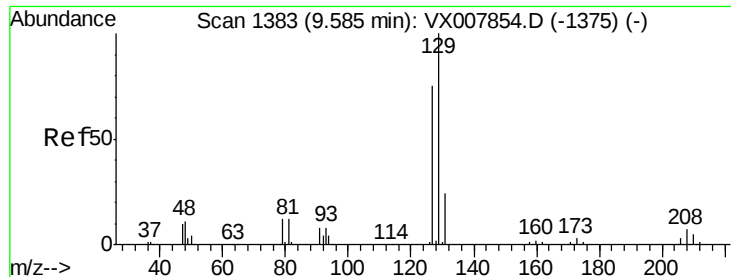
Tgt Ion: 98 Resp: 437533

Ion Ratio Lower Upper

98 100

100 64.8 51.7 77.5





#60

Dibromochloromethane

Concen: 0.434 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.26 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

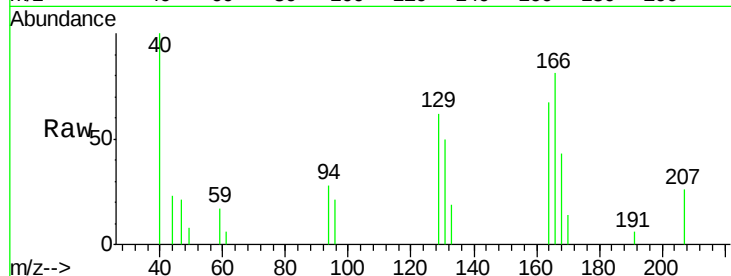
RE103D1-20190308DL

Tot Ion:129 Resp: 1093

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

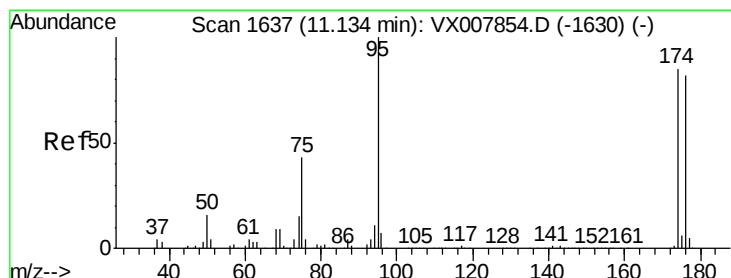
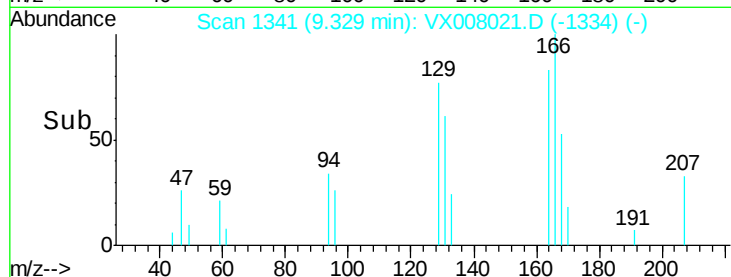
600

400

200

0

Time--> 9.30 9.35



#62

4-Bromofluorobenzene

Concen: 54.434 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

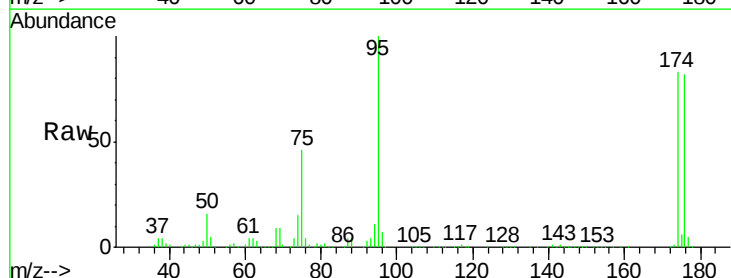
Tgt Ion: 95 Resp: 162125

Ion Ratio Lower Upper

95 100

174 91.1 0.0 182.8

176 88.4 0.0 178.0



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

11.13

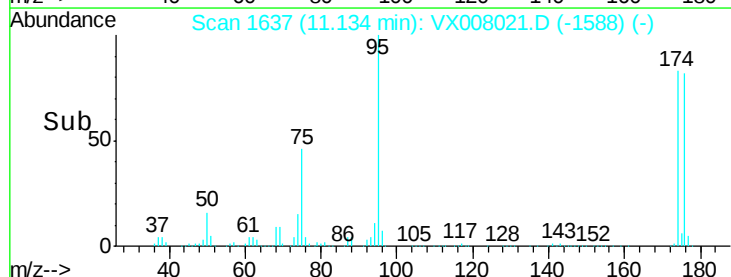
150000

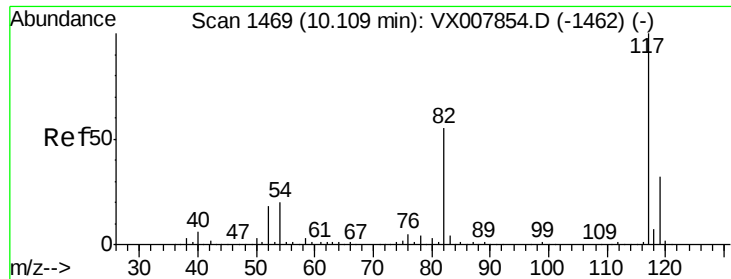
100000

50000

0

Time--> 11.10 11.20 11.30

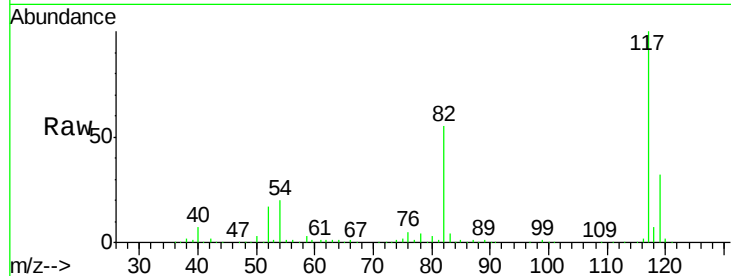




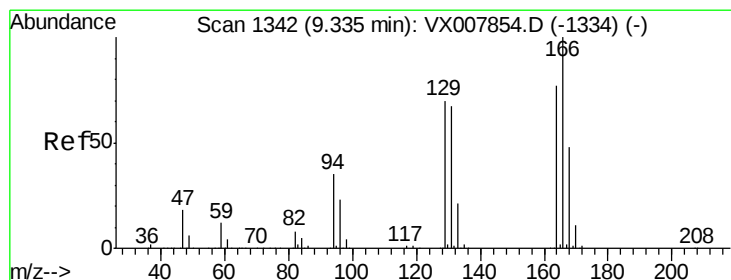
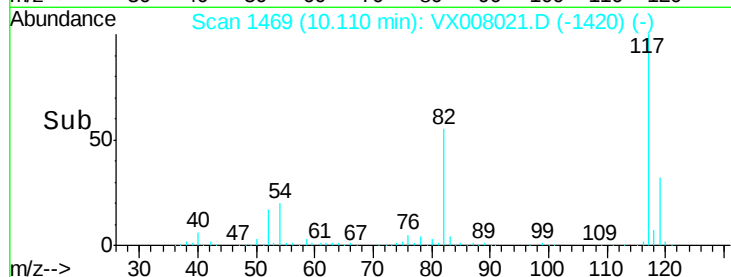
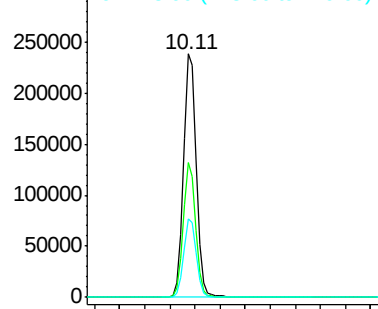
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008021.D
Acq: 12 Mar 2019 17:27

Instrument :
MSVOA_X
ClientSampleId :
RE103D1-20190308DL

Tot Ion:117 Resp: 336209
Ion Ratio Lower Upper
117 100
82 55.4 44.3 66.5
119 32.5 25.3 37.9

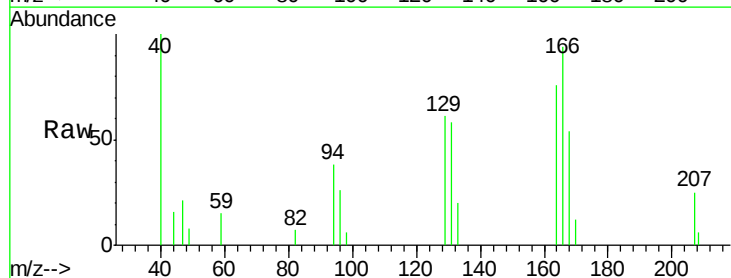


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

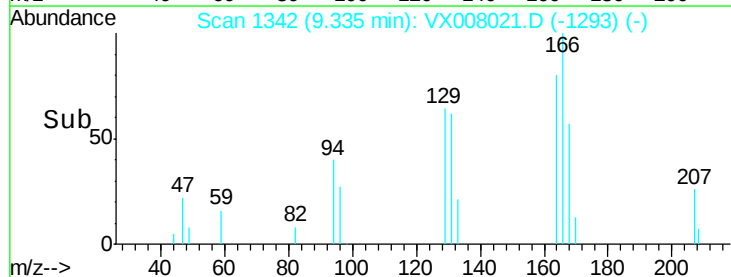
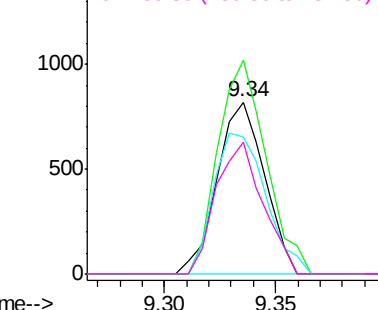


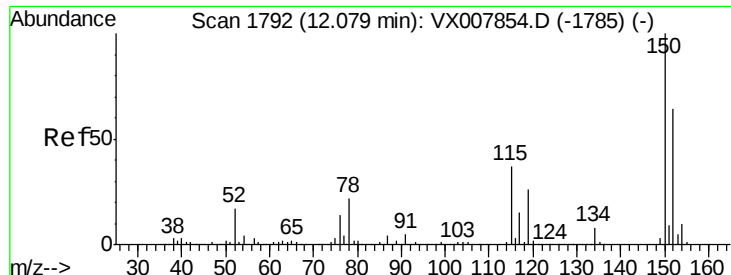
#64
Tetrachloroethene
Concen: 0.435 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008021.D
Acq: 12 Mar 2019 17:27

Tgt Ion:164 Resp: 1212
Ion Ratio Lower Upper
164 100
166 124.4 103.4 155.0
129 80.0 72.2 108.4
131 76.8 69.4 104.2



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: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20190308DL

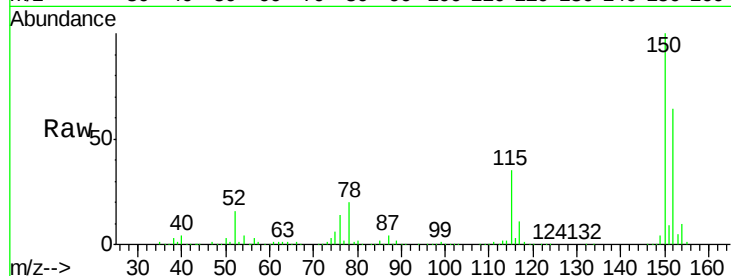
Tot Ion:152 Resp: 170381

Ion Ratio Lower Upper

152 100

115 55.5 38.6 115.7

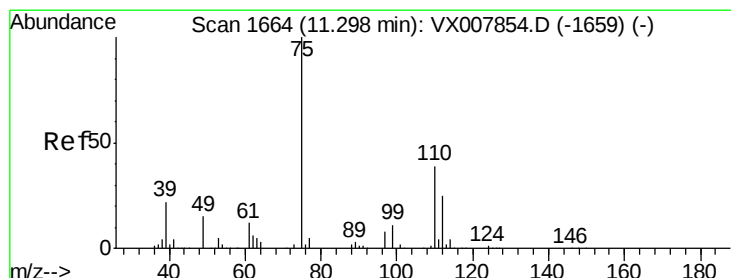
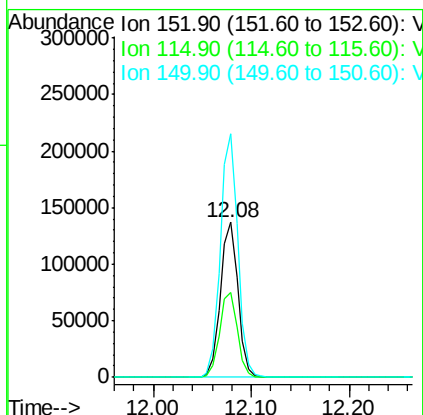
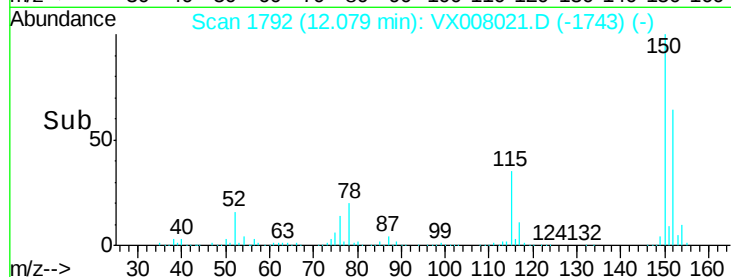
150 156.0 0.0 348.4



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: 20.260 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008021.D

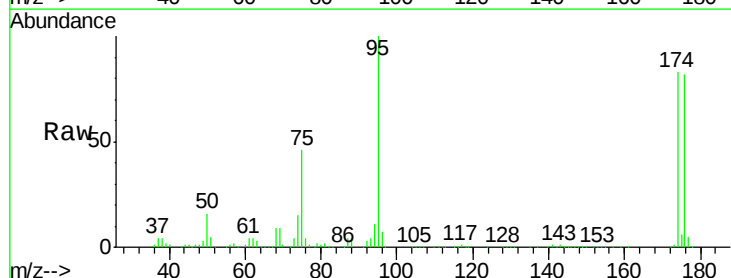
Acq: 12 Mar 2019 17:27

Tgt Ion: 75 Resp: 72437

Ion Ratio Lower Upper

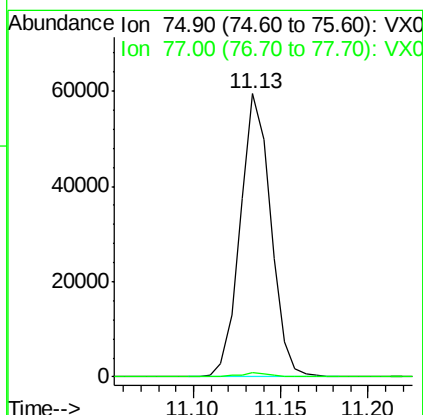
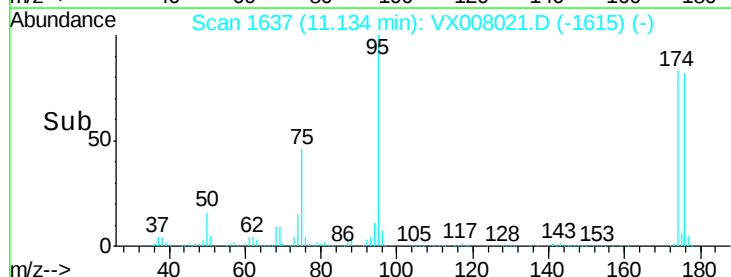
75 100

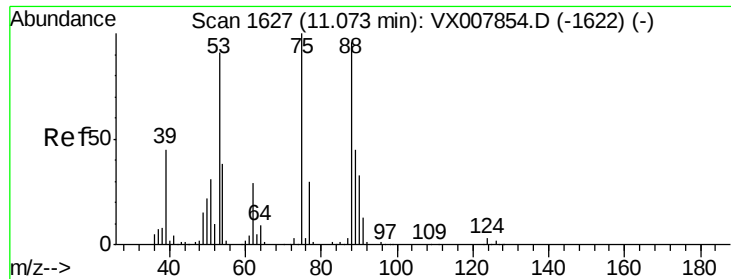
77 1.4 18.9 56.7#



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: 64.762 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008021.D

Acq: 12 Mar 2019 17:27

Instrument :

MSVOA_X

ClientSampleId :

RE103D1-20190308DL

Tot Ion: 75 Resp: 72437

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#

