

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111219\
 Data File : VX013388.D
 Acq On : 12 Nov 2019 16:28
 Operator : JC/SP
 Sample : K5803-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS037-191111

Quant Time: Nov 13 02:42:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	761425	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1194800	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1068517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	485914	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	432668	47.96	ug/l	0.00
Spiked Amount			Recovery	=	95.92%	
35) Dibromofluoromethane	5.48	113	362142	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	8.71	98	1422147	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	11.13	95	481992	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	

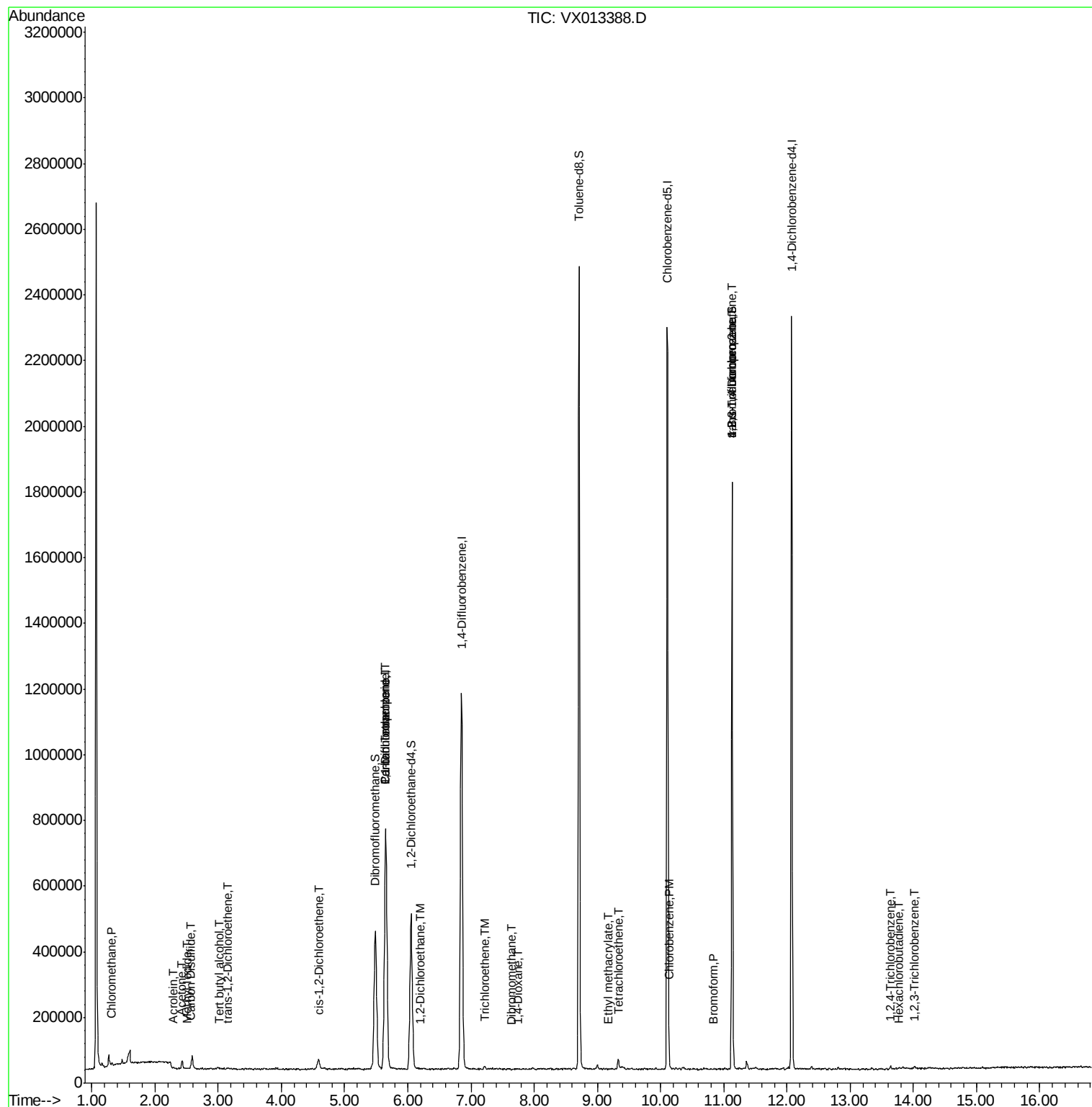
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	4105	0.431	ug/l	89
6) Chloroethane	1.72	64	876	Below Cal	#	43
10) Methyl Iodide	2.51	142	3193	0.362	ug/l #	83
11) Tert butyl alcohol	3.02	59	4683	1.970	ug/l #	86
13) Acrolein	2.28	56	687	0.533	ug/l	83
16) Acetone	2.43	43	31832	7.075	ug/l	99
17) Carbon Disulfide	2.56	76	5819	0.311	ug/l #	84
21) trans-1,2-Dichloroethene	3.16	96	1812	0.238	ug/l #	51
27) cis-1,2-Dichloroethene	4.59	96	18260	2.143	ug/l	91
36) 1,1-Dichloropropene	5.65	75	52313	5.104	ug/l #	51
38) Carbon Tetrachloride	5.65	117	66630	6.648	ug/l #	16
42) 1,2-Dichloroethane	6.20	62	2762	0.240	ug/l #	74
44) Trichloroethene	7.21	130	4553	0.518	ug/l	79
46) Dibromomethane	7.64	93	1263	0.227	ug/l #	30
49) 1,4-Dioxane	7.74	88	583	2.586	ug/l #	1
56) Ethyl methacrylate	9.17	69	768	1.616	ug/l #	44
64) Tetrachloroethene	9.33	164	3133	0.410	ug/l #	88
65) Chlorobenzene	10.14	112	5622	0.260	ug/l	97
71) Bromoform	10.84	173	711	3.293	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	235525	23.864	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	235525	61.425	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.65	180	2597	0.243	ug/l #	81
94) Hexachlorobutadiene	13.77	225	1403	0.269	ug/l	82
96) 1,2,3-Trichlorobenzene	14.01	180	2345	0.219	ug/l	87

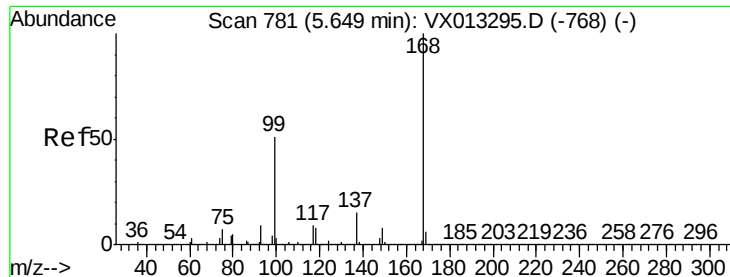
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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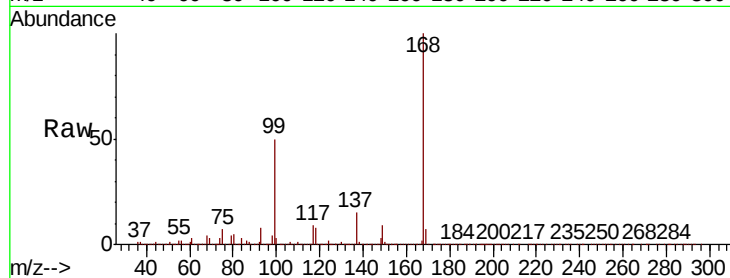


#1

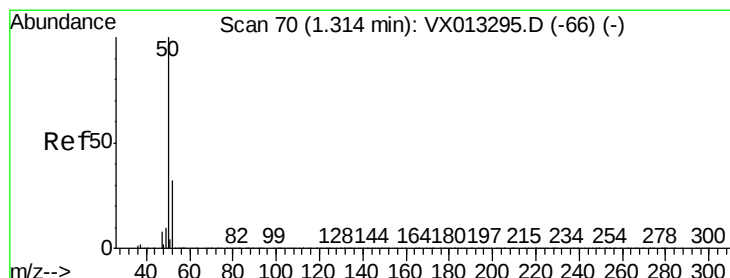
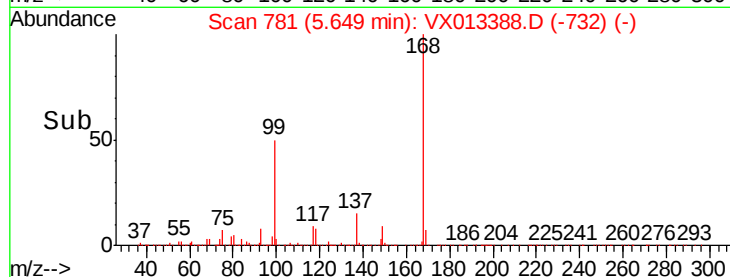
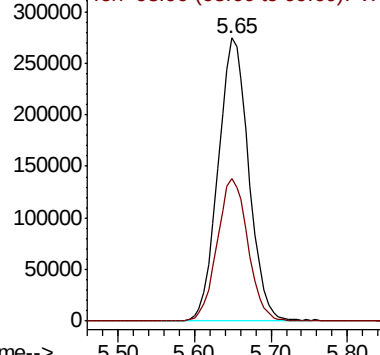
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.00 min
Lab File: VX013388.D
Acq: 12 Nov 2019 16:28

Instrument :
MSVOA_X
ClientSampleId :
KY038PS037-191111

Tot Ion:168 Resp: 761425
Ion Ratio Lower Upper
168 100
99 50.1 40.8 61.2



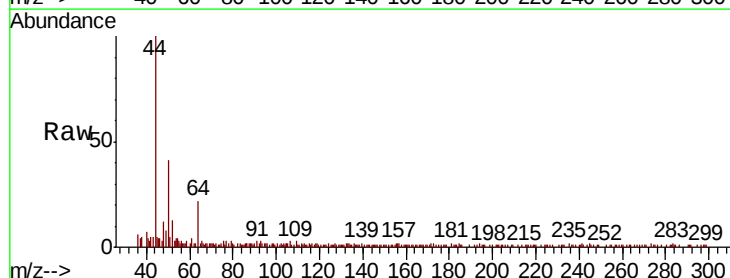
Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0



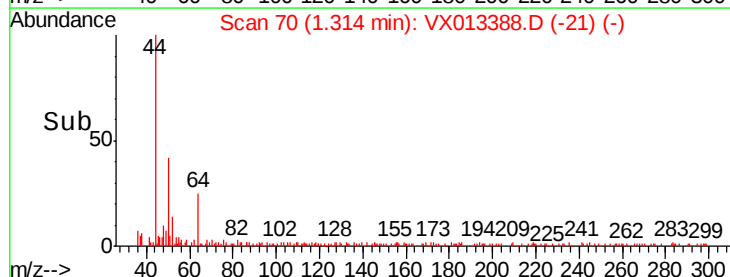
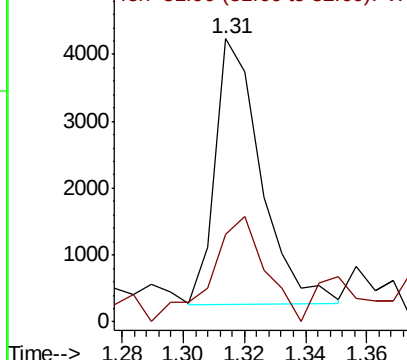
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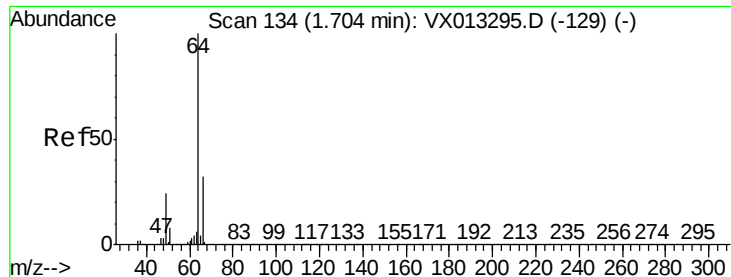
Chloromethane
Concen: 0.431 ug/l
RT: 1.31 min Scan# 70
Delta R.T. 0.00 min
Lab File: VX013388.D
Acq: 12 Nov 2019 16:28

Tgt Ion: 50 Resp: 4105
Ion Ratio Lower Upper
50 100
52 25.6 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VX0
Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

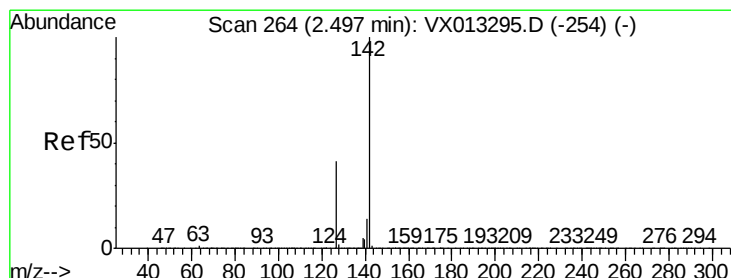
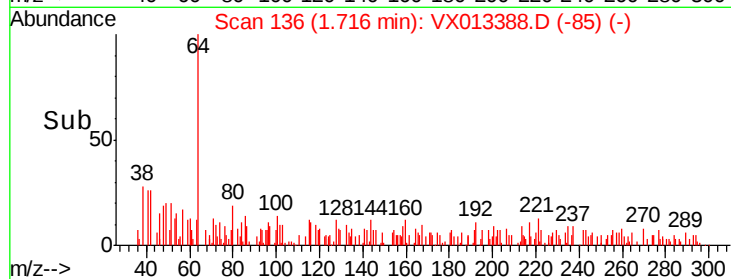
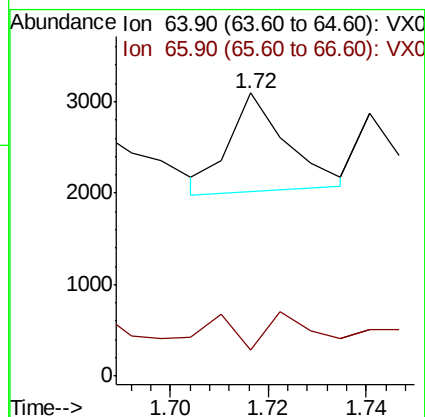
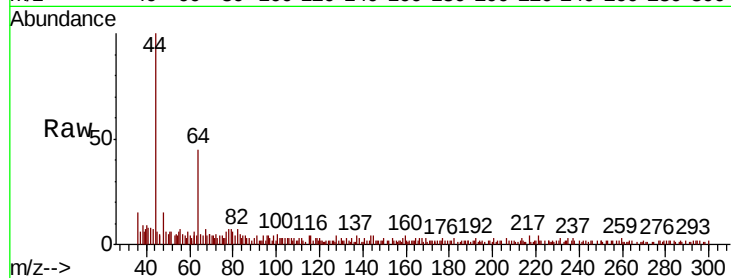
KY038PS037-191111

Tot Ion: 64 Resp: 876

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 0.362 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

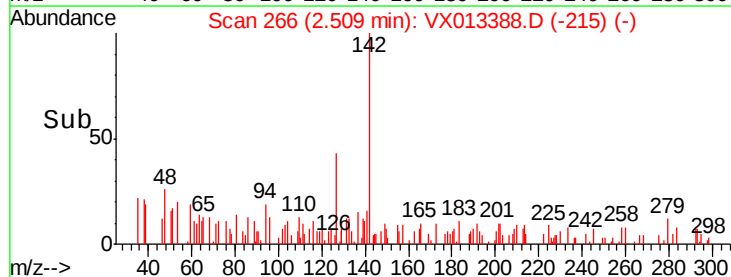
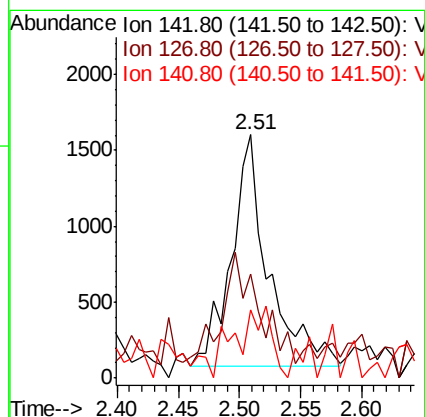
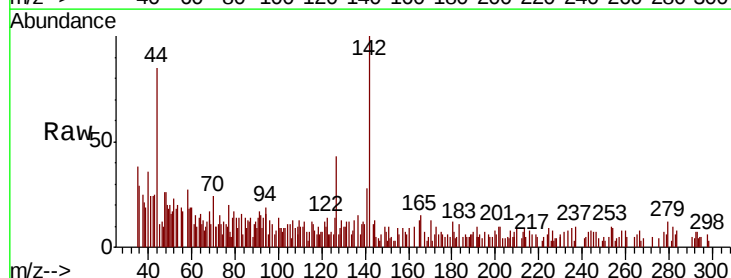
Tgt Ion: 142 Resp: 3193

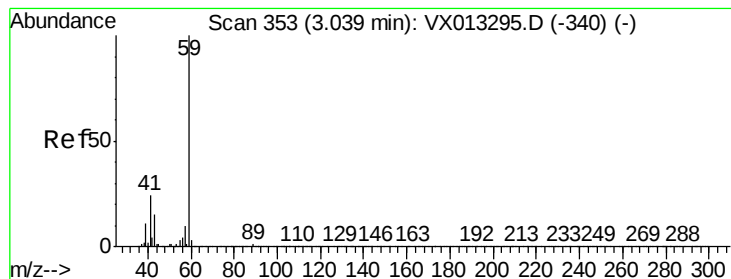
Ion Ratio Lower Upper

142 100

127 47.4 32.6 49.0

141 0.0 11.6 17.4#





#11

Tert butyl alcohol

Concen: 1.970 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

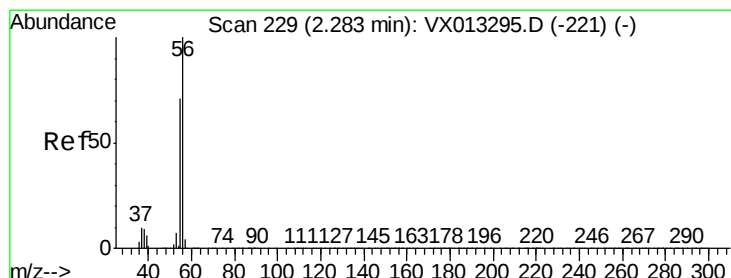
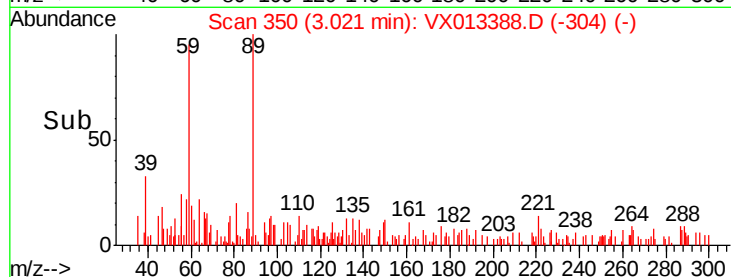
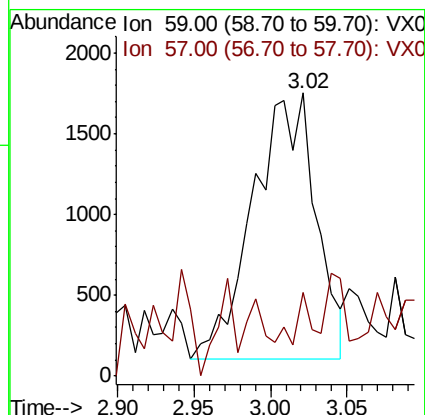
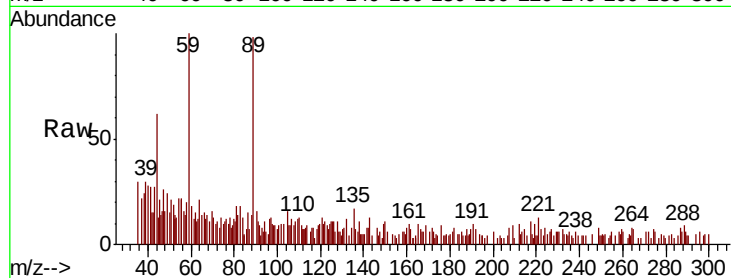
KY038PS037-191111

Tot Ion: 59 Resp: 4683

Ion Ratio Lower Upper

59 100

57 4.7 8.0 12.0#



#13

Acrolein

Concen: 0.533 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013388.D

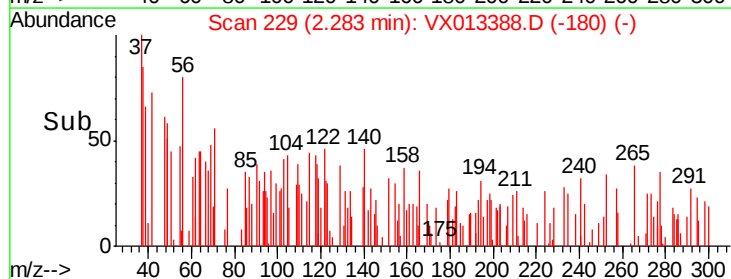
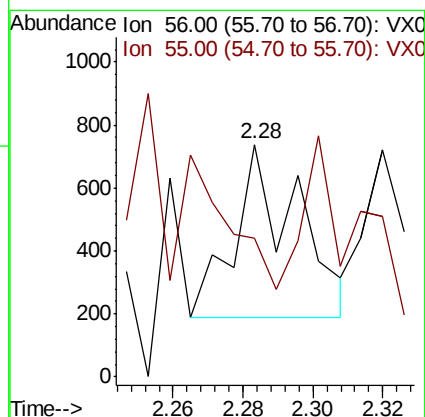
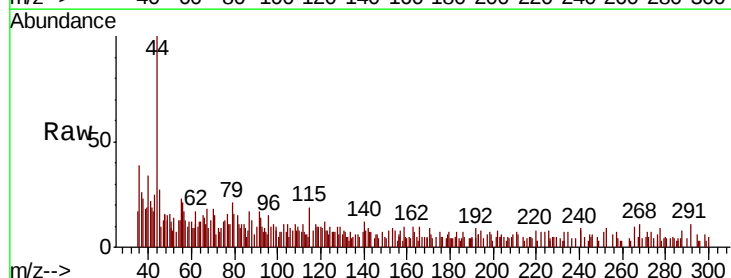
Acq: 12 Nov 2019 16:28

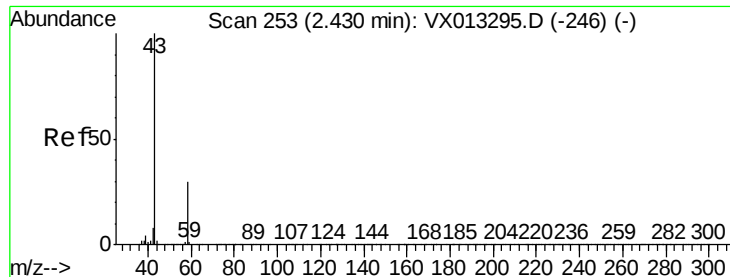
Tgt Ion: 56 Resp: 687

Ion Ratio Lower Upper

56 100

55 85.6 57.4 86.0





#16

Acetone

Concen: 7.075 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

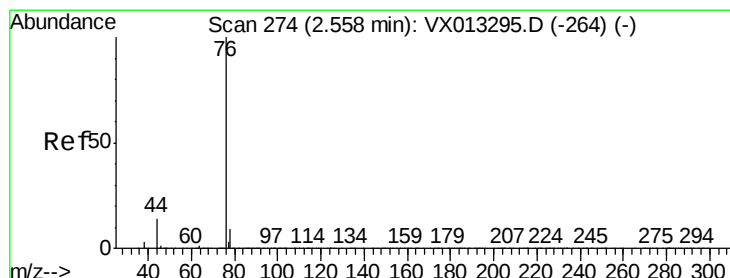
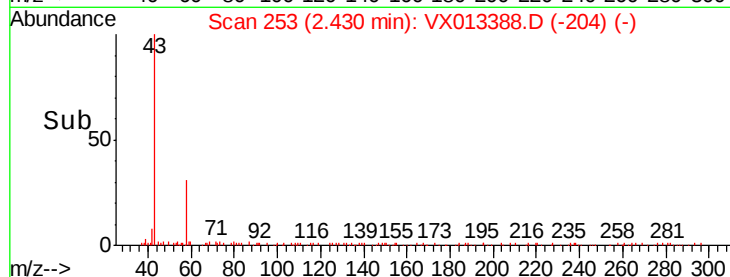
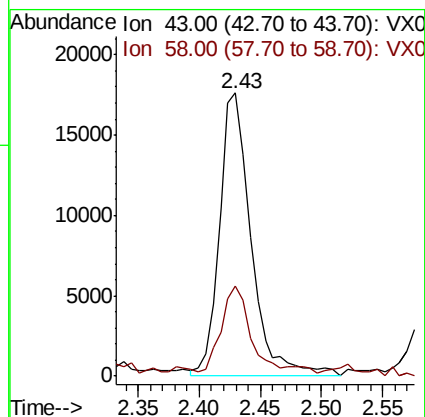
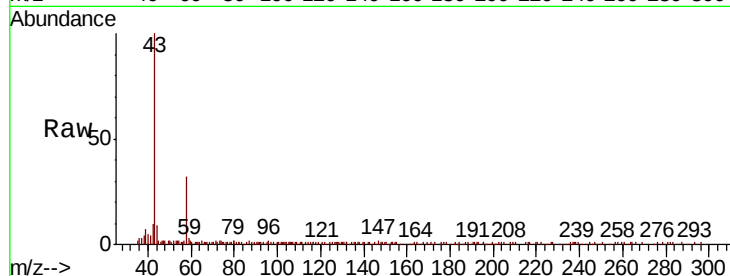
KY038PS037-191111

Tot Ion: 43 Resp: 31832

Ion Ratio Lower Upper

43 100

58 29.6 24.3 36.5



#17

Carbon Disulfide

Concen: 0.311 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013388.D

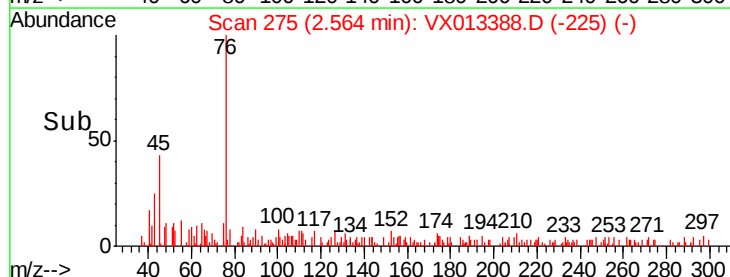
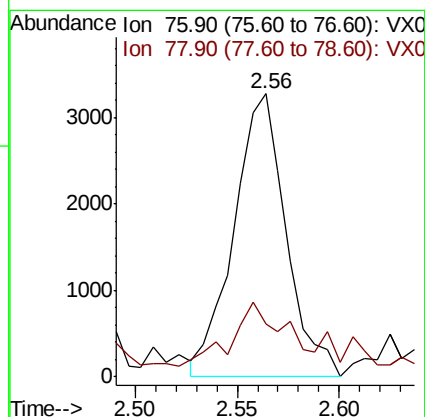
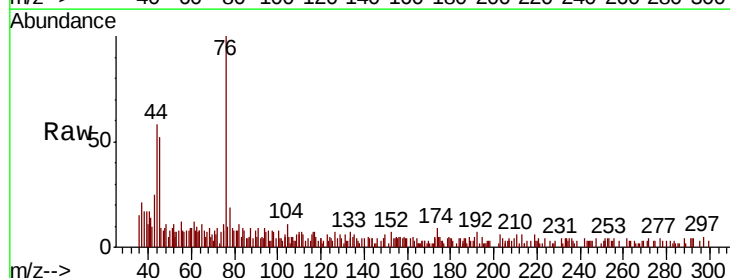
Acq: 12 Nov 2019 16:28

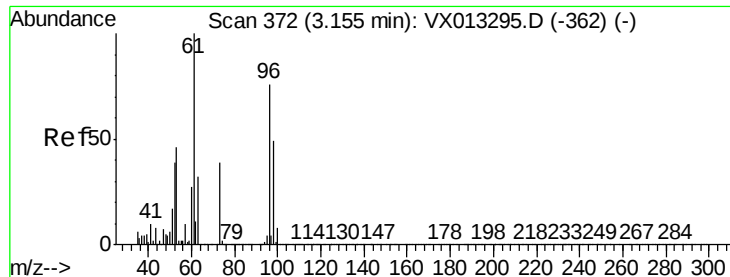
Tgt Ion: 76 Resp: 5819

Ion Ratio Lower Upper

76 100

78 14.4 7.0 10.6#





#21

trans-1,2-Dichloroethene

Concen: 0.238 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-191111

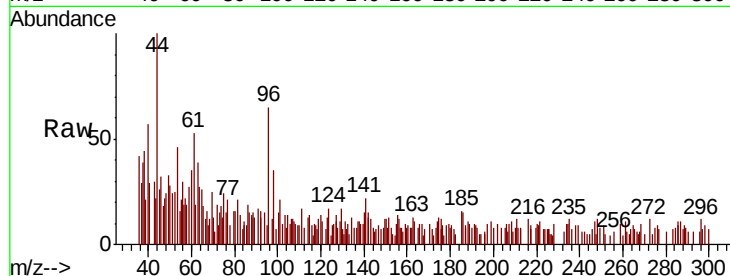
Tot Ion: 96 Resp: 1812

Ion Ratio Lower Upper

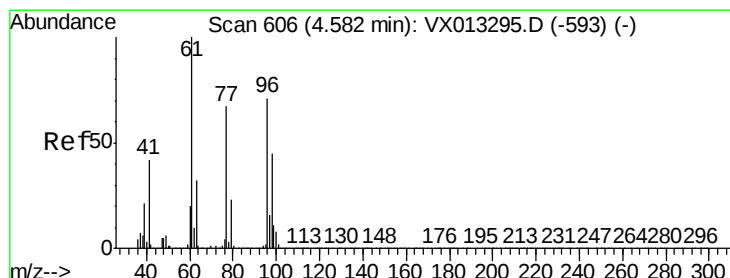
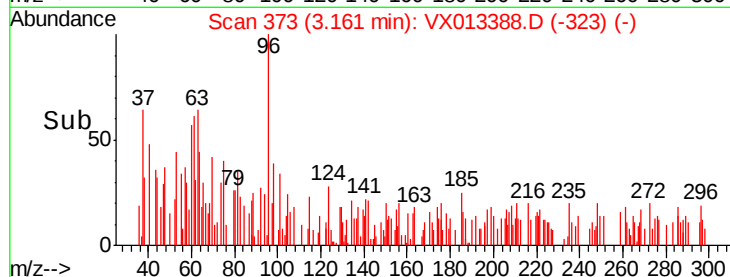
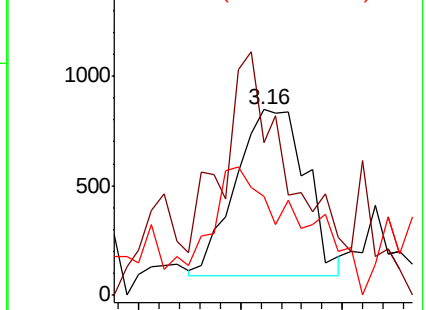
96 100

61 68.9 105.8 158.6#

98 34.5 51.8 77.6#



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



#27

cis-1,2-Dichloroethene

Concen: 2.143 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

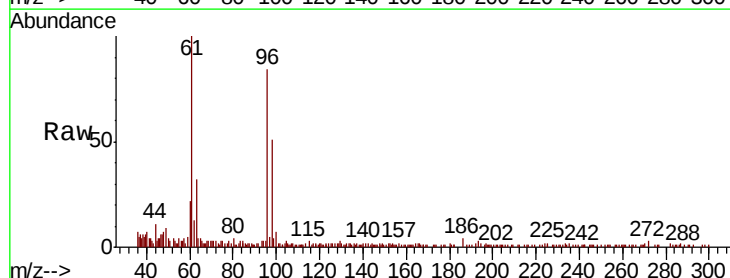
Tgt Ion: 96 Resp: 18260

Ion Ratio Lower Upper

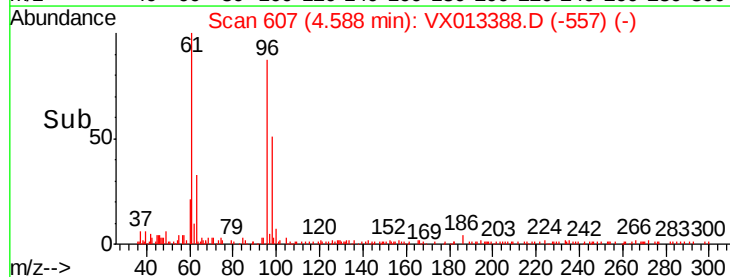
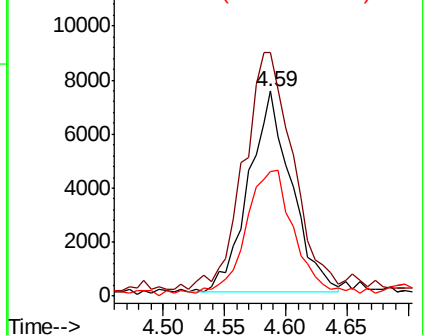
96 100

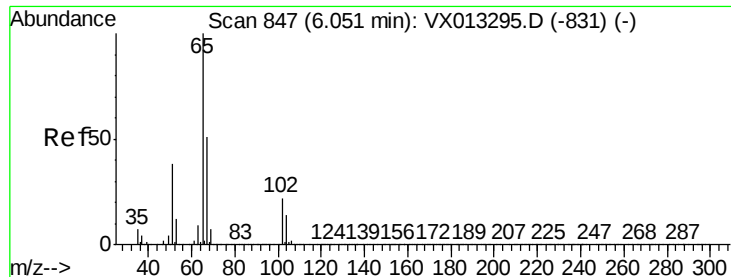
61 134.4 0.0 288.0

98 73.1 0.0 129.6



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





#33

1,2-Dichloroethane-d4

Concen: 47.964 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

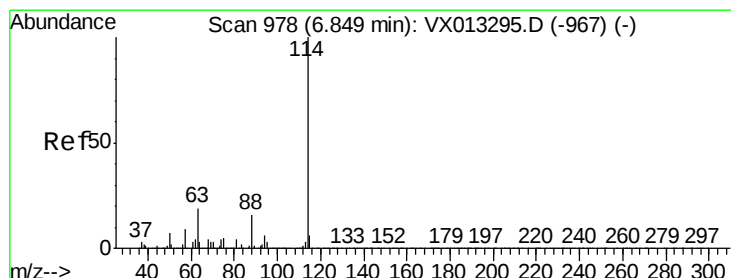
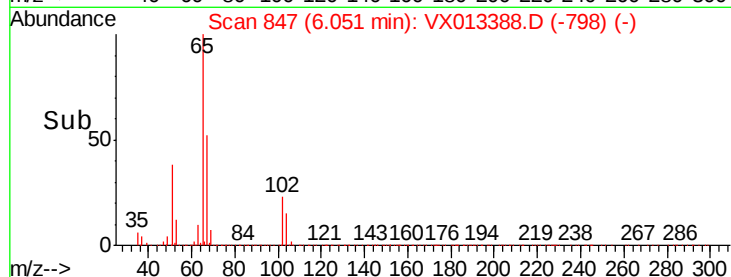
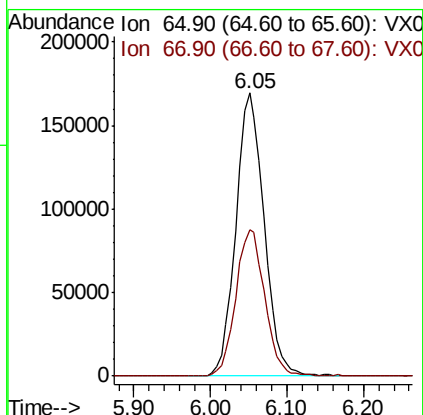
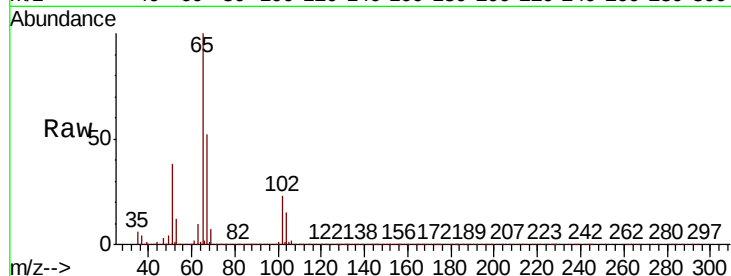
KY038PS037-191111

Tot Ion: 65 Resp: 432668

Ion Ratio Lower Upper

65 100

67 53.3 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

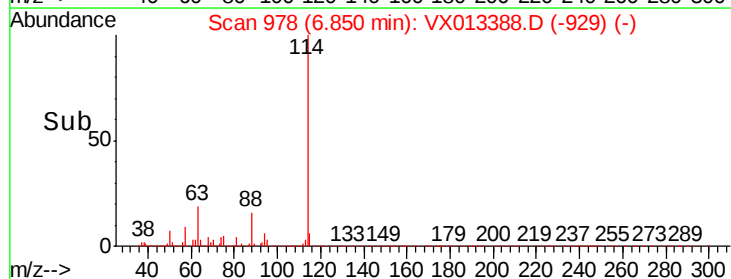
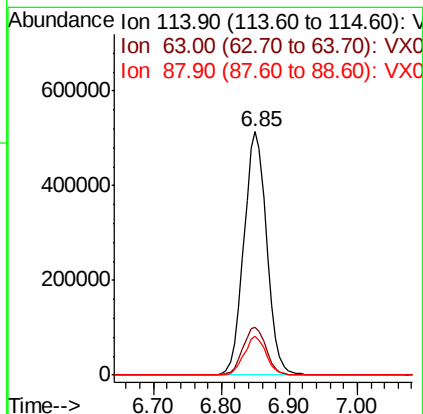
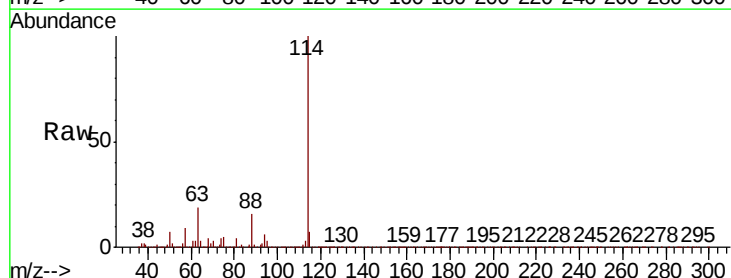
Tgt Ion: 114 Resp: 1194800

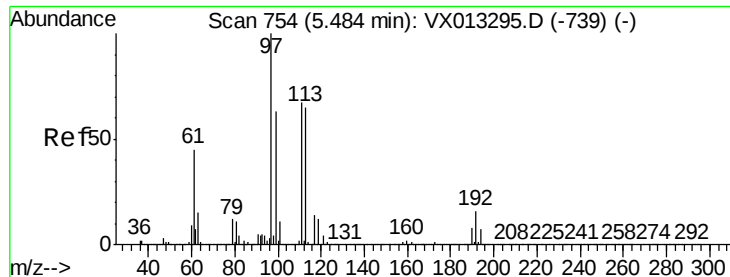
Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.4

88 16.0 0.0 32.2

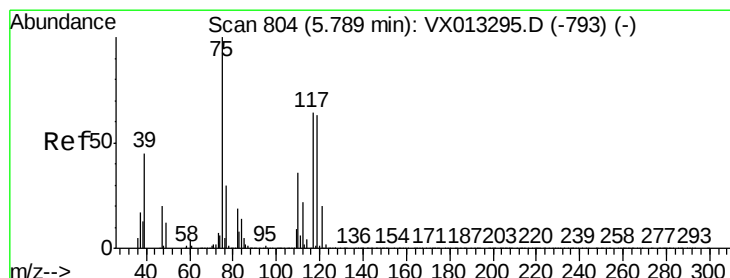
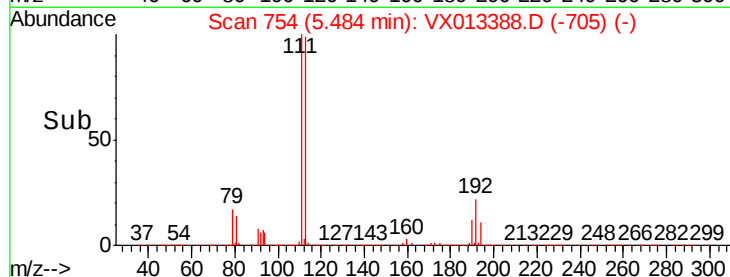
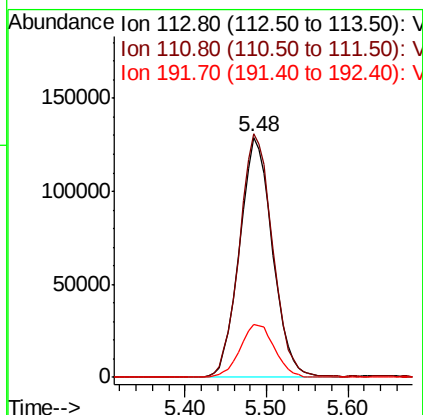
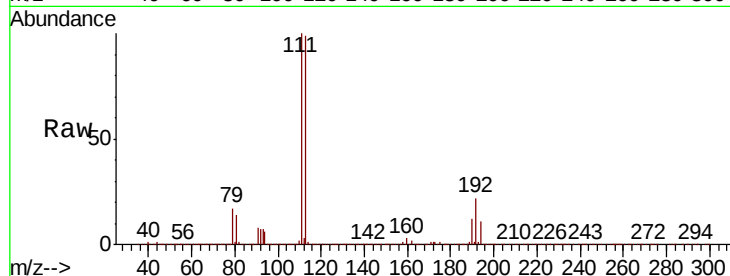




#35
Dibromofluoromethane
Concen: 48.325 ug/l
RT: 5.48 min Scan# 754
Delta R.T. 0.00 min
Lab File: VX013388.D
Acq: 12 Nov 2019 16:28

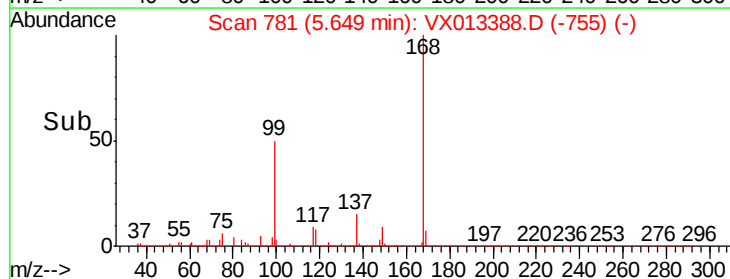
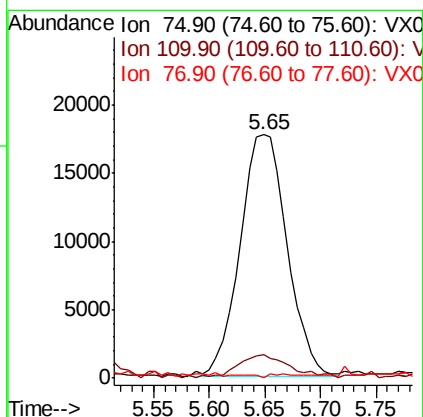
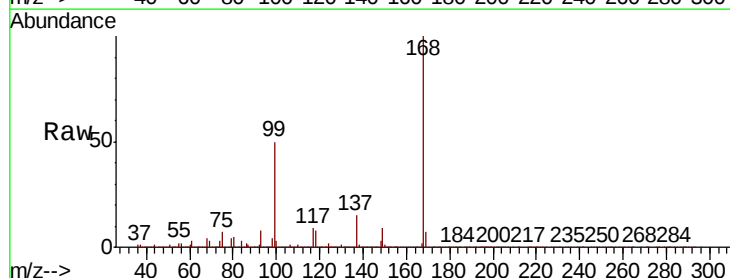
Instrument :
MSVOA_X
ClientSampleId :
KY038PS037-191111

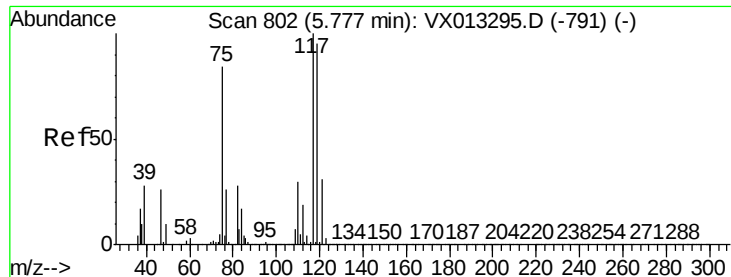
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.9	122.9
192	23.0	19.1	28.7



#36
1,1-Dichloropropene
Concen: 5.104 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX013388.D
Acq: 12 Nov 2019 16:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.1	54.1#
77	0.9	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.648 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-191111

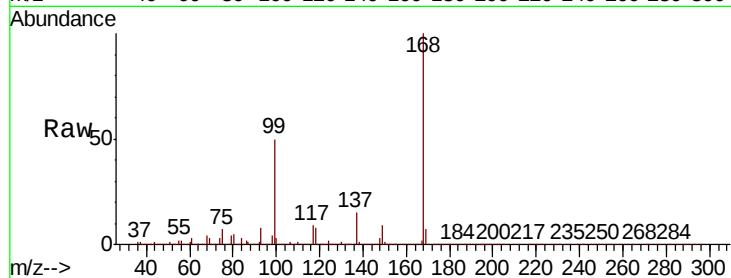
Tot Ion:117 Resp: 66630

Ion Ratio Lower Upper

117 100

119 4.0 76.1 114.1#

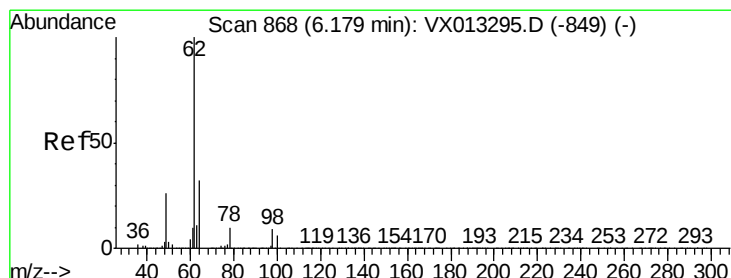
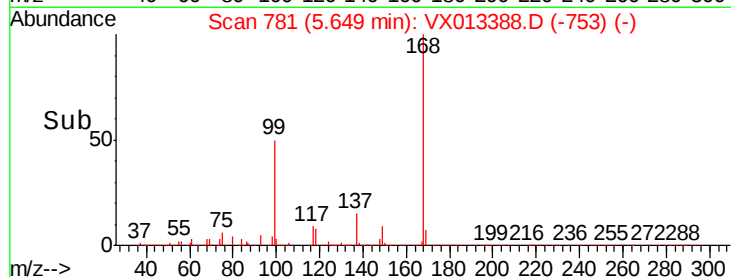
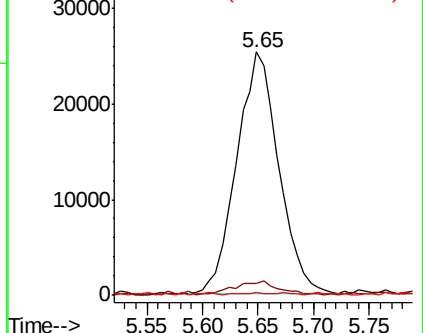
121 0.8 24.6 37.0#



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



#42

1,2-Dichloroethane

Concen: 0.240 ug/l

RT: 6.20 min Scan# 872

Delta R.T. 0.02 min

Lab File: VX013388.D

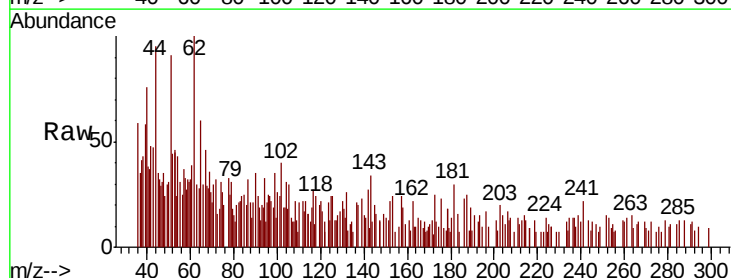
Acq: 12 Nov 2019 16:28

Tgt Ion: 62 Resp: 2762

Ion Ratio Lower Upper

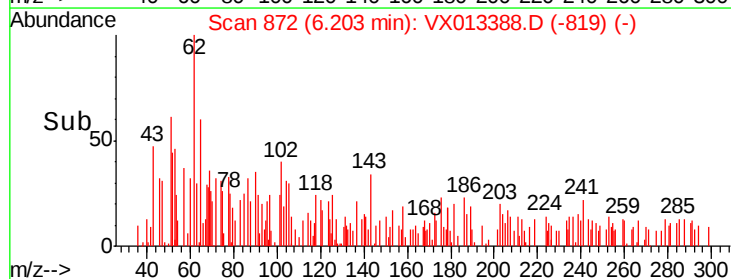
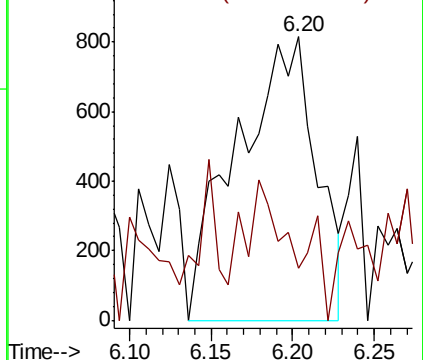
62 100

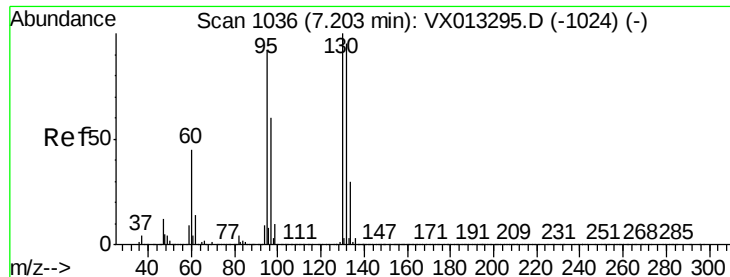
98 0.0 0.0 19.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 0.518 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

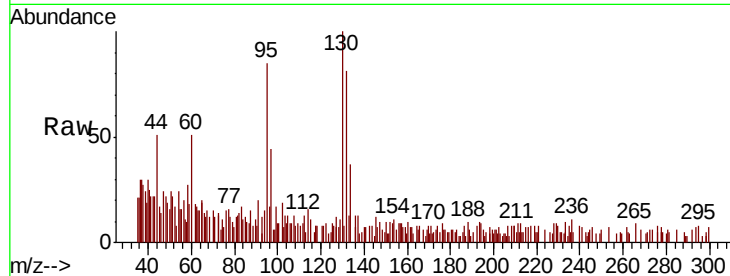
KY038PS037-191111

Tot Ion:130 Resp: 4553

Ion Ratio Lower Upper

130 100

95 72.2 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

2000 Ion 94.90 (94.60 to 95.60): VX0

1500

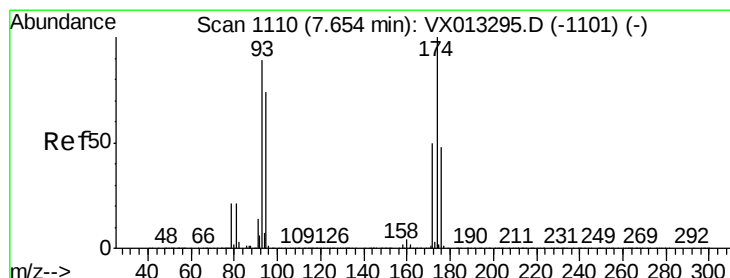
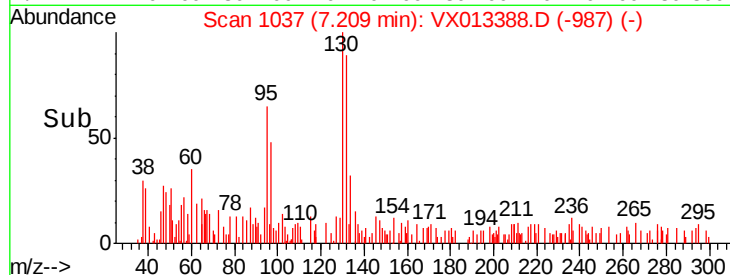
1000

500

0

7.10 7.15 7.20 7.25 7.30

Time-->



#46

Dibromomethane

Concen: 0.227 ug/l

RT: 7.64 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

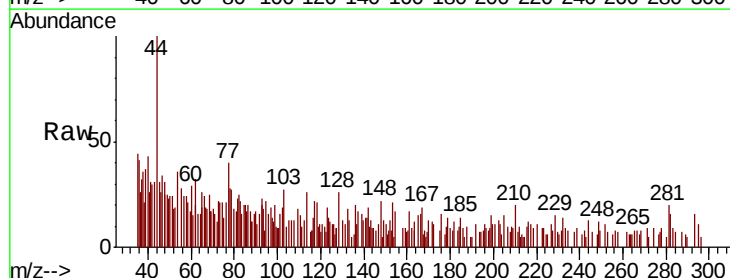
Tgt Ion: 93 Resp: 1263

Ion Ratio Lower Upper

93 100

95 26.0 65.8 98.6#

174 32.6 90.4 135.6#



Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V

600

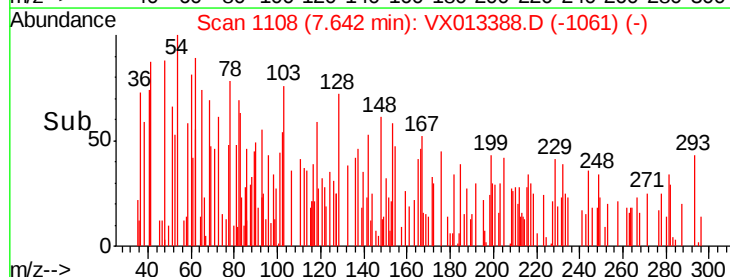
400

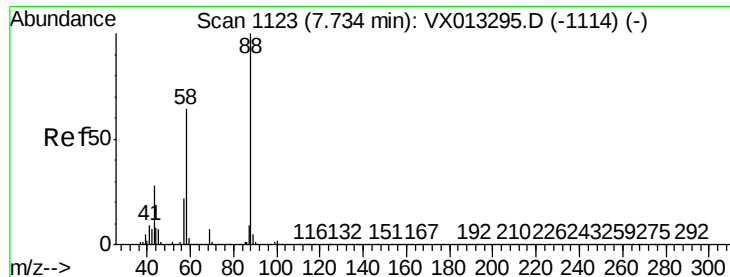
200

0

7.60 7.65 7.70

Time-->





#49

1,4-Dioxane

Concen: 2.586 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-191111

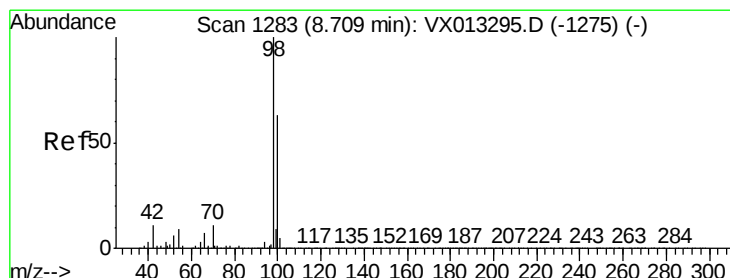
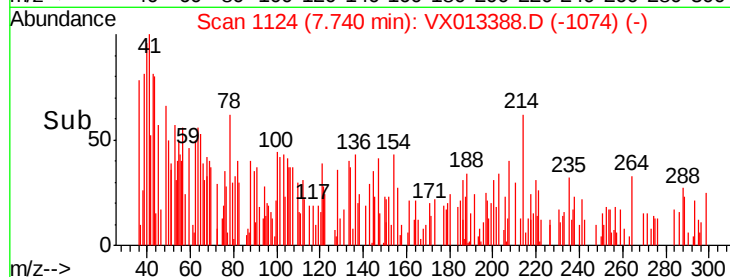
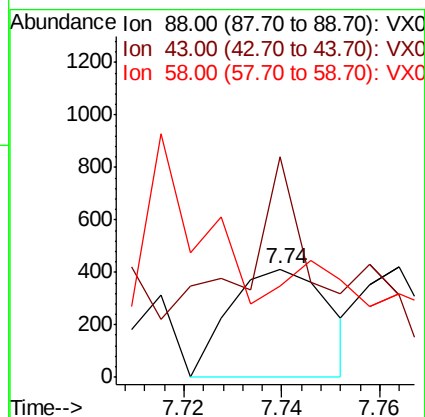
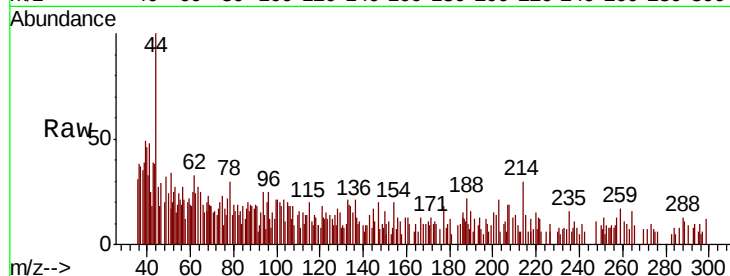
Tot Ion: 88 Resp: 583

Ion Ratio Lower Upper

88 100

43 186.4 26.6 39.8#

58 0.0 55.0 82.6#



#50

Toluene-d8

Concen: 50.339 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013388.D

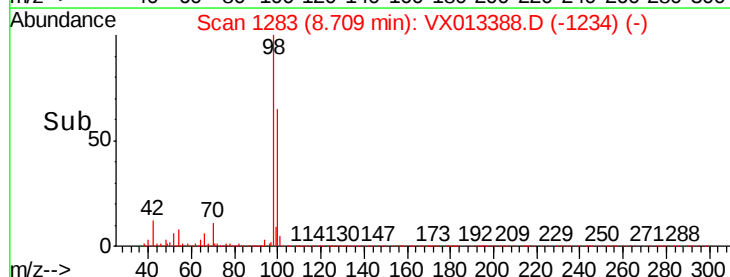
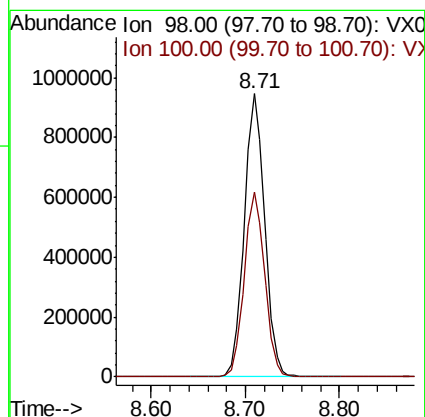
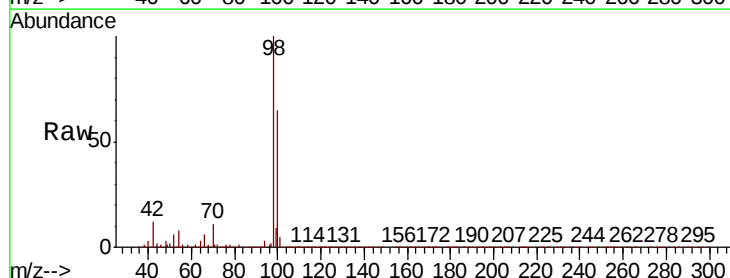
Acq: 12 Nov 2019 16:28

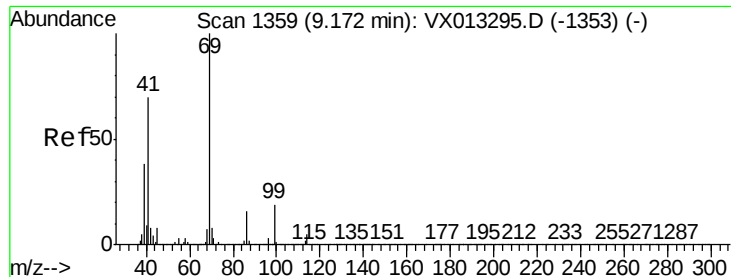
Tgt Ion: 98 Resp: 1422147

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.2

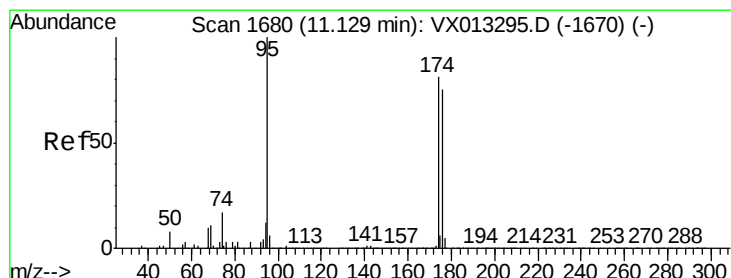
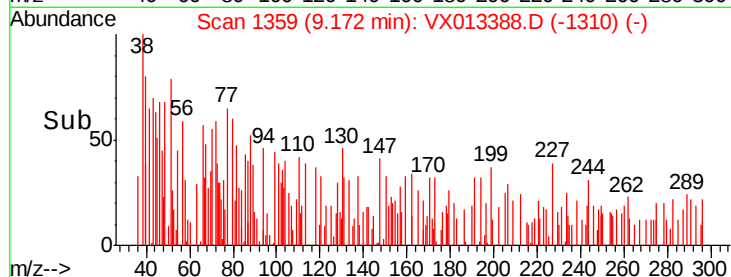
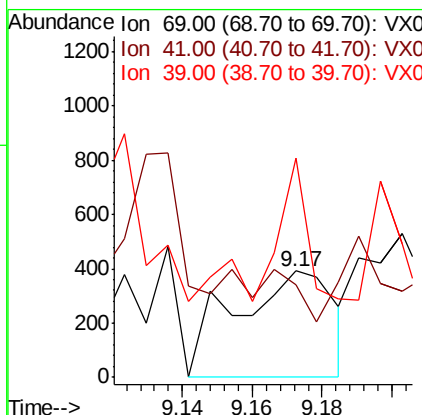
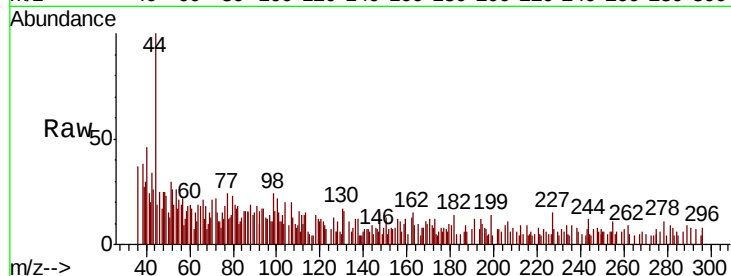




#56
Ethyl methacrylate
Concen: 1.616 ug/l
RT: 9.17 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VX013388.D
Acq: 12 Nov 2019 16:28

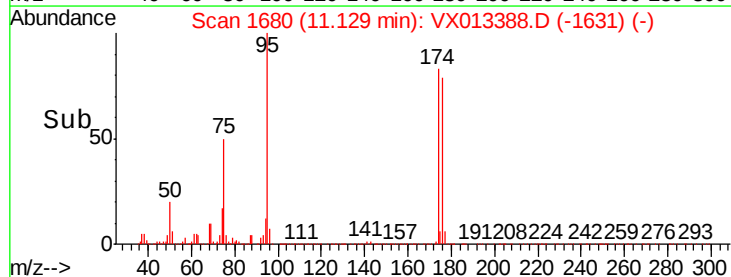
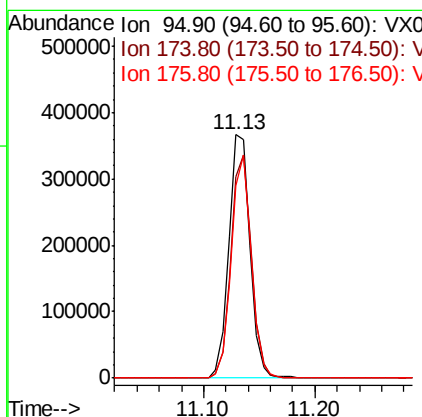
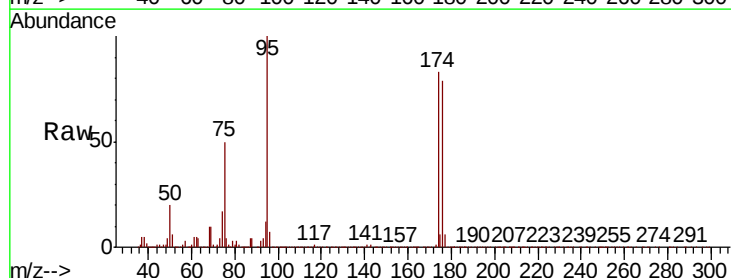
Instrument :
MSVOA_X
ClientSampleId :
KY038PS037-191111

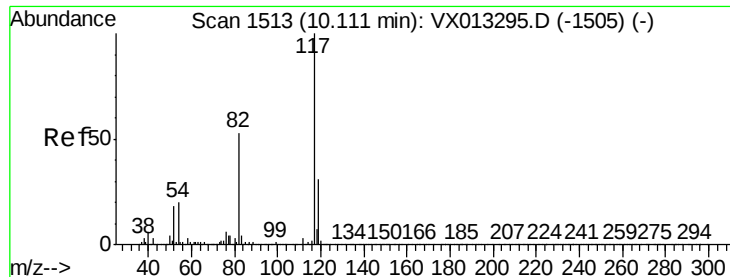
Tot Ion: 69 Resp: 768
Ion Ratio Lower Upper
69 100
41 0.0 56.2 84.2#
39 36.8 31.1 46.7



#62
4-Bromofluorobenzene
Concen: 47.272 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX013388.D
Acq: 12 Nov 2019 16:28

Tgt Ion: 95 Resp: 481992
Ion Ratio Lower Upper
95 100
174 89.0 0.0 179.8
176 86.6 0.0 173.0

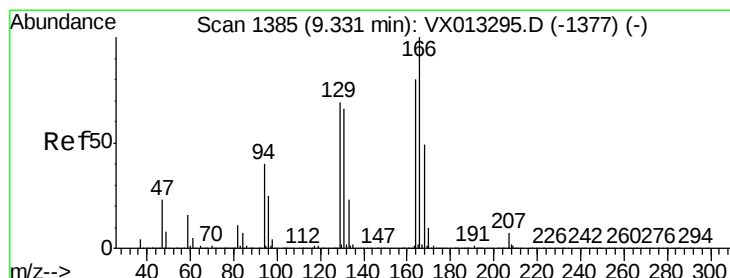
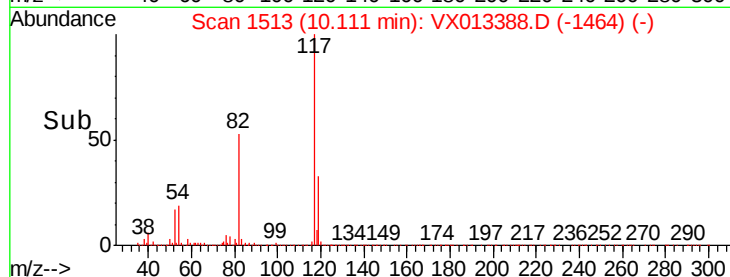
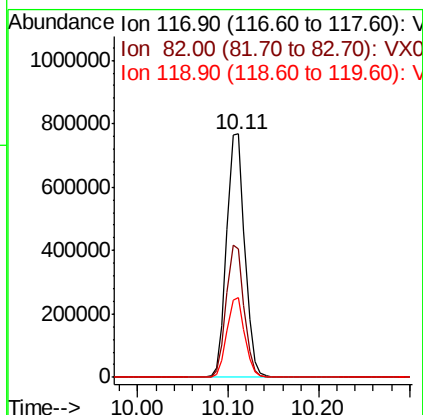
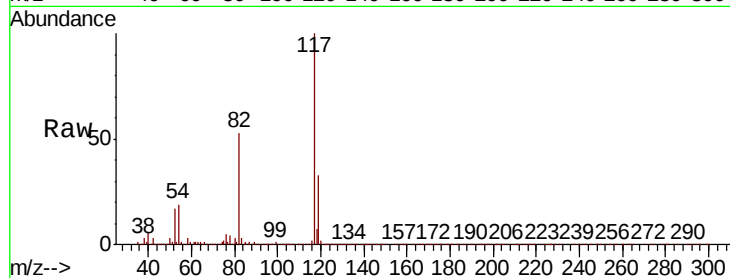




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013388.D
Acq: 12 Nov 2019 16:28

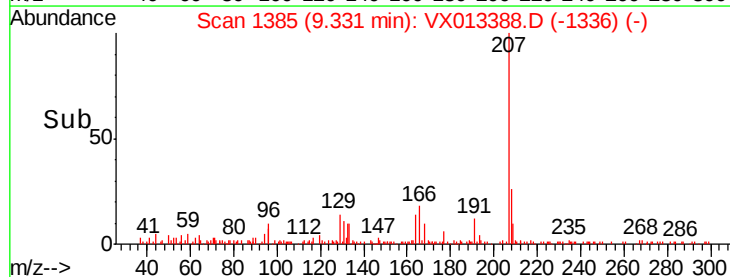
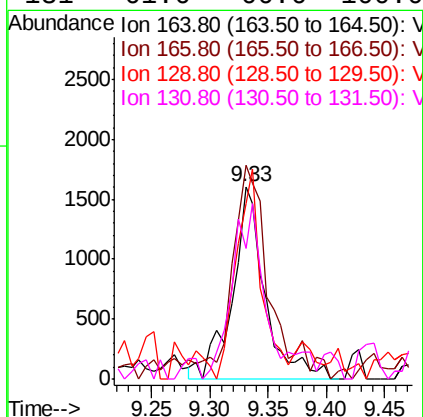
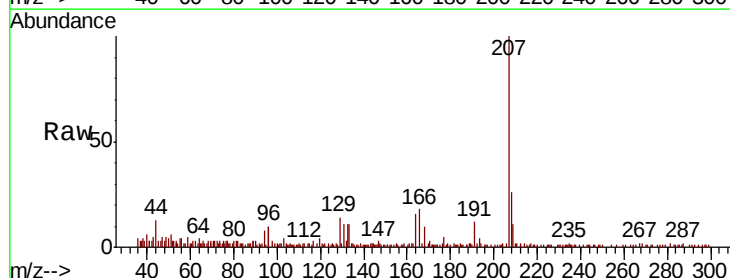
Instrument :
MSVOA_X
ClientSampleId :
KY038PS037-191111

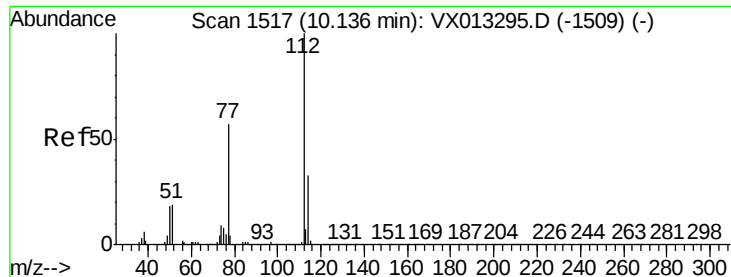
Tot Ion:117 Resp: 1068517
Ion Ratio Lower Upper
117 100
82 52.6 42.6 64.0
119 32.6 24.8 37.2



#64
Tetrachloroethene
Concen: 0.410 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013388.D
Acq: 12 Nov 2019 16:28

Tgt Ion:164 Resp: 3133
Ion Ratio Lower Upper
164 100
166 113.8 100.4 150.6
129 89.2 69.4 104.2
131 61.6 66.6 100.0#





#65

Chlorobenzene

Concen: 0.260 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. 0.00 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

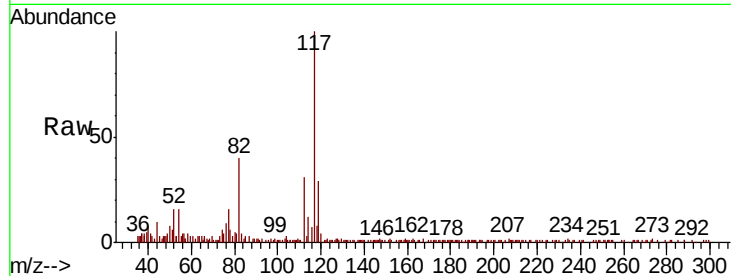
KY038PS037-191111

Tot Ion:112 Resp: 5622

Ion Ratio Lower Upper

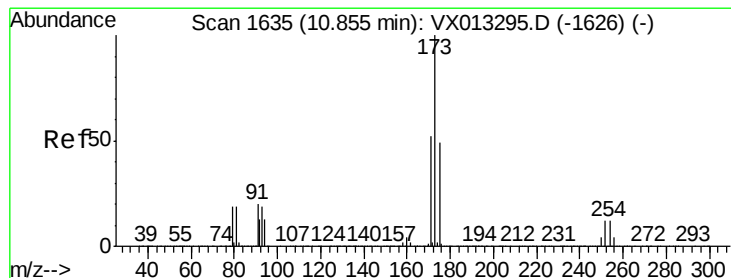
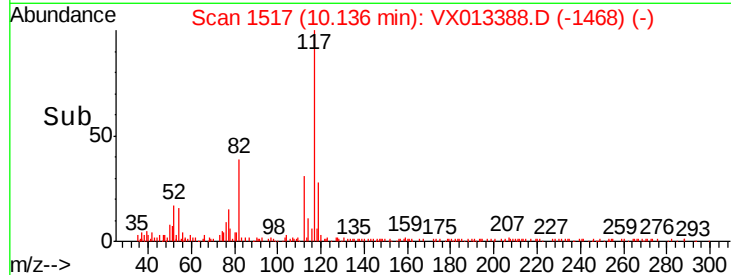
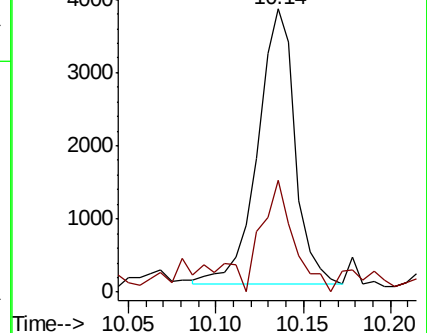
112 100

114 34.5 26.4 39.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#71

Bromoform

Concen: 3.293 ug/l

RT: 10.84 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

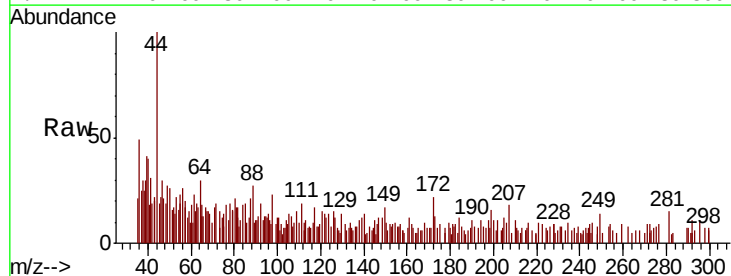
Tgt Ion:173 Resp: 711

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

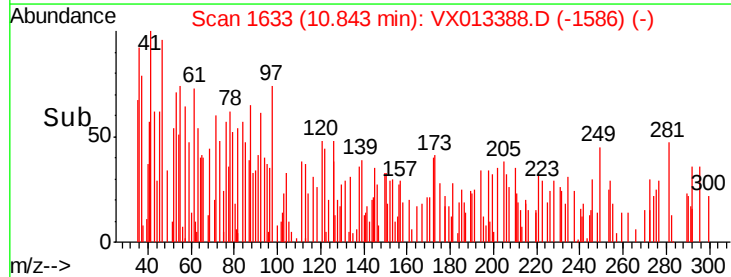
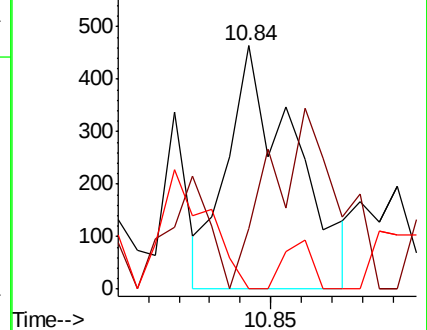
254 8.6 0.2 0.2#

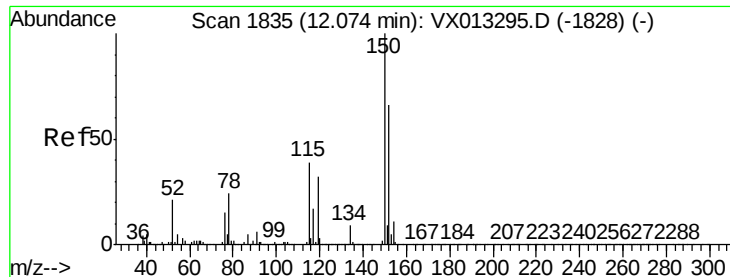


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-191111

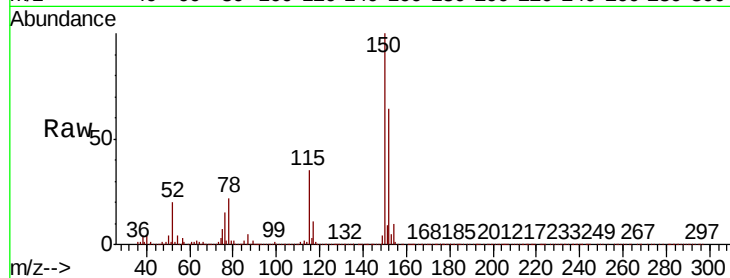
Tot Ion:152 Resp: 485914

Ion Ratio Lower Upper

152 100

115 55.0 39.5 118.3

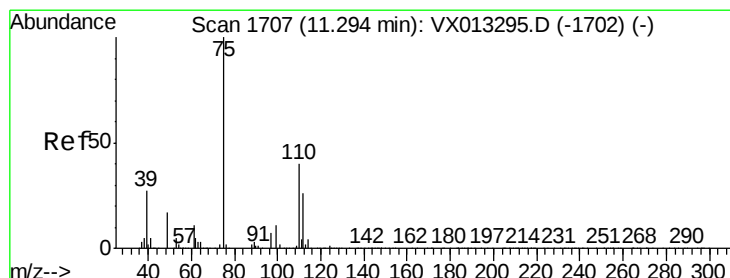
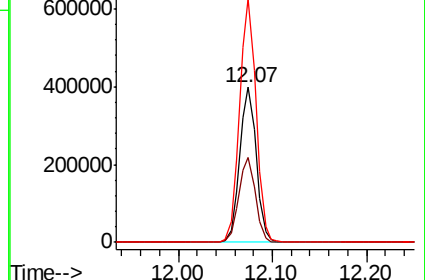
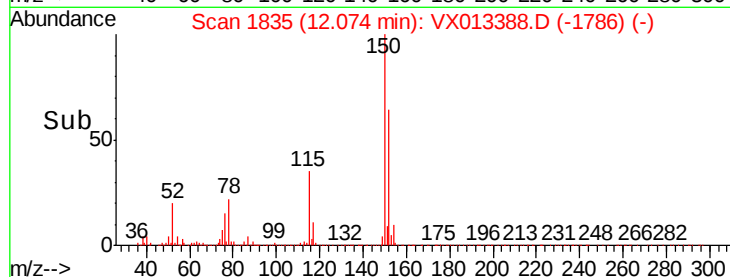
150 156.8 0.0 344.4



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: 23.864 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013388.D

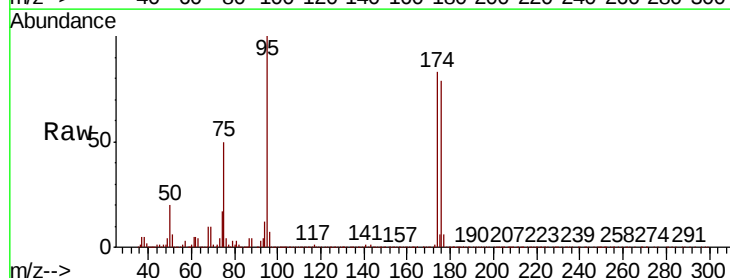
Acq: 12 Nov 2019 16:28

Tgt Ion: 75 Resp: 235525

Ion Ratio Lower Upper

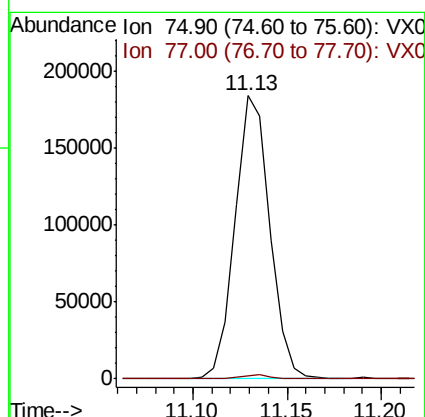
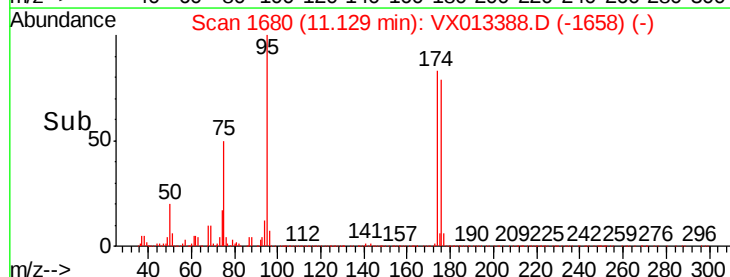
75 100

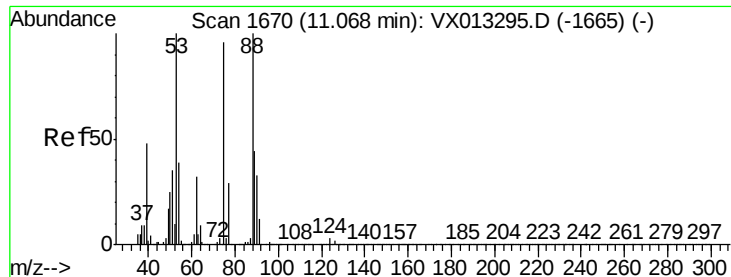
77 1.4 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.425 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-191111

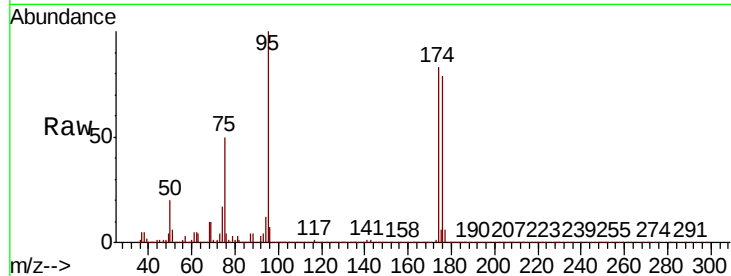
Tot Ion: 75 Resp: 235525

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

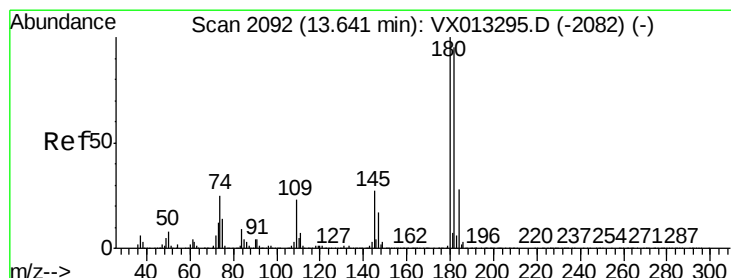
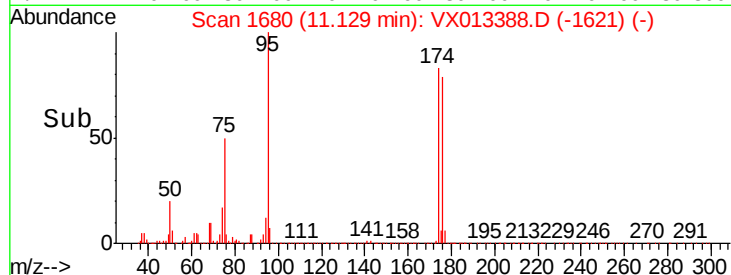
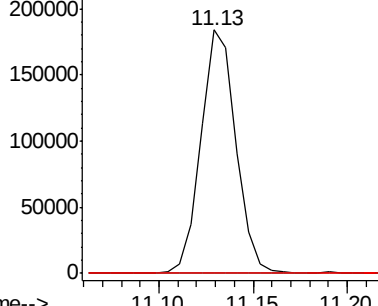
89 0.3 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.243 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

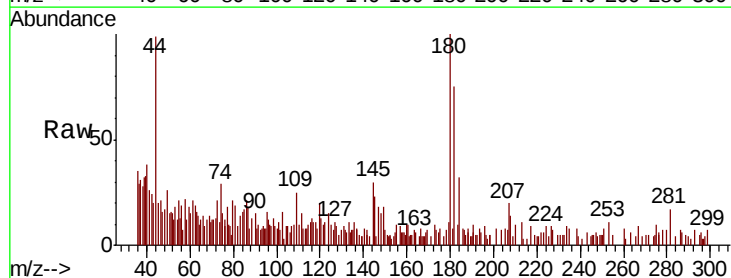
Tgt Ion: 180 Resp: 2597

Ion Ratio Lower Upper

180 100

182 105.4 48.4 145.0

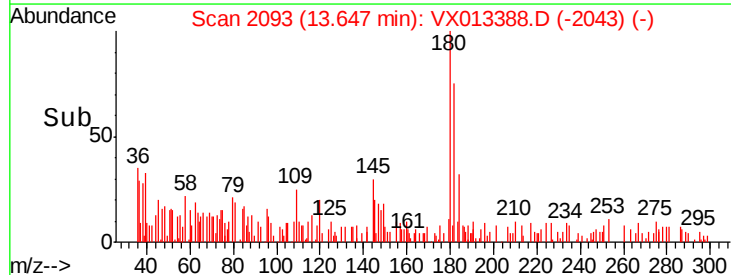
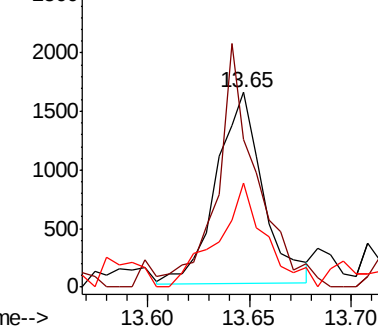
145 56.1 14.1 42.4#

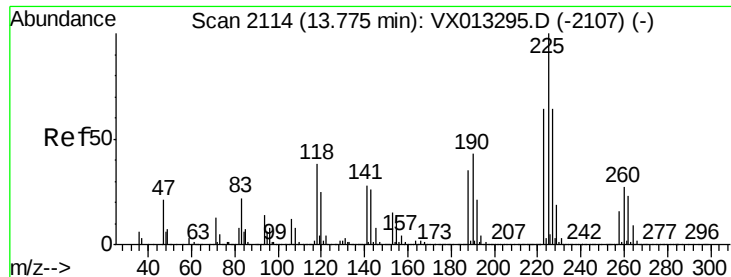


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.269 ug/l

RT: 13.77 min Scan# 2113

Delta R.T. -0.01 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-191111

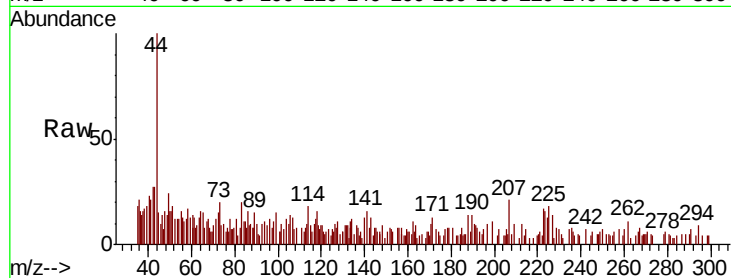
Tot Ion:225 Resp: 1403

Ion Ratio Lower Upper

225 100

223 74.3 31.9 95.7

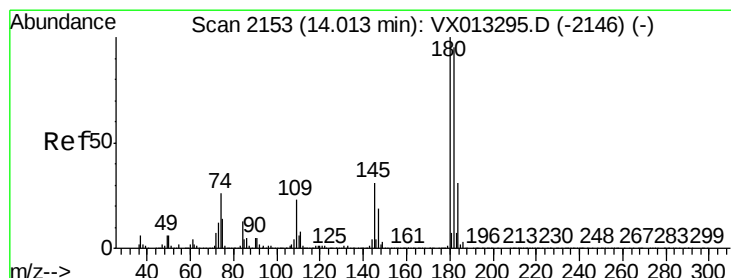
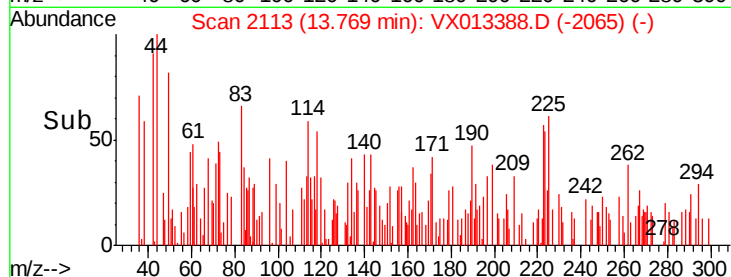
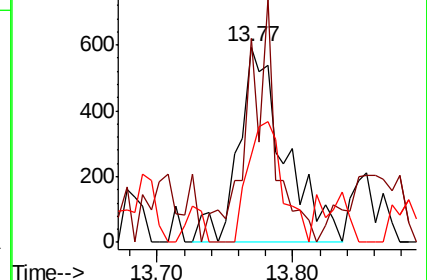
227 46.8 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.219 ug/l

RT: 14.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VX013388.D

Acq: 12 Nov 2019 16:28

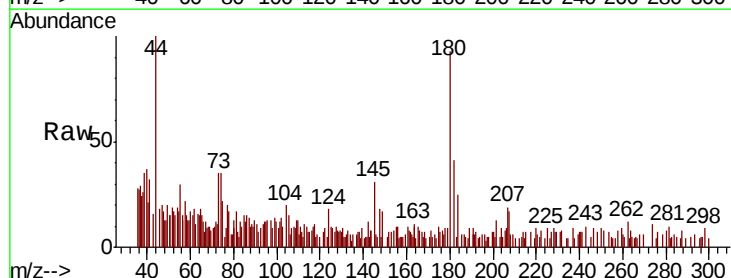
Tgt Ion:180 Resp: 2345

Ion Ratio Lower Upper

180 100

182 81.4 48.0 144.2

145 35.5 15.4 46.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

