

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092019\
 Data File : VX012556.D
 Acq On : 20 Sep 2019 14:48
 Operator : JC/SP
 Sample : K4883-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW2-R2-1

Quant Time: Sep 21 01:33:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	181864	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	292493	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	93914	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	122034	46.82	ug/l	0.00
Spiked Amount			Recovery	=	93.64%	
35) Dibromofluoromethane	5.49	113	86609	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
50) Toluene-d8	8.71	98	331351	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	11.14	95	116207	42.71	ug/l	0.00
Spiked Amount			Recovery	=	85.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.31	85	49	0.431	ug/l #	43
3) Chloromethane	1.32	50	676	0.676	ug/l #	42
5) Bromomethane	1.64	94	316	0.744	ug/l #	45
6) Chloroethane	1.70	64	214	0.253	ug/l #	76
10) Methyl Iodide	2.50	142	177	4.573	ug/l #	61
11) Tert butyl alcohol	3.03	59	3875	Below Cal	#	92
13) Acrolein	2.29	56	183	Below Cal		91
14) Allyl chloride	2.59	41	6917	2.598	ug/l #	66
16) Acetone	2.43	43	12574	2.683	ug/l	94
17) Carbon Disulfide	2.55	76	213	1.933	ug/l #	75
18) Methyl Acetate	2.59	43	16115	5.933	ug/l #	54
20) Methylene Chloride	2.84	84	663	0.420	ug/l #	81
25) 2-Butanone	4.69	43	426	0.236	ug/l #	51
36) 1,1-Dichloropropene	5.65	75	14776	8.312	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19720	8.919	ug/l #	16
39) Methylcyclohexane	7.46	83	442	0.256	ug/l #	69
44) Trichloroethene	7.21	130	334	0.225	ug/l	62
49) 1,4-Dioxane	7.70	88	44	0.783	ug/l #	10
60) Dibromochloromethane	9.33	129	734	0.384	ug/l #	11
64) Tetrachloroethene	9.34	164	650	0.589	ug/l #	82
71) Bromoform	11.12	173	37	2.894	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	58855	27.282	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	58855	73.358	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.81	105	1516	0.294	ug/l	99
95) Naphthalene	13.84	128	1680	0.259	ug/l #	88

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

Instrument :

MSVOA_X

ClientSampleId :

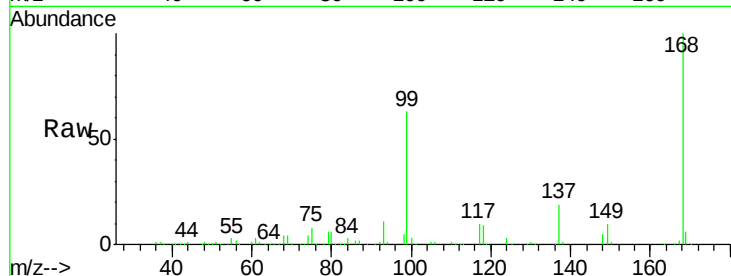
MW2-R2-1

Tot Ion:168 Resp: 181864

Ion Ratio Lower Upper

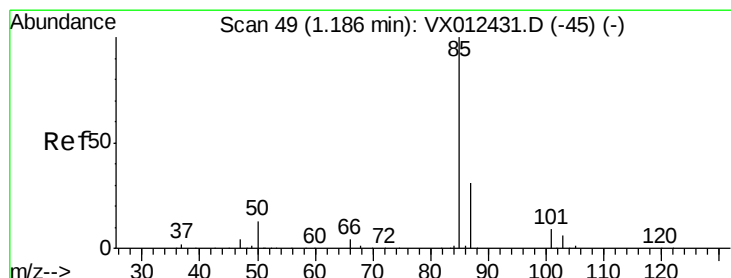
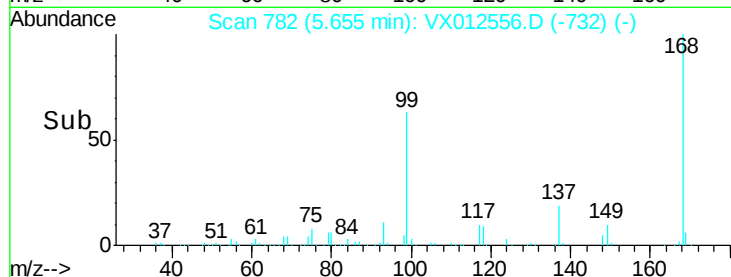
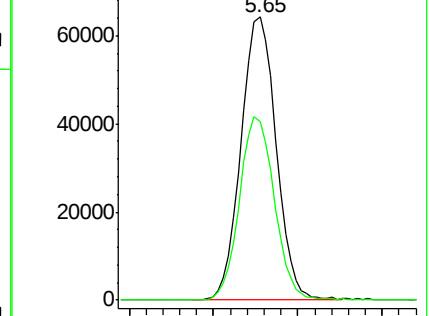
168 100

99 62.8 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.431 ug/l

RT: 1.31 min Scan# 69

Delta R.T. 0.12 min

Lab File: VX012556.D

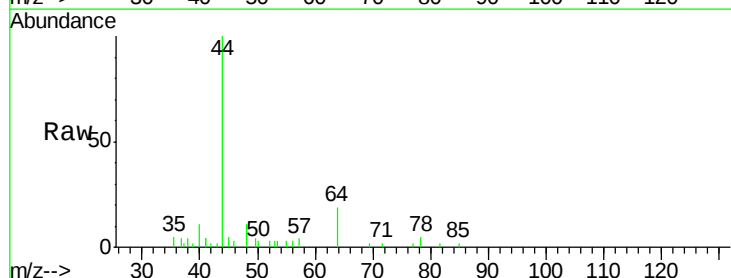
Acq: 20 Sep 2019 14:48

Tgt Ion: 85 Resp: 49

Ion Ratio Lower Upper

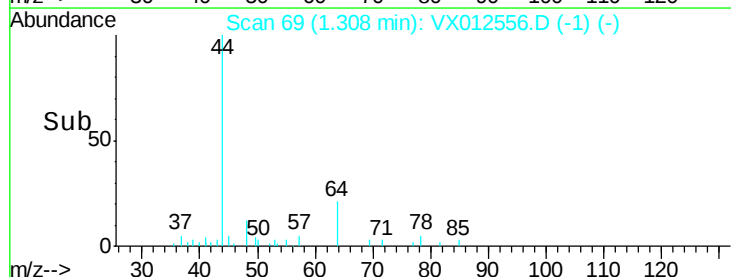
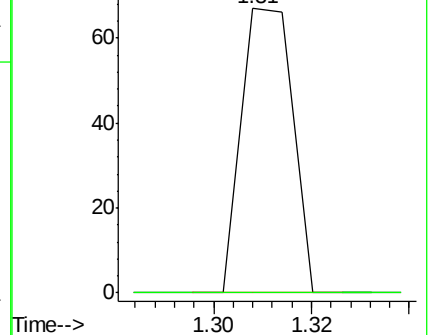
85 100

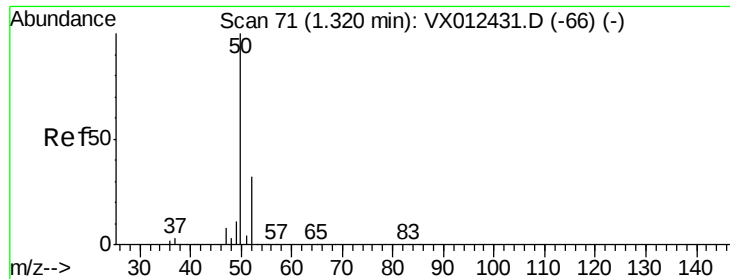
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.676 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

Instrument :

MSVOA_X

ClientSampled :

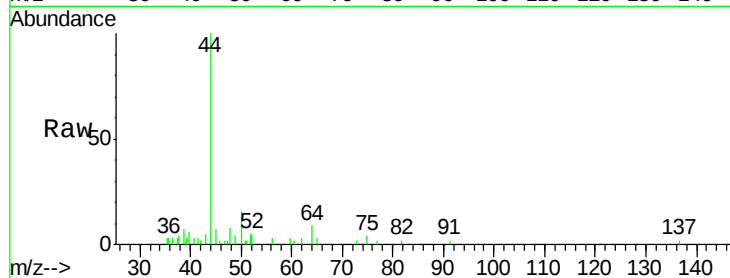
MW2-R2-1

Tot Ion: 50 Resp: 676

Ion Ratio Lower Upper

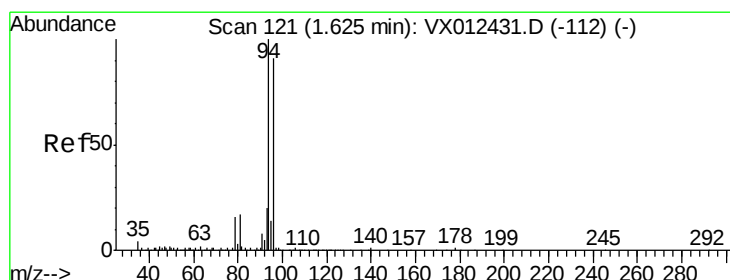
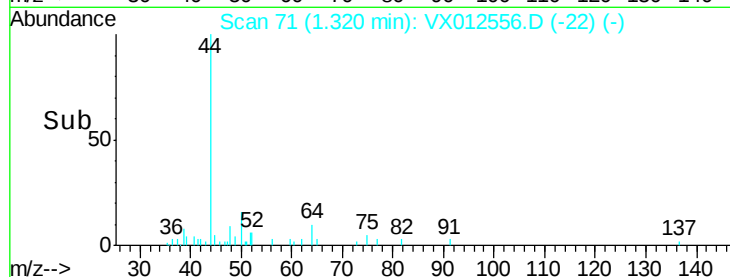
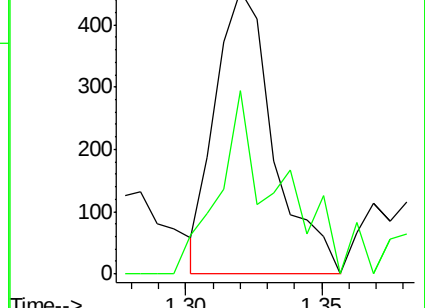
50 100

52 64.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.744 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012556.D

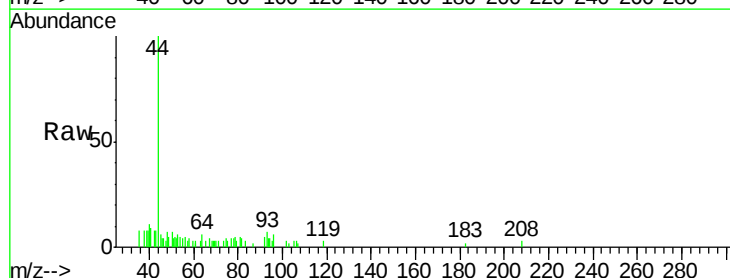
Acq: 20 Sep 2019 14:48

Tgt Ion: 94 Resp: 316

Ion Ratio Lower Upper

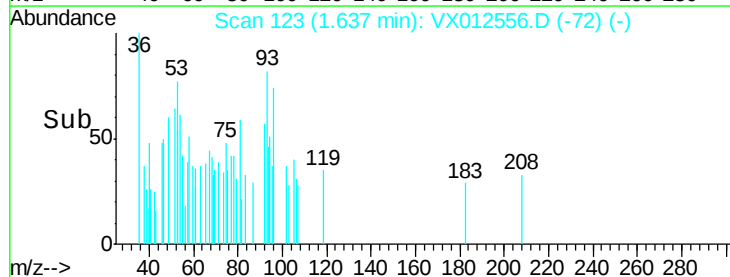
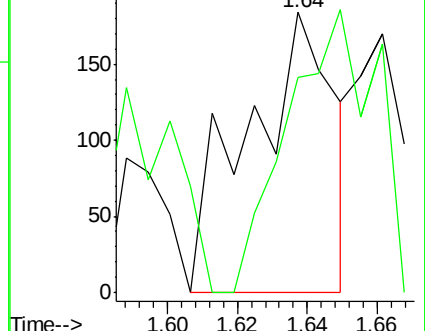
94 100

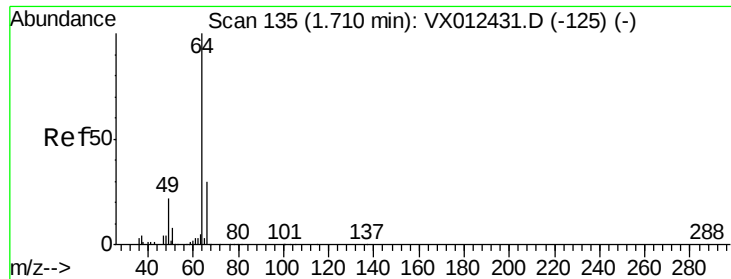
96 38.6 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.253 ug/l

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

Instrument :

MSVOA_X

ClientSampled :

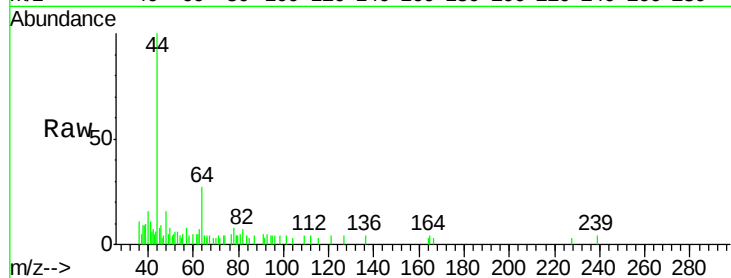
MW2-R2-1

Tot Ion: 64 Resp: 214

Ion Ratio Lower Upper

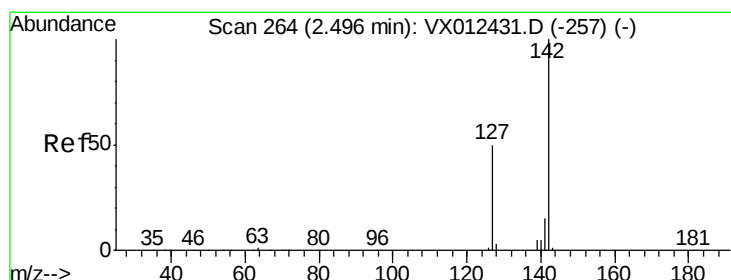
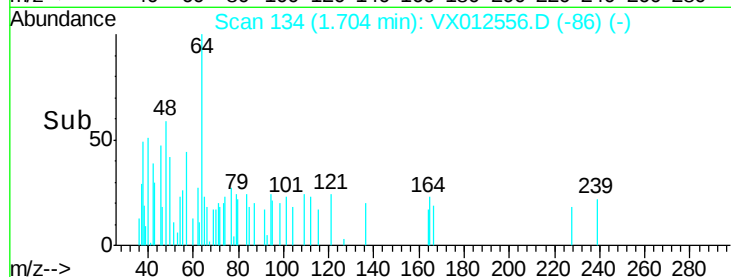
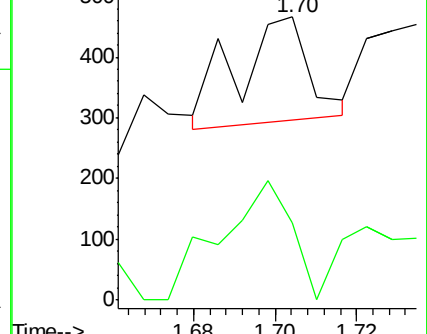
64 100

66 16.8 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.573 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

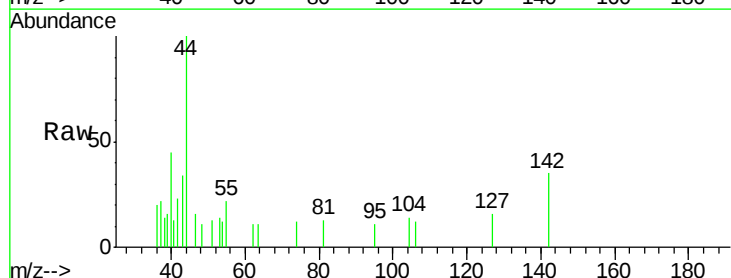
Tgt Ion: 142 Resp: 177

Ion Ratio Lower Upper

142 100

127 18.1 40.8 61.2#

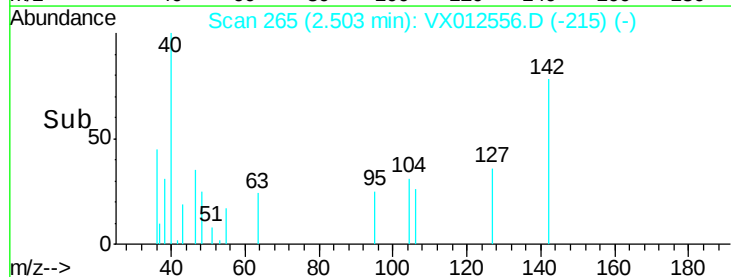
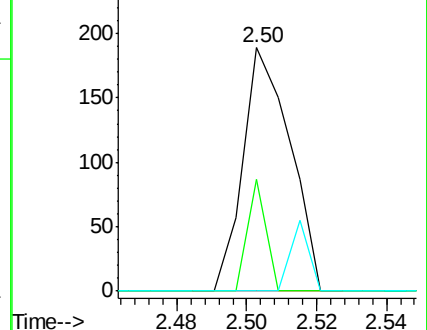
141 11.3 12.1 18.1#

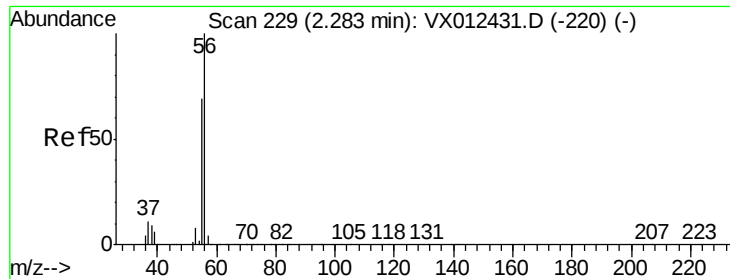


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

Instrument :

MSVOA_X

ClientSampleId :

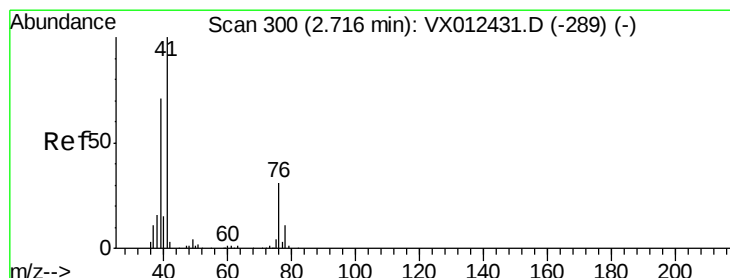
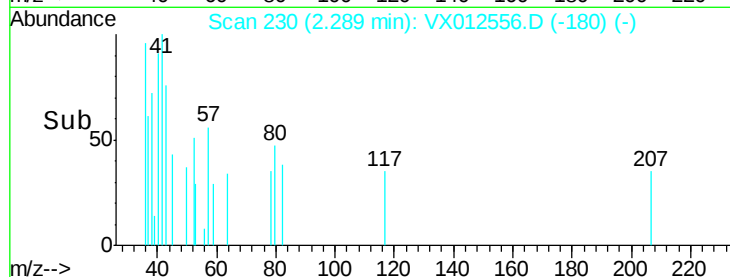
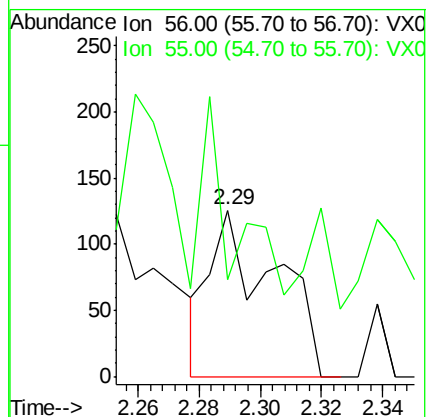
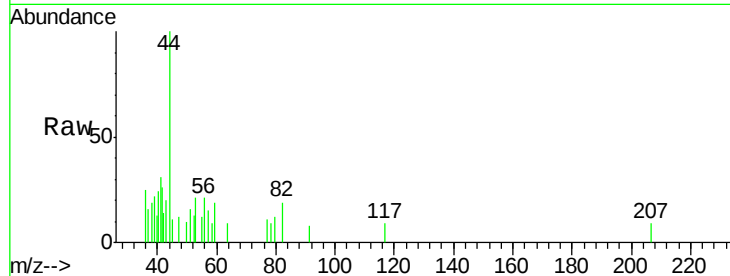
MW2-R2-1

Tot Ion: 56 Resp: 183

Ion Ratio Lower Upper

56 100

55 77.0 55.8 83.8



#14

Allyl chloride

Concen: 2.598 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

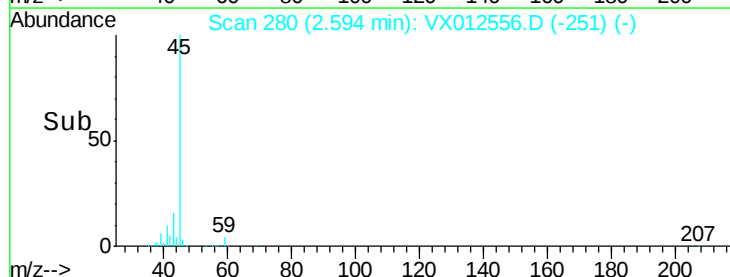
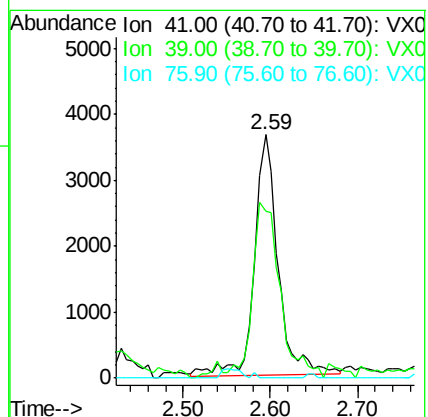
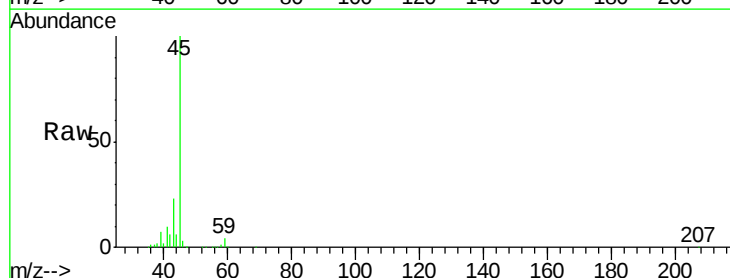
Tgt Ion: 41 Resp: 6917

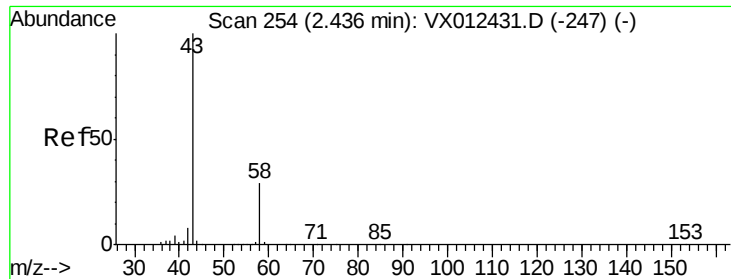
Ion Ratio Lower Upper

41 100

39 83.8 51.3 76.9#

76 0.0 22.6 33.8#





#16

Acetone

Concen: 2.683 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

Instrument :

MSVOA_X

ClientSampleId :

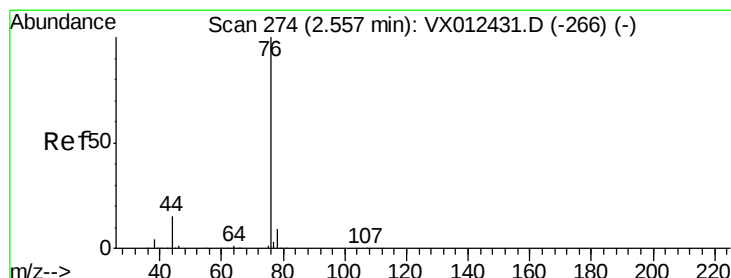
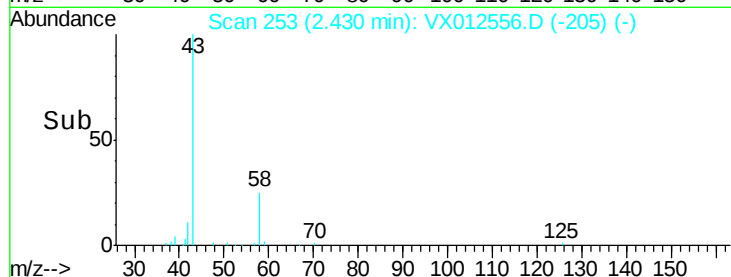
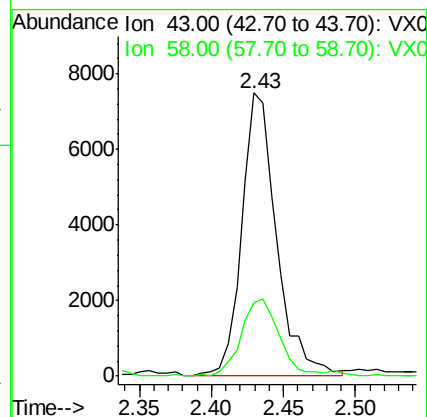
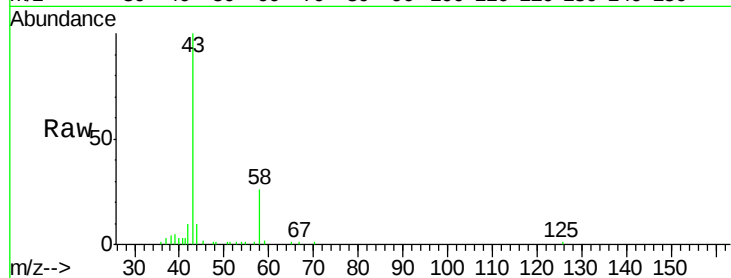
MW2-R2-1

Tot Ion: 43 Resp: 12574

Ion Ratio Lower Upper

43 100

58 25.8 23.3 34.9



#17

Carbon Disulfide

Concen: 1.933 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX012556.D

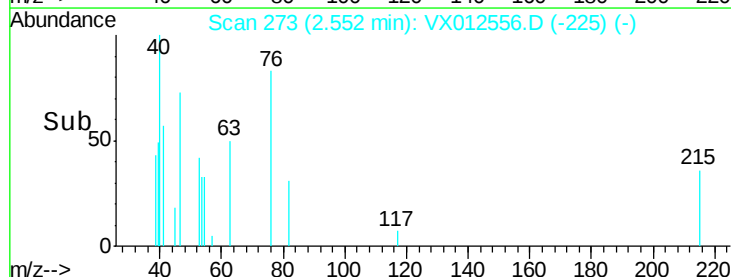
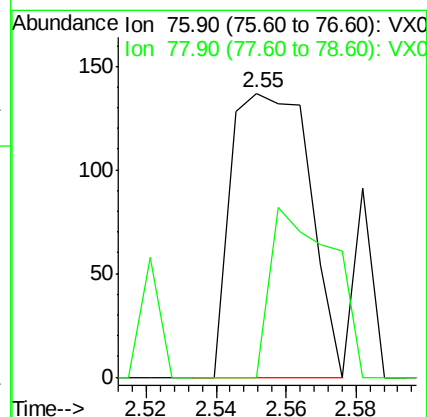
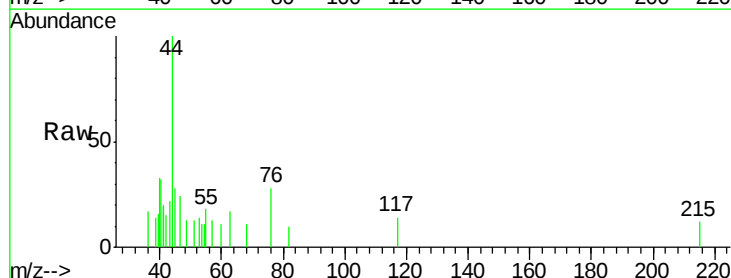
Acq: 20 Sep 2019 14:48

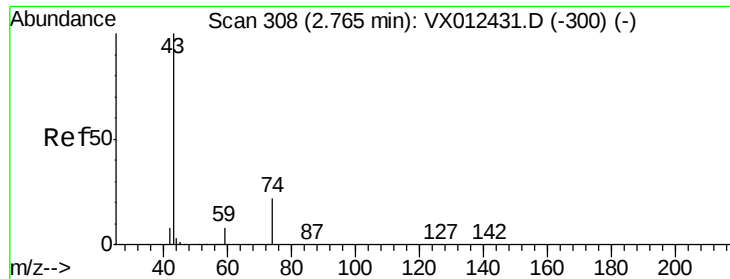
Tgt Ion: 76 Resp: 213

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

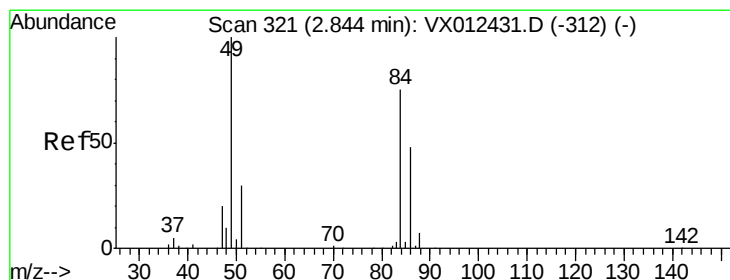
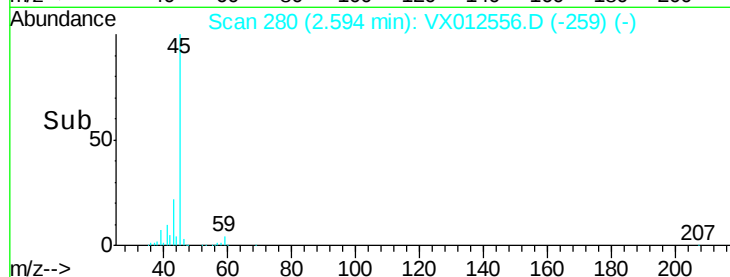
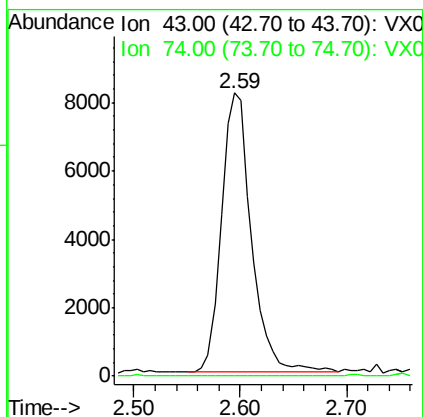
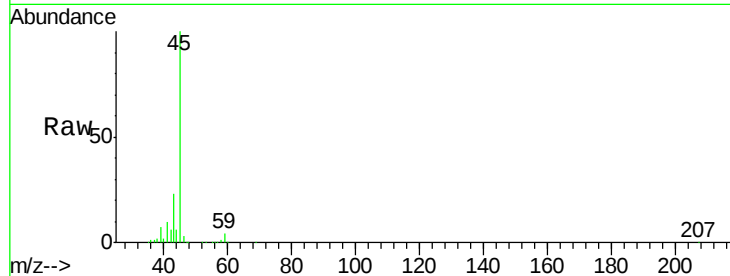




#18
Methyl Acetate
Concen: 5.933 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012556.D
Acq: 20 Sep 2019 14:48

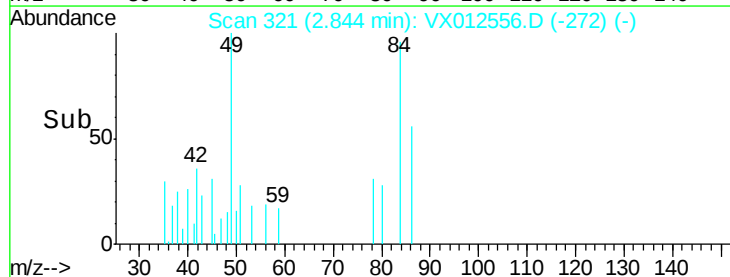
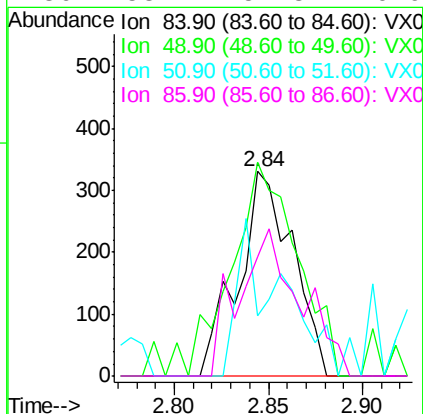
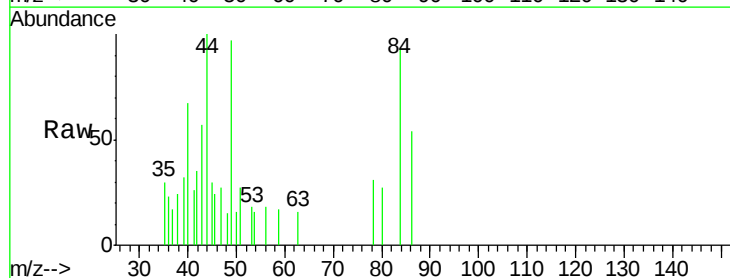
Instrument :
MSVOA_X
ClientSampleId :
MW2-R2-1

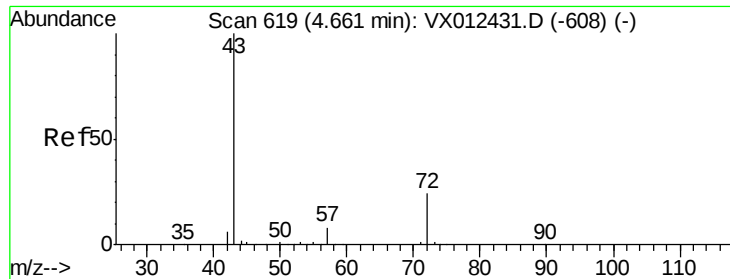
Tot Ion: 43 Resp: 16115
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: 0.420 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012556.D
Acq: 20 Sep 2019 14:48

Tgt Ion: 84 Resp: 663
Ion Ratio Lower Upper
84 100
49 104.5 106.8 160.2#
51 29.4 32.3 48.5#
86 58.2 51.3 76.9





#25

2-Butanone

Concen: 0.236 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

Instrument :

MSVOA_X

ClientSampled :

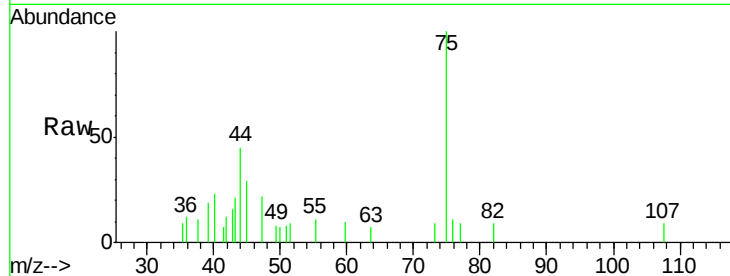
MW2-R2-1

Tot Ion: 43 Resp: 426

Ion Ratio Lower Upper

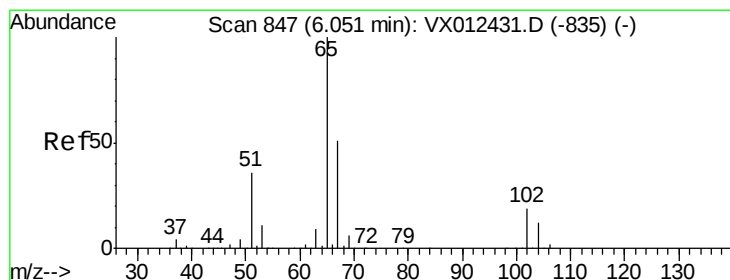
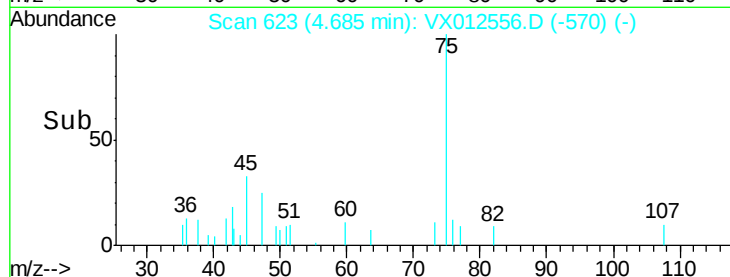
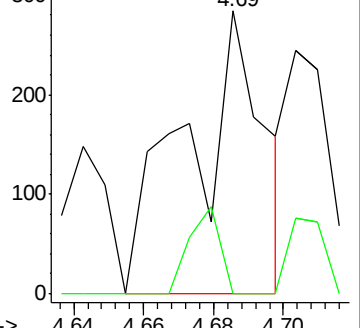
43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.820 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012556.D

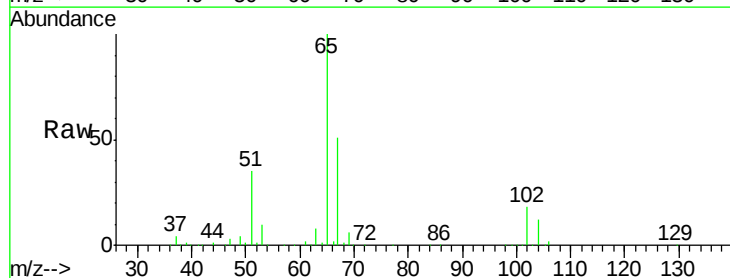
Acq: 20 Sep 2019 14:48

Tgt Ion: 65 Resp: 122034

Ion Ratio Lower Upper

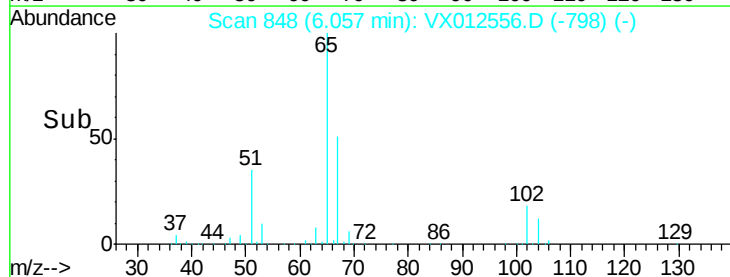
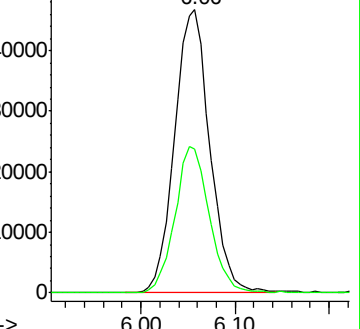
65 100

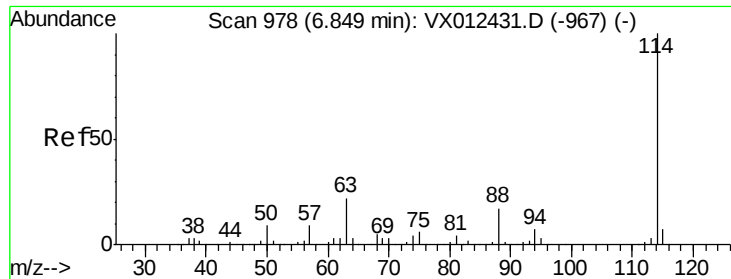
67 50.5 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

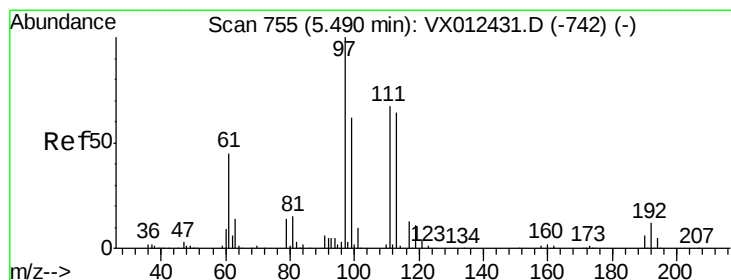
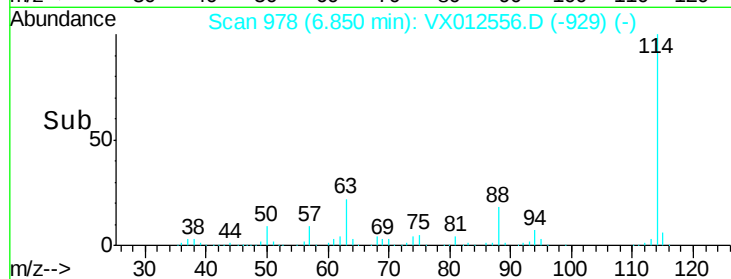
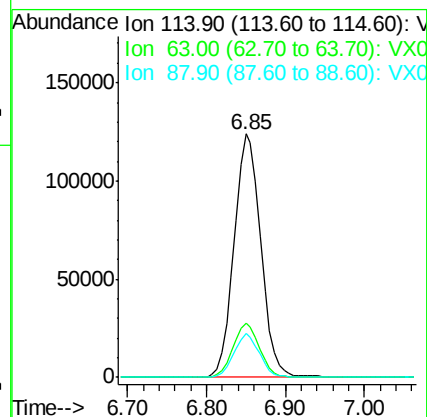
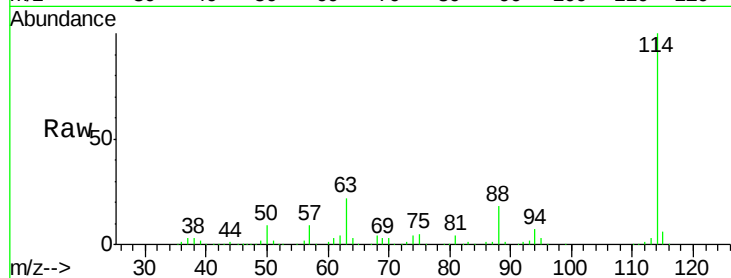




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012556.D
 Acq: 20 Sep 2019 14:48

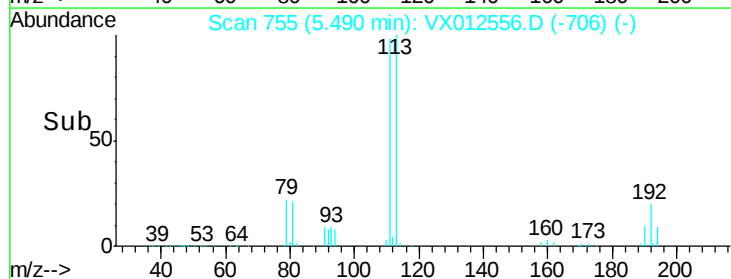
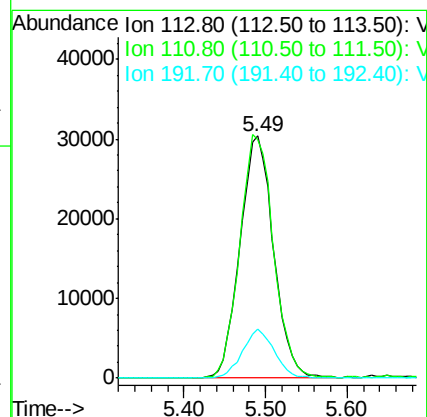
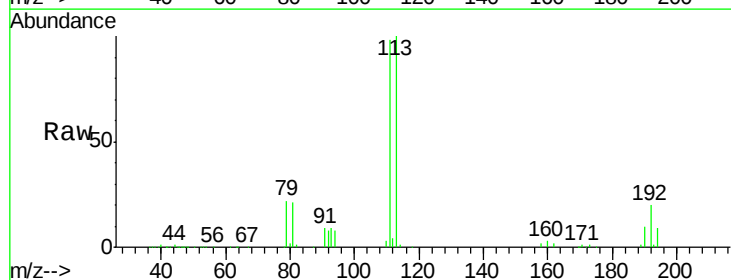
Instrument :
 MSVOA_X
 ClientSampleId :
 MW2-R2-1

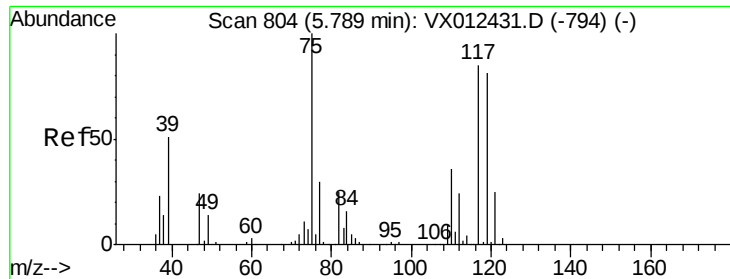
Tot Ion:114 Resp: 292493
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.2
 88 18.0 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 48.922 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012556.D
 Acq: 20 Sep 2019 14:48

Tgt Ion:113 Resp: 86609
 Ion Ratio Lower Upper
 113 100
 111 101.3 83.4 125.2
 192 19.3 14.4 21.6





#36

1,1-Dichloropropene

Concen: 8.312 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

Instrument :

MSVOA_X

ClientSampleId :

MW2-R2-1

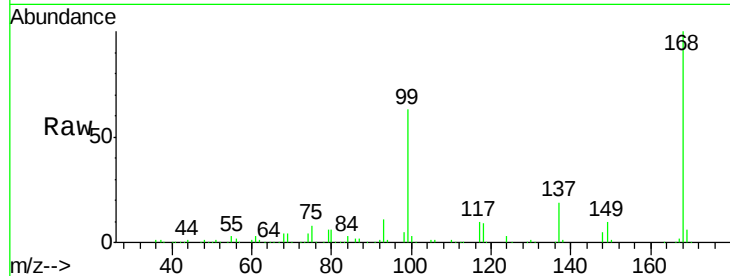
Tot Ion: 75 Resp: 14776

Ion Ratio Lower Upper

75 100

110 9.8 16.7 50.0#

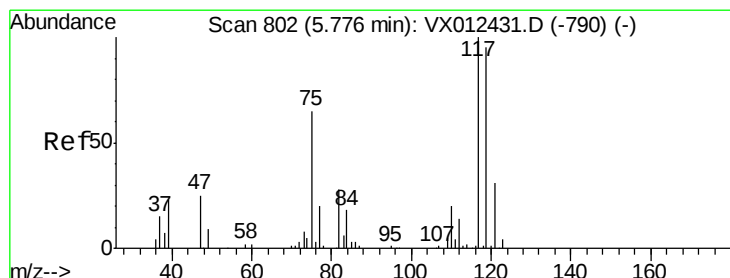
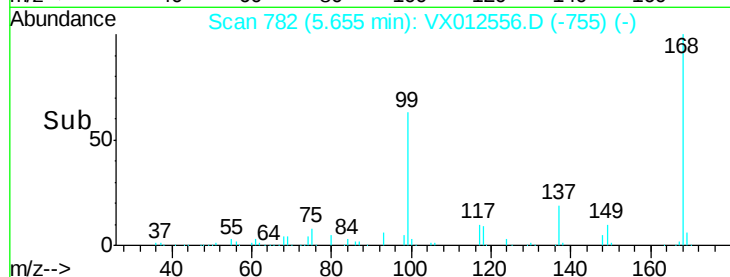
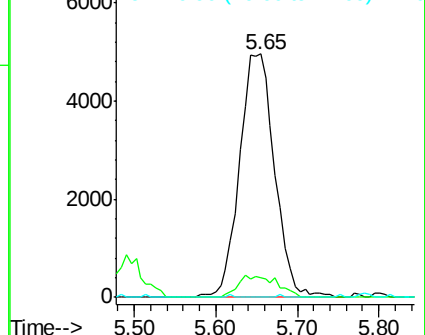
77 0.0 24.2 36.2#



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: 8.919 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

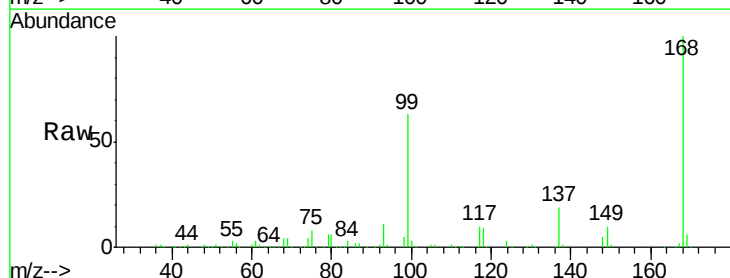
Tgt Ion: 117 Resp: 19720

Ion Ratio Lower Upper

117 100

119 4.0 75.7 113.5#

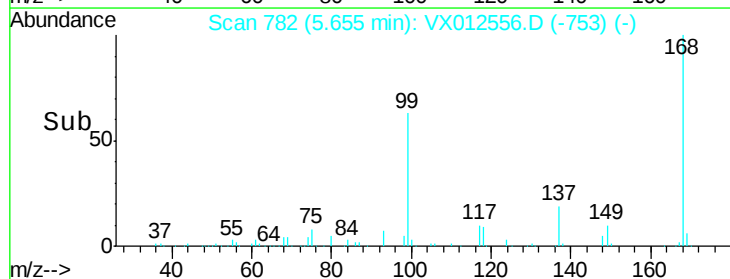
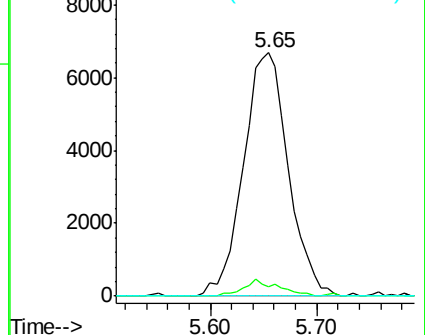
121 0.0 24.2 36.4#

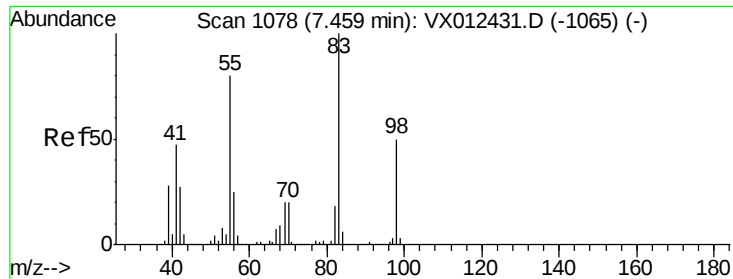


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

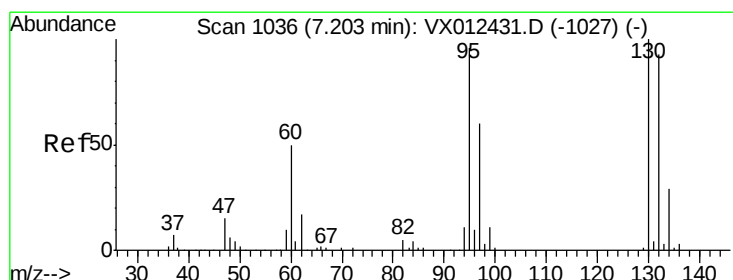
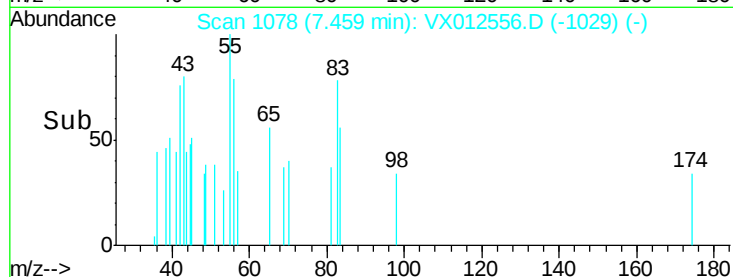
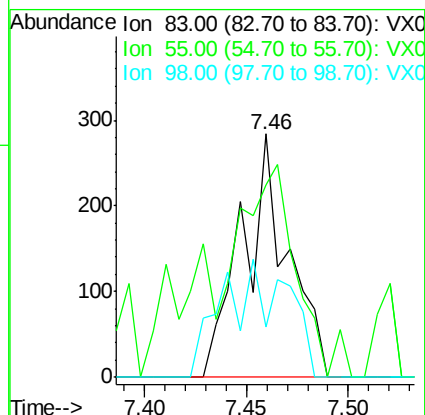
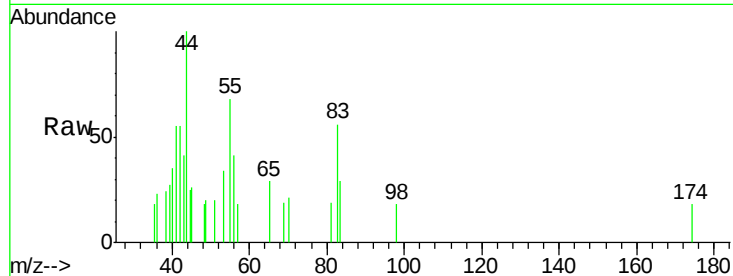




#39
Methvlcvclohexane
Concen: 0.256 ug/l
RT: 7.46 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VX012556.D
Acq: 20 Sep 2019 14:48

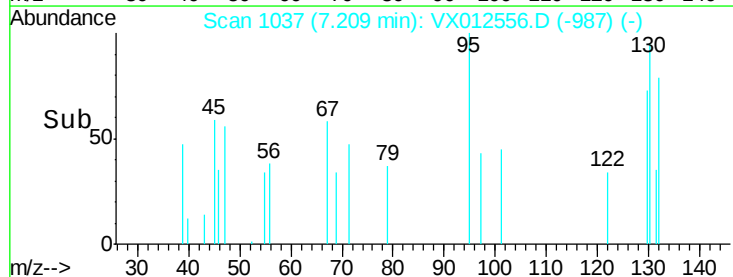
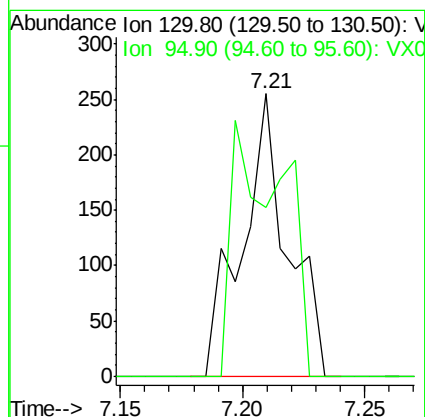
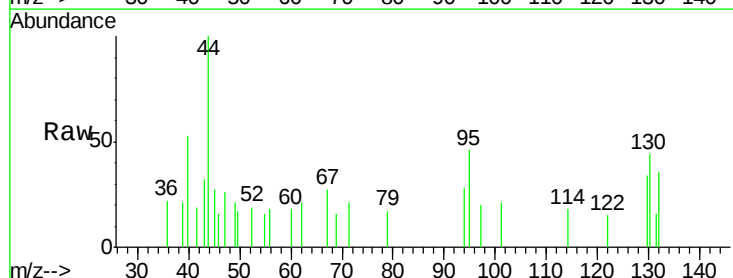
Instrument :
MSVOA_X
ClientSampleId :
MW2-R2-1

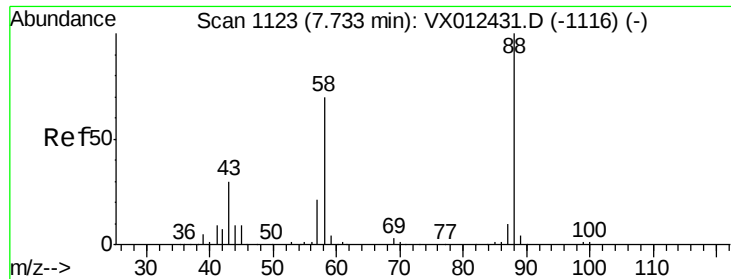
Tot Ion: 83 Resp: 442
Ion Ratio Lower Upper
83 100
55 59.9 64.4 96.6#
98 20.8 40.1 60.1#



#44
Trichloroethene
Concen: 0.225 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VX012556.D
Acq: 20 Sep 2019 14:48

Tgt Ion:130 Resp: 334
Ion Ratio Lower Upper
130 100
95 59.6 0.0 193.0

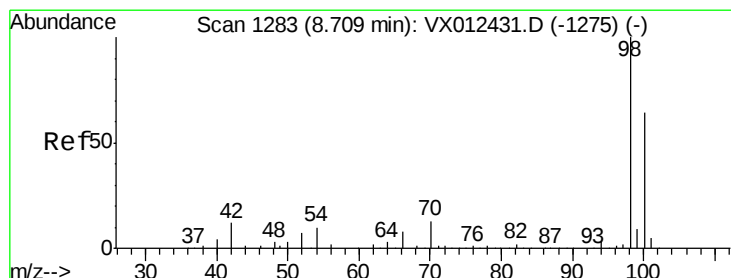
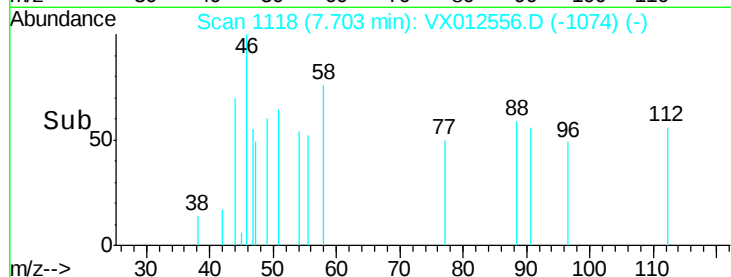
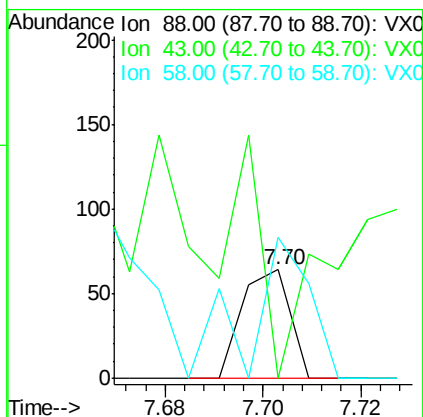
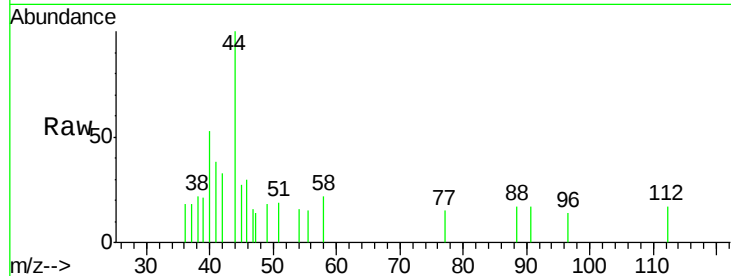




#49
1,4-Dioxane
Concen: 0.783 ug/l
RT: 7.70 min Scan# 1118
Delta R.T. -0.03 min
Lab File: VX012556.D
Acq: 20 Sep 2019 14:48

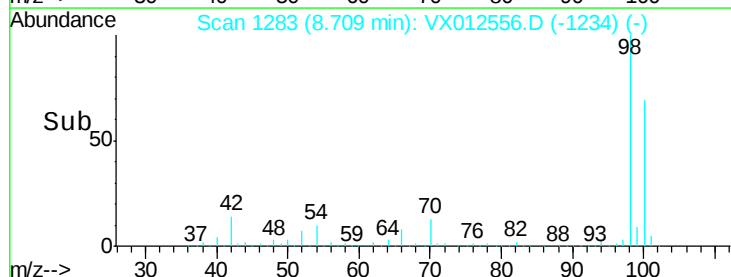
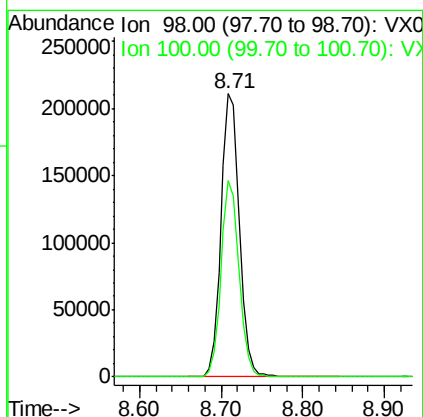
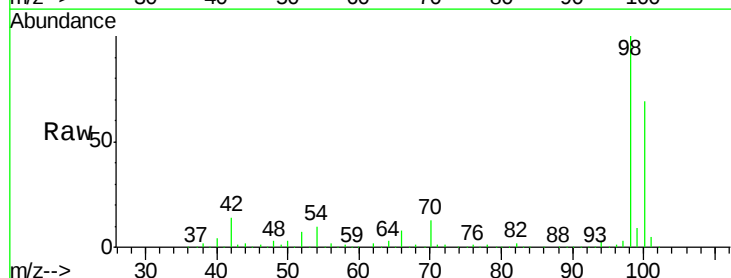
Instrument :
MSVOA_X
ClientSampled :
MW2-R2-1

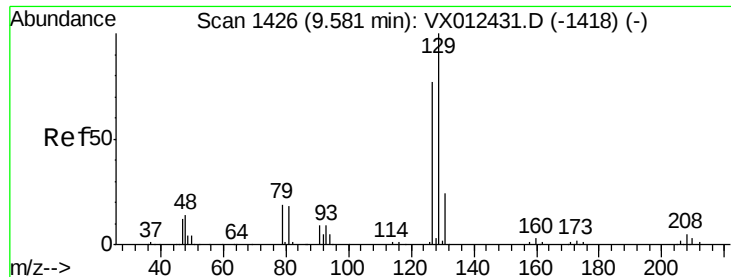
Tot Ion: 88 Resp: 44
Ion Ratio Lower Upper
88 100
43 0.0 29.4 44.0#
58 159.1 57.5 86.3#



#50
Toluene-d8
Concen: 50.566 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012556.D
Acq: 20 Sep 2019 14:48

Tgt Ion: 98 Resp: 331351
Ion Ratio Lower Upper
98 100
100 68.0 53.4 80.2





#60

Dibromochloromethane

Concen: 0.384 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

Instrument :

MSVOA_X

ClientSampleId :

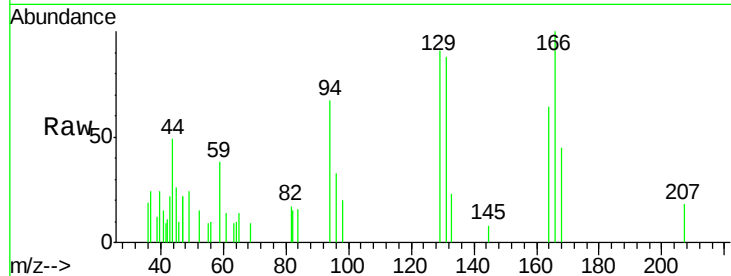
MW2-R2-1

Tot Ion:129 Resp: 734

Ion Ratio Lower Upper

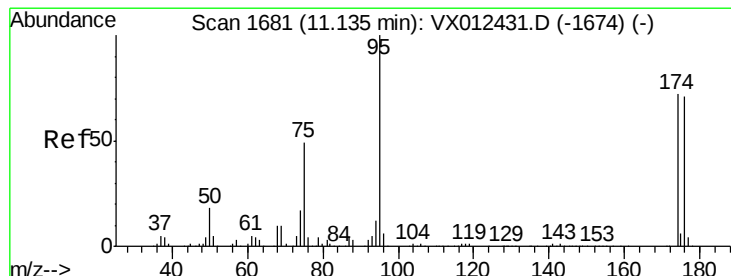
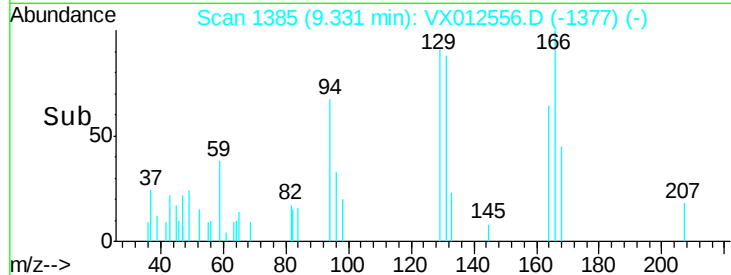
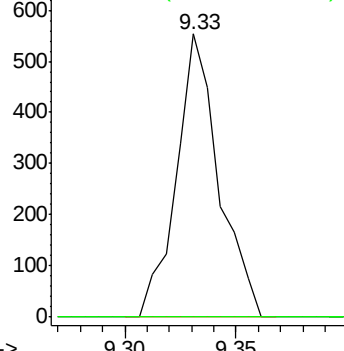
129 100

127 0.0 38.9 116.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 42.711 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

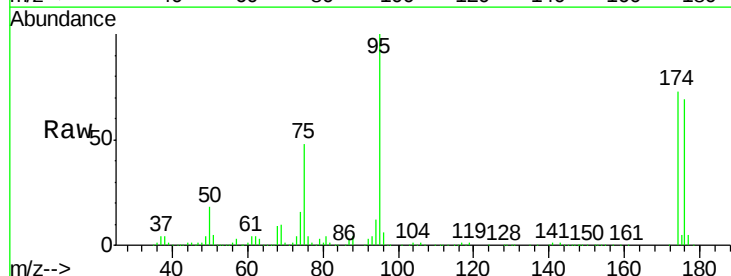
Tgt Ion: 95 Resp: 116207

Ion Ratio Lower Upper

95 100

174 71.6 0.0 140.0

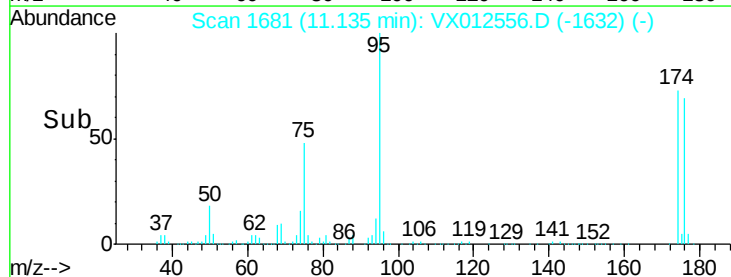
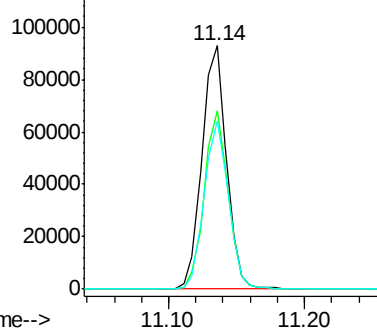
176 68.9 0.0 135.4

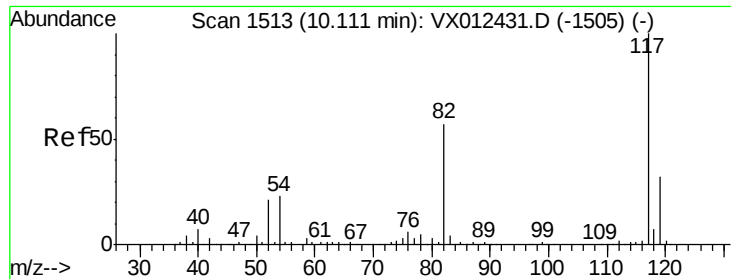


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

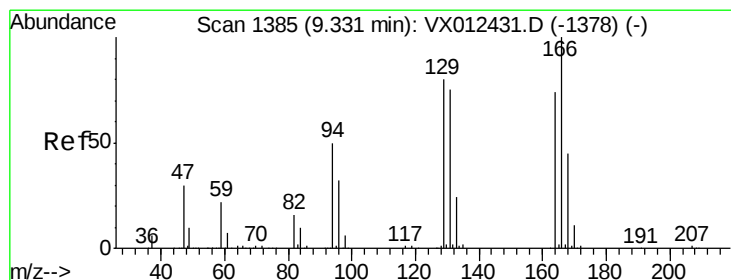
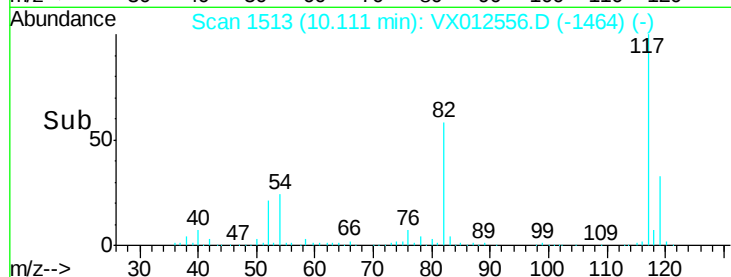
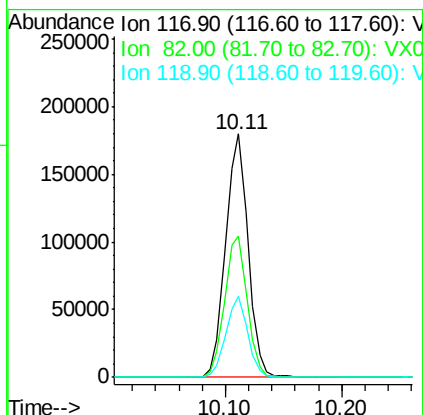
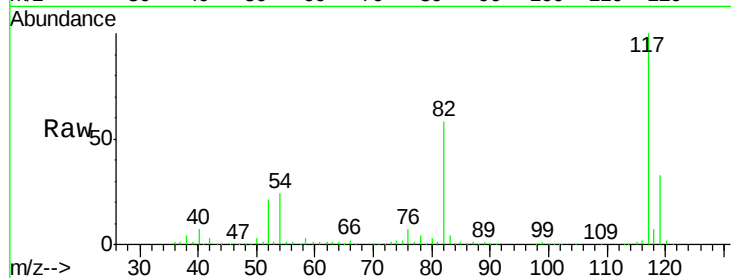




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012556.D
Acq: 20 Sep 2019 14:48

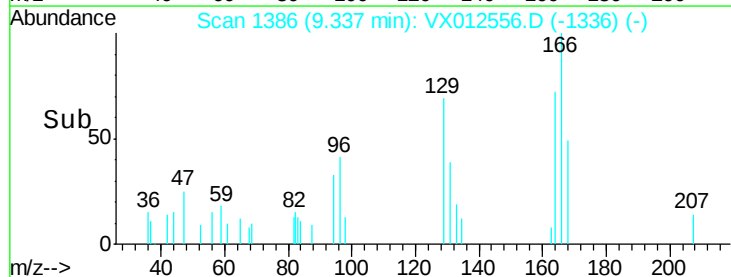
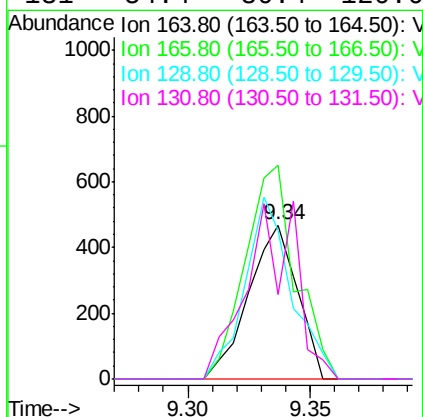
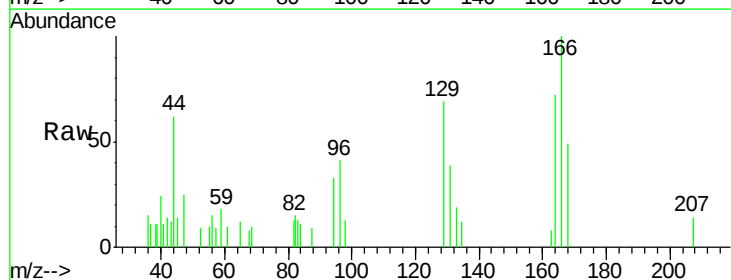
Instrument :
MSVOA_X
ClientSampleId :
MW2-R2-1

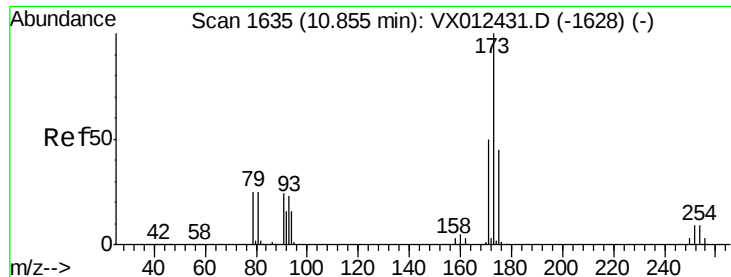
Tot Ion:117 Resp: 240697
Ion Ratio Lower Upper
117 100
82 57.8 45.9 68.9
119 33.0 25.3 37.9



#64
Tetrachloroethene
Concen: 0.589 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX012556.D
Acq: 20 Sep 2019 14:48

Tgt Ion:164 Resp: 650
Ion Ratio Lower Upper
164 100
166 138.6 107.8 161.6
129 95.9 86.2 129.2
131 54.4 80.4 120.6#

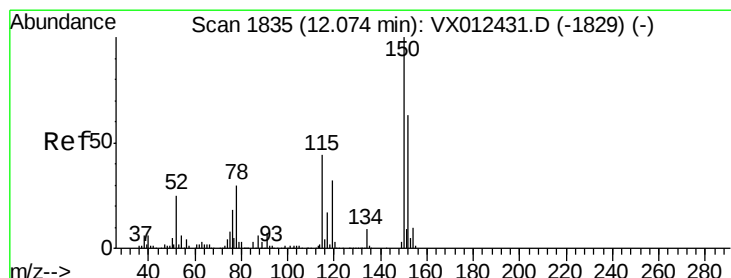
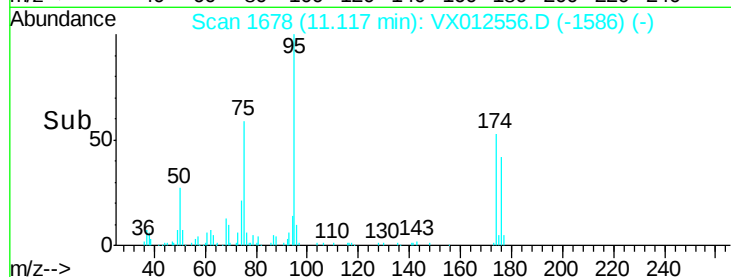
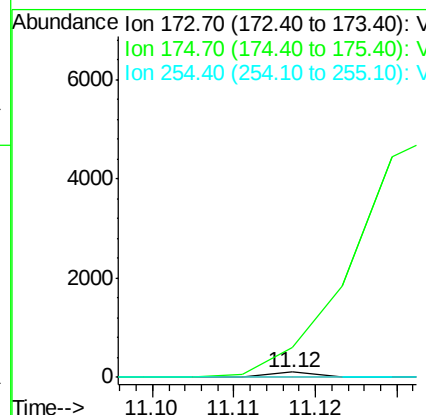
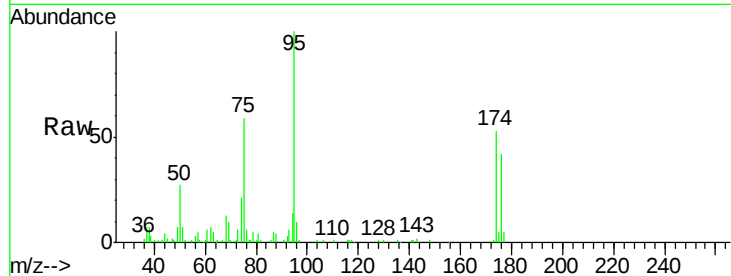




#71
Bromoform
Concen: 2.894 ug/l
RT: 11.12 min Scan# 1678
Delta R.T. 0.26 min
Lab File: VX012556.D
Acq: 20 Sep 2019 14:48

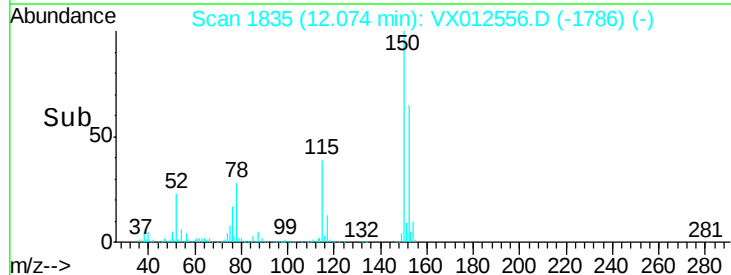
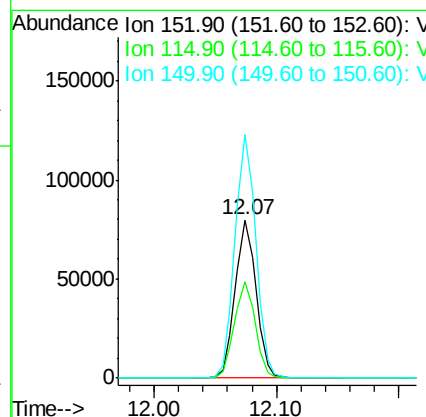
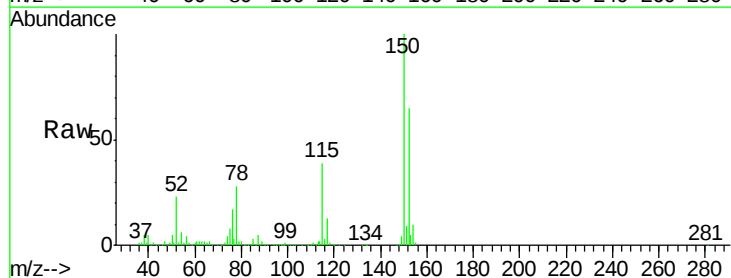
Instrument :
MSVOA_X
ClientSampleId :
MW2-R2-1

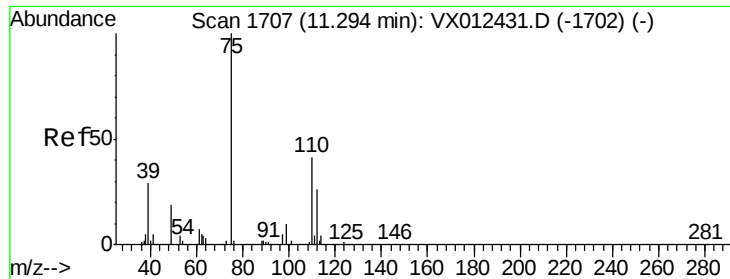
Tot Ion:173 Resp: 37
Ion Ratio Lower Upper
173 100
175 0.0 23.7 71.1#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012556.D
Acq: 20 Sep 2019 14:48

Tgt Ion:152 Resp: 93914
Ion Ratio Lower Upper
152 100
115 61.3 44.1 132.3
150 154.5 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 27.282 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

Instrument :

MSVOA_X

ClientSampled :

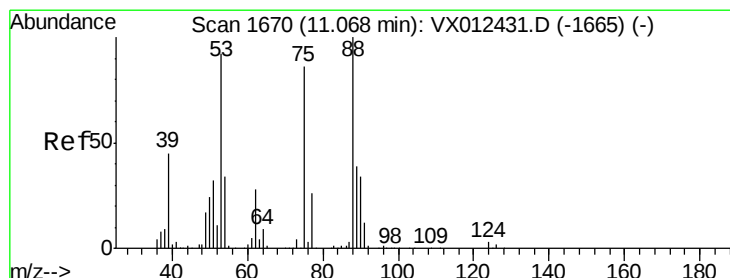
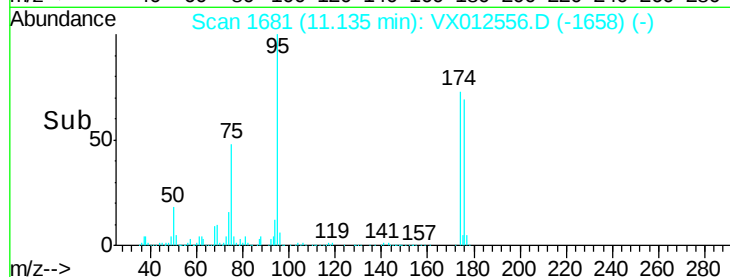
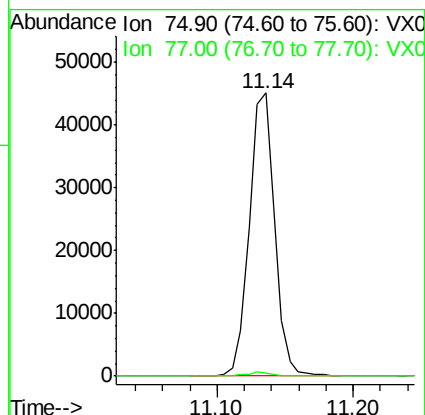
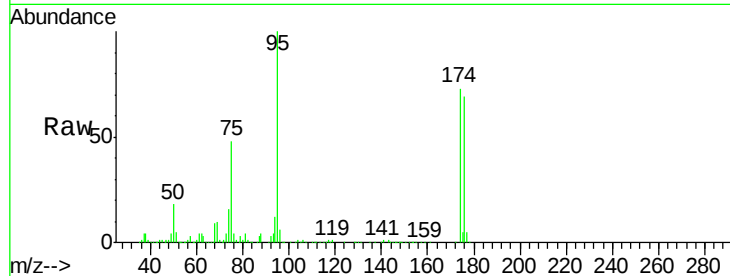
MW2-R2-1

Tot Ion: 75 Resp: 58855

Ion Ratio Lower Upper

75 100

77 1.5 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.358 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012556.D

Acq: 20 Sep 2019 14:48

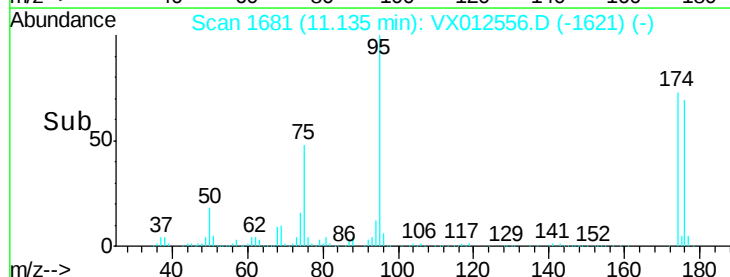
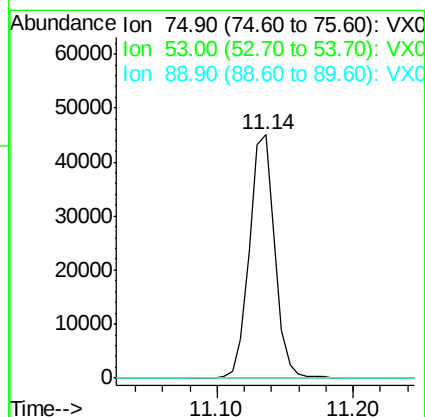
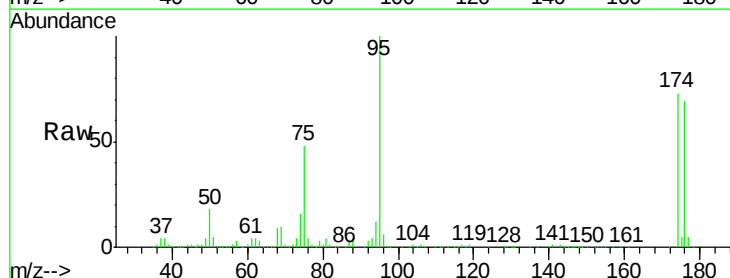
Tgt Ion: 75 Resp: 58855

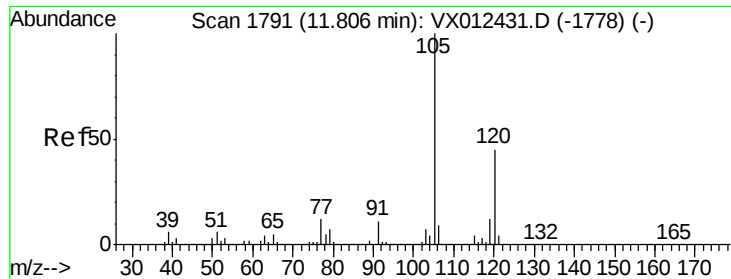
Ion Ratio Lower Upper

75 100

53 0.2 83.6 125.4#

89 0.0 36.3 54.5#

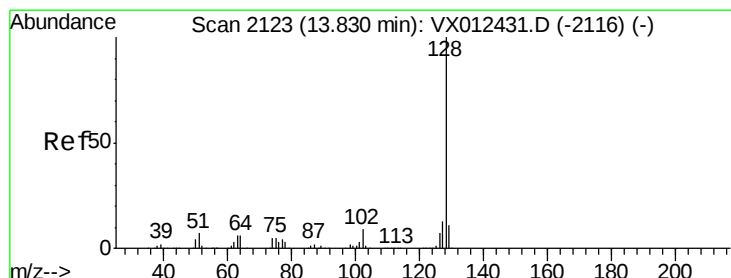
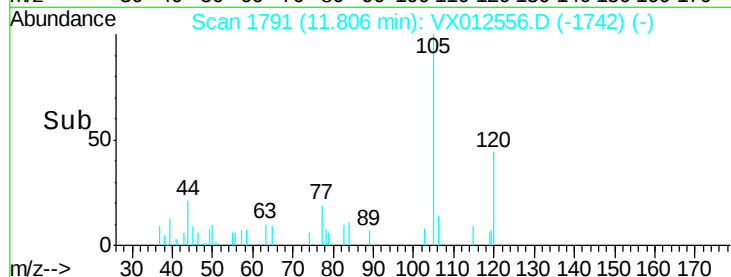
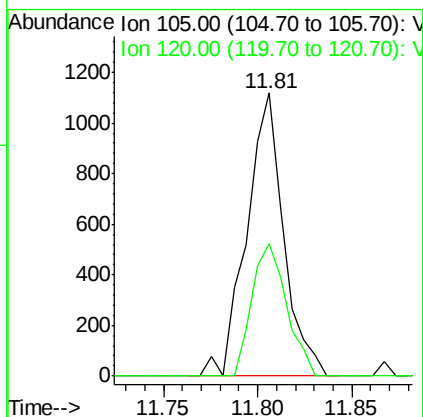
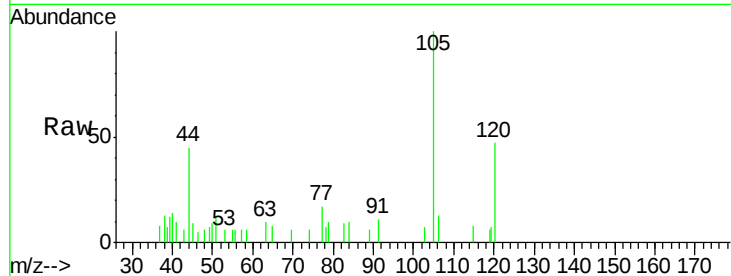




#84
 1,2,4-Trimethylbenzene
 Concen: 0.294 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.00 min
 Lab File: VX012556.D
 Acq: 20 Sep 2019 14:48

Instrument :
 MSVOA_X
 ClientSampleId :
 MW2-R2-1

Tot Ion:105 Resp: 1516
 Ion Ratio Lower Upper
 105 100
 120 43.9 22.2 66.6



#95
 Naphthalene
 Concen: 0.259 ug/l
 RT: 13.84 min Scan# 2124
 Delta R.T. 0.01 min
 Lab File: VX012556.D
 Acq: 20 Sep 2019 14:48

Tgt Ion:128 Resp: 1680
 Ion Ratio Lower Upper
 128 100
 127 7.1 10.2 15.4#
 129 14.2 8.8 13.2#

