

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111219\
 Data File : VX013386.D
 Acq On : 12 Nov 2019 15:42
 Operator : JC/SP
 Sample : K5803-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-191111

Quant Time: Nov 13 02:40:56 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	756712	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1184317	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1054105	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	475319	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	434439	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
35) Dibromofluoromethane	5.49	113	359775	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	8.71	98	1413093	50.46	ug/l	0.00
Spiked Amount			Recovery	=	100.92%	
62) 4-Bromofluorobenzene	11.13	95	468556	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	

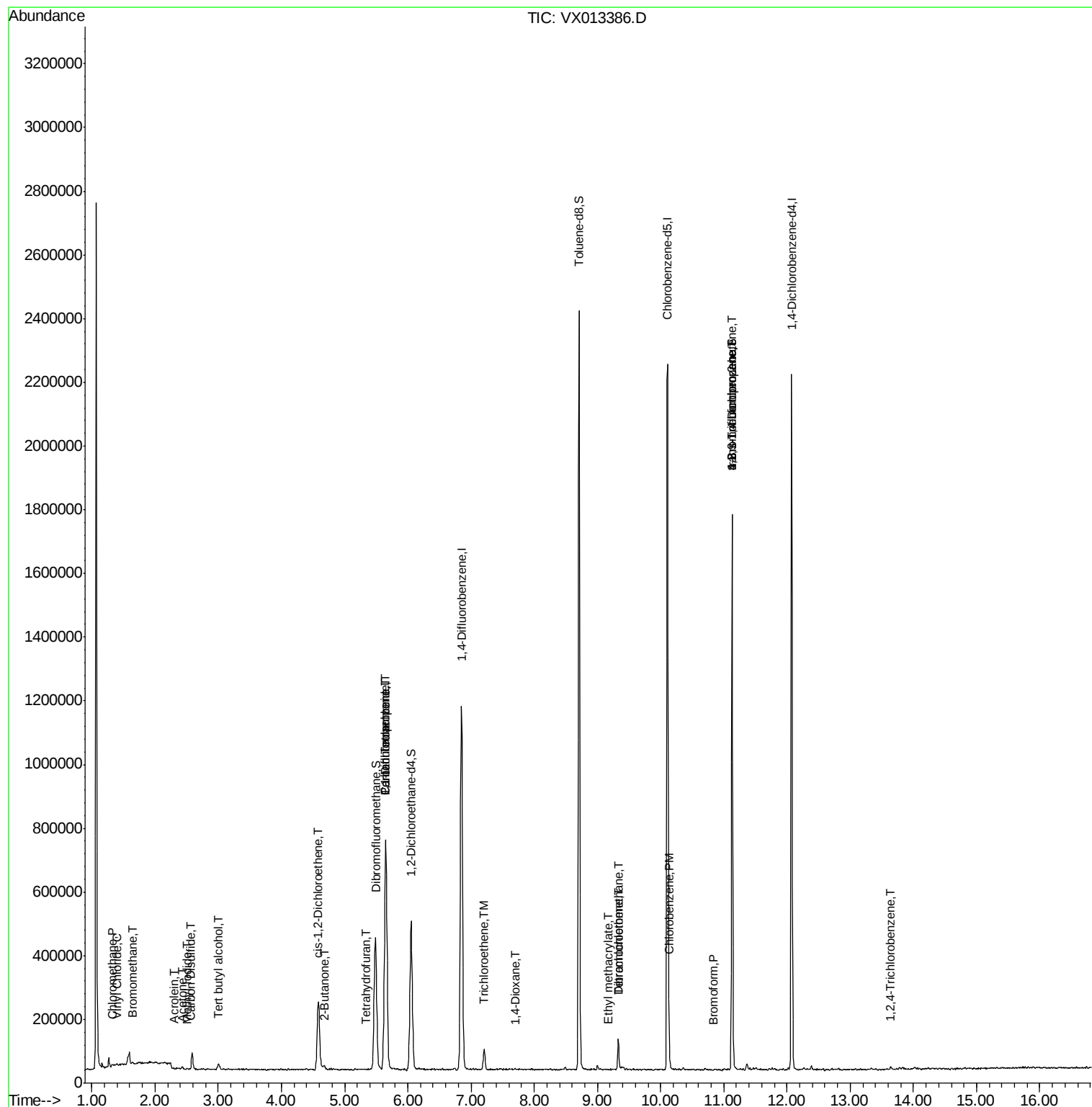
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	3765	0.398	ug/l #	81
4) Vinyl Chloride	1.40	62	4183	0.389	ug/l #	81
5) Bromomethane	1.64	94	3104	0.414	ug/l #	48
6) Chloroethane	1.69	64	1410	Below Cal	#	43
10) Methyl Iodide	2.51	142	2558	0.291	ug/l #	86
11) Tert butyl alcohol	3.00	59	13913	5.888	ug/l #	82
13) Acrolein	2.30	56	357	0.279	ug/l	85
16) Acetone	2.43	43	12555	2.808	ug/l	99
17) Carbon Disulfide	2.56	76	5538	0.298	ug/l #	76
25) 2-Butanone	4.69	43	3802	0.580	ug/l #	65
27) cis-1,2-Dichloroethene	4.58	96	138447	16.353	ug/l	91
29) Tetrahydrofuran	5.33	42	1164	0.288	ug/l	95
36) 1,1-Dichloropropene	5.65	75	50665	4.987	ug/l #	51
38) Carbon Tetrachloride	5.65	117	65450	6.588	ug/l #	17
44) Trichloroethene	7.21	130	27057	3.106	ug/l	93
49) 1,4-Dioxane	7.71	88	146	0.653	ug/l #	5
56) Ethyl methacrylate	9.18	69	903	1.626	ug/l #	48
60) Dibromochloromethane	9.33	129	14829	1.783	ug/l #	13
64) Tetrachloroethene	9.33	164	17482	2.317	ug/l	88
65) Chlorobenzene	10.14	112	39287	1.841	ug/l	98
71) Bromoform	10.84	173	341	3.246	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	233674	24.204	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	233674	62.301	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.65	180	2732	0.262	ug/l #	72

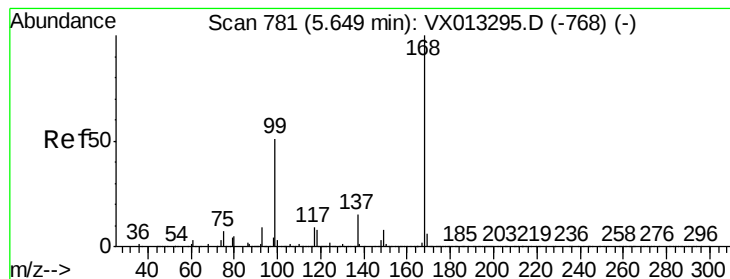
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 02 07:06:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

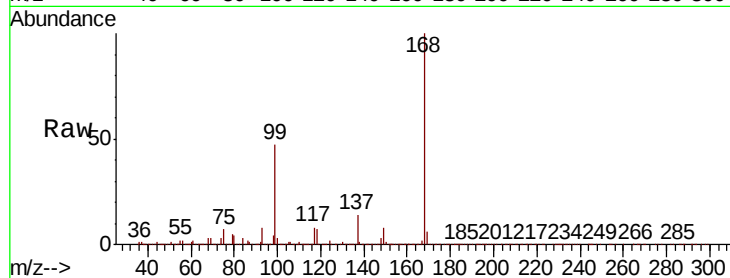
KY038PS027-191111

Tot Ion:168 Resp: 756712

Ion Ratio Lower Upper

168 100

99 47.5 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

300000

250000

200000

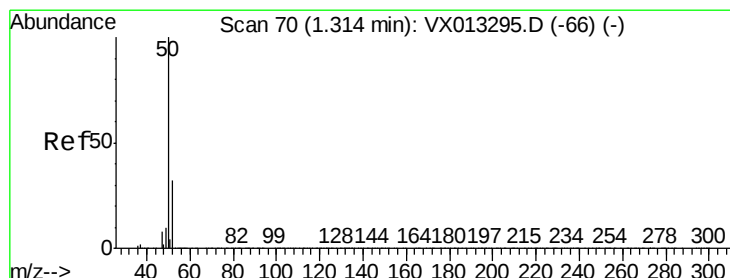
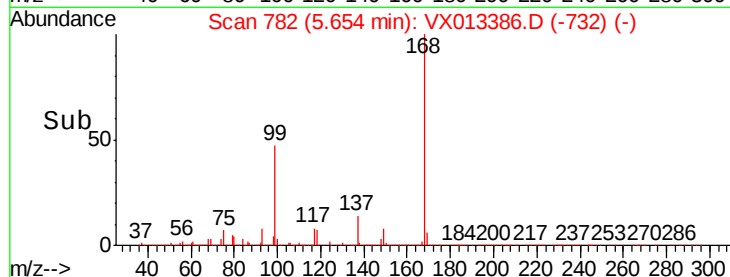
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.398 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX013386.D

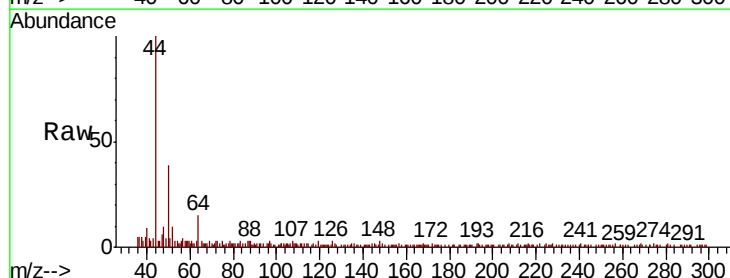
Acq: 12 Nov 2019 15:42

Tgt Ion: 50 Resp: 3765

Ion Ratio Lower Upper

50 100

52 21.2 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

4000

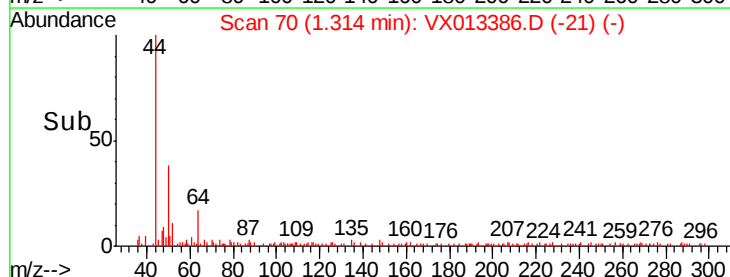
3000

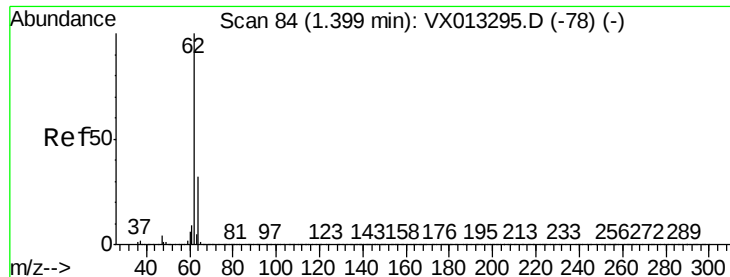
2000

1000

0

Time-->





#4

Vinyl Chloride

Concen: 0.389 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

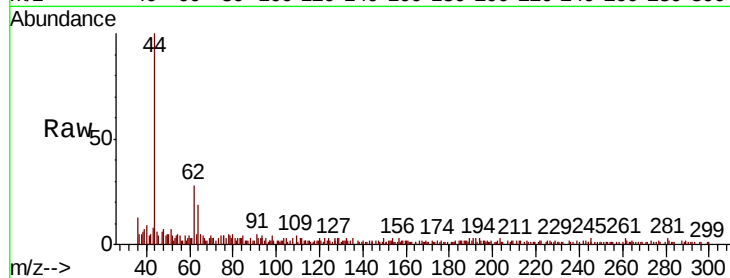
KY038PS027-191111

Tot Ion: 62 Resp: 4183

Ion Ratio Lower Upper

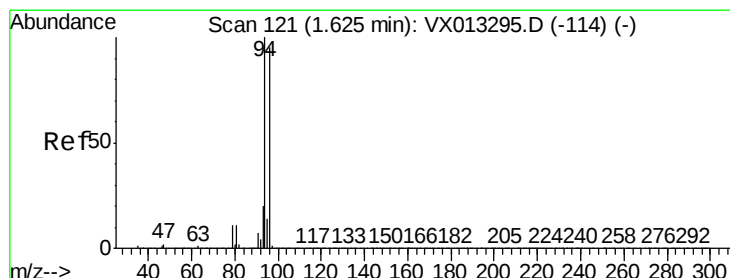
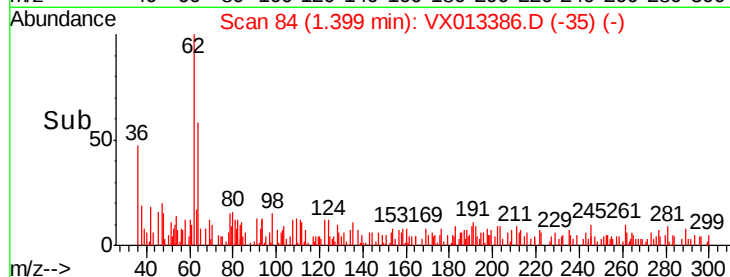
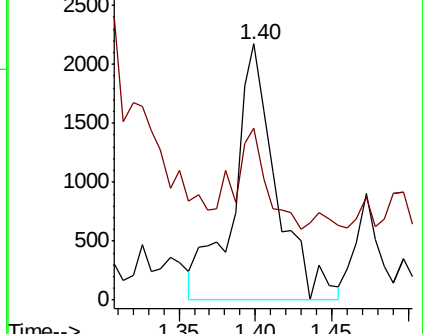
62 100

64 42.7 25.6 38.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.414 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX013386.D

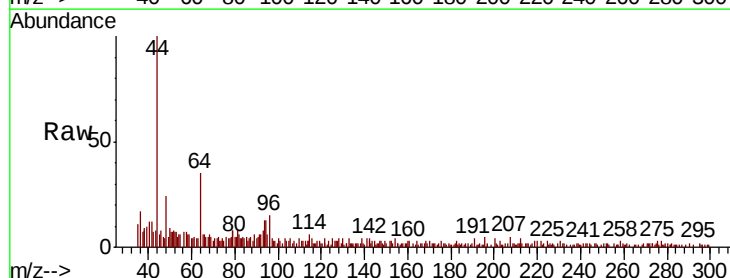
Acq: 12 Nov 2019 15:42

Tgt Ion: 94 Resp: 3104

Ion Ratio Lower Upper

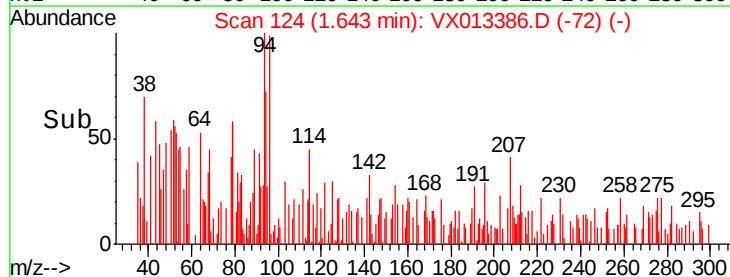
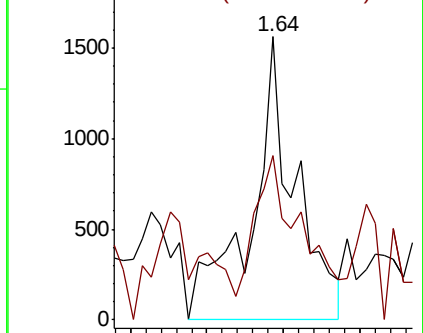
94 100

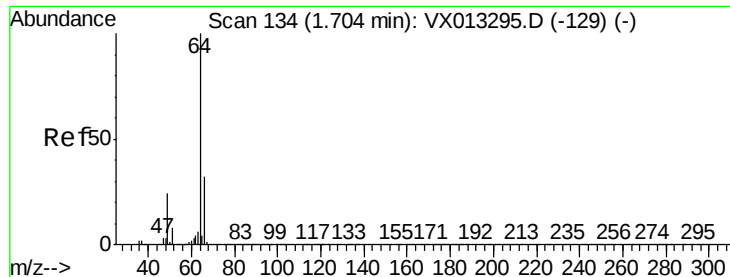
96 43.9 75.8 113.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 132

Delta R.T. -0.01 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

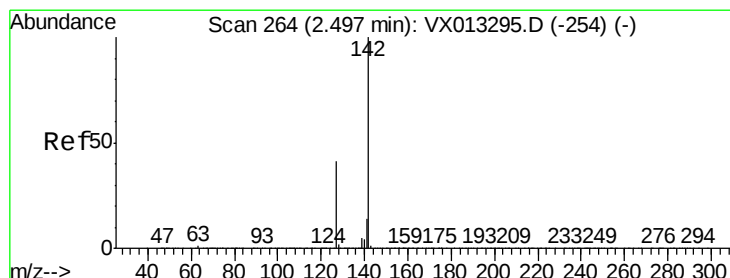
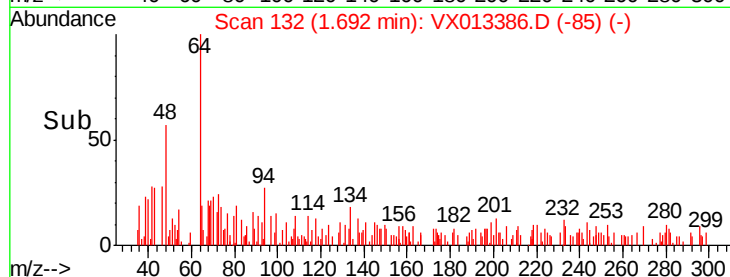
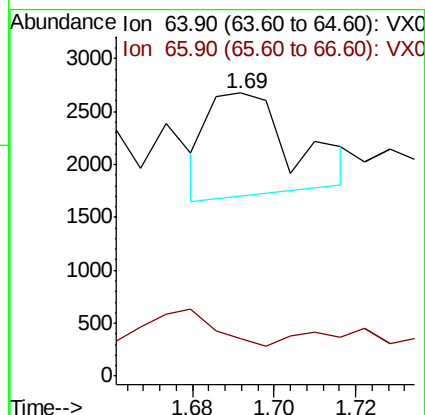
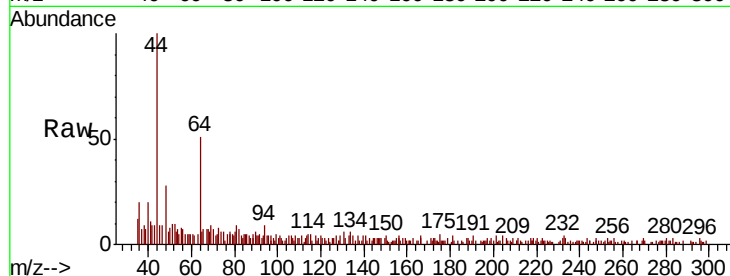
KY038PS027-191111

Tot Ion: 64 Resp: 1410

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 0.291 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

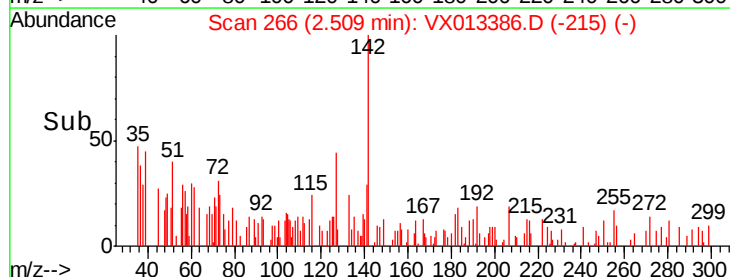
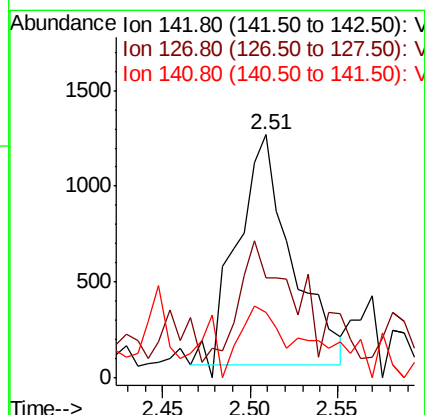
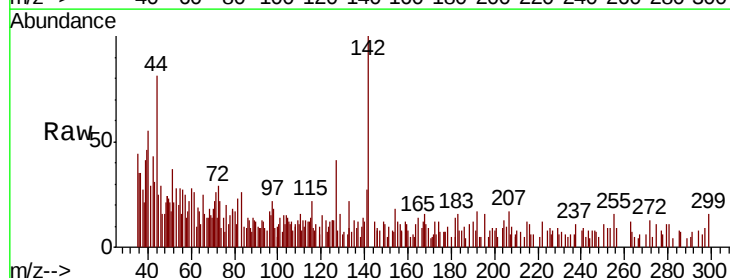
Tgt Ion: 142 Resp: 2558

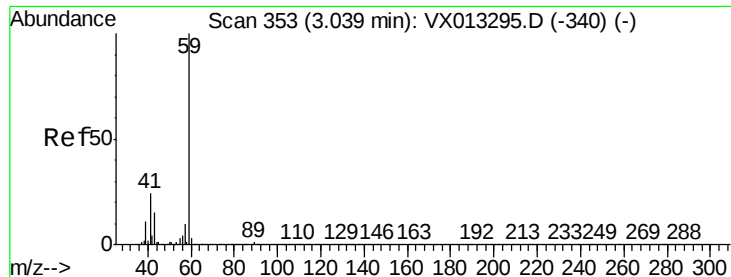
Ion Ratio Lower Upper

142 100

127 48.7 32.6 49.0

141 22.5 11.6 17.4#

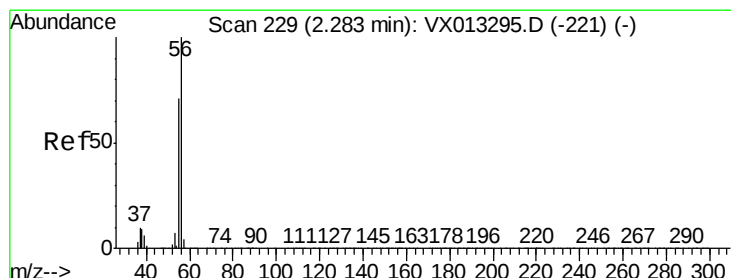
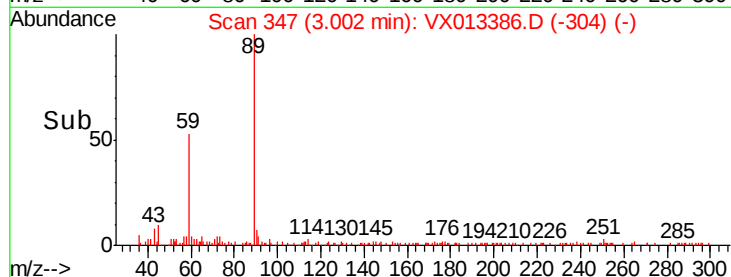
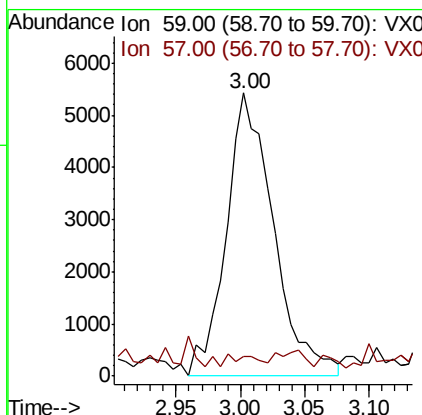
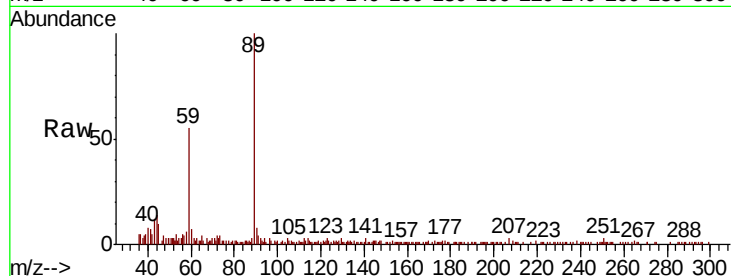




#11
Tert butyl alcohol
Concen: 5.888 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX013386.D
Acq: 12 Nov 2019 15:42

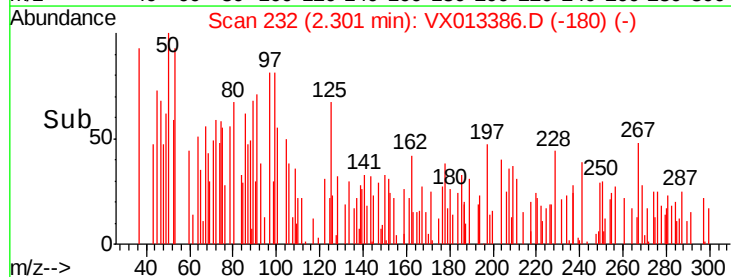
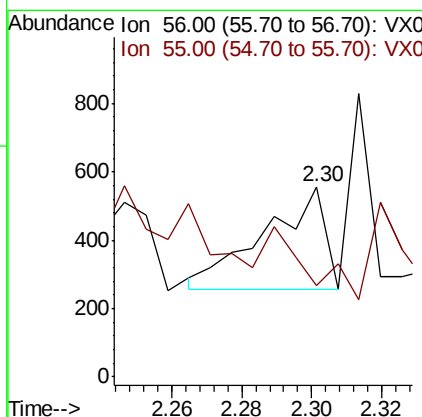
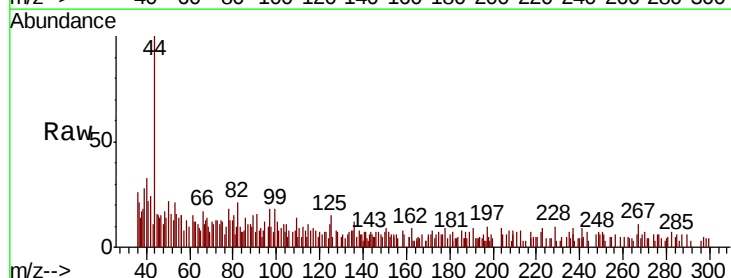
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-191111

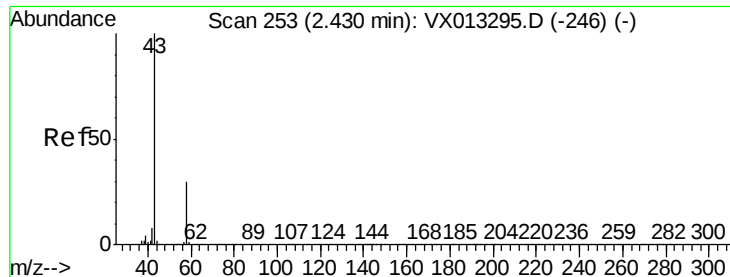
Tot Ion: 59 Resp: 13913
Ion Ratio Lower Upper
59 100
57 3.2 8.0 12.0#



#13
Acrolein
Concen: 0.279 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX013386.D
Acq: 12 Nov 2019 15:42

Tgt Ion: 56 Resp: 357
Ion Ratio Lower Upper
56 100
55 58.8 57.4 86.0





#16

Acetone

Concen: 2.808 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

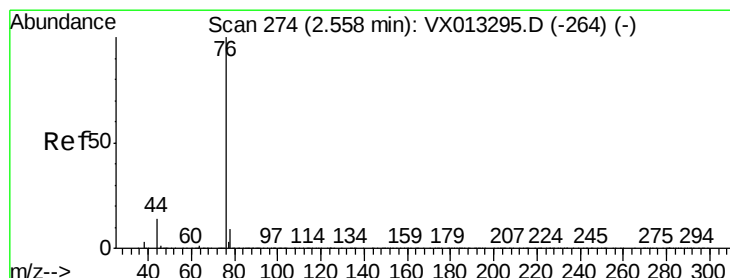
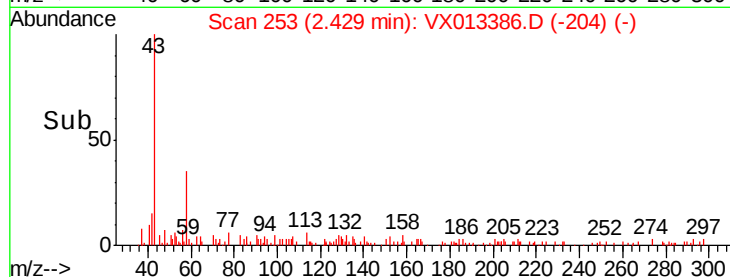
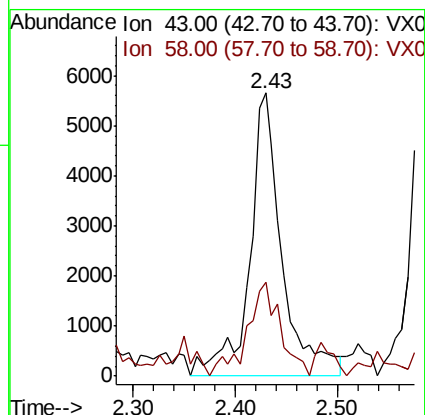
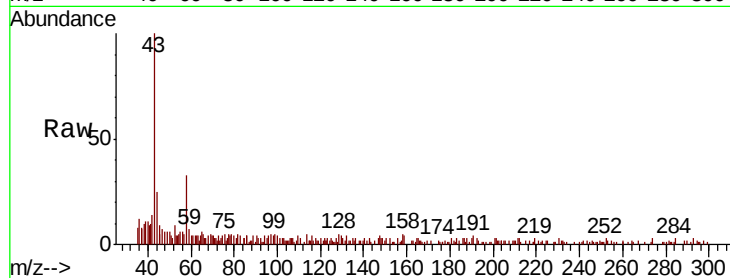
KY038PS027-191111

Tot Ion: 43 Resp: 12555

Ion Ratio Lower Upper

43 100

58 30.0 24.3 36.5



#17

Carbon Disulfide

Concen: 0.298 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013386.D

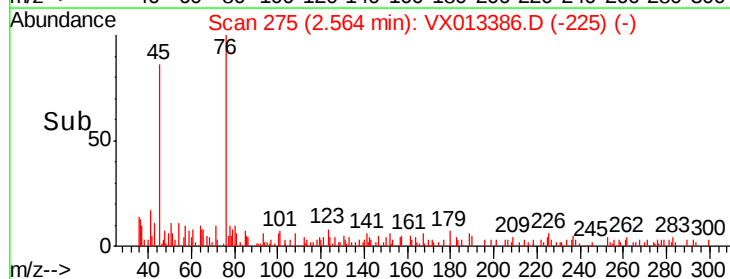
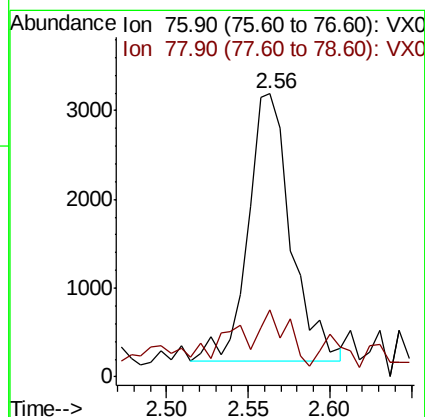
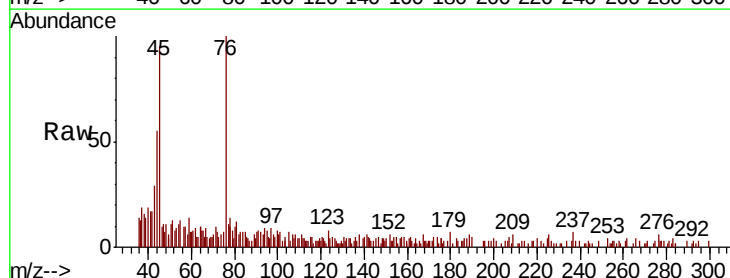
Acq: 12 Nov 2019 15:42

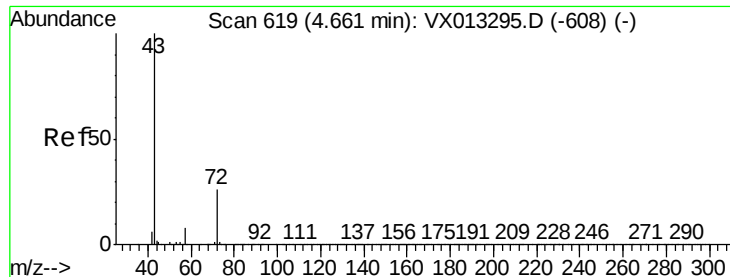
Tgt Ion: 76 Resp: 5538

Ion Ratio Lower Upper

76 100

78 17.6 7.0 10.6#





#25

2-Butanone

Concen: 0.580 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

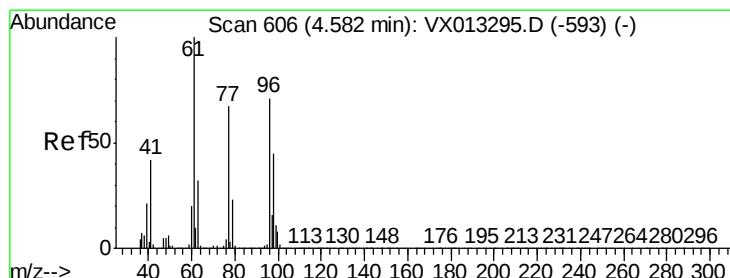
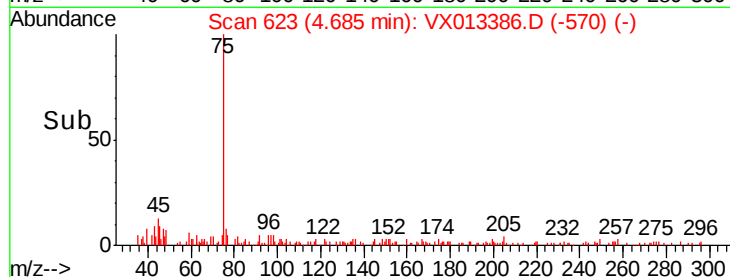
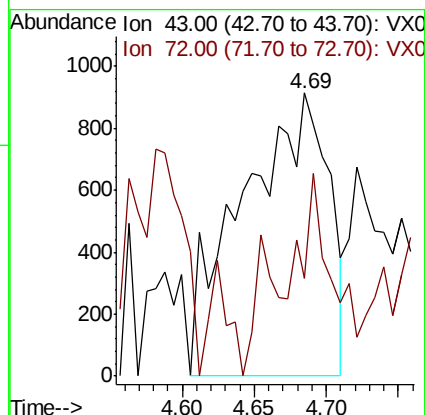
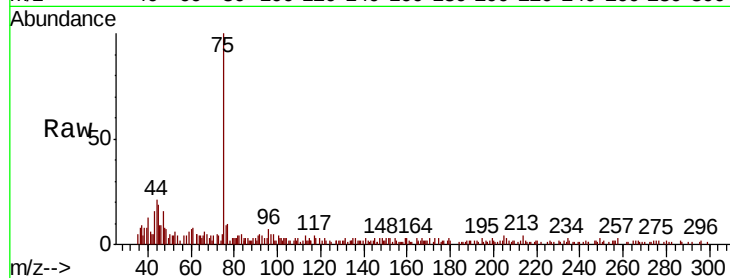
KY038PS027-191111

Tot Ion: 43 Resp: 3802

Ion Ratio Lower Upper

43 100

72 8.5 21.0 31.6#



#27

cis-1,2-Dichloroethene

Concen: 16.353 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.00 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

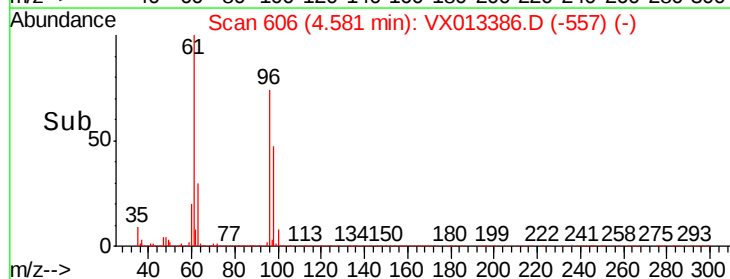
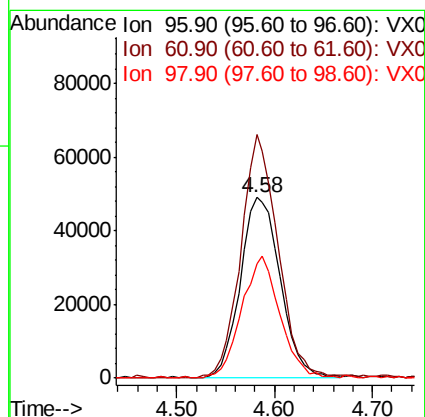
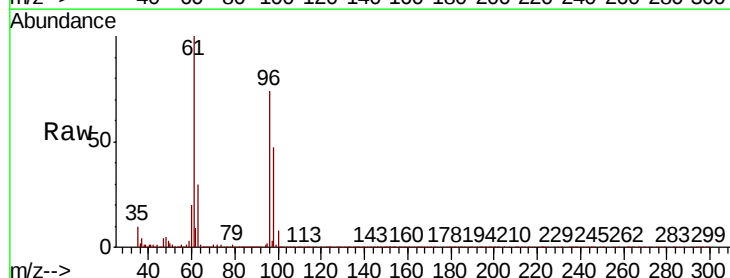
Tgt Ion: 96 Resp: 138447

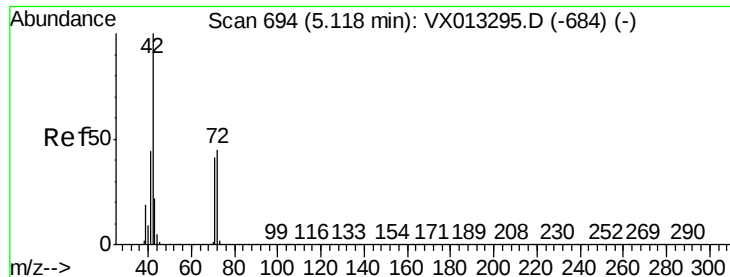
Ion Ratio Lower Upper

96 100

61 127.5 0.0 288.0

98 64.2 0.0 129.6





#29

Tetrahydrofuran

Concen: 0.288 ug/l

RT: 5.33 min Scan# 729

Delta R.T. 0.21 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-191111

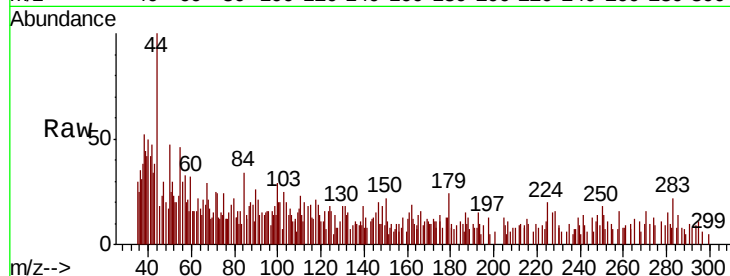
Tot Ion: 42 Resp: 1164

Ion Ratio Lower Upper

42 100

72 45.9 35.8 53.8

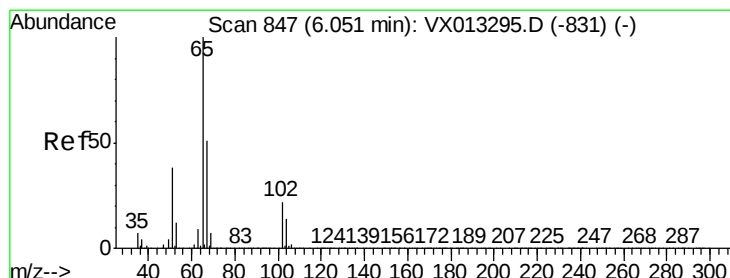
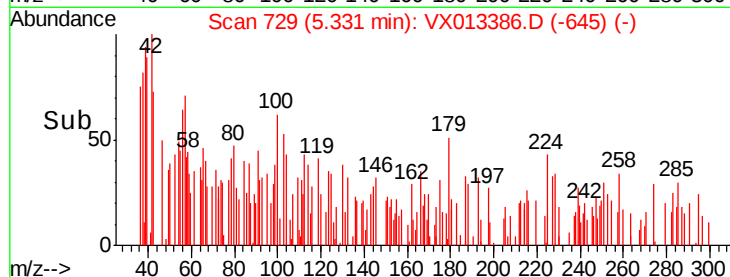
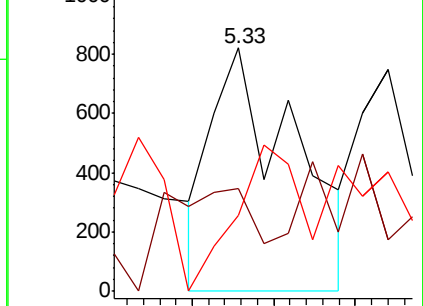
71 47.3 33.4 50.0



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.461 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013386.D

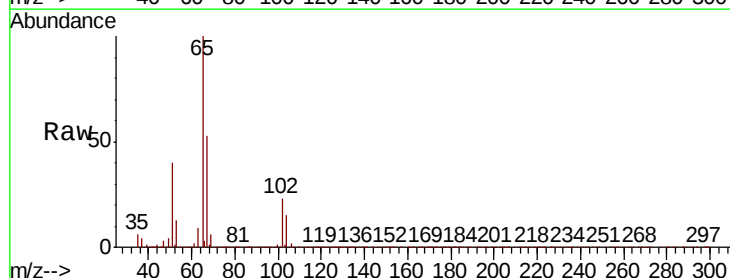
Acq: 12 Nov 2019 15:42

Tgt Ion: 65 Resp: 434439

Ion Ratio Lower Upper

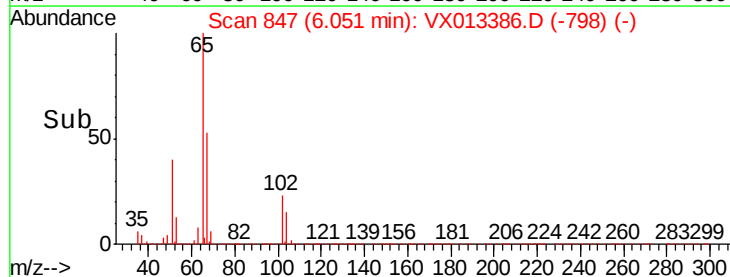
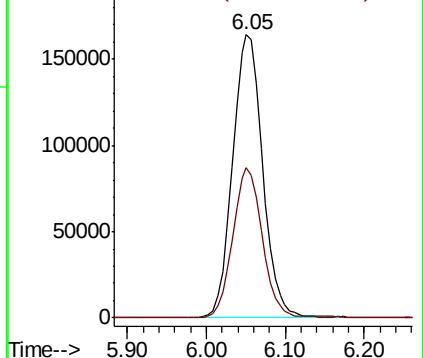
65 100

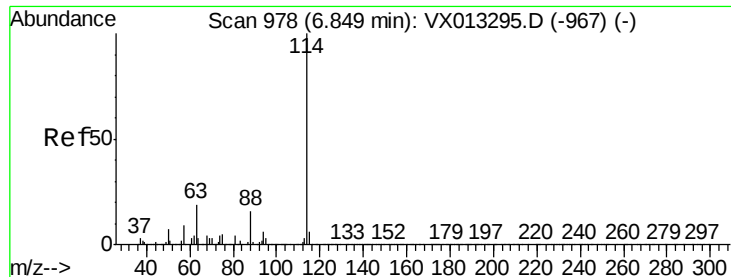
67 51.7 0.0 104.2



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: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-191111

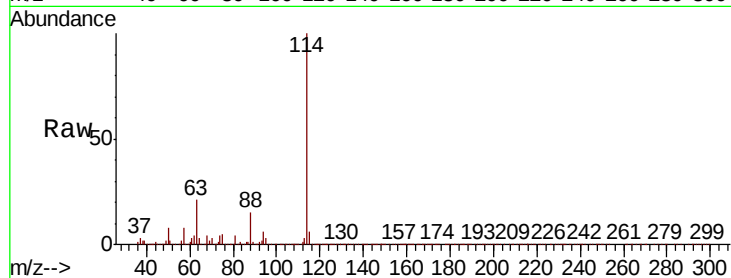
Tot Ion:114 Resp: 1184317

Ion Ratio Lower Upper

114 100

63 20.6 0.0 38.4

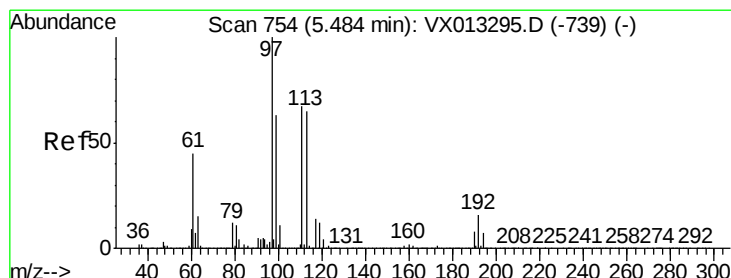
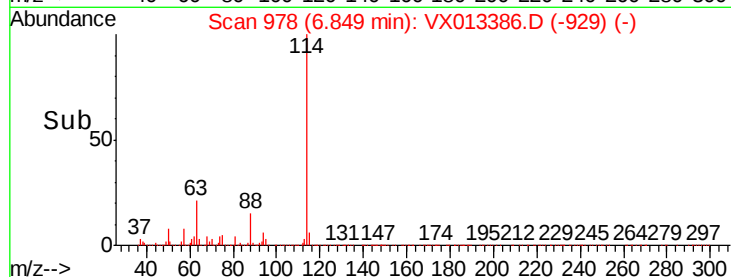
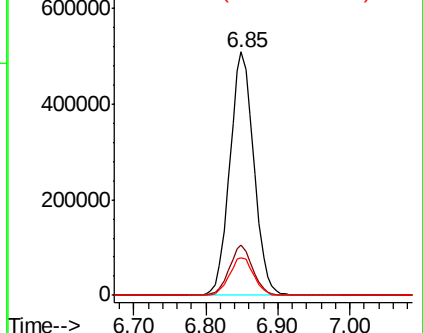
88 15.3 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.434 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

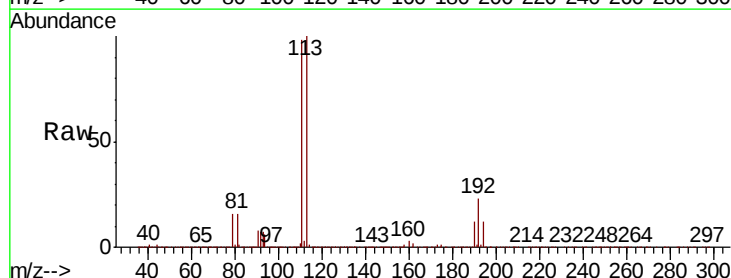
Tgt Ion:113 Resp: 359775

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

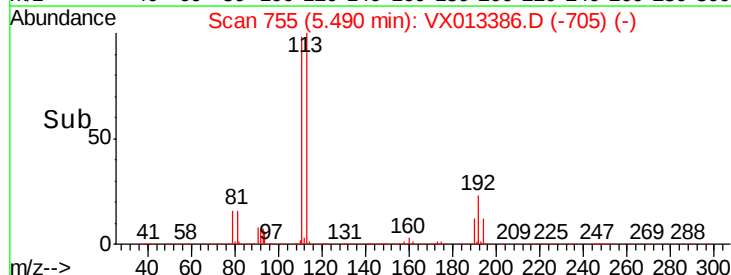
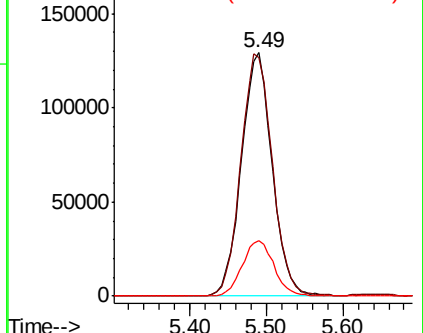
192 23.6 19.1 28.7

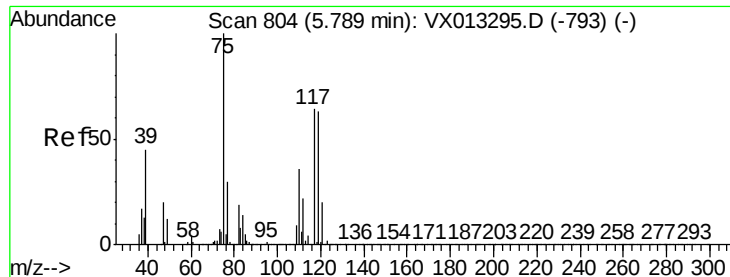


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.987 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-191111

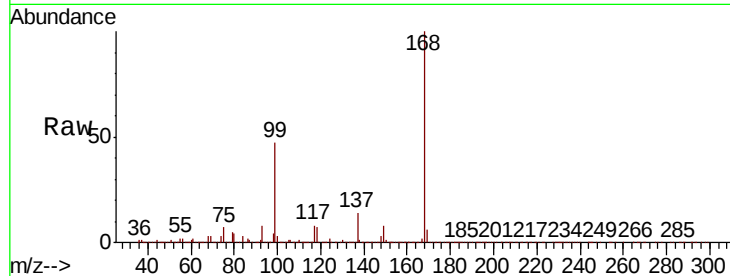
Tot Ion: 75 Resp: 50665

Ion Ratio Lower Upper

75 100

110 11.1 18.1 54.1#

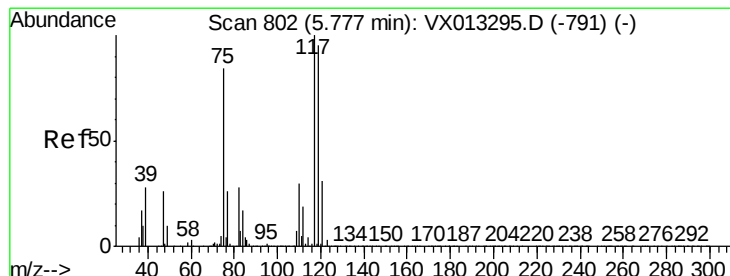
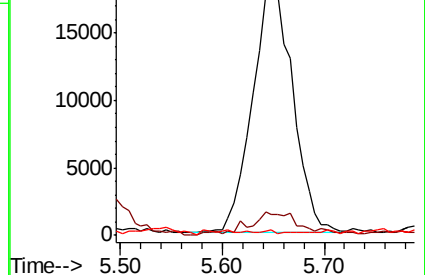
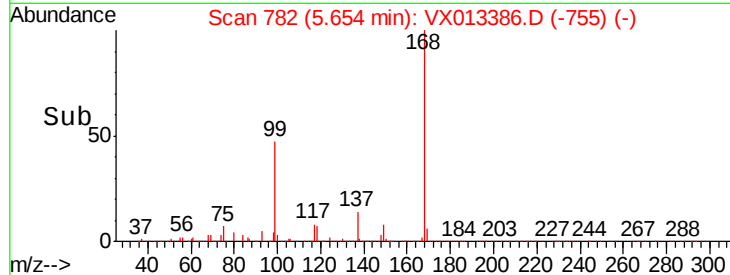
77 0.6 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX013386.D (-755) (-)

Ion 109.90 (109.60 to 110.60): VX013386.D (-755) (-)

Ion 76.90 (76.60 to 77.60): VX013386.D (-755) (-)



#38

Carbon Tetrachloride

Concen: 6.588 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

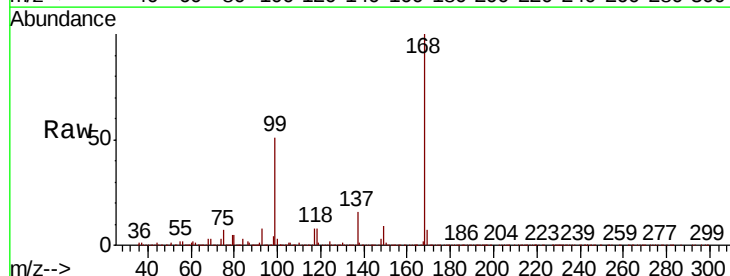
Tgt Ion: 117 Resp: 65450

Ion Ratio Lower Upper

117 100

119 5.2 76.1 114.1#

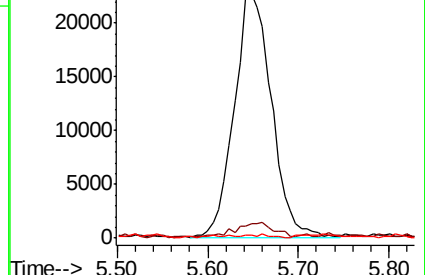
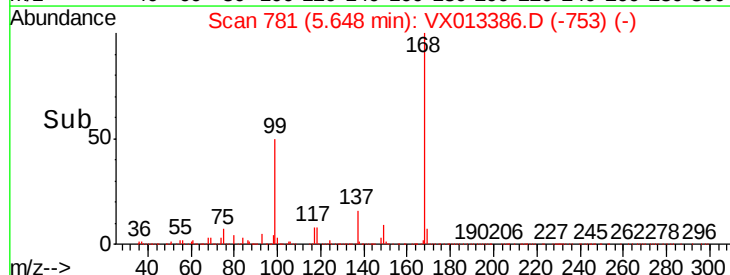
121 0.4 24.6 37.0#

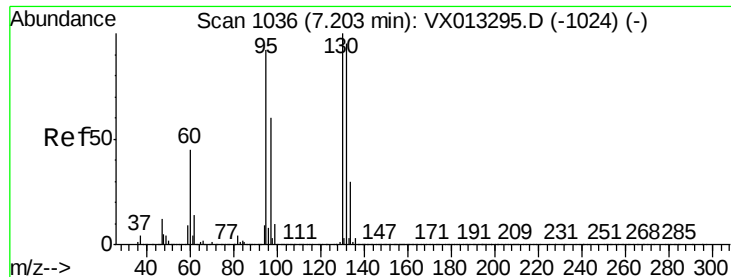


Abundance Ion 116.80 (116.50 to 117.50): VX013386.D (-753) (-)

Ion 118.80 (118.50 to 119.50): VX013386.D (-753) (-)

Ion 120.80 (120.50 to 121.50): VX013386.D (-753) (-)





#44

Trichloroethene

Concen: 3.106 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

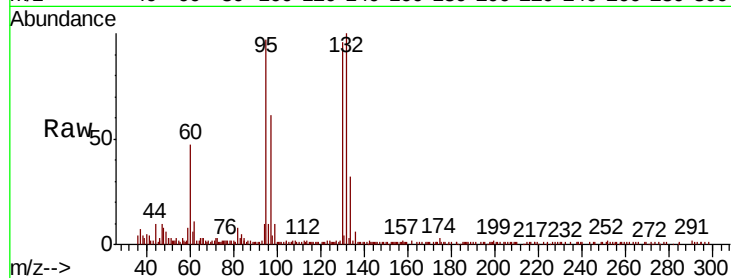
KY038PS027-191111

Tot Ion:130 Resp: 27057

Ion Ratio Lower Upper

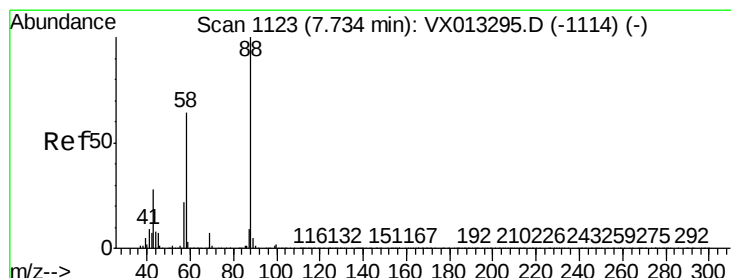
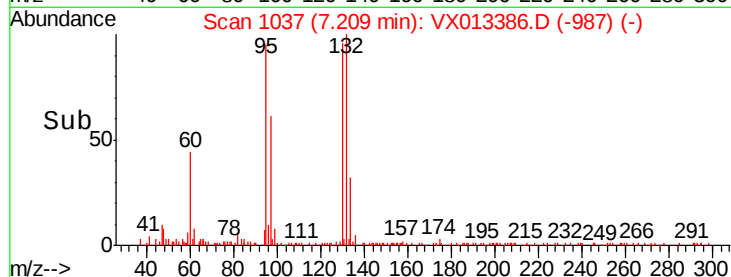
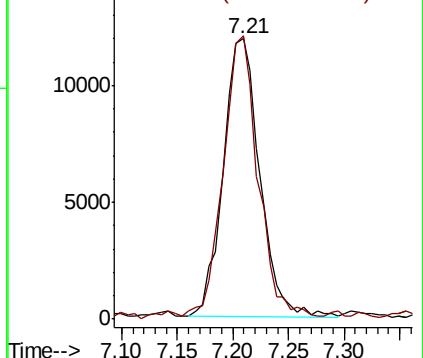
130 100

95 99.0 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.653 ug/l

RT: 7.71 min Scan# 1119

Delta R.T. -0.02 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

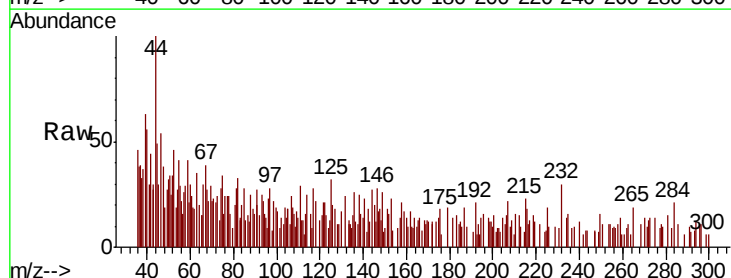
Tgt Ion: 88 Resp: 146

Ion Ratio Lower Upper

88 100

43 99.3 26.6 39.8#

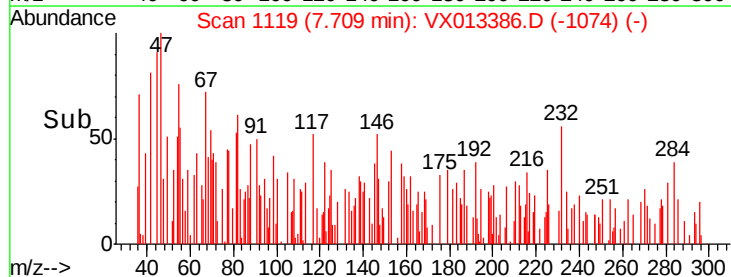
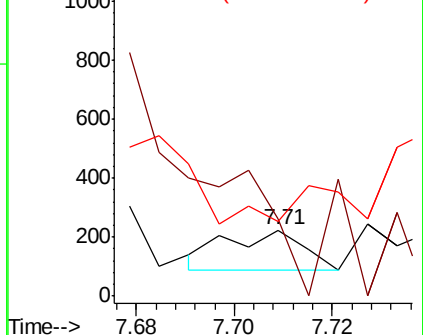
58 0.0 55.0 82.6#

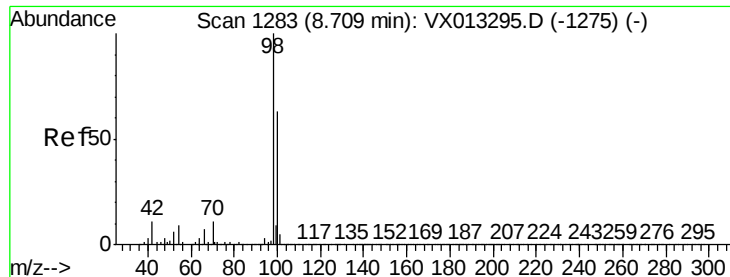


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.461 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

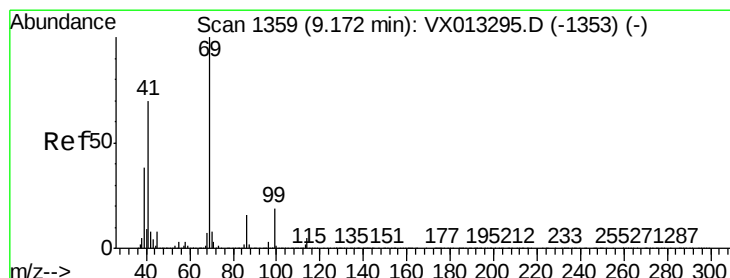
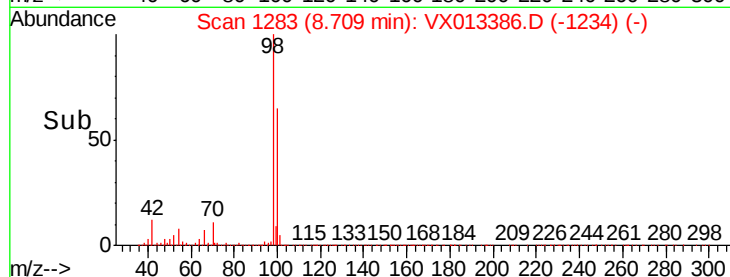
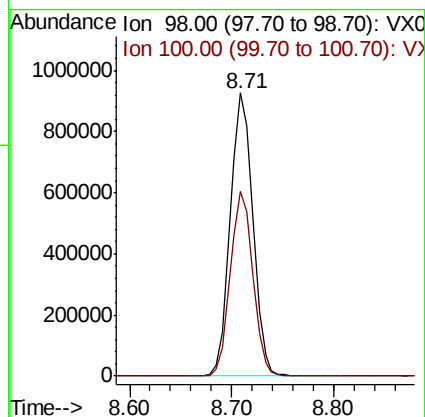
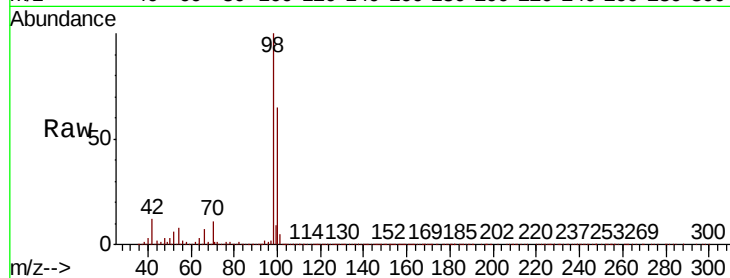
KY038PS027-191111

Tot Ion: 98 Resp: 1413093

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.626 ug/l

RT: 9.18 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

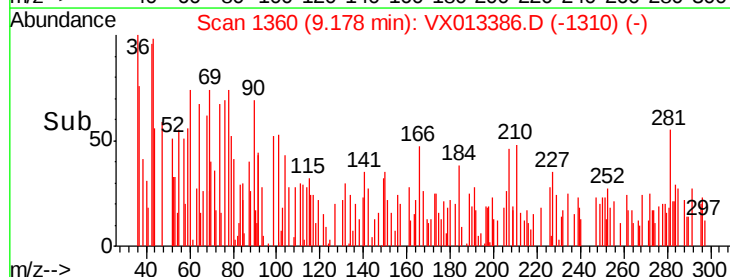
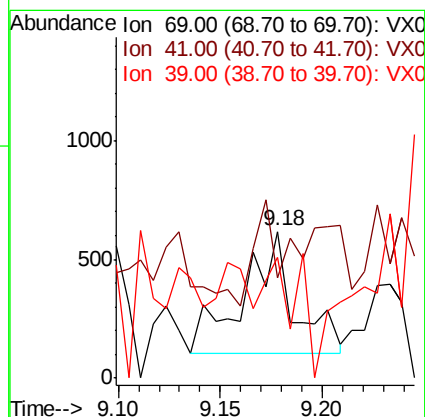
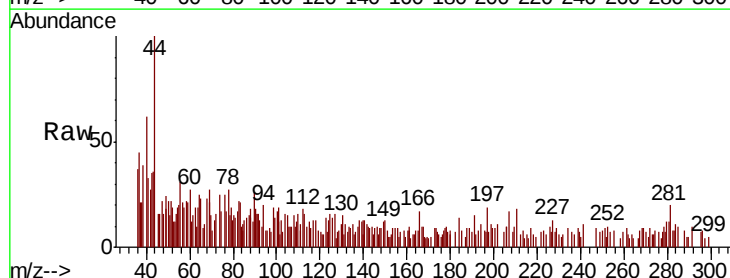
Tgt Ion: 69 Resp: 903

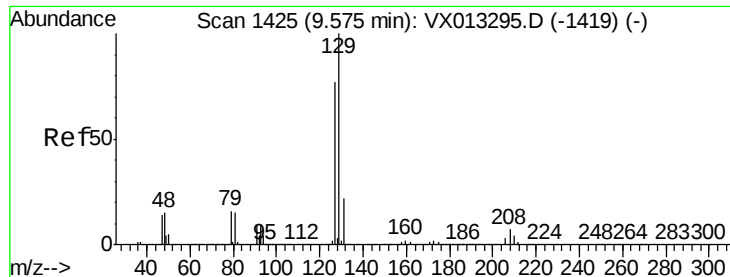
Ion Ratio Lower Upper

69 100

41 33.0 56.2 84.2#

39 0.0 31.1 46.7#





#60

Dibromochloromethane

Concen: 1.783 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.24 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

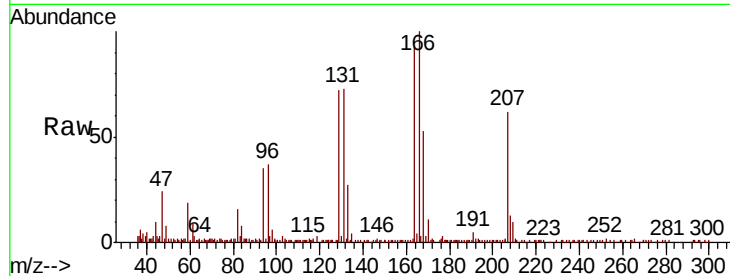
KY038PS027-191111

Tot Ion:129 Resp: 14829

Ion Ratio Lower Upper

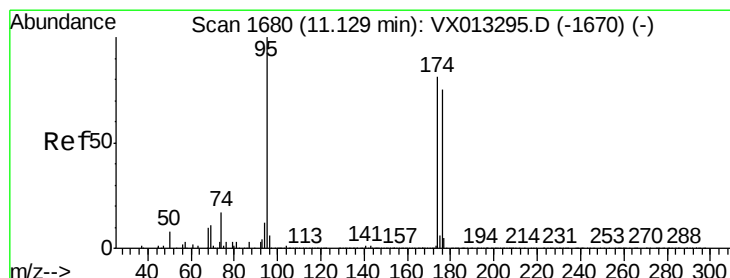
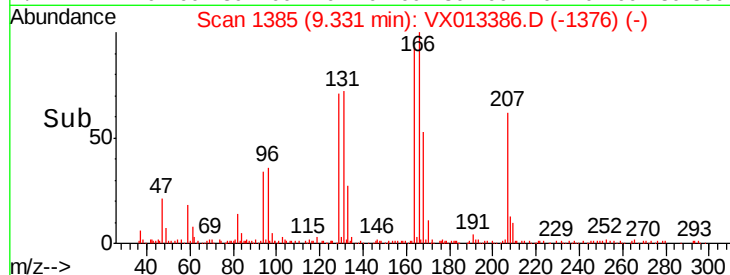
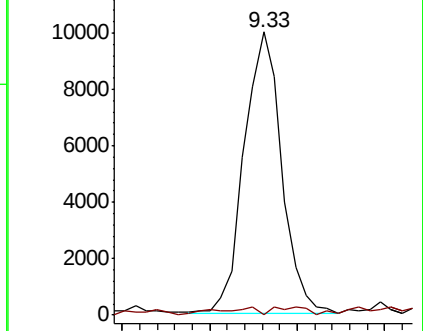
129 100

127 2.5 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.361 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

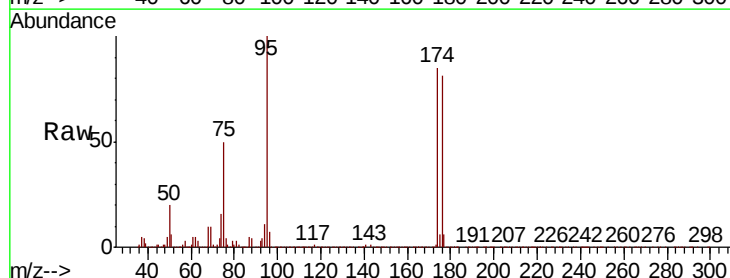
Tgt Ion: 95 Resp: 468556

Ion Ratio Lower Upper

95 100

174 90.7 0.0 179.8

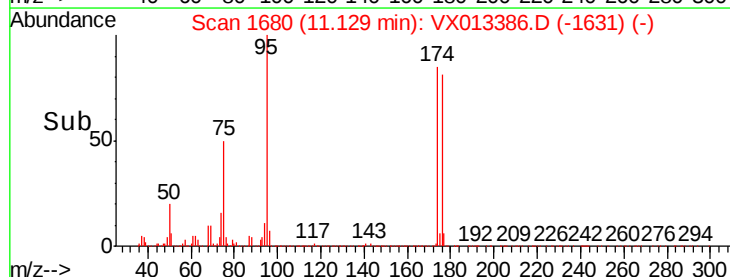
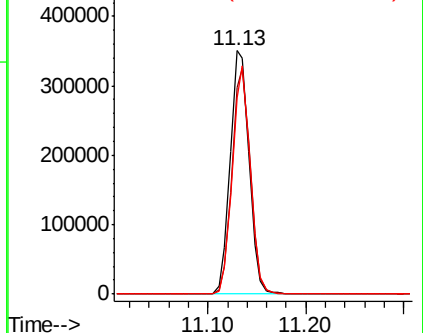
176 89.0 0.0 173.0

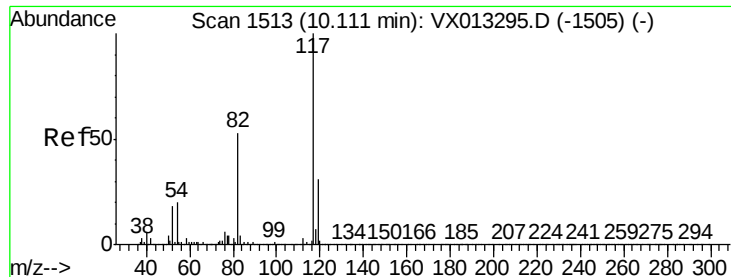


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

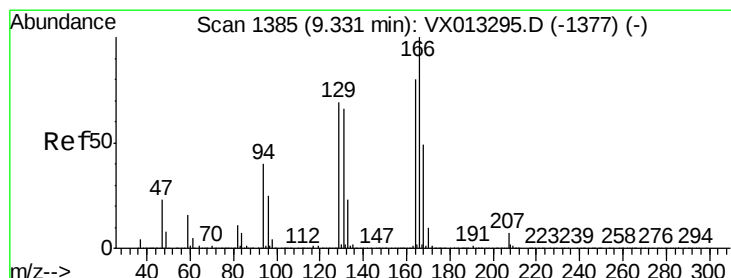
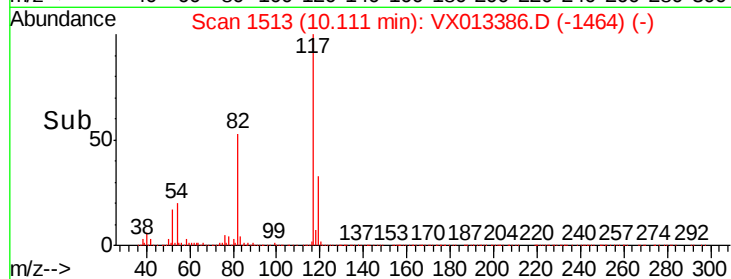
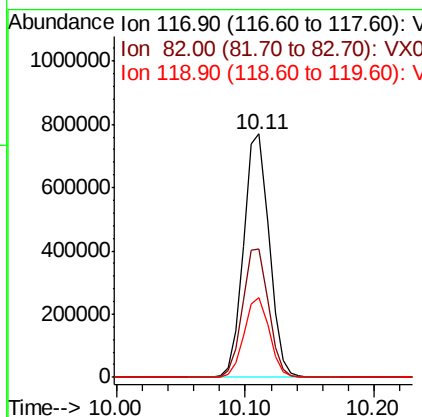
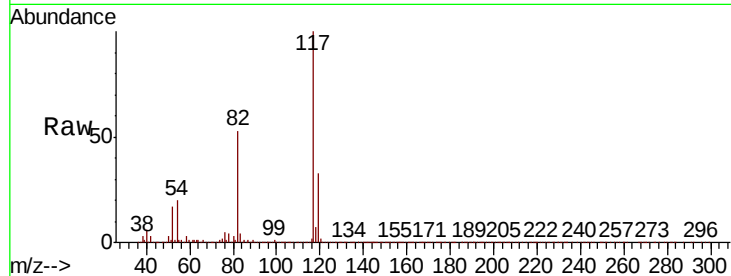




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013386.D
Acq: 12 Nov 2019 15:42

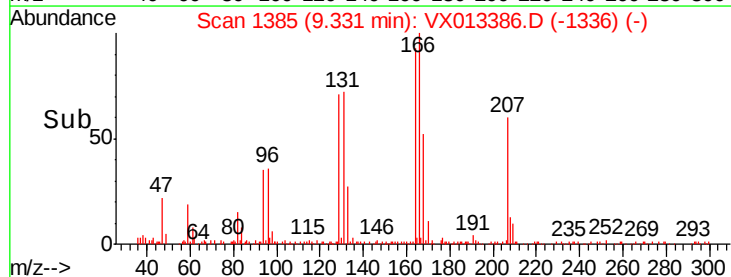
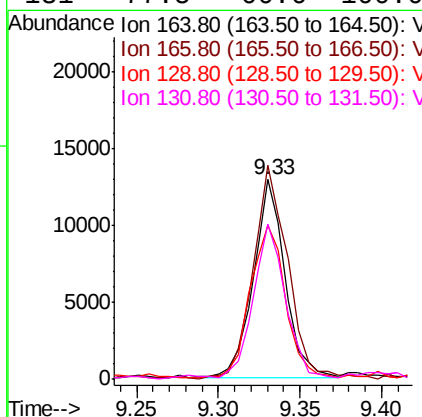
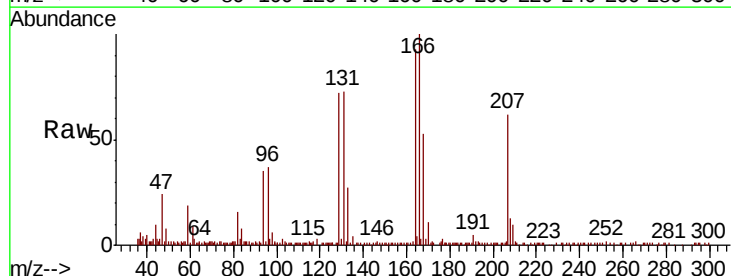
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-191111

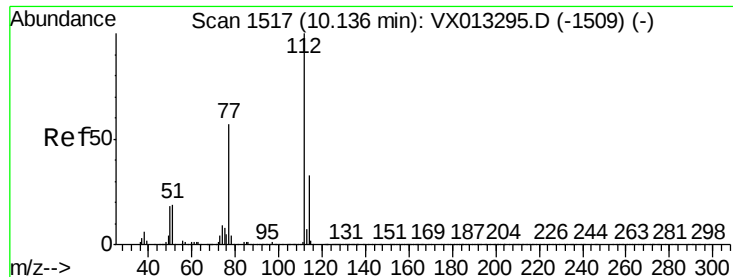
Tot Ion:117 Resp: 1054105
Ion Ratio Lower Upper
117 100
82 52.5 42.6 64.0
119 32.8 24.8 37.2



#64
Tetrachloroethene
Concen: 2.317 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013386.D
Acq: 12 Nov 2019 15:42

Tgt Ion:164 Resp: 17482
Ion Ratio Lower Upper
164 100
166 107.0 100.4 150.6
129 77.0 69.4 104.2
131 77.5 66.6 100.0





#65

Chlorobenzene

Concen: 1.841 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

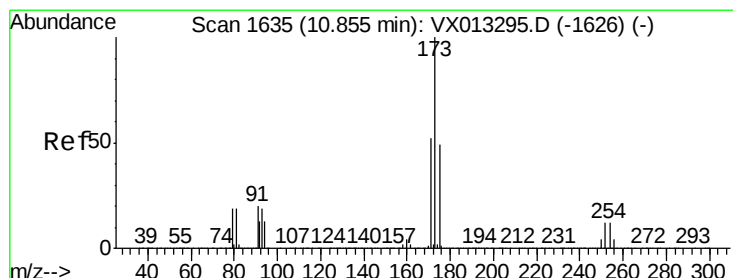
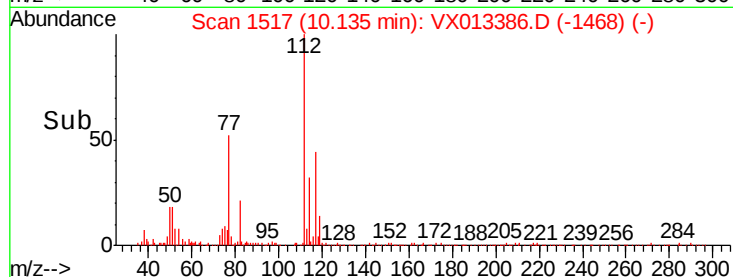
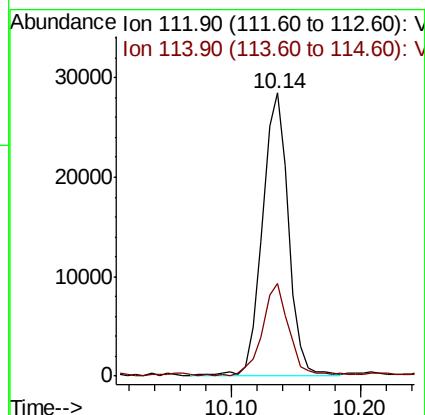
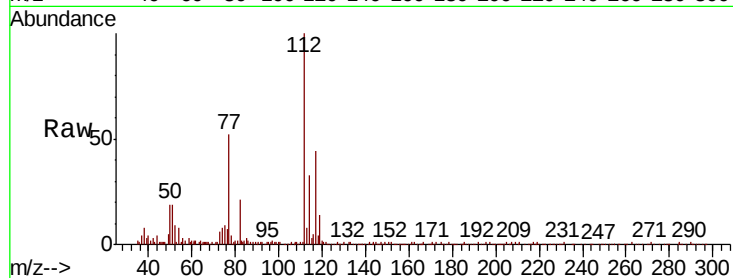
KY038PS027-191111

Tot Ion:112 Resp: 39287

Ion Ratio Lower Upper

112 100

114 32.1 26.4 39.6



#71

Bromoform

Concen: 3.246 ug/l

RT: 10.84 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

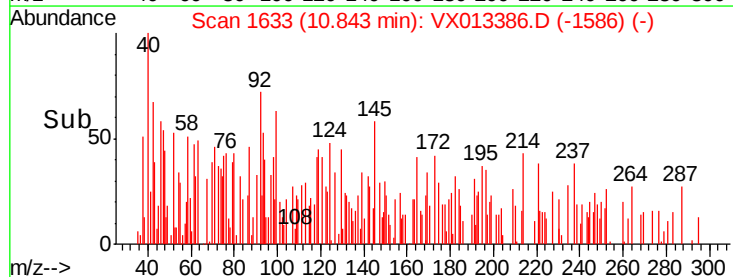
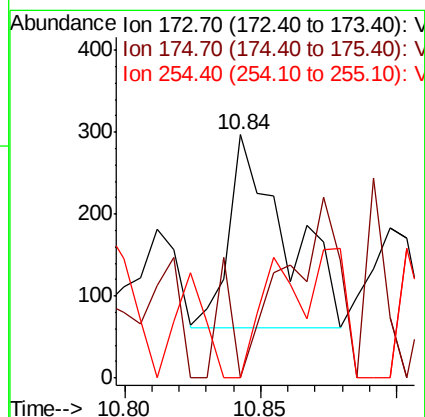
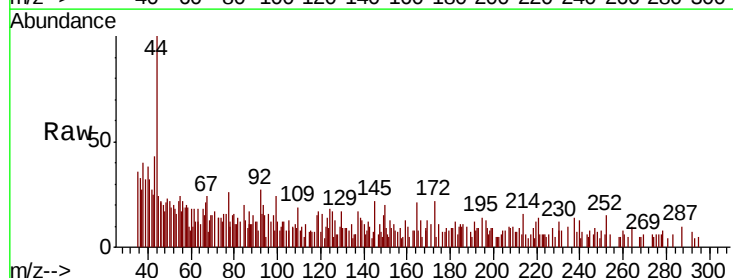
Tgt Ion:173 Resp: 341

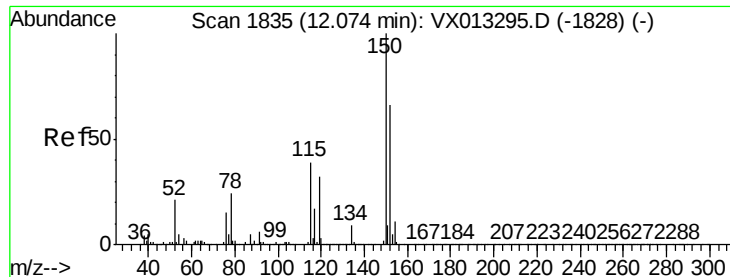
Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

254 44.3 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-191111

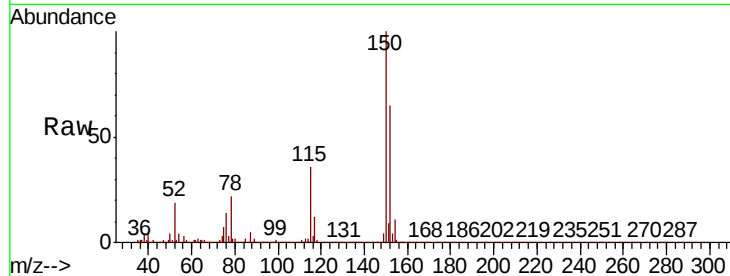
Tot Ion:152 Resp: 475319

Ion Ratio Lower Upper

152 100

115 55.1 39.5 118.3

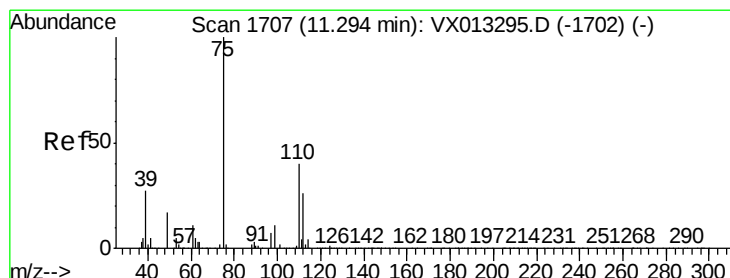
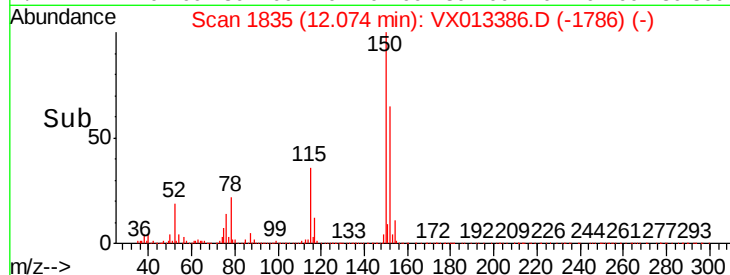
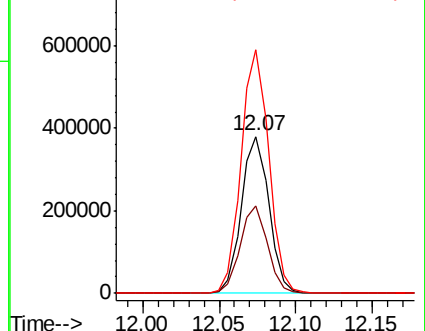
150 155.8 0.0 344.4



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: 24.204 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013386.D

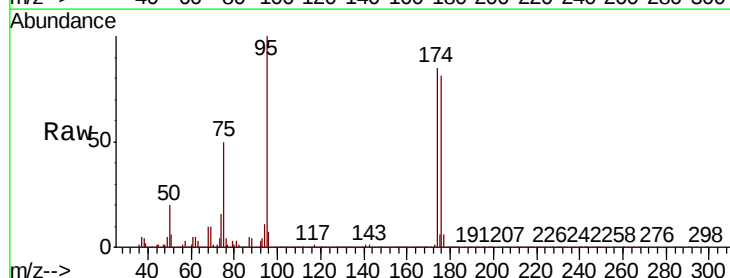
Acq: 12 Nov 2019 15:42

Tgt Ion: 75 Resp: 233674

Ion Ratio Lower Upper

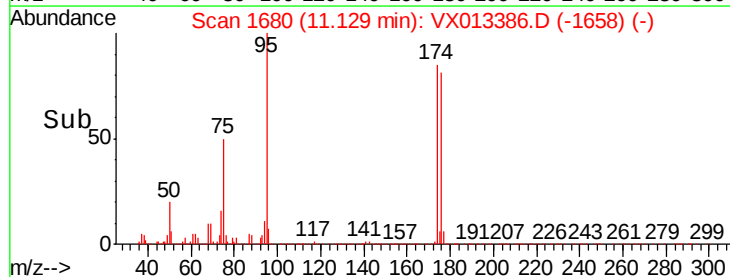
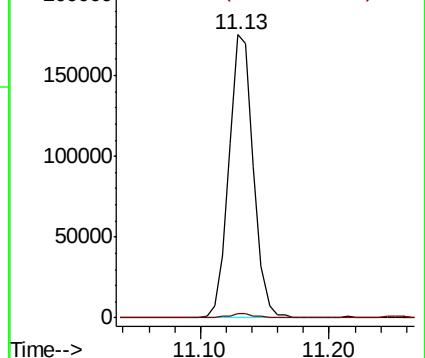
75 100

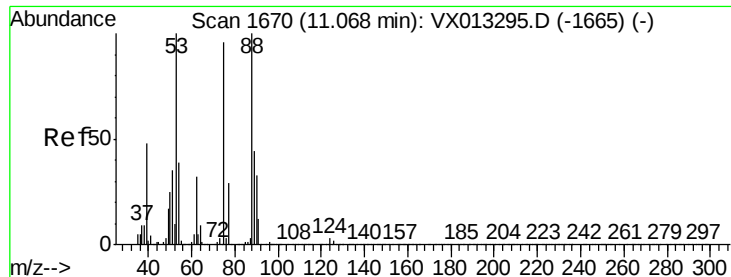
77 1.2 22.3 66.8#



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: 62.301 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-191111

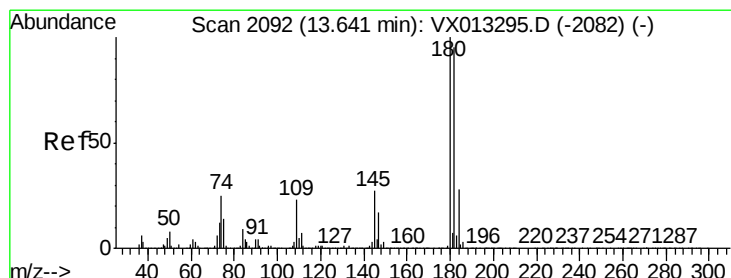
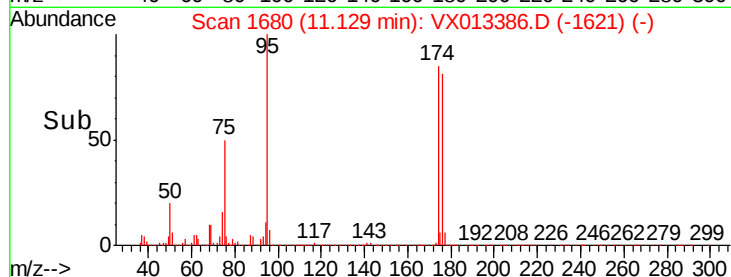
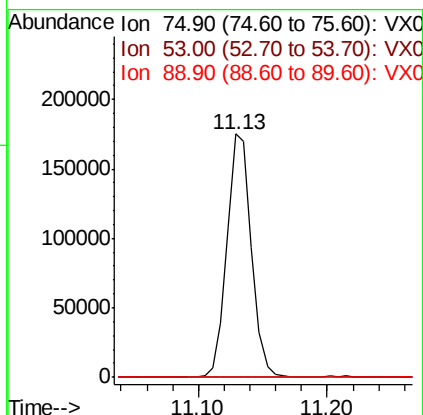
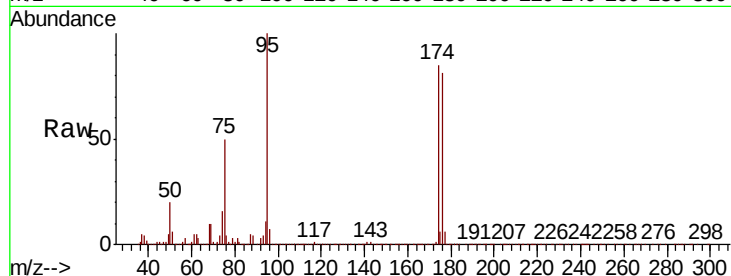
Tot Ion: 75 Resp: 233674

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.2 36.0 54.0#



#93

1,2,4-Trichlorobenzene

Concen: 0.262 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX013386.D

Acq: 12 Nov 2019 15:42

Tgt Ion: 180 Resp: 2732

Ion Ratio Lower Upper

180 100

182 69.8 48.4 145.0

145 44.3 14.1 42.4#

