

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031919\
 Data File : VX008202.D
 Acq On : 19 Mar 2019 20:09
 Operator : JC/SP
 Sample : K1882-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 20 07:12:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 06:51:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	338653	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	547927	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	465251	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	188319	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	237391	46.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.08%	
35) Dibromofluoromethane	5.50	113	172266	46.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.92%	
50) Toluene-d8	8.71	98	680383	48.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.84%	
62) 4-Bromofluorobenzene	11.13	95	217962	45.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.04%	

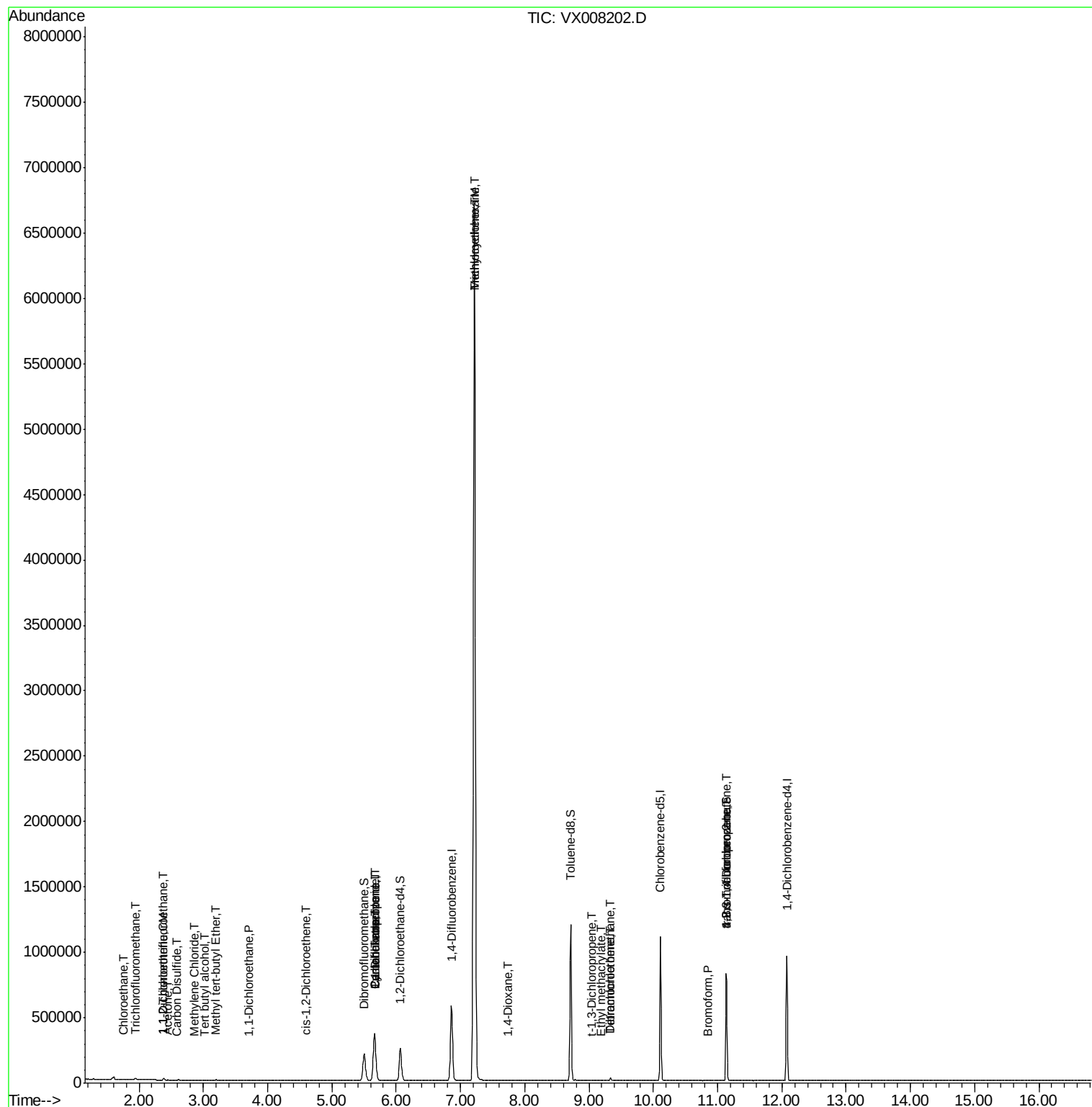
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.75	64	1873	0.582	ug/l #	43
7) Trichlorofluoromethane	1.93	101	4453	0.679	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2587	0.594	ug/l #	86
11) Tert butyl alcohol	3.02	59	706	0.647	ug/l	97
12) 1,1-Dichloroethene	2.38	96	3364	0.819	ug/l	94
13) Acrolein	2.28	56	113	Below Cal	#	1
16) Acetone	2.45	43	5588	1.932	ug/l #	83
17) Carbon Disulfide	2.59	76	995	0.748	ug/l #	75
19) Methyl tert-butyl Ether	3.20	73	6465	0.435	ug/l	95
20) Methylene Chloride	2.86	84	986	0.204	ug/l #	83
24) 1,1-Dichloroethane	3.70	63	3164	0.351	ug/l	96
27) cis-1,2-Dichloroethene	4.60	96	2589	0.512	ug/l	95
31) Cyclohexane	5.67	56	7451	0.881	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	28043	4.396	ug/l #	51
38) Carbon Tetrachloride	5.67	117	33048	5.814	ug/l #	17
39) Methylcyclohexane	7.21	83	30843	4.018	ug/l #	1
44) Trichloroethene	7.21	130	2466432	534.240	ug/l	89
49) 1,4-Dioxane	7.73	88	122	1.076	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	363	1.468	ug/l #	43
56) Ethyl methacrylate	9.19	69	266	0.559	ug/l #	81
60) Dibromochloromethane	9.34	129	4313	0.992	ug/l #	12
64) Tetrachloroethene	9.34	164	4445	1.059	ug/l	98
71) Bromoform	10.85	173	57	2.218	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	114159	21.553	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	114159	54.803	ug/l #	12

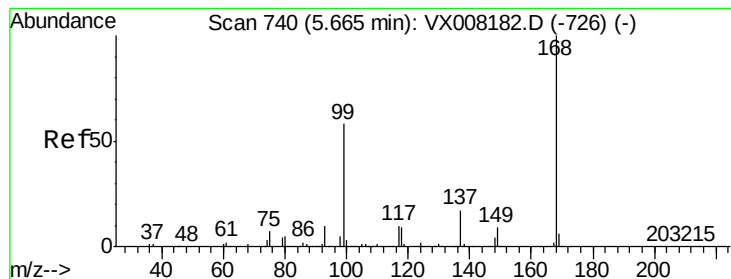
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031919\
Data File : VX008202.D
Acq On : 19 Mar 2019 20:09
Operator : JC/SP
Sample : K1882-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Mar 20 07:12:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 20 06:51:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

Instrument :

MSVOA_X

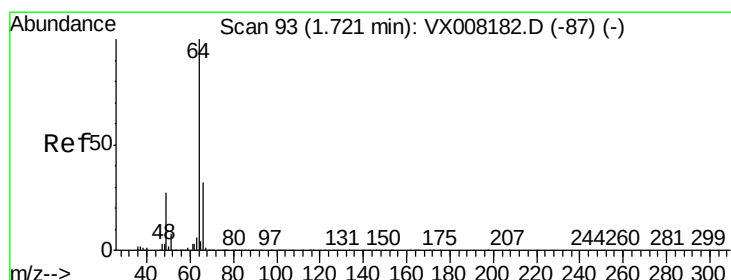
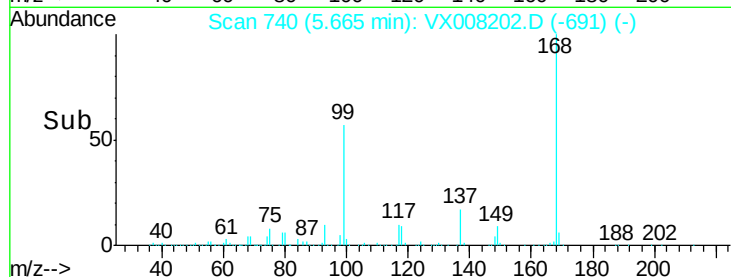
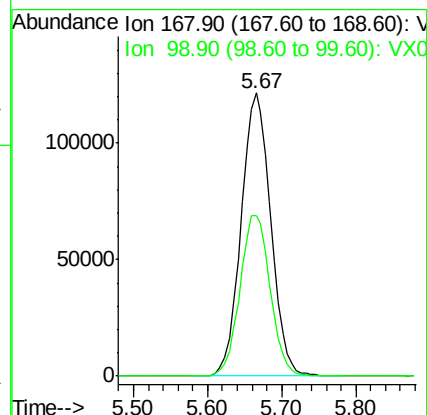
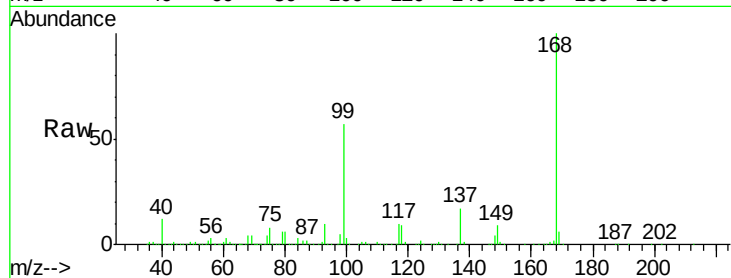
ClientSampleId :

Tot Ion:168 Resp: 338653

Ion Ratio Lower Upper

168 100

99 56.6 37.6 56.4#



#6

Chloroethane

Concen: 0.582 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.03 min

Lab File: VX008202.D

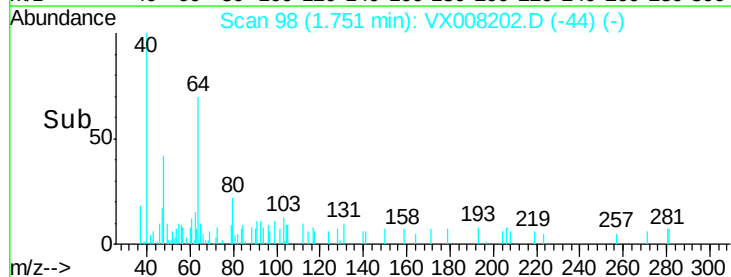
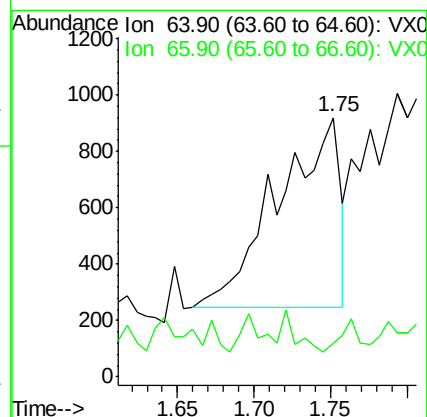
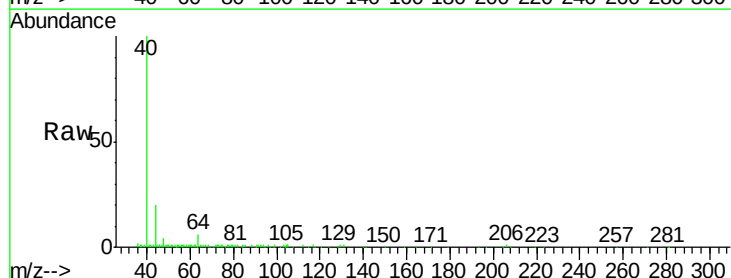
Acq: 19 Mar 2019 20:09

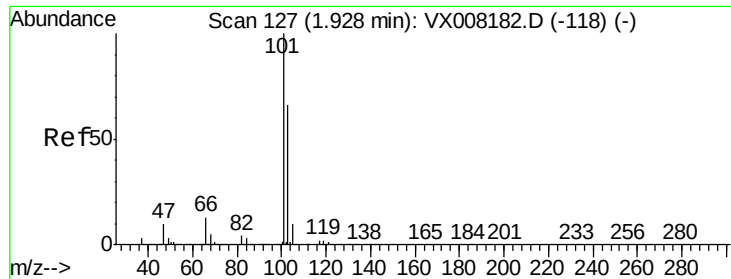
Tgt Ion: 64 Resp: 1873

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



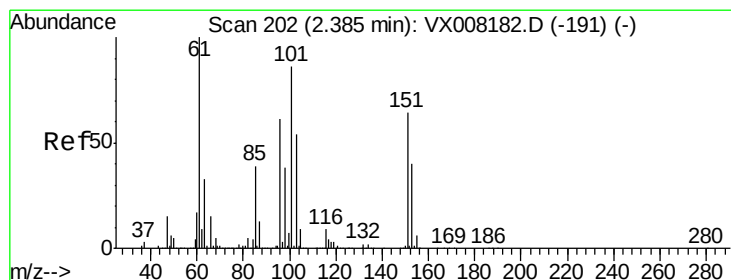
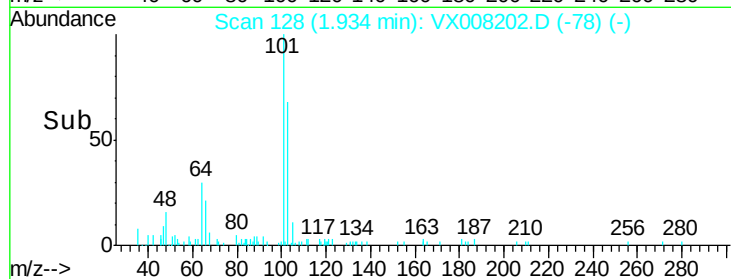
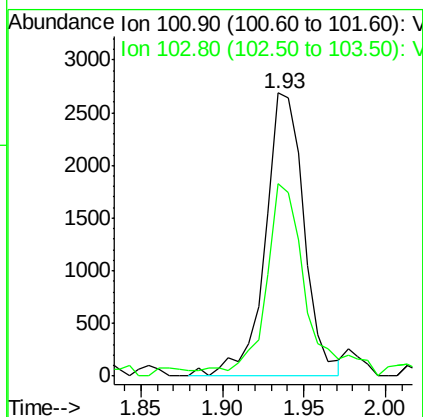
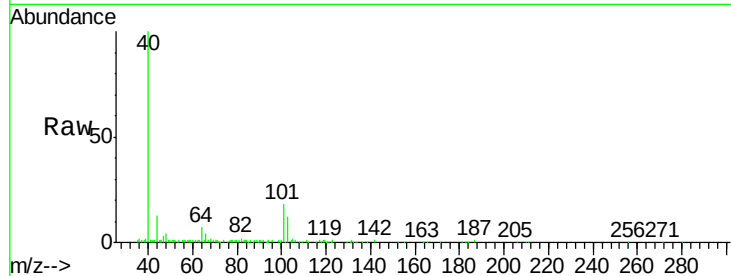


#7

Trichlorofluoromethane
Concen: 0.679 ug/l
RT: 1.93 min Scan# 128
Delta R.T. 0.01 min
Lab File: VX008202.D
Acq: 19 Mar 2019 20:09

Instrument :
MSVOA_X
ClientSampleId :

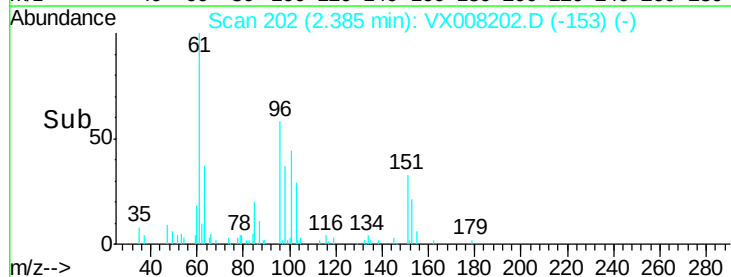
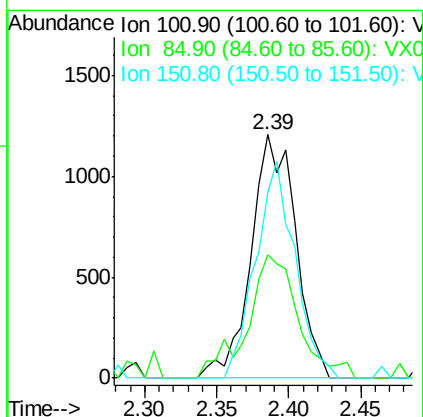
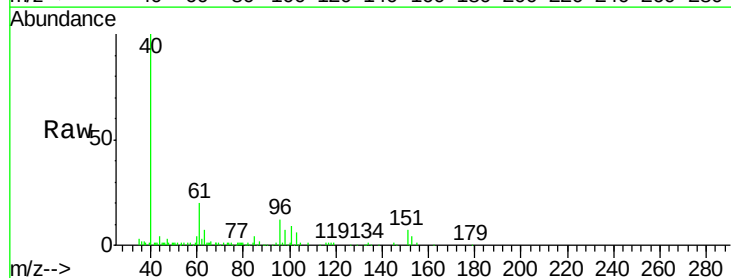
Tot Ion:101 Resp: 4453
Ion Ratio Lower Upper
101 100
103 65.8 50.4 75.6

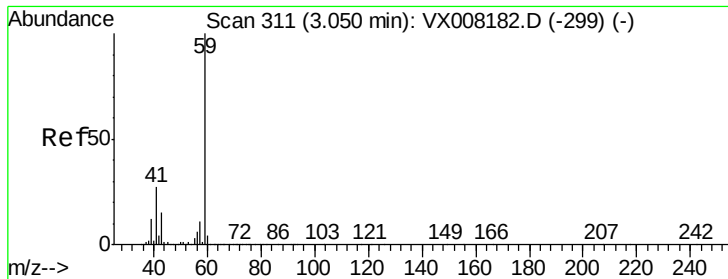


#9

1,1,2-Trichlorotrifluoroethane
Concen: 0.594 ug/l
RT: 2.39 min Scan# 202
Delta R.T. 0.00 min
Lab File: VX008202.D
Acq: 19 Mar 2019 20:09

Tgt Ion:101 Resp: 2587
Ion Ratio Lower Upper
101 100
85 58.1 33.8 50.6#
151 78.9 69.1 103.7



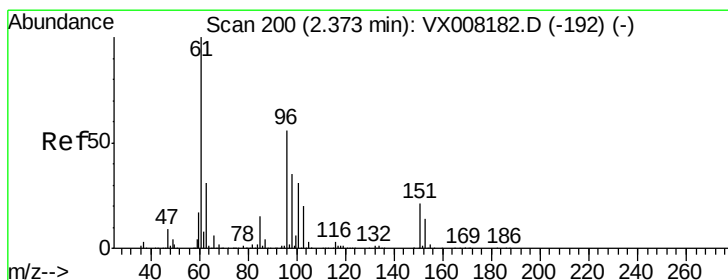
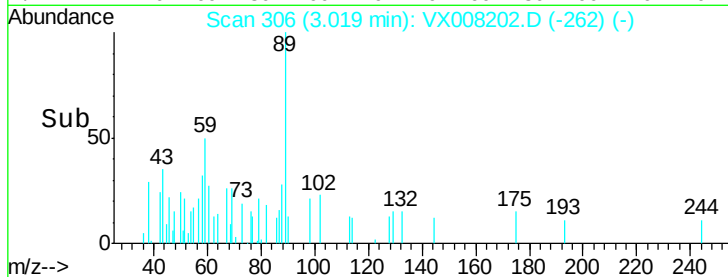
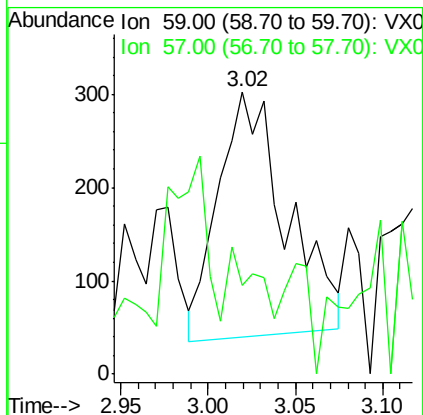
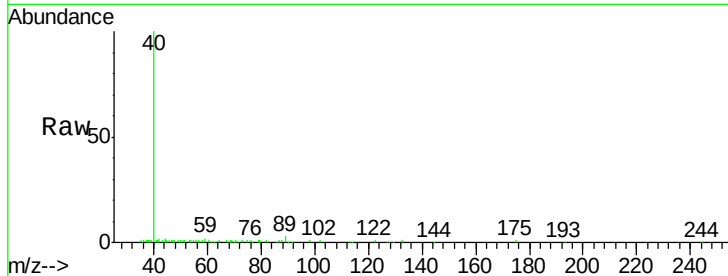


#11

Tert butyl alcohol
Concen: 0.647 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX008202.D
Acq: 19 Mar 2019 20:09

Instrument :
MSVOA_X
ClientSampleId :

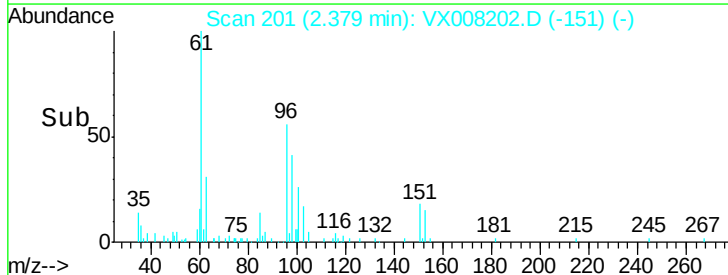
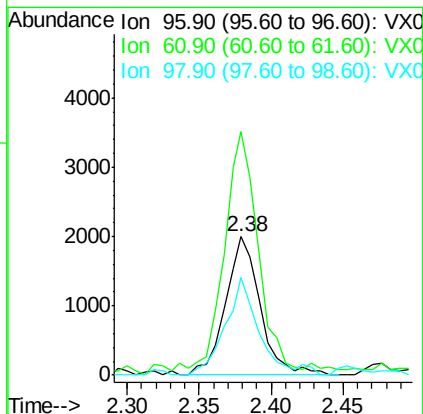
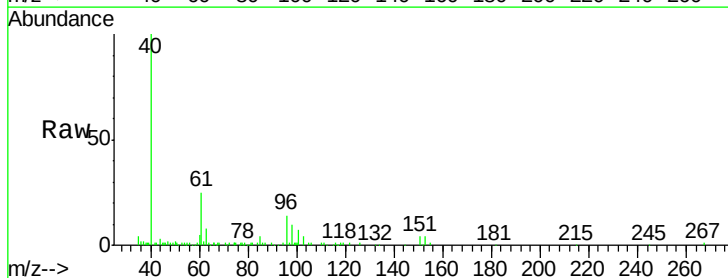
Tot Ion: 59 Resp: 706
Ion Ratio Lower Upper
59 100
57 11.2 8.2 12.2

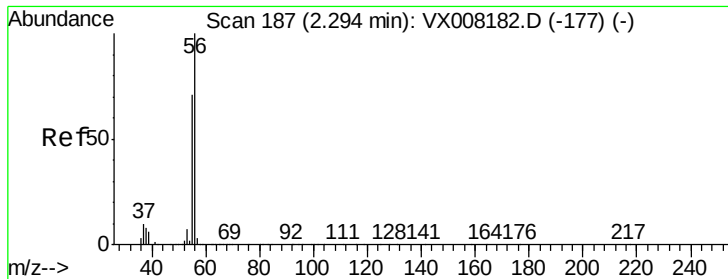


#12

1,1-Dichloroethene
Concen: 0.819 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX008202.D
Acq: 19 Mar 2019 20:09

Tgt Ion: 96 Resp: 3364
Ion Ratio Lower Upper
96 100
61 169.0 129.8 194.6
98 70.9 51.0 76.6





#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

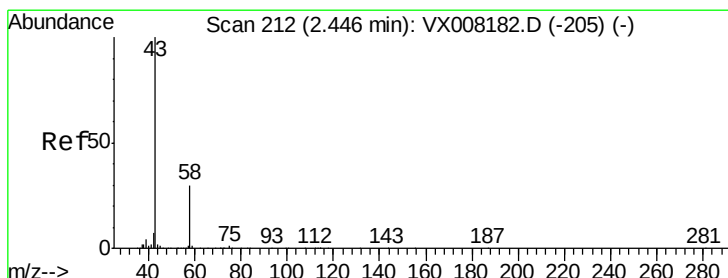
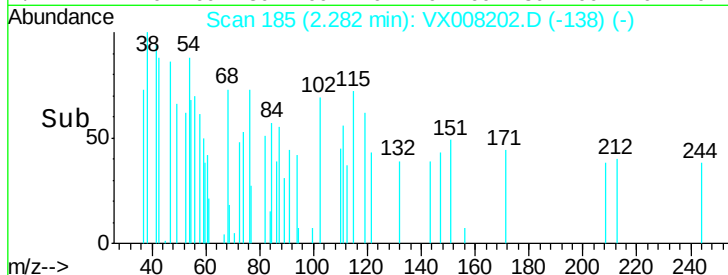
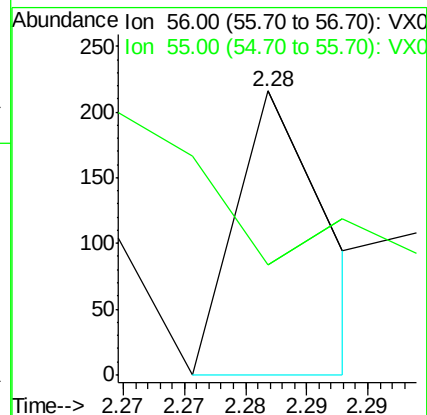
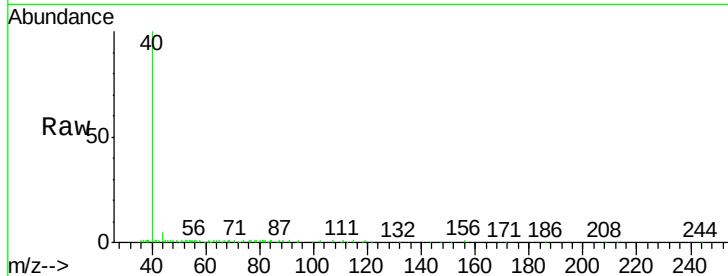
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 113

Ion Ratio Lower Upper

56 100

55 162.8 57.8 86.6#



#16

Acetone

Concen: 1.932 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008202.D

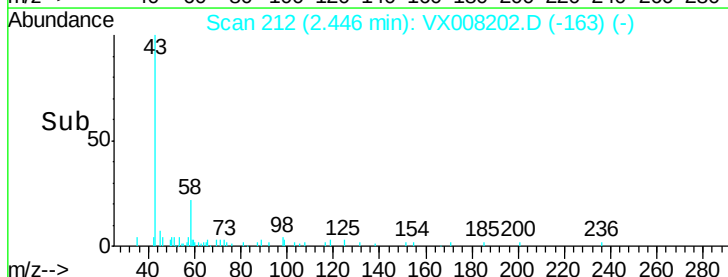
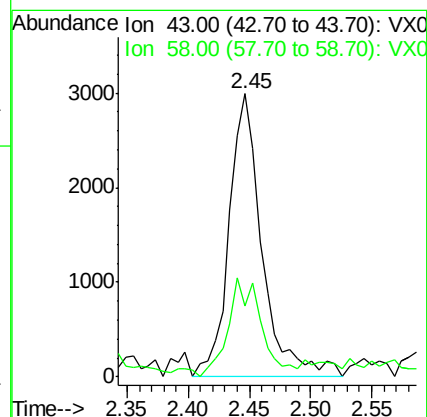
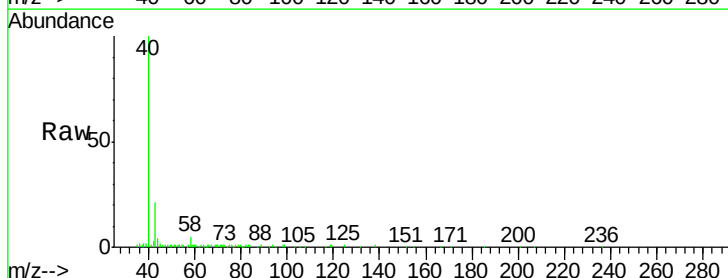
Acq: 19 Mar 2019 20:09

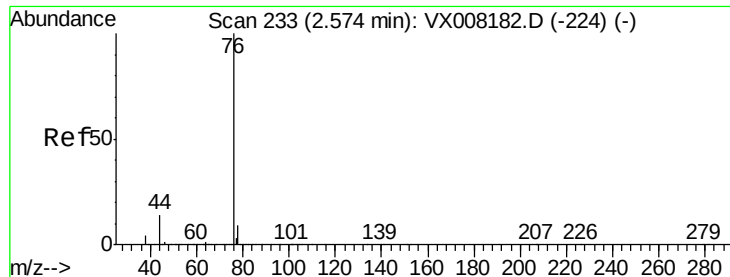
Tgt Ion: 43 Resp: 5588

Ion Ratio Lower Upper

43 100

58 22.5 25.5 38.3#





#17

Carbon Disulfide

Concen: 0.748 ug/l

RT: 2.59 min Scan# 235

Delta R.T. 0.01 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

Instrument :

MSVOA_X

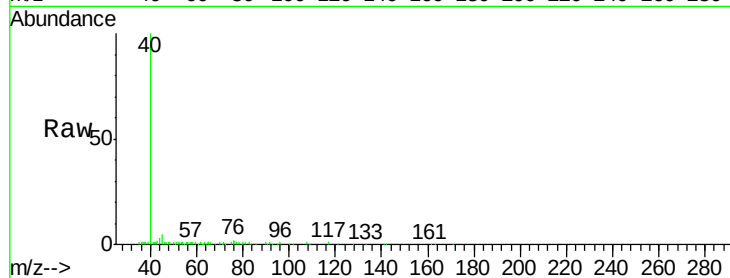
ClientSampleId :

Tot Ion: 76 Resp: 995

Ion Ratio Lower Upper

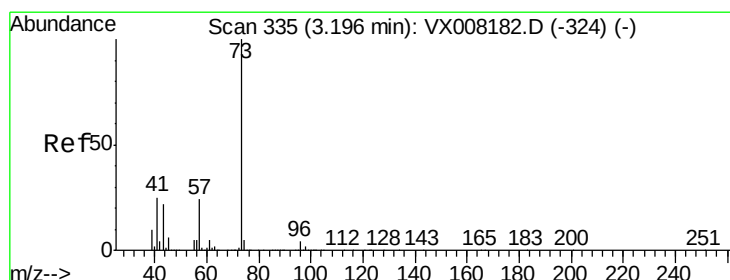
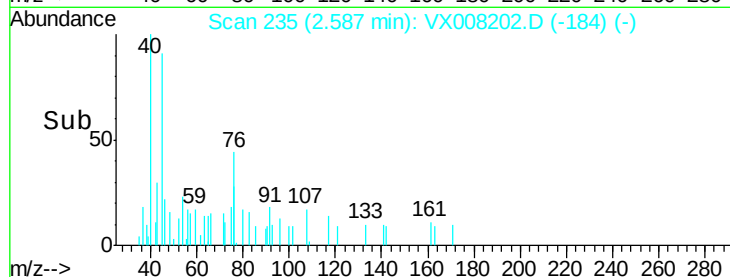
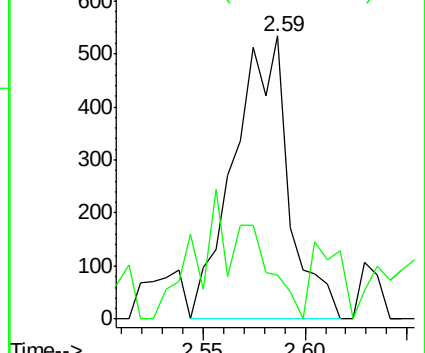
76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 0.435 ug/l

RT: 3.20 min Scan# 335

Delta R.T. 0.00 min

Lab File: VX008202.D

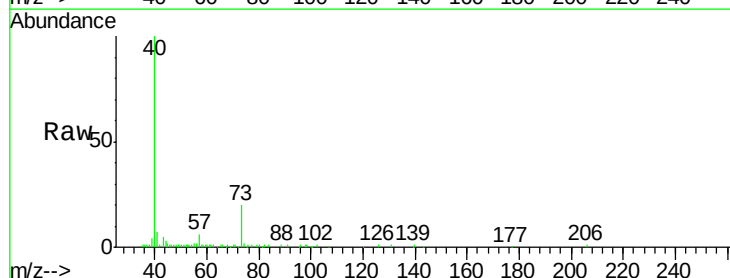
Acq: 19 Mar 2019 20:09

Tgt Ion: 73 Resp: 6465

Ion Ratio Lower Upper

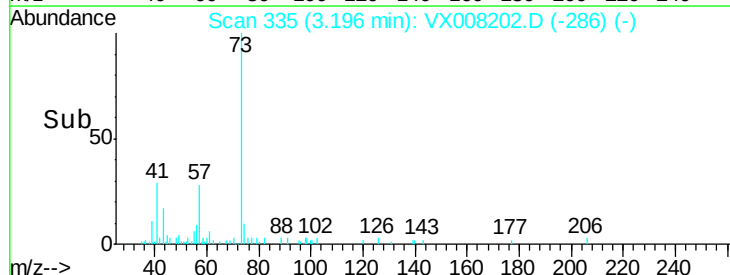
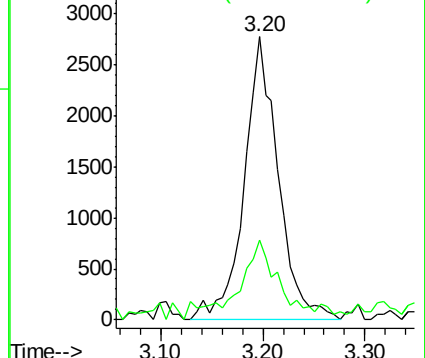
73 100

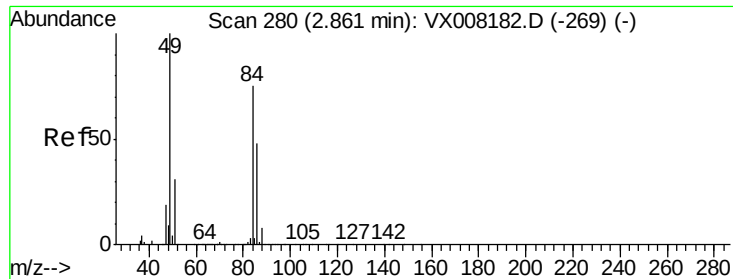
57 25.4 18.2 27.4



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

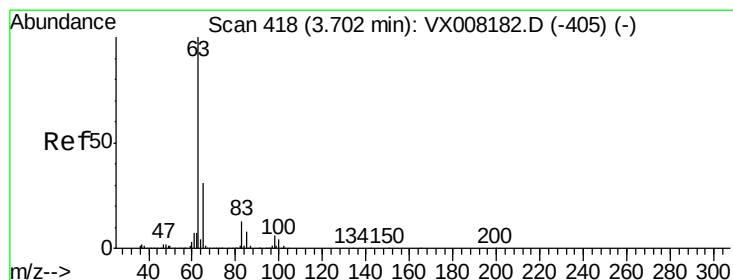
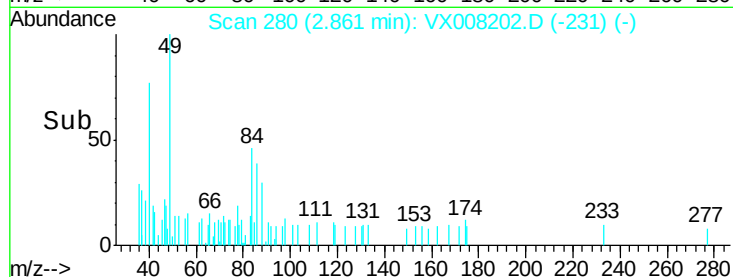
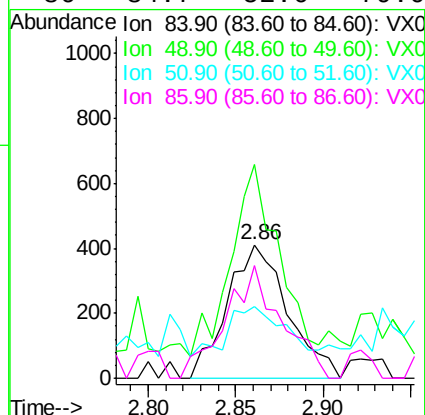
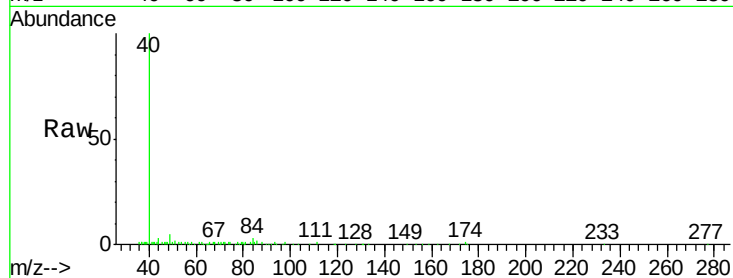




#20
Methylene Chloride
Concen: 0.204 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX008202.D
Acq: 19 Mar 2019 20:09

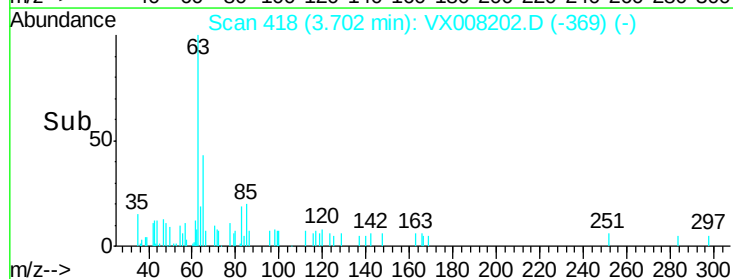
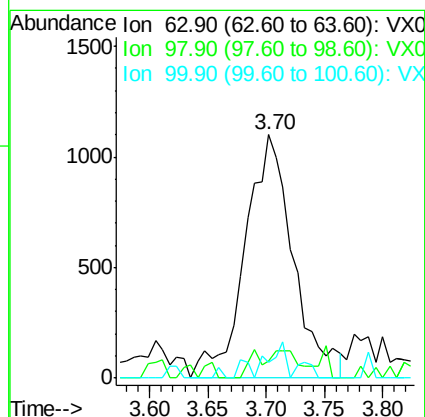
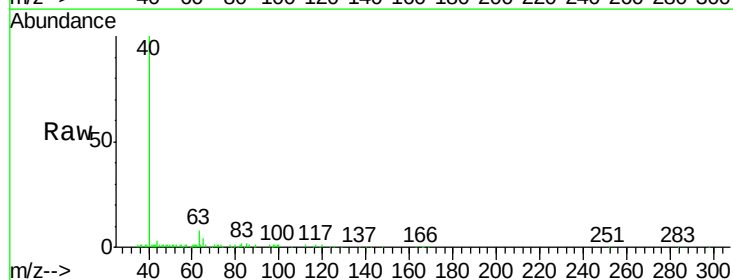
Instrument :
MSVOA_X
ClientSampleId :

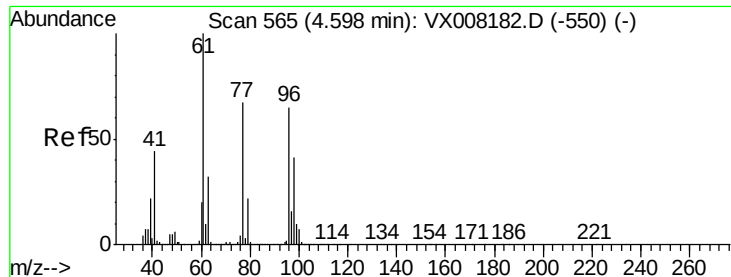
Tot Ion:	84	Resp:	986
Ion	Ratio	Lower	Upper
84	100		
49	143.6	99.3	148.9
51	37.0	31.3	46.9
86	84.7	52.6	79.0#



#24
1,1-Dichloroethane
Concen: 0.351 ug/l
RT: 3.70 min Scan# 418
Delta R.T. 0.00 min
Lab File: VX008202.D
Acq: 19 Mar 2019 20:09

Tgt Ion:	63	Resp:	3164
Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.3	9.8
100	6.5	2.3	6.8





#27

cis-1,2-Dichloroethene

Concen: 0.512 ug/l

RT: 4.60 min Scan# 566

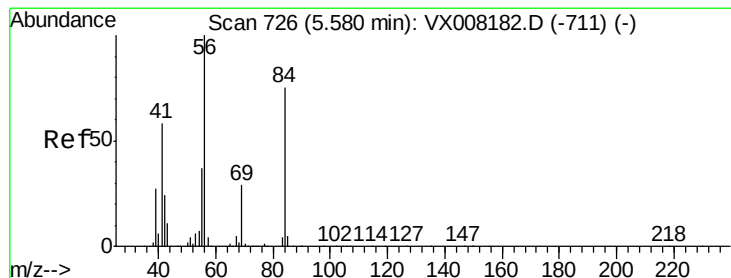
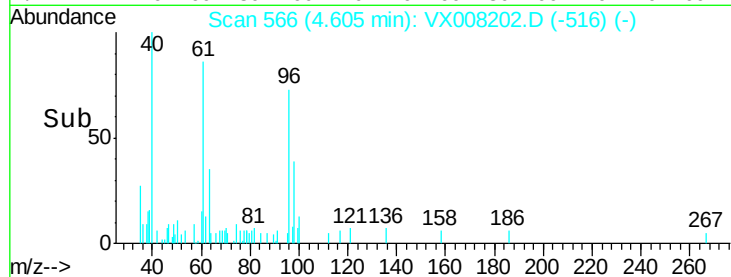
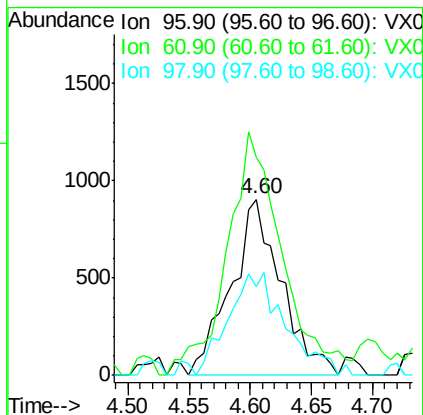
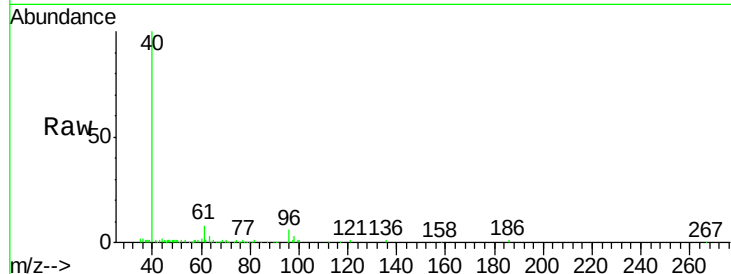
Delta R.T. 0.01 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	96	Resp:	2589
Ion	Ratio	Lower	Upper
96	100		
61	151.4	0.0	288.0
98	66.4	0.0	129.0



#31

Cyclohexane

Concen: 0.881 ug/l

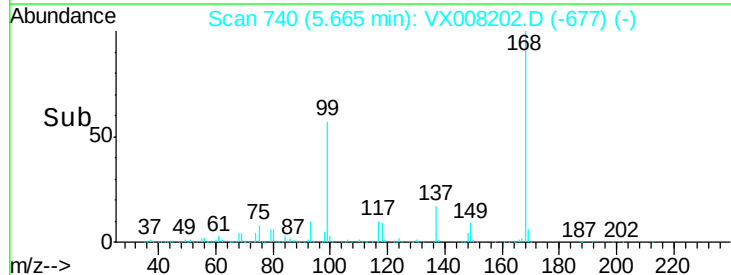
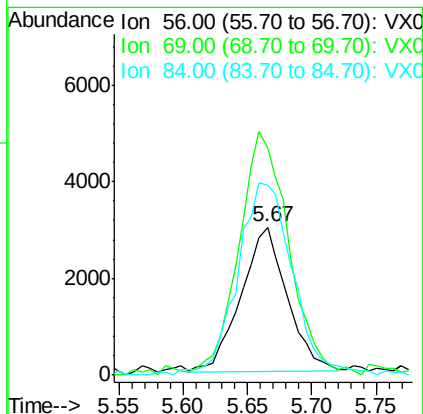
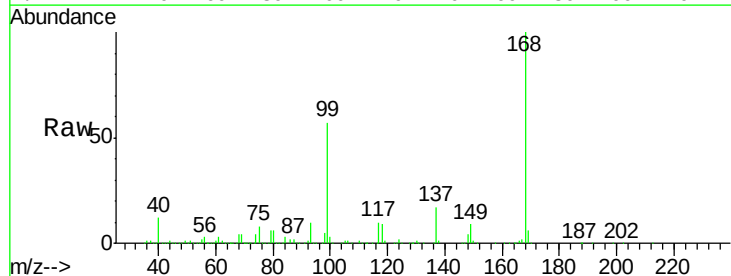
RT: 5.67 min Scan# 740

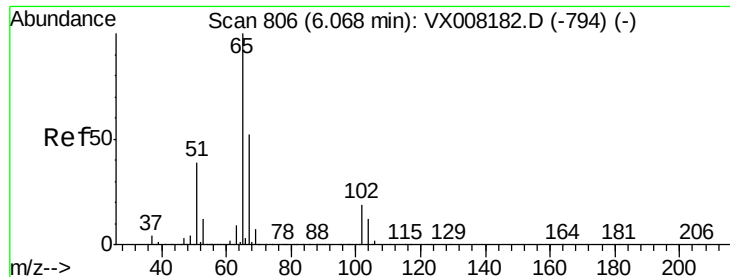
Delta R.T. 0.09 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

Tgt Ion:	56	Resp:	7451
Ion	Ratio	Lower	Upper
56	100		
69	156.0	24.0	36.0#
84	128.6	65.3	97.9#

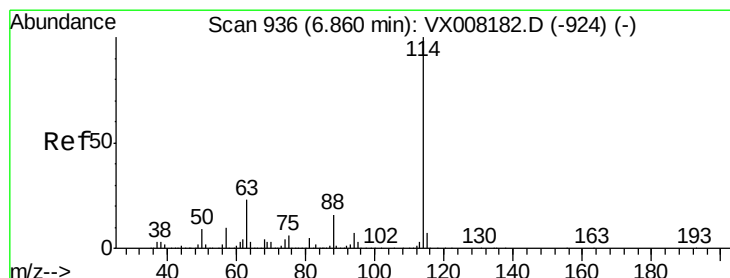
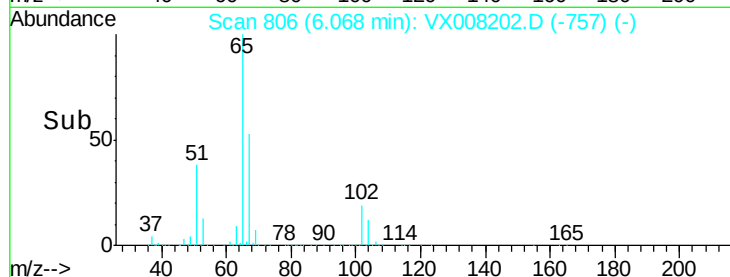
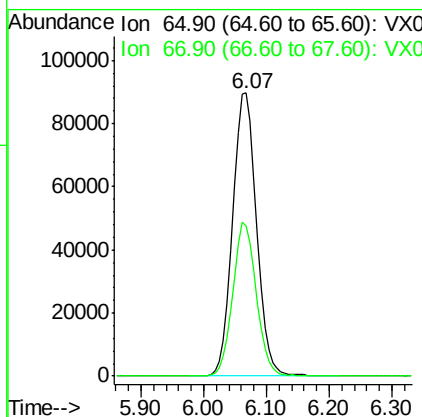
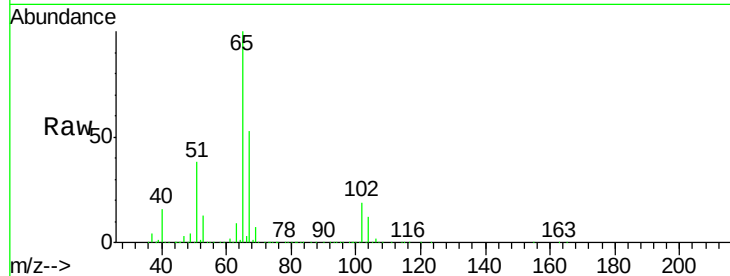




#33
 1,2-Dichloroethane-d4
 Concen: 46.543 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008202.D
 Acq: 19 Mar 2019 20:09

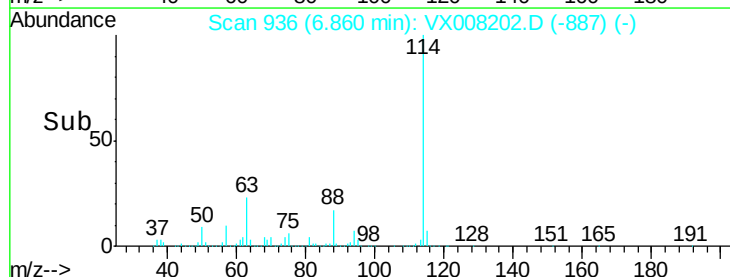
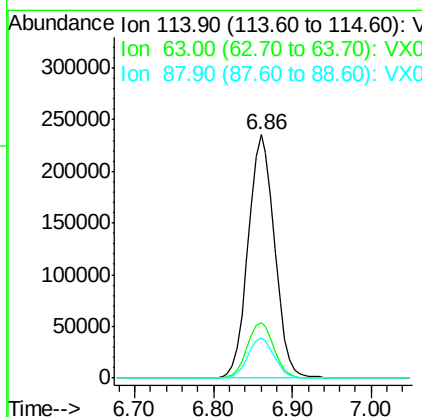
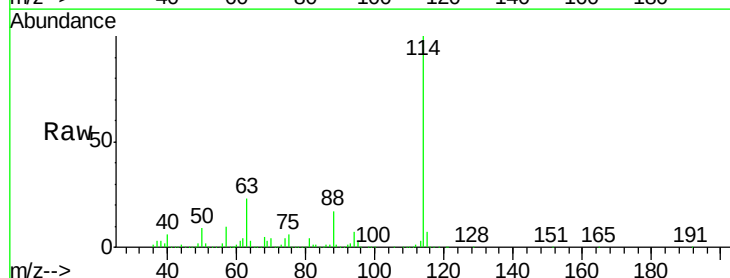
Instrument :
 MSVOA_X
 ClientSampled :

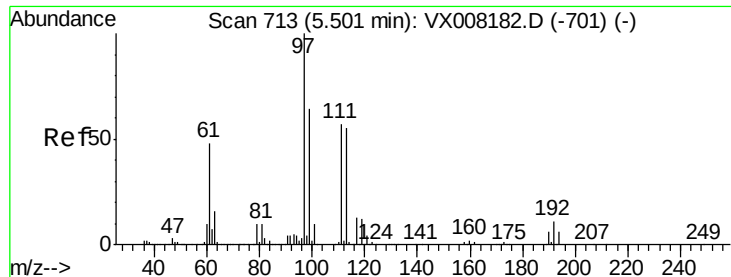
Tot Ion: 65 Resp: 237391
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008202.D
 Acq: 19 Mar 2019 20:09

Tgt Ion: 114 Resp: 547927
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 39.8
 88 16.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 46.964 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

Instrument :
MSVOA_X
ClientSampleId :

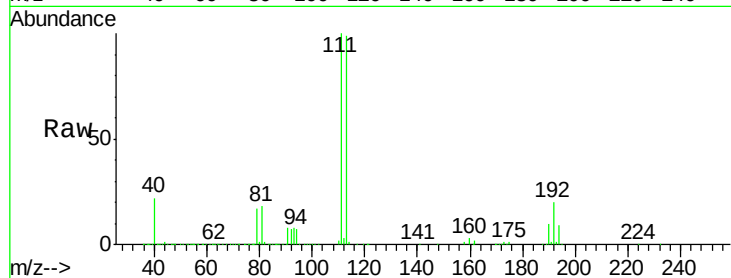
Tot Ion:113 Resp: 172266

Ion Ratio Lower Upper

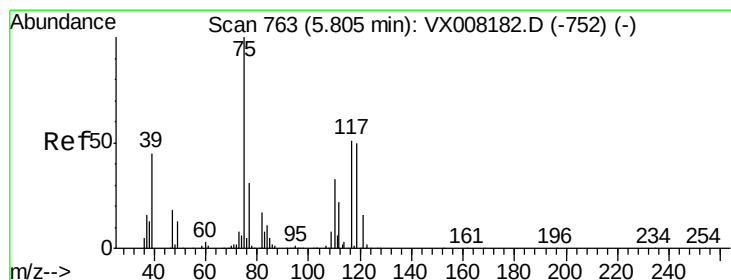
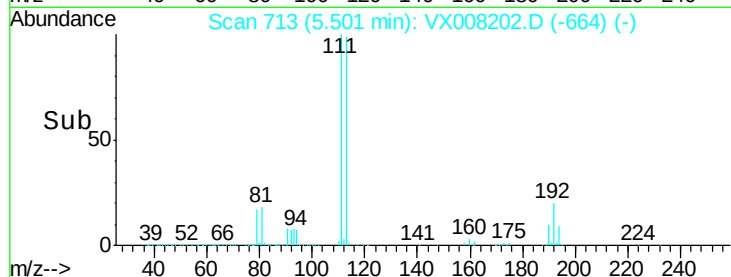
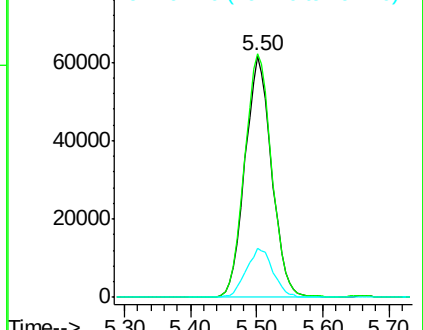
113 100

111 103.2 81.4 122.0

192 20.4 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: 4.396 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.15 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

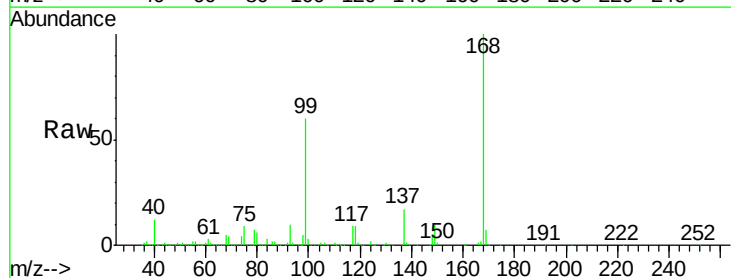
Tgt Ion: 75 Resp: 28043

Ion Ratio Lower Upper

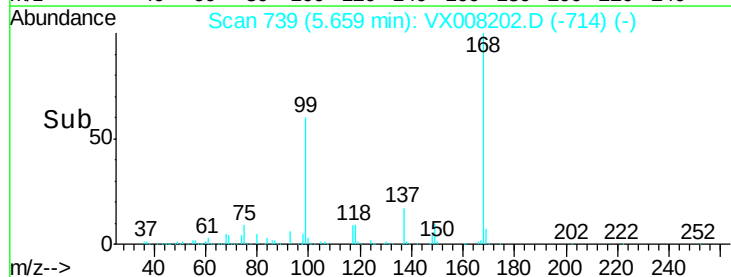
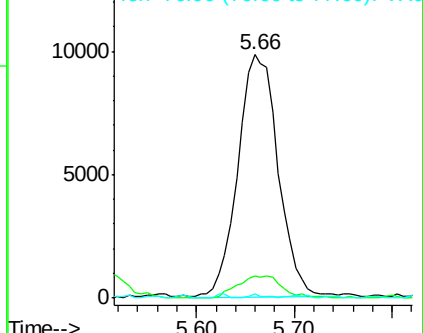
75 100

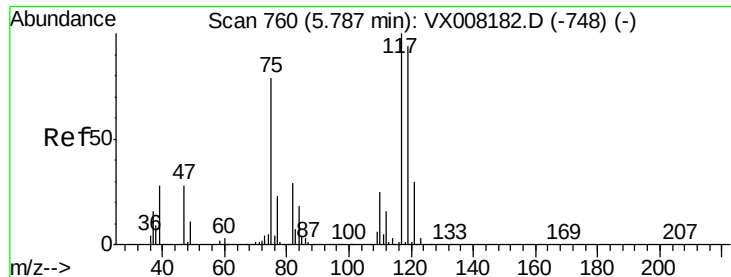
110 10.4 18.4 55.0#

77 0.6 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: 5.814 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

Instrument :

MSVOA_X

ClientSampleId :

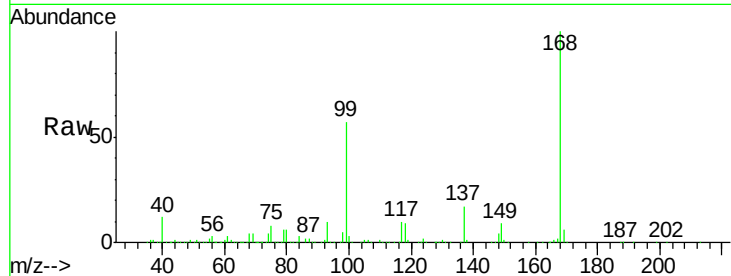
Tot Ion:117 Resp: 33048

Ion Ratio Lower Upper

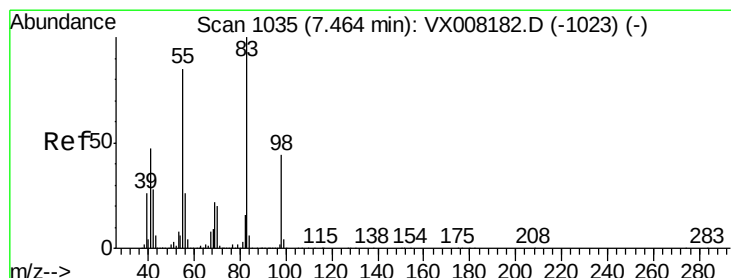
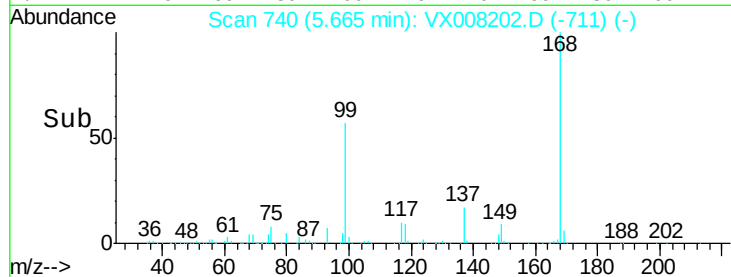
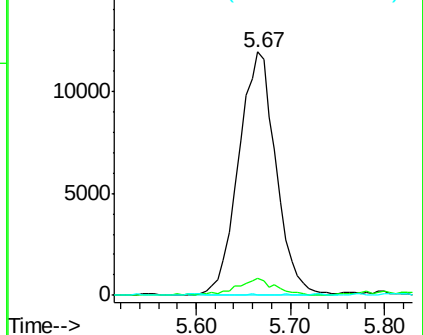
117 100

119 6.5 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

Methylcyclohexane

Concen: 4.018 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

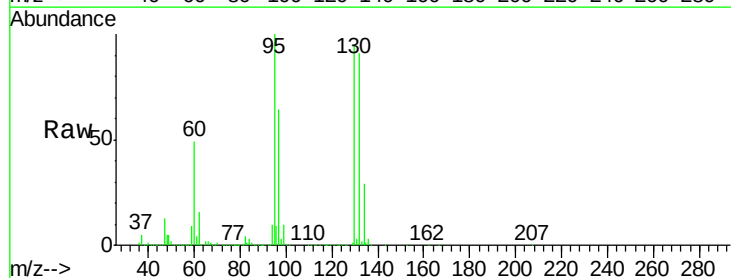
Tgt Ion: 83 Resp: 30843

Ion Ratio Lower Upper

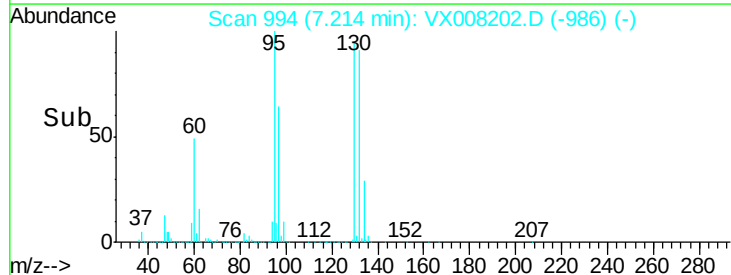
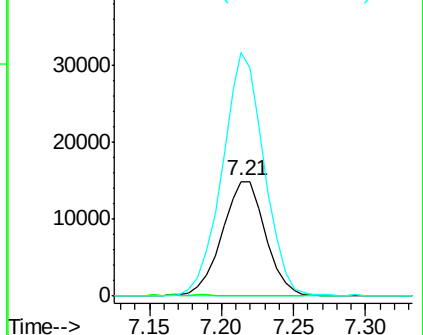
83 100

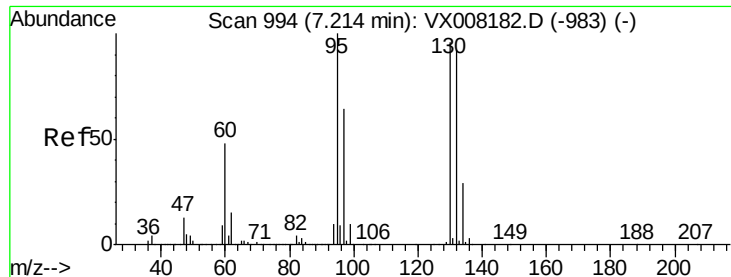
55 0.3 60.4 90.6#

98 213.0 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: 534.240 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

Instrument :

MSVOA_X

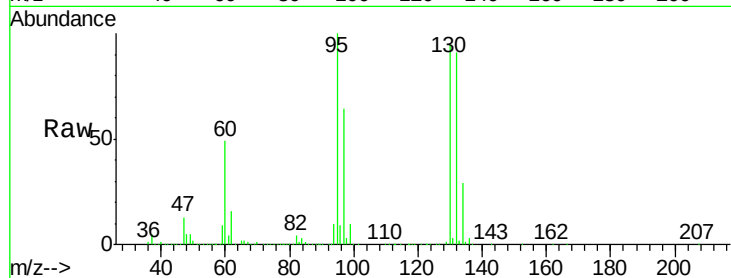
ClientSampled :

Tot Ion:130 Resp: 2466432

Ion Ratio Lower Upper

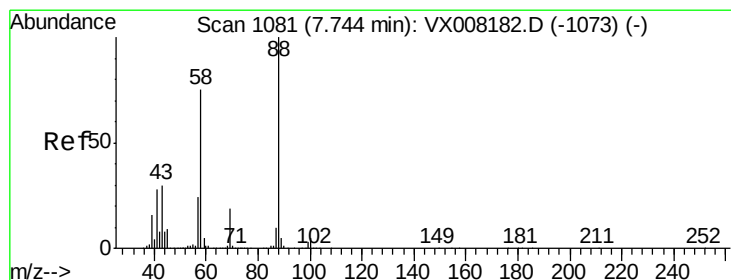
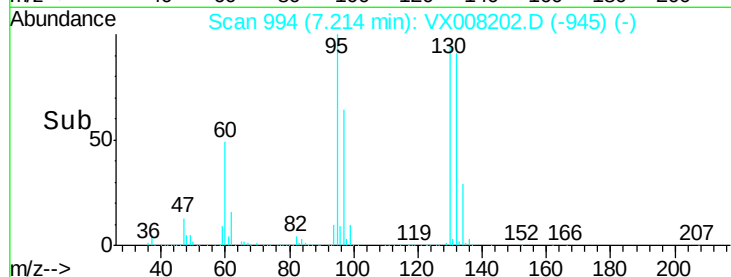
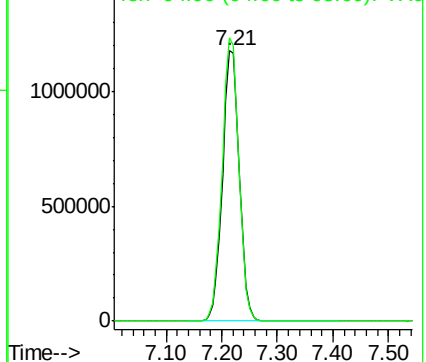
130 100

95 104.8 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: 1.076 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

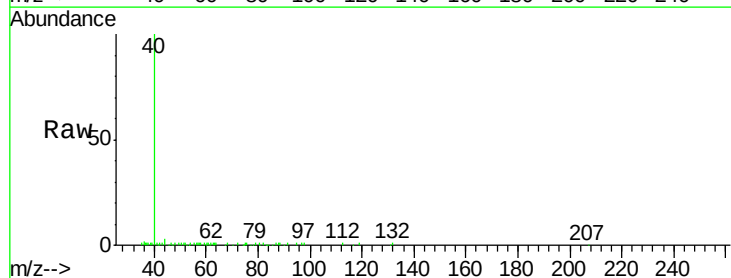
Tgt Ion: 88 Resp: 122

Ion Ratio Lower Upper

88 100

43 132.8 25.1 37.7#

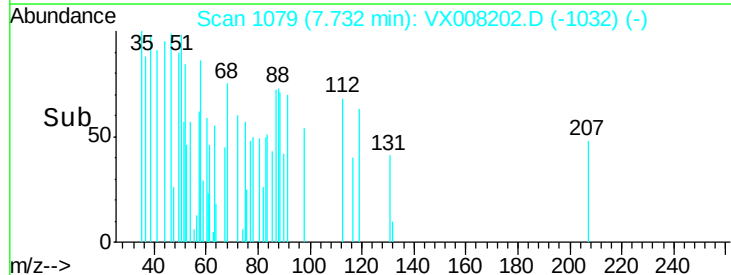
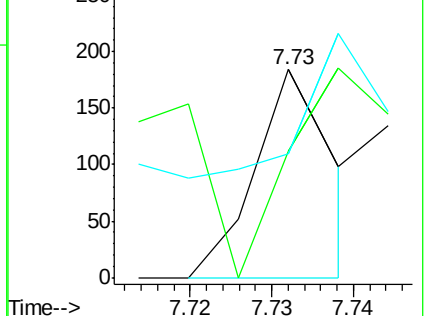
58 0.0 57.8 86.6#

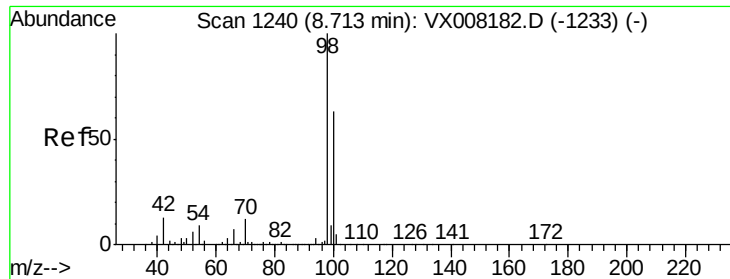


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

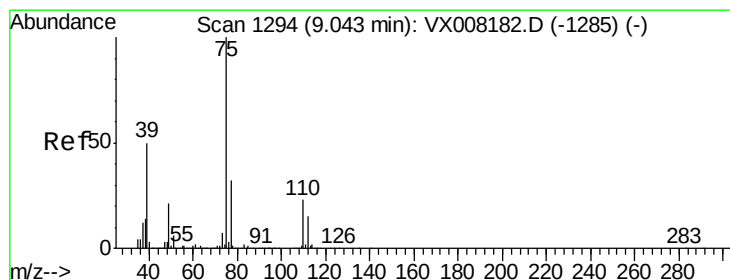
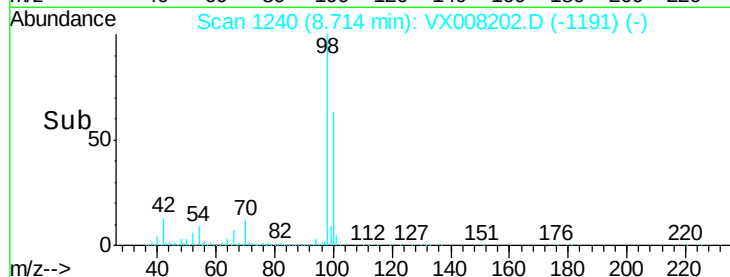
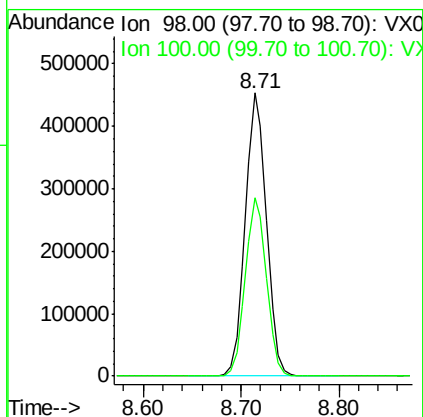
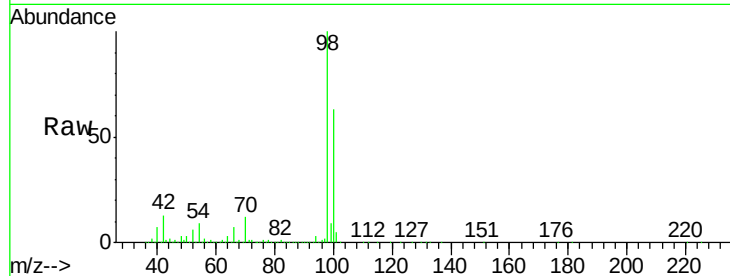




#50
Toluene-d8
Concen: 48.925 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008202.D
Acq: 19 Mar 2019 20:09

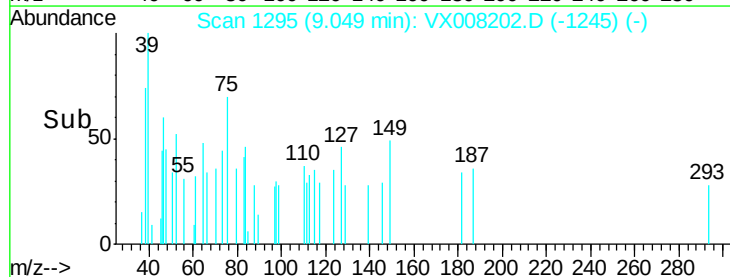
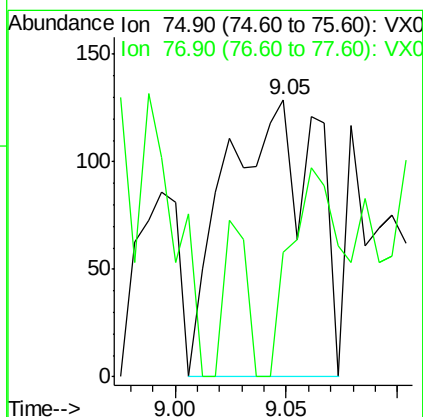
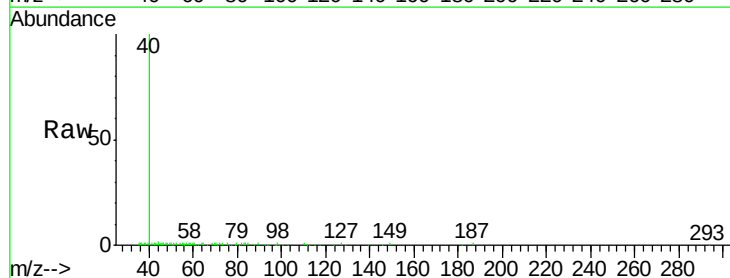
Instrument :
MSVOA_X
ClientSampled :

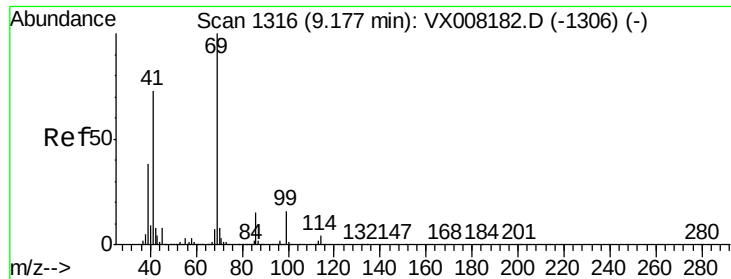
Tot Ion: 98 Resp: 680383
Ion Ratio Lower Upper
98 100
100 63.2 51.7 77.5



#53
t-1,3-Dichloropropene
Concen: 1.468 ug/l
RT: 9.05 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VX008202.D
Acq: 19 Mar 2019 20:09

Tgt Ion: 75 Resp: 363
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#





#56

Ethyl methacrylate

Concen: 0.559 ug/l

RT: 9.19 min Scan# 1318

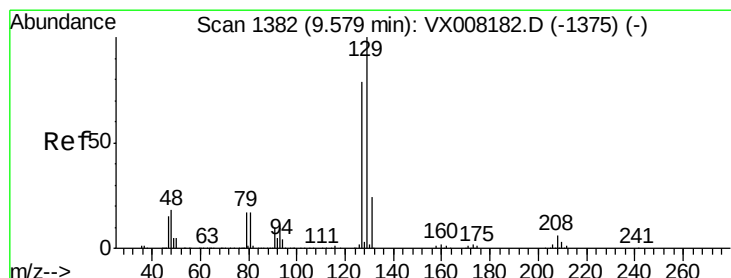
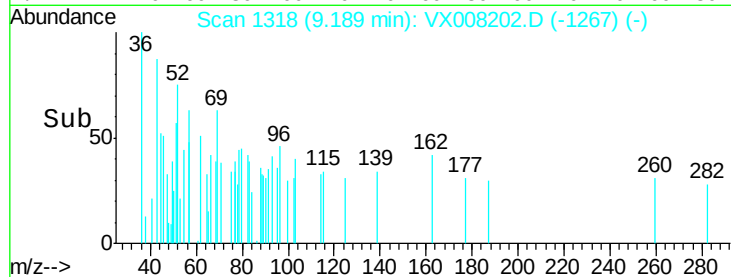
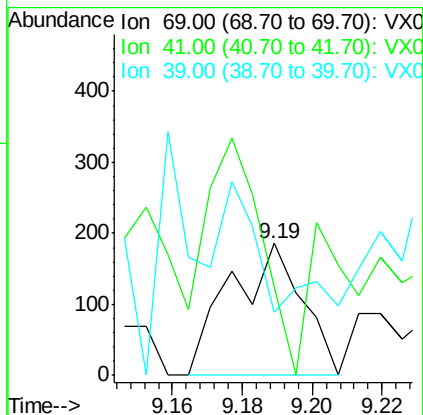
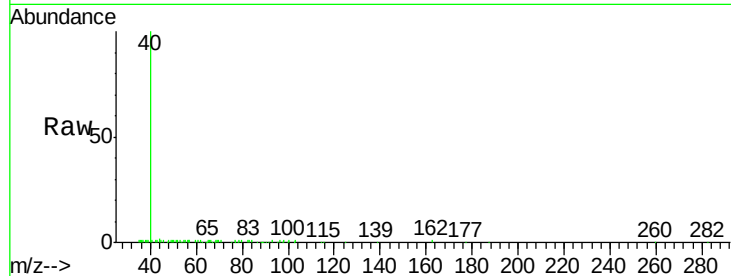
Delta R.T. 0.01 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	69	Resp:	266
Ion	Ratio	Lower	Upper
69	100		
41	66.5	54.2	81.4
39	0.0	25.0	37.4#



#60

Dibromochloromethane

Concen: 0.992 ug/l

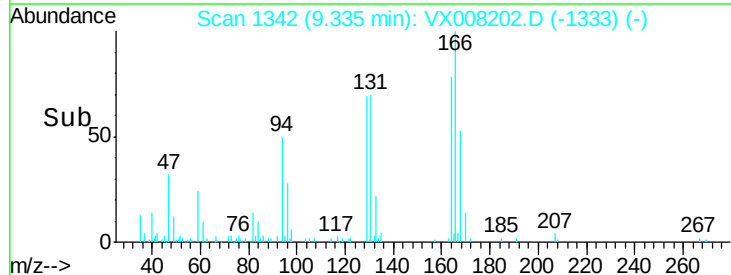
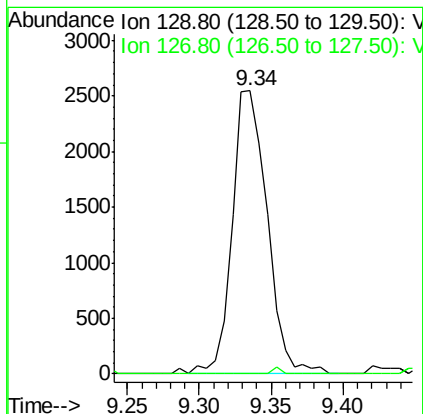
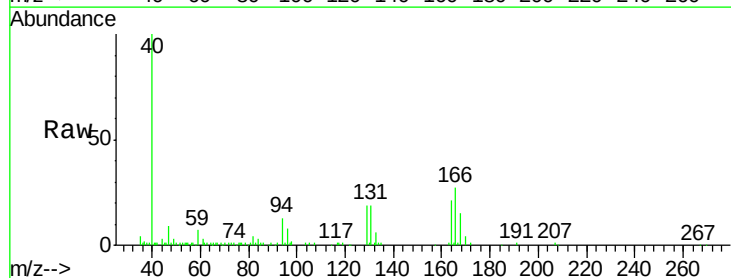
RT: 9.34 min Scan# 1342

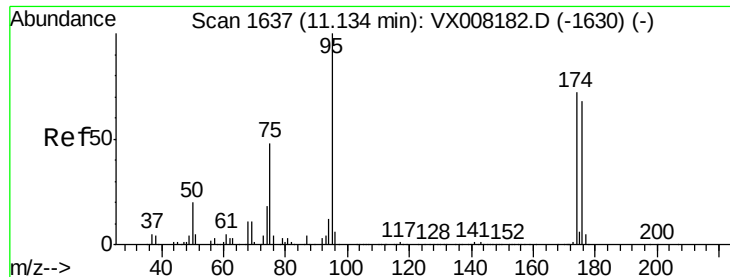
Delta R.T. -0.24 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

Tgt Ion:	129	Resp:	4313
Ion	Ratio	Lower	Upper
129	100		
127	0.6	38.3	114.8#





#62

4-Bromofluorobenzene

Concen: 45.519 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

Instrument :

MSVOA_X

ClientSampleId :

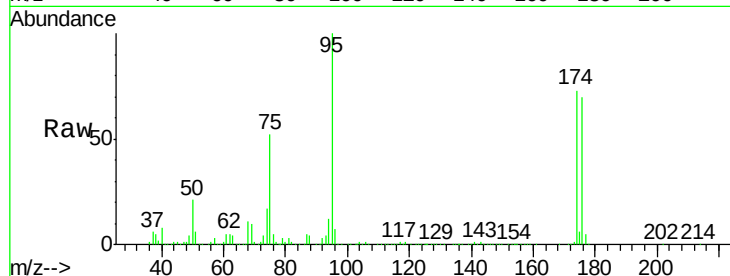
Tot Ion: 95 Resp: 217962

Ion Ratio Lower Upper

95 100

174 77.9 0.0 182.8

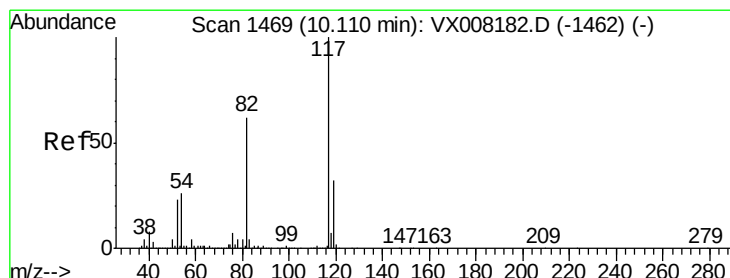
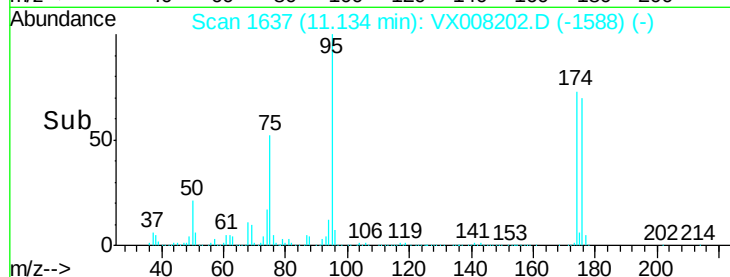
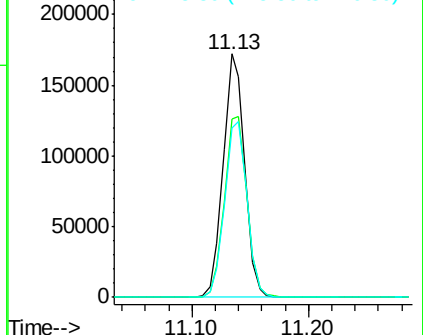
176 75.6 0.0 178.0



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008202.D

Acq: 19 Mar 2019 20:09

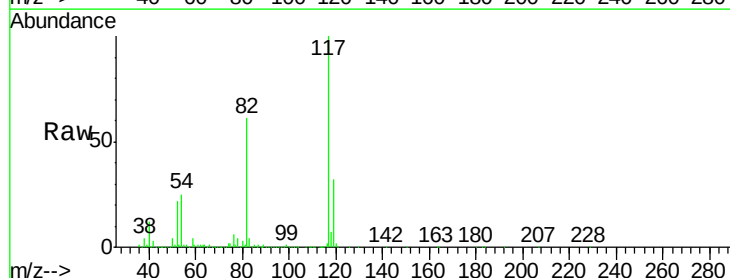
Tgt Ion: 117 Resp: 465251

Ion Ratio Lower Upper

117 100

82 60.6 44.3 66.5

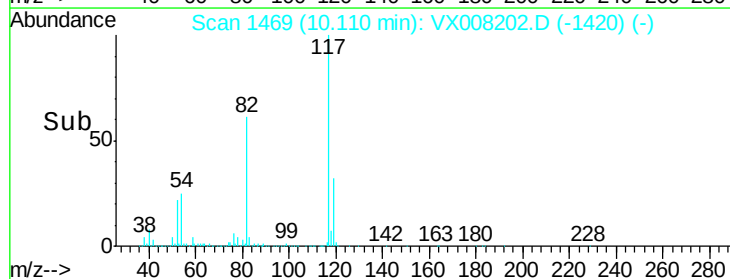
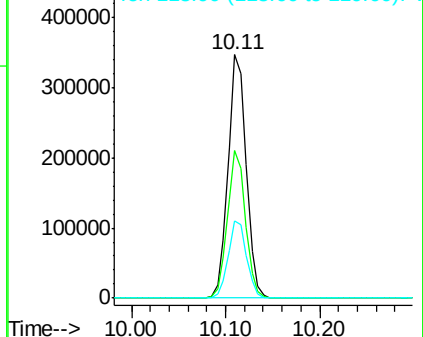
119 31.8 25.3 37.9

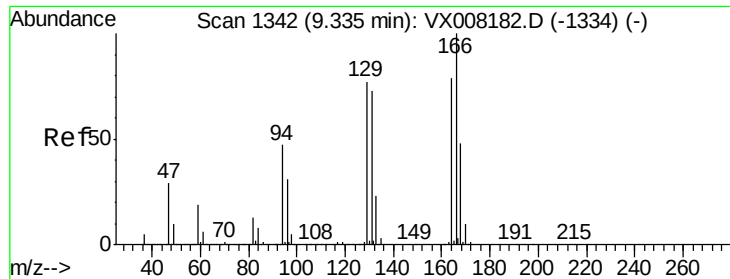


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

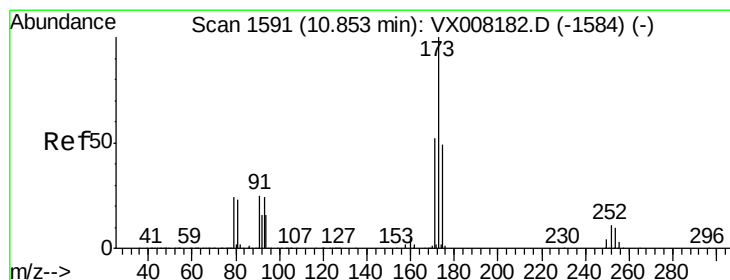
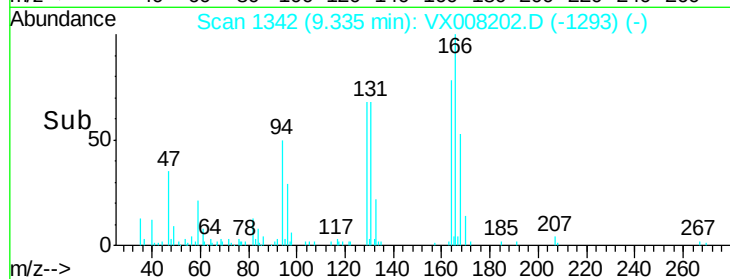
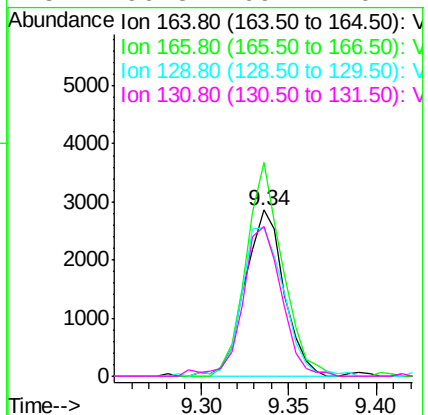
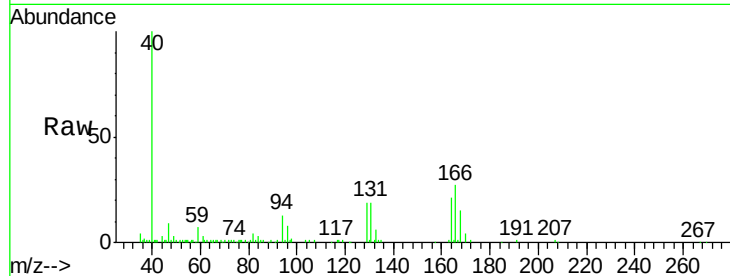




#64
Tetrachloroethene
Concen: 1.059 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008202.D
Acq: 19 Mar 2019 20:09

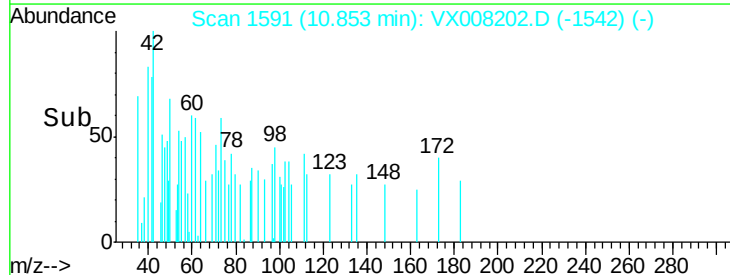
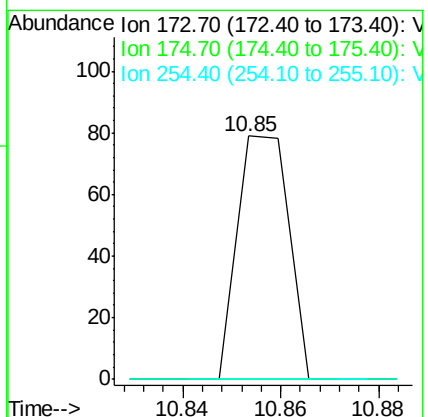
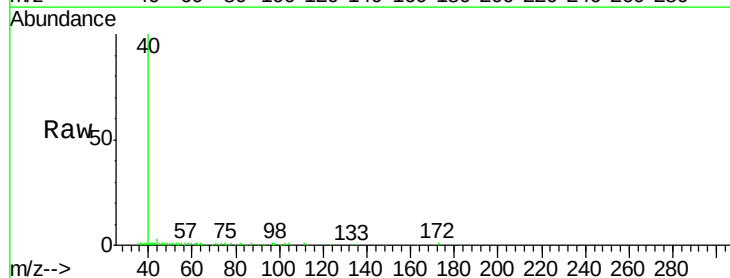
Instrument :
MSVOA_X
ClientSampled :

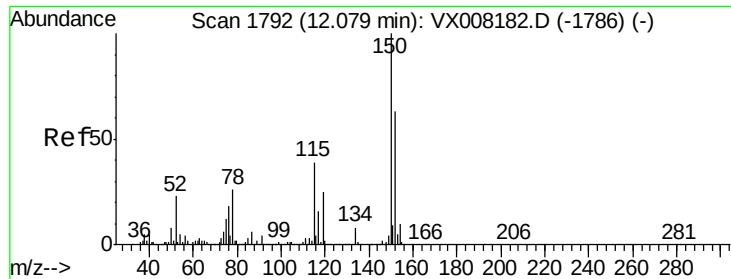
Tot Ion:164 Resp: 4445
Ion Ratio Lower Upper
164 100
166 128.7 103.4 155.0
129 89.1 72.2 108.4
131 90.3 69.4 104.2



#71
Bromoform
Concen: 2.218 ug/l
RT: 10.85 min Scan# 1591
Delta R.T. 0.00 min
Lab File: VX008202.D
Acq: 19 Mar 2019 20:09

Tgt Ion:173 Resp: 57
Ion Ratio Lower Upper
173 100
175 0.0 24.3 72.9#
254 0.0 0.1 0.1#

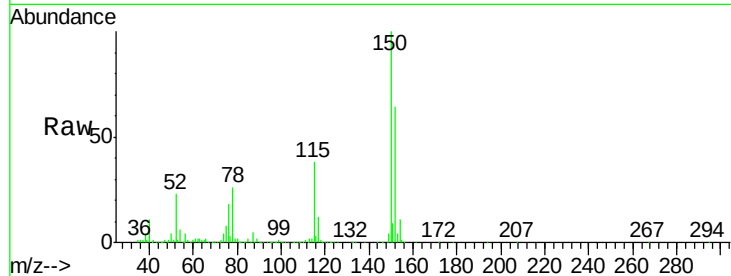




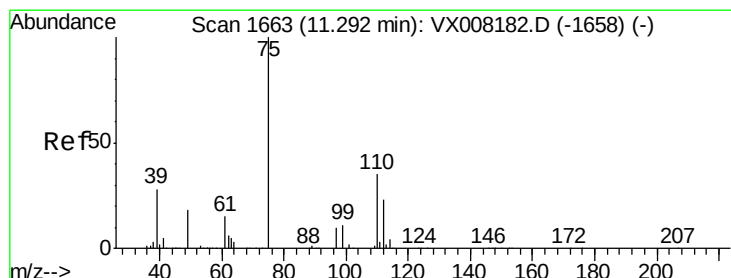
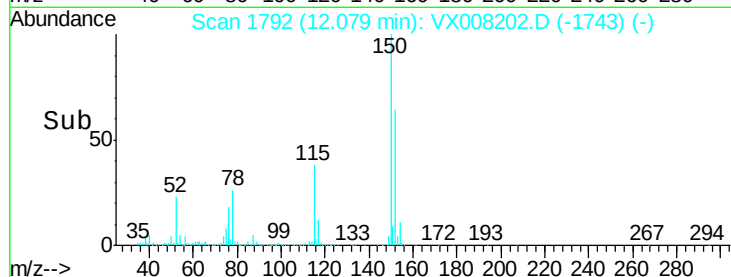
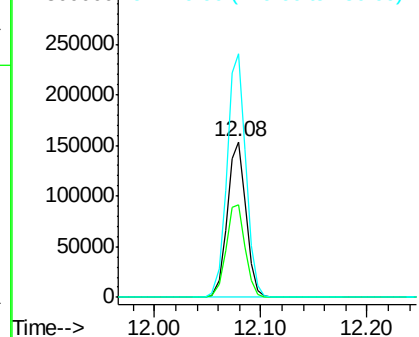
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX008202.D
 Acq: 19 Mar 2019 20:09

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:152 Resp: 188319
 Ion Ratio Lower Upper
 152 100
 115 60.9 38.6 115.7
 150 157.8 0.0 348.4

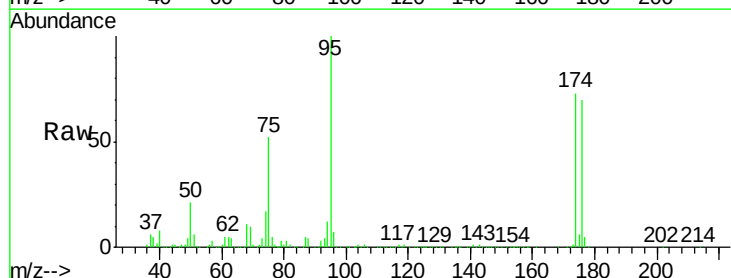


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

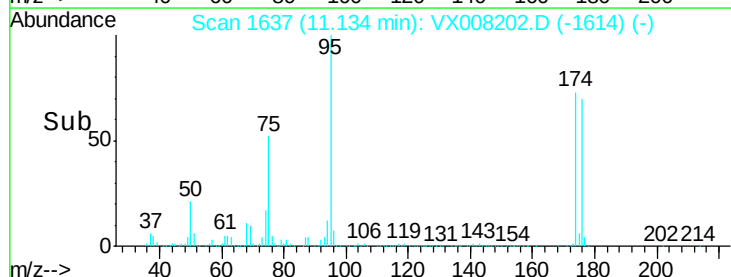
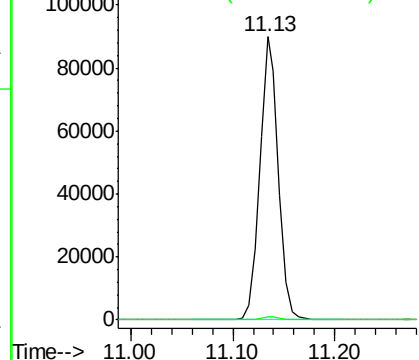


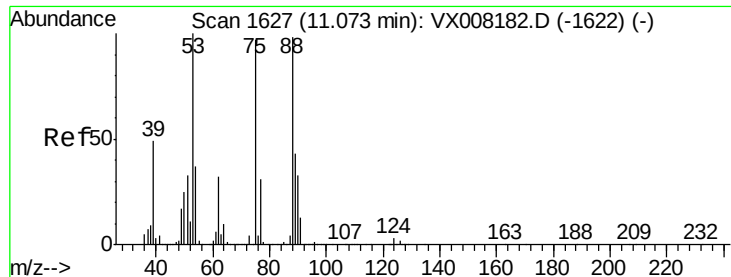
#76
 1,2,3-Trichloropropane
 Concen: 21.553 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008202.D
 Acq: 19 Mar 2019 20:09

Tgt Ion: 75 Resp: 114159
 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: 54.803 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008202.D
 Acq: 19 Mar 2019 20:09

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 114159
 Ion Ratio Lower Upper
 75 100
 53 0.3 76.1 114.1#
 89 0.0 36.3 54.5#

