

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092019\
 Data File : VX012584.D
 Acq On : 21 Sep 2019 02:29
 Operator : JC/SP
 Sample : K4930-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS037-190916

Quant Time: Sep 21 04:03:38 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	178890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	282757	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	238923	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	95401	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	118633	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
35) Dibromofluoromethane	5.49	113	85302	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
50) Toluene-d8	8.71	98	323781	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	11.14	95	114066	43.37	ug/l	0.00
Spiked Amount			Recovery	=	86.74%	

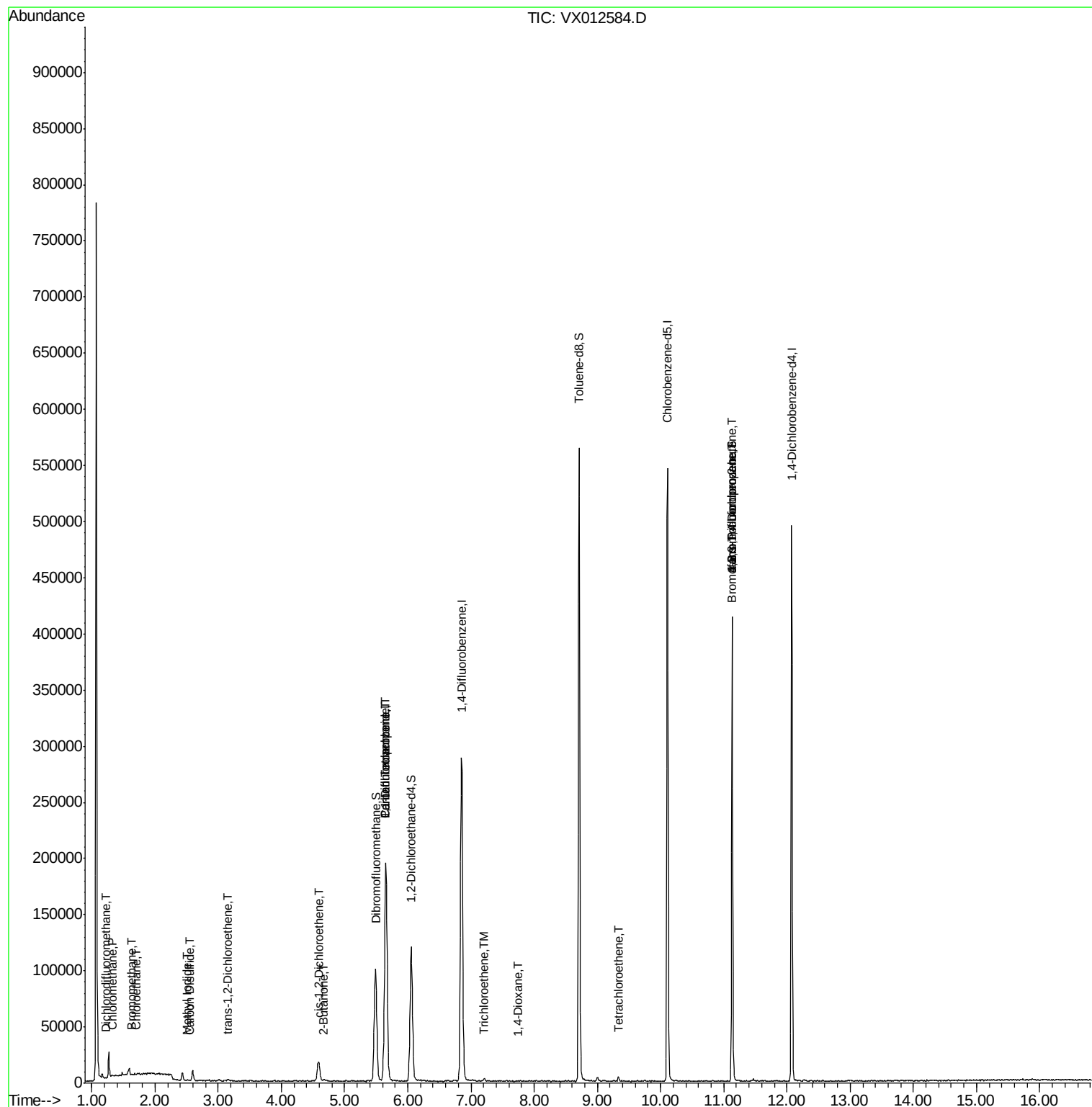
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.22	85	53	0.435	ug/l #	43
3) Chloromethane	1.32	50	579	0.589	ug/l #	68
5) Bromomethane	1.64	94	176	0.421	ug/l #	42
6) Chloroethane	1.70	64	416	0.500	ug/l #	67
10) Methyl Iodide	2.50	142	277	4.651	ug/l #	47
11) Tert butyl alcohol	3.00	59	448	Below Cal	#	26
13) Acrolein	2.26	56	276	Below Cal		98
16) Acetone	2.43	43	7682	Below Cal		92
17) Carbon Disulfide	2.56	76	196	1.925	ug/l #	75
21) trans-1,2-Dichloroethene	3.15	96	602	0.515	ug/l #	80
25) 2-Butanone	4.66	43	691	0.389	ug/l #	51
27) cis-1,2-Dichloroethene	4.59	96	10919	6.258	ug/l	85
36) 1,1-Dichloropropene	5.65	75	14524	8.452	ug/l #	52
38) Carbon Tetrachloride	5.65	117	18733	8.765	ug/l #	16
44) Trichloroethene	7.20	130	298	0.207	ug/l	54
49) 1,4-Dioxane	7.75	88	47	0.865	ug/l #	1
64) Tetrachloroethene	9.34	164	548	0.501	ug/l #	79
71) Bromoform	11.12	173	214	3.013	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	58922	26.887	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	58922	72.341	ug/l #	8

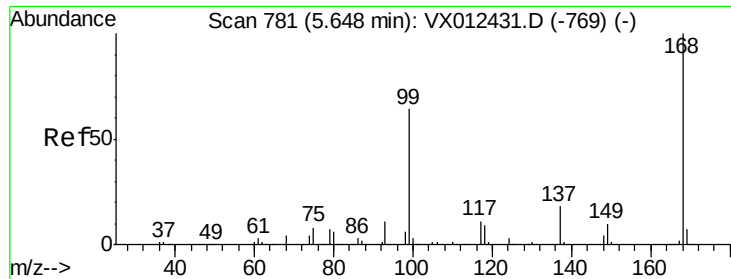
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012584.D

Acq: 21 Sep 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

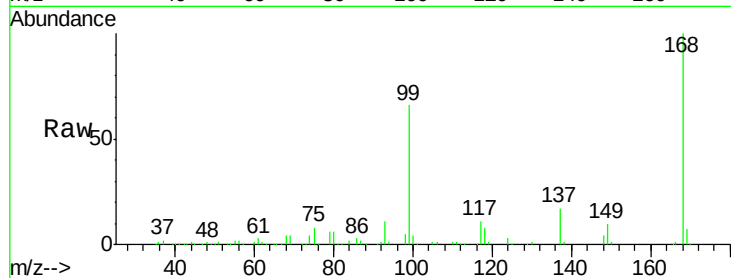
KY038PS037-190916

Tot Ion:168 Resp: 178890

Ion Ratio Lower Upper

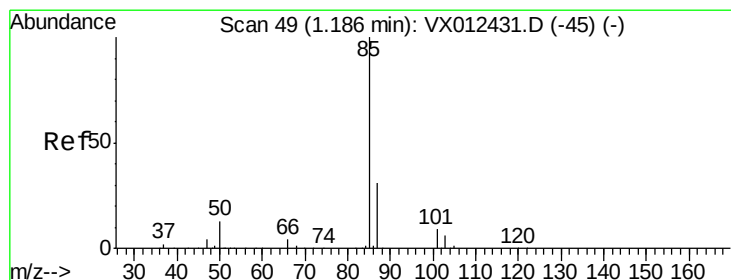
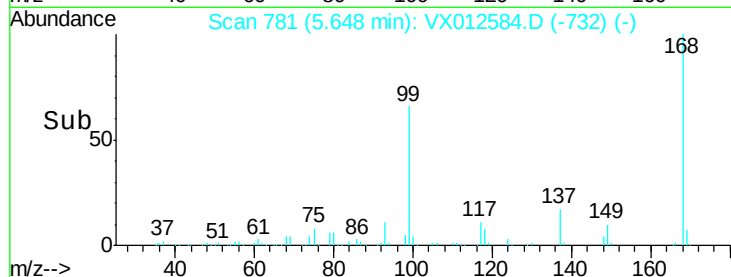
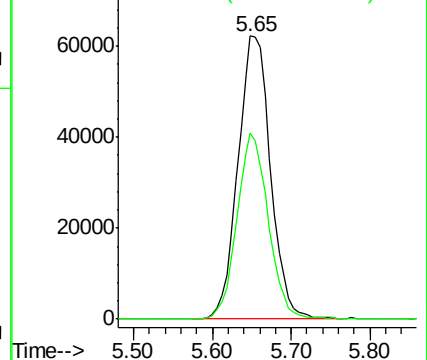
168 100

99 65.7 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: 0.435 ug/l

RT: 1.22 min Scan# 54

Delta R.T. 0.03 min

Lab File: VX012584.D

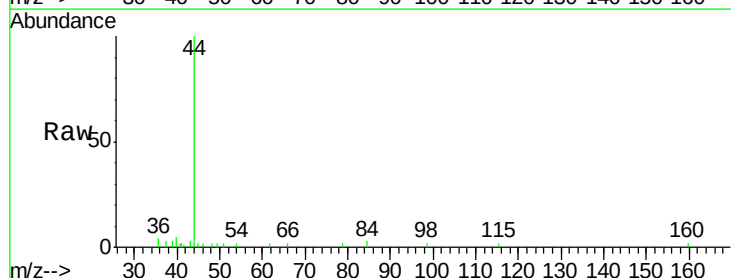
Acq: 21 Sep 2019 02:29

Tgt Ion: 85 Resp: 53

Ion Ratio Lower Upper

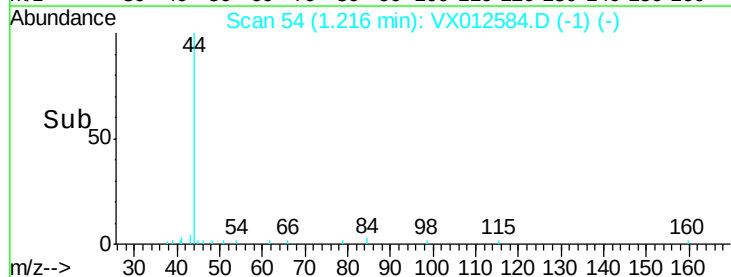
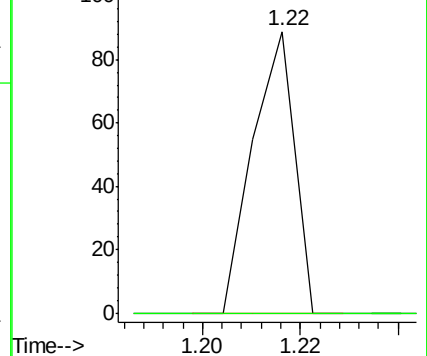
85 100

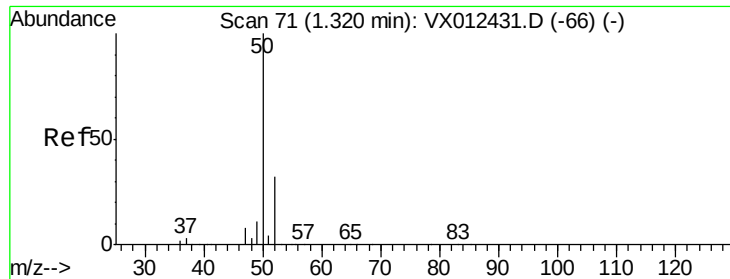
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.589 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

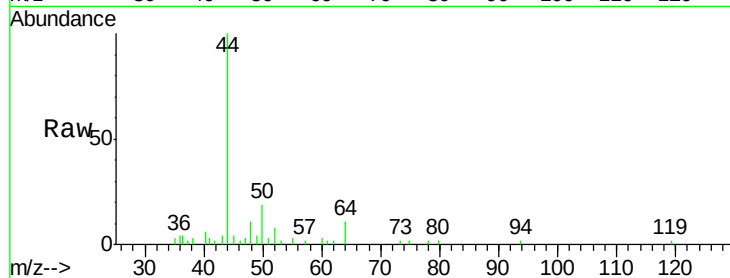
KY038PS037-190916

Tot Ion: 50 Resp: 579

Ion Ratio Lower Upper

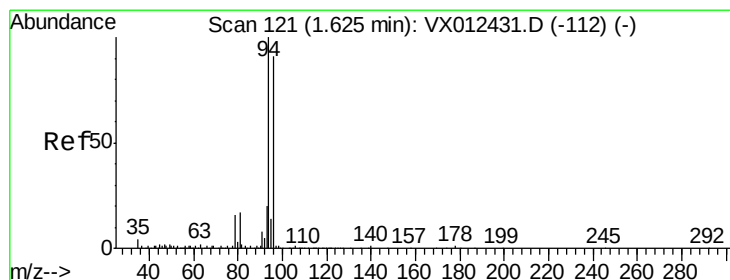
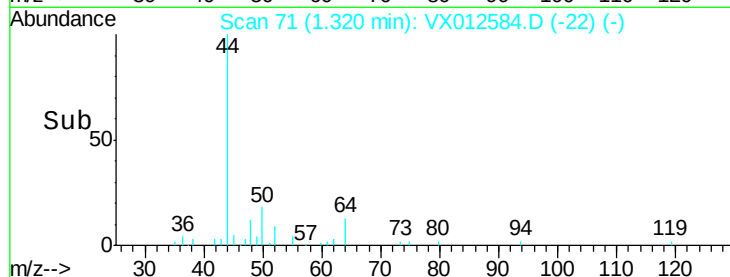
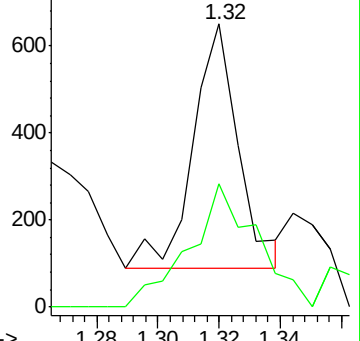
50 100

52 50.2 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: 0.421 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012584.D

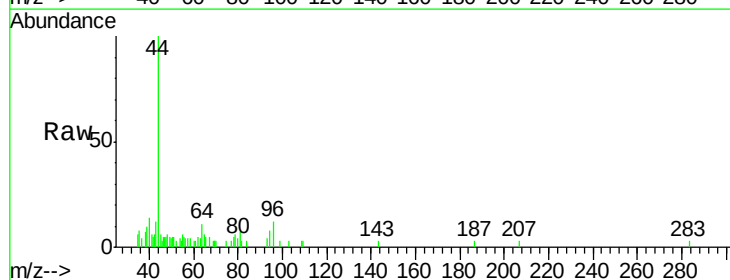
Acq: 21 Sep 2019 02:29

Tgt Ion: 94 Resp: 176

Ion Ratio Lower Upper

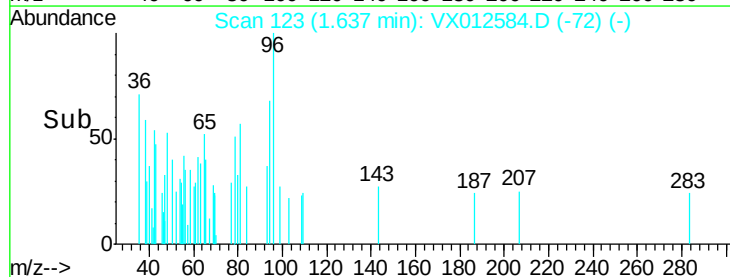
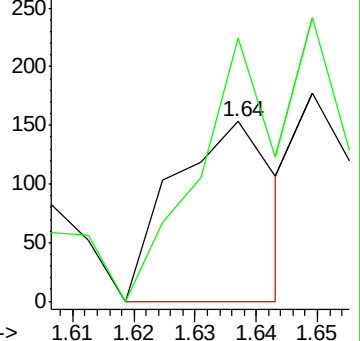
94 100

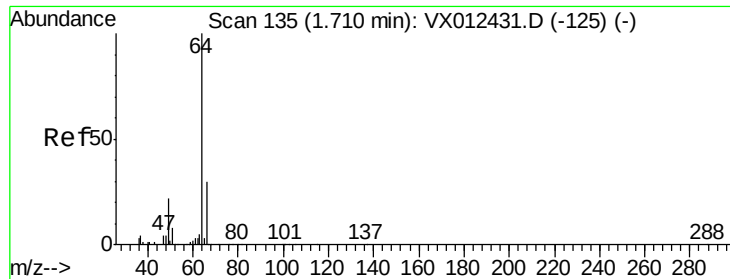
96 146.4 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.500 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

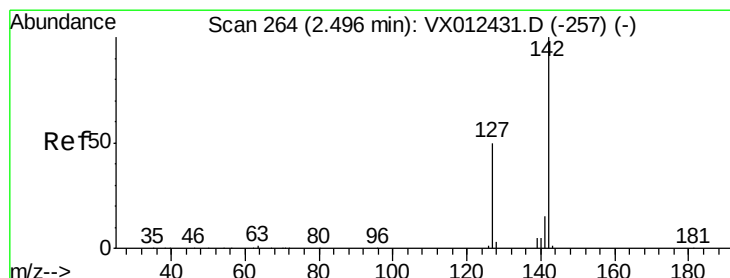
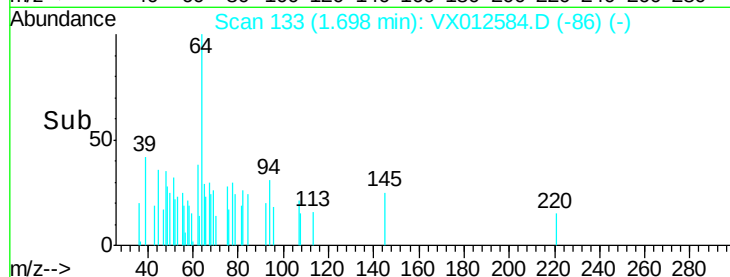
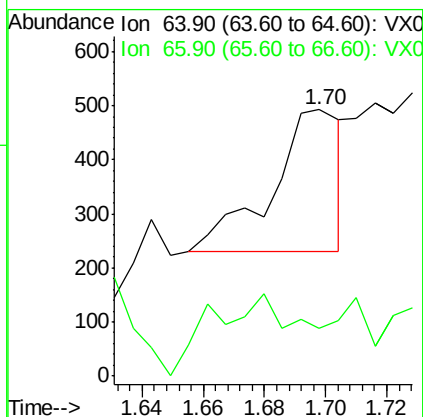
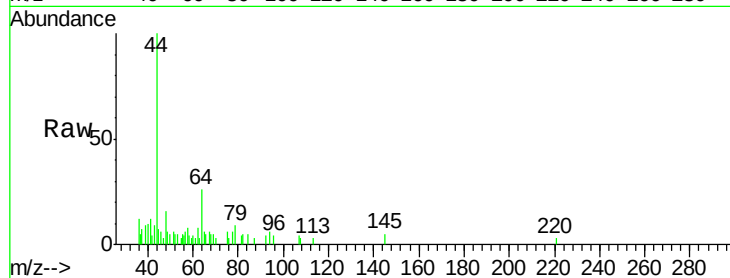
KY038PS037-190916

Tot Ion: 64 Resp: 416

Ion Ratio Lower Upper

64 100

66 12.2 24.0 36.0#



#10

Methyl Iodide

Concen: 4.651 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

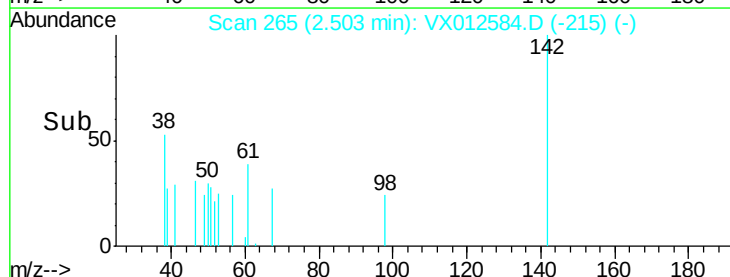
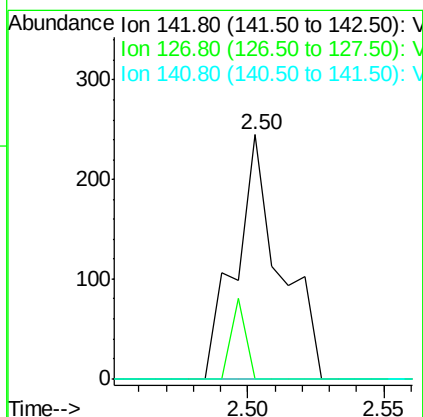
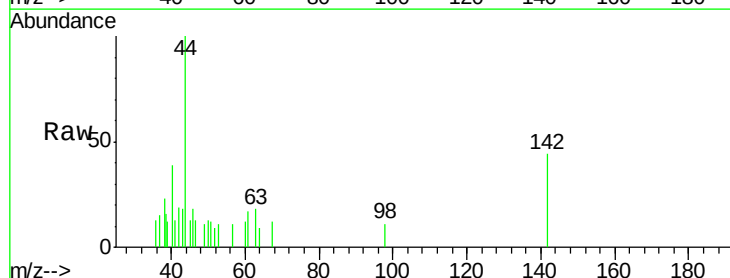
Tgt Ion: 142 Resp: 277

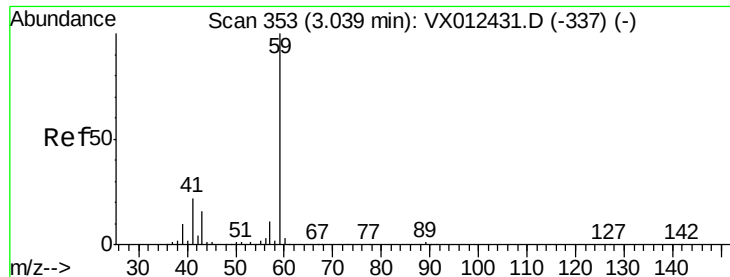
Ion Ratio Lower Upper

142 100

127 10.8 40.8 61.2#

141 0.0 12.1 18.1#

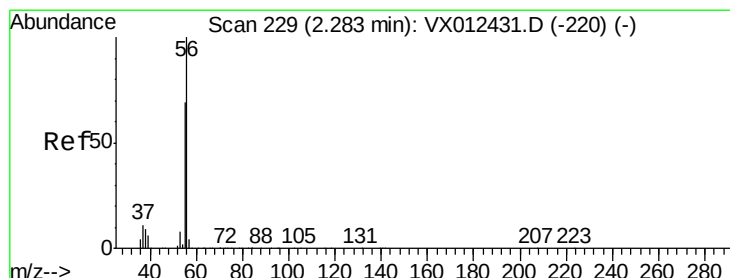
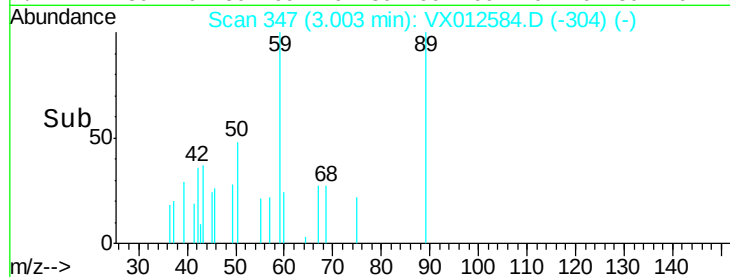
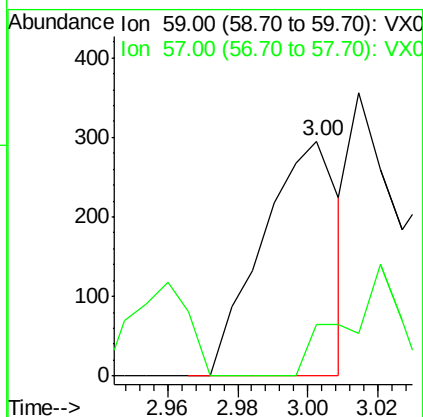
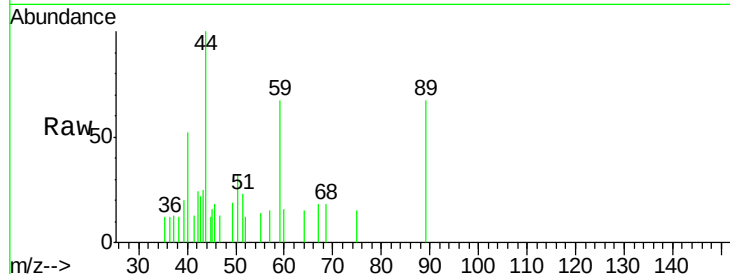




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX012584.D
Acq: 21 Sep 2019 02:29

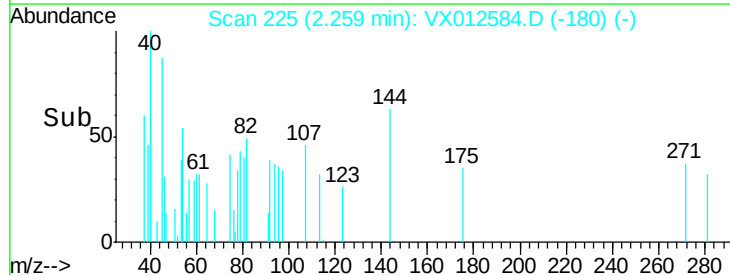
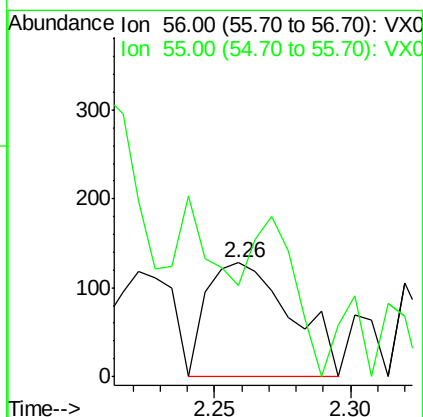
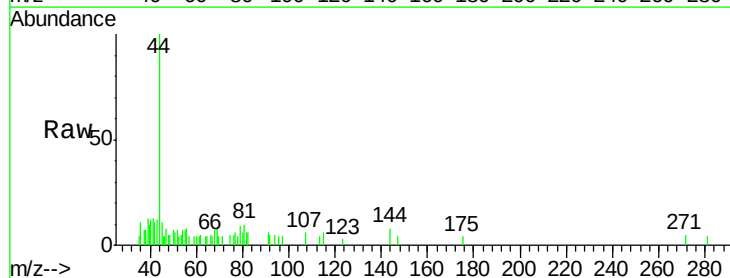
Instrument :
MSVOA_X
ClientSampleId :
KY038PS037-190916

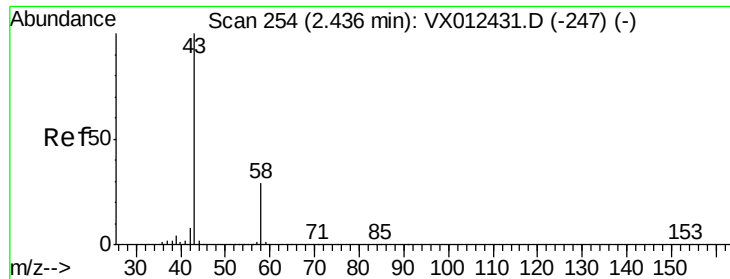
Tot Ion: 59 Resp: 448
Ion Ratio Lower Upper
59 100
57 37.9 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 2.26 min Scan# 225
Delta R.T. -0.02 min
Lab File: VX012584.D
Acq: 21 Sep 2019 02:29

Tgt Ion: 56 Resp: 276
Ion Ratio Lower Upper
56 100
55 71.7 55.8 83.8





#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

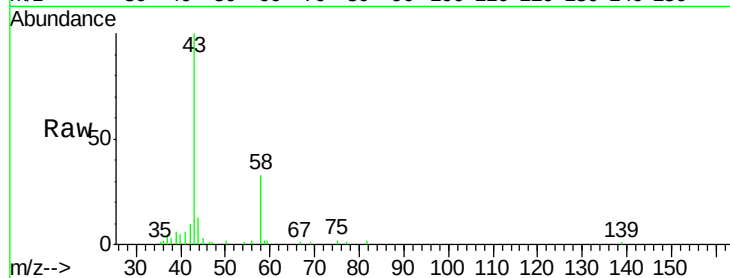
KY038PS037-190916

Tot Ion: 43 Resp: 7682

Ion Ratio Lower Upper

43 100

58 33.4 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

5000

4000

3000

2000

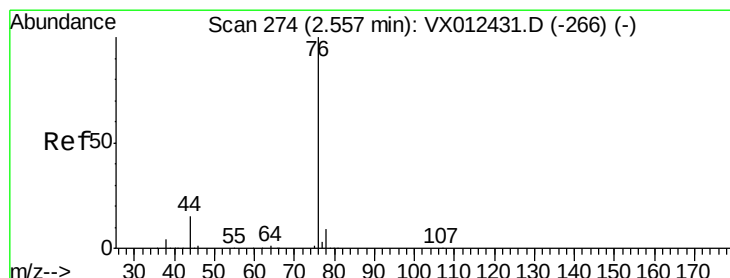
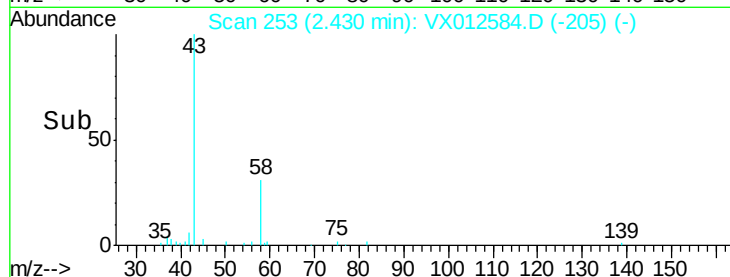
1000

0

Time-->

2.35 2.40 2.45 2.50 2.55

2.43



#17

Carbon Disulfide

Concen: 1.925 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012584.D

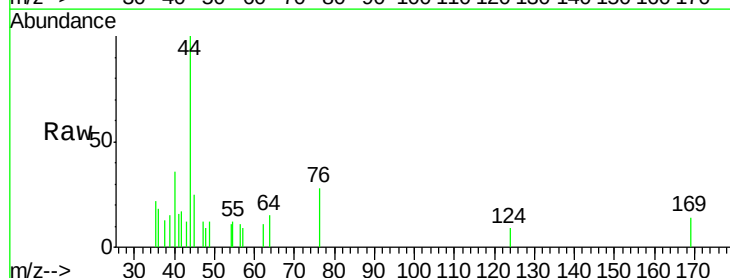
Acq: 21 Sep 2019 02:29

Tgt Ion: 76 Resp: 196

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

150

100

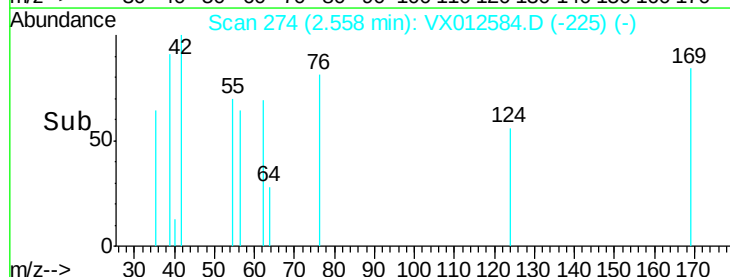
50

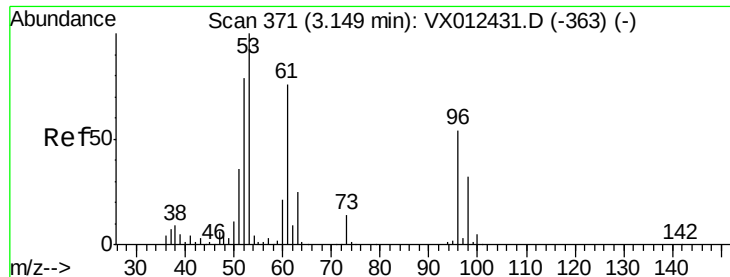
0

Time-->

2.52 2.54 2.56 2.58

2.56





#21

trans-1,2-Dichloroethene

Concen: 0.515 ug/l

RT: 3.15 min Scan# 372

Delta R.T. 0.01 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-190916

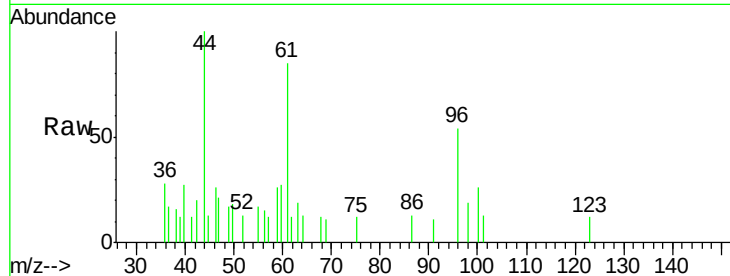
Tot Ion: 96 Resp: 602

Ion Ratio Lower Upper

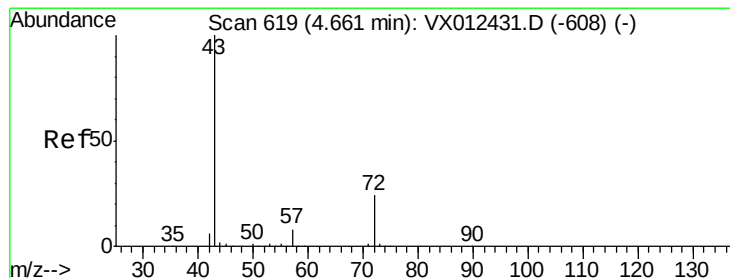
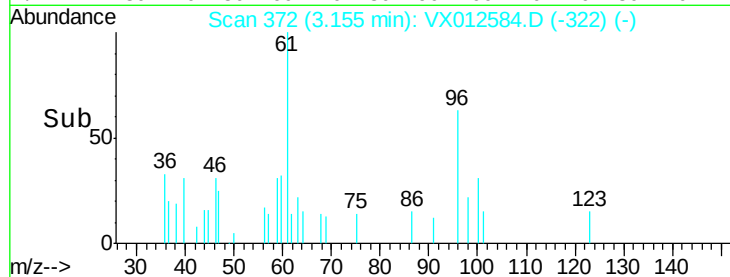
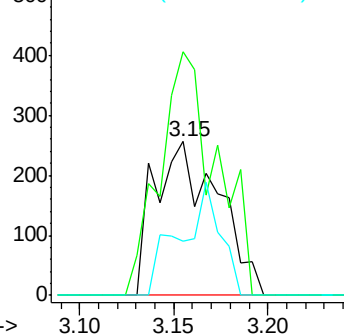
96 100

61 158.6 112.0 168.0

98 35.5 47.8 71.8#



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



#25

2-Butanone

Concen: 0.389 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.00 min

Lab File: VX012584.D

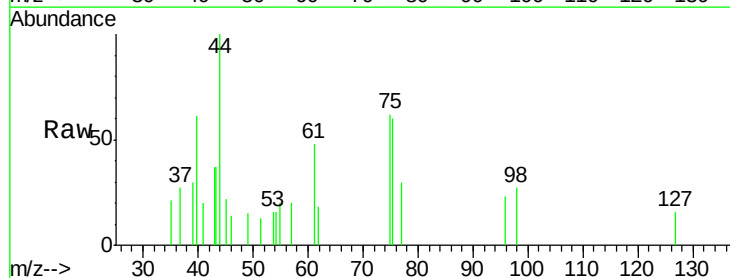
Acq: 21 Sep 2019 02:29

Tgt Ion: 43 Resp: 691

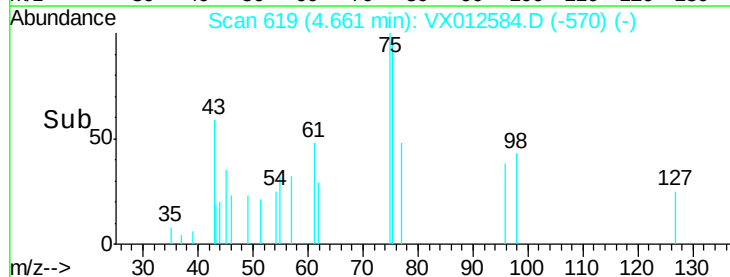
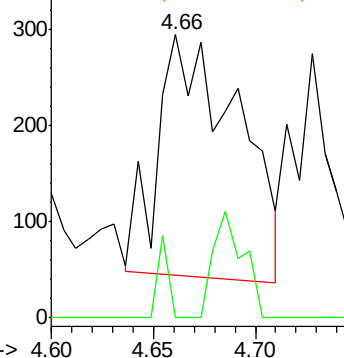
Ion Ratio Lower Upper

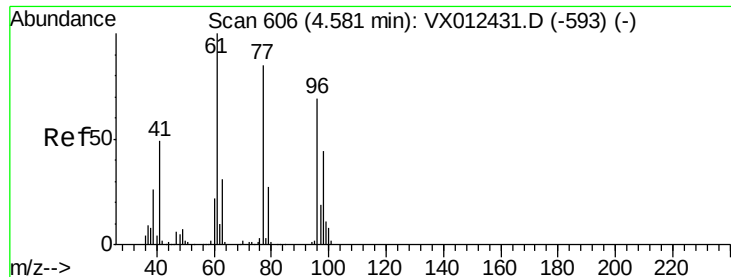
43 100

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



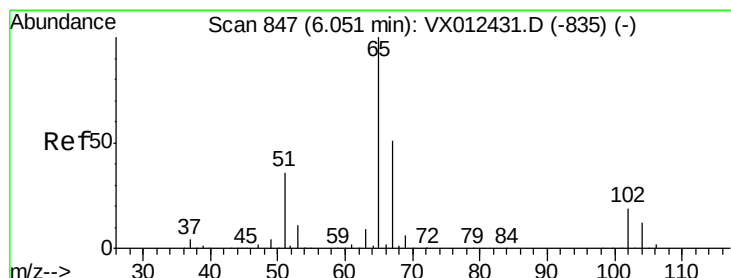
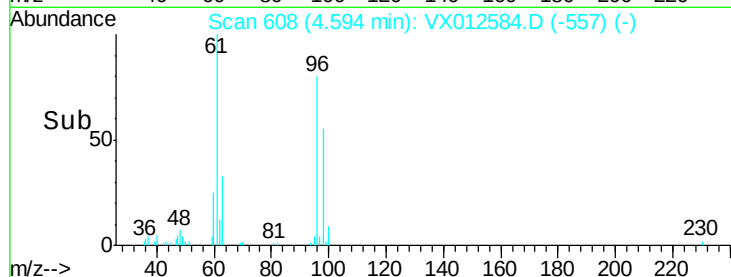
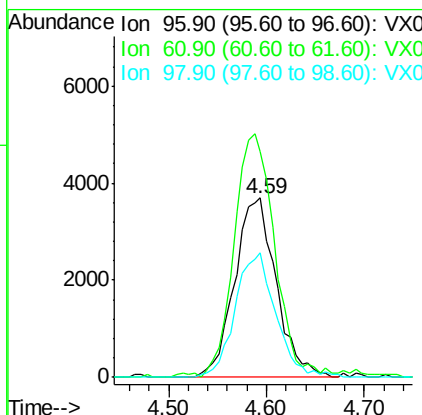
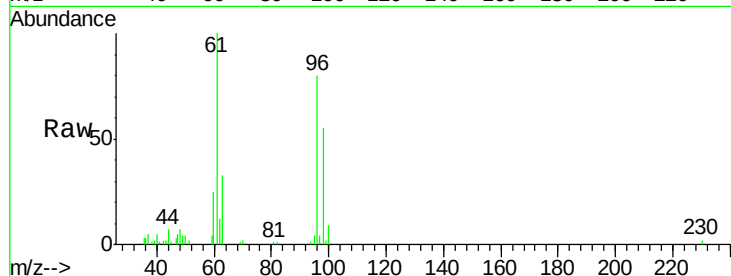


#27

cis-1,2-Dichloroethene
 Concen: 6.258 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX012584.D
 Acq: 21 Sep 2019 02:29

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS037-190916

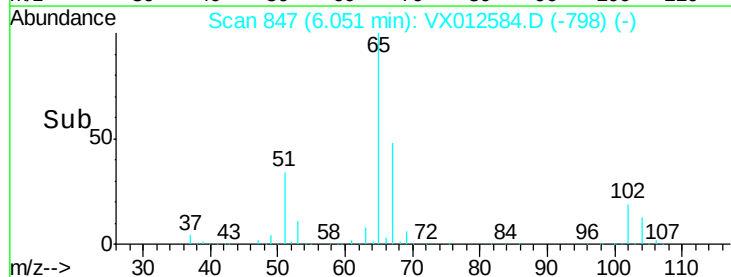
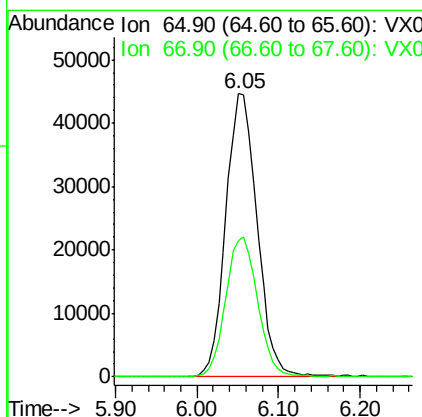
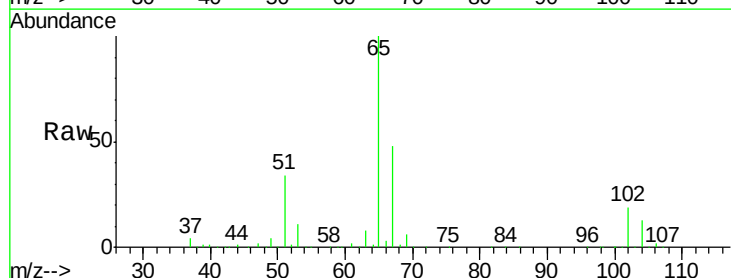
Tot Ion: 96 Resp: 10919
 Ion Ratio Lower Upper
 96 100
 61 132.5 0.0 319.4
 98 67.6 0.0 130.6

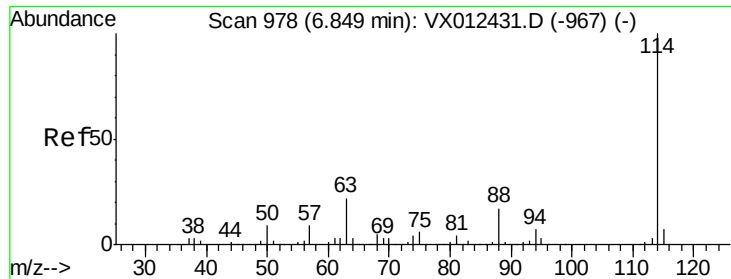


#33

1,2-Dichloroethane-d4
 Concen: 46.271 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012584.D
 Acq: 21 Sep 2019 02:29

Tgt Ion: 65 Resp: 118633
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 101.2

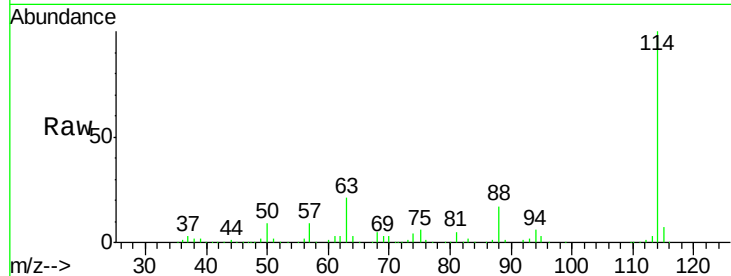




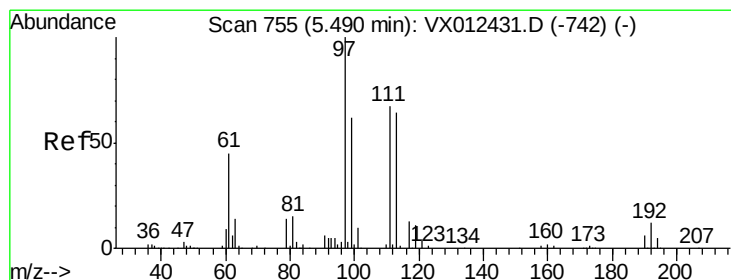
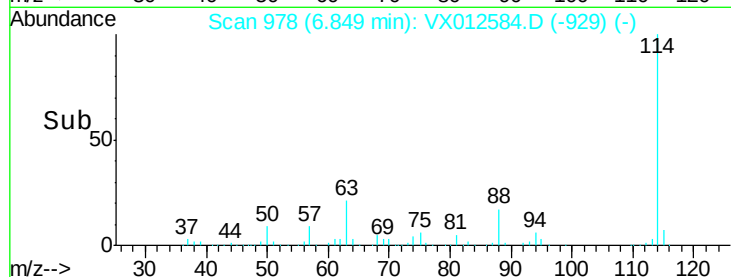
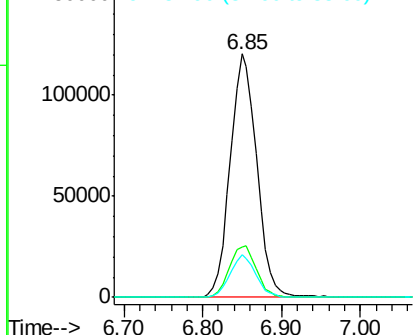
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012584.D
 Acq: 21 Sep 2019 02:29

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS037-190916

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	43.2
88	17.4	0.0	33.2

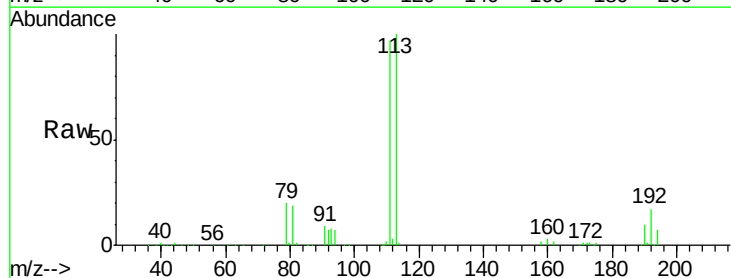


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

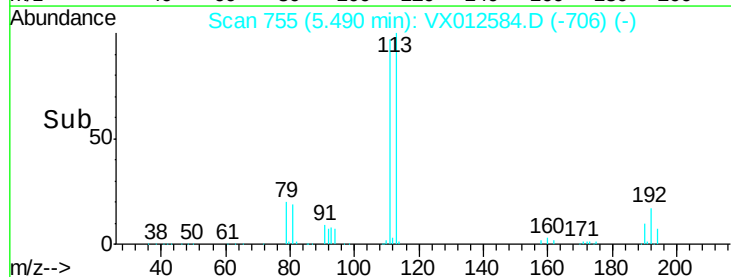
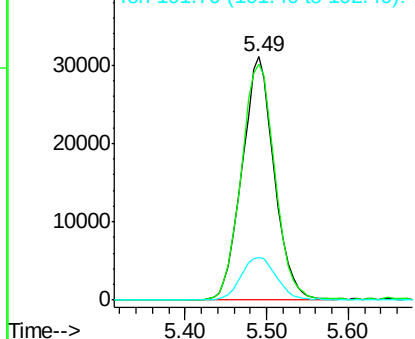


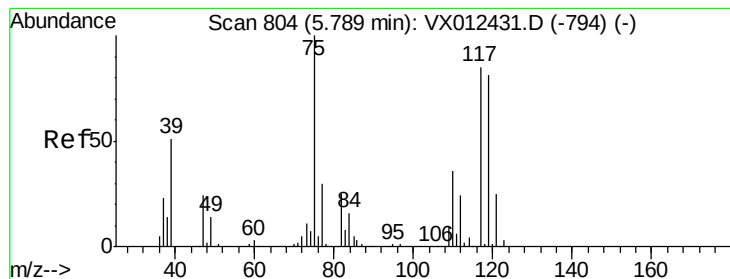
#35
 Dibromofluoromethane
 Concen: 49.843 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012584.D
 Acq: 21 Sep 2019 02:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	83.4	125.2
192	19.3	14.4	21.6



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: 8.452 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-190916

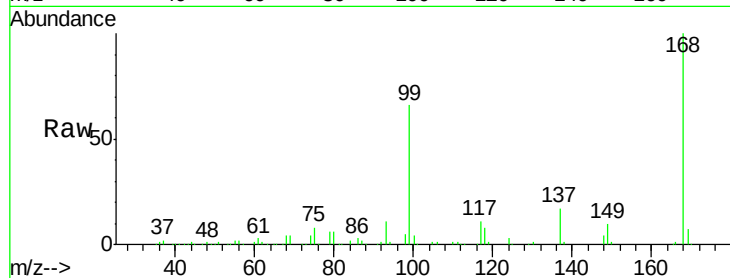
Tot Ion: 75 Resp: 14524

Ion Ratio Lower Upper

75 100

110 9.6 16.7 50.0#

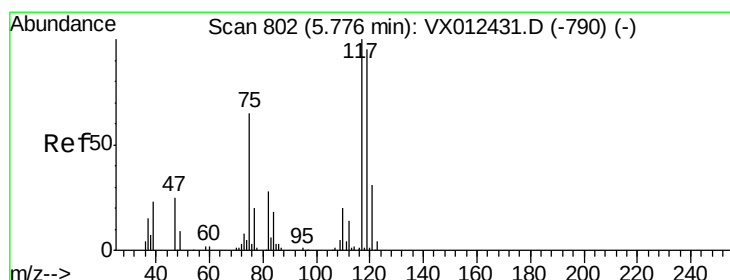
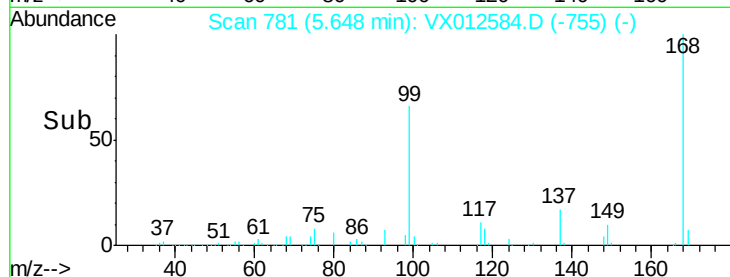
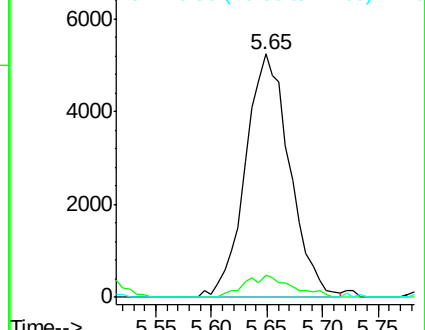
77 0.0 24.2 36.2#



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: 8.765 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

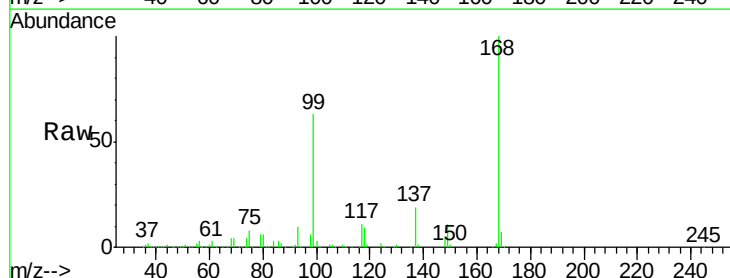
Tgt Ion: 117 Resp: 18733

Ion Ratio Lower Upper

117 100

119 4.8 75.7 113.5#

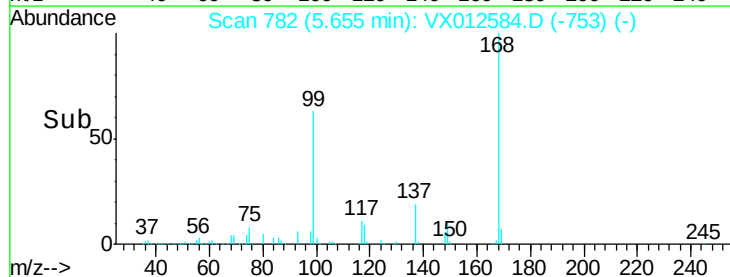
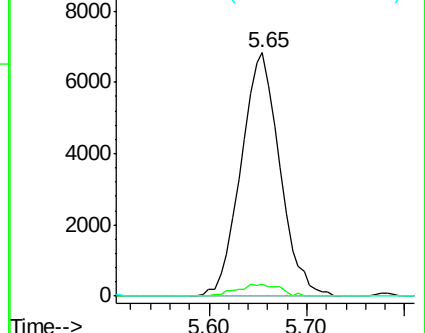
121 0.0 24.2 36.4#

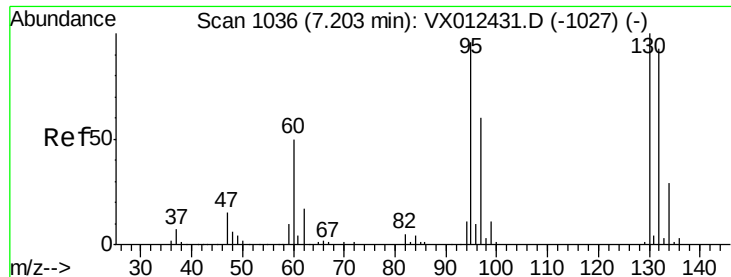


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.207 ug/l

RT: 7.20 min Scan# 1035

Delta R.T. -0.01 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

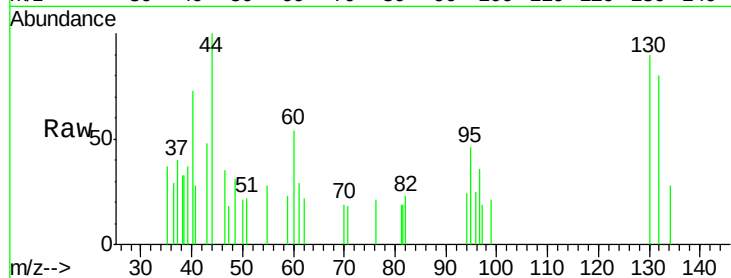
KY038PS037-190916

Tot Ion:130 Resp: 298

Ion Ratio Lower Upper

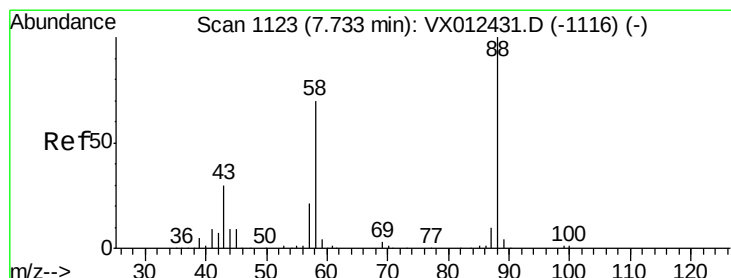
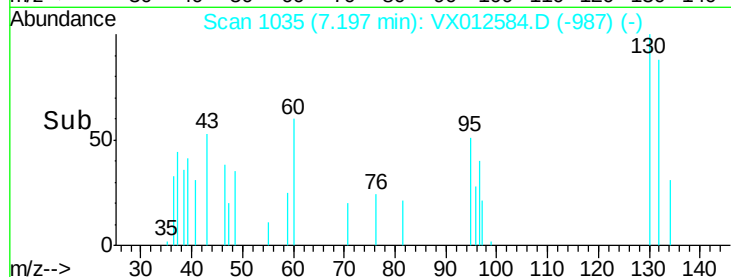
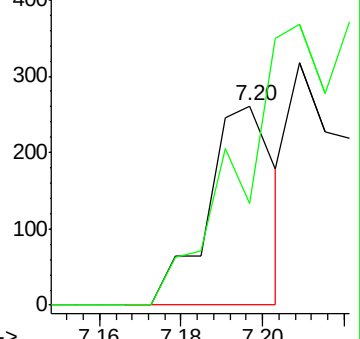
130 100

95 51.0 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.865 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

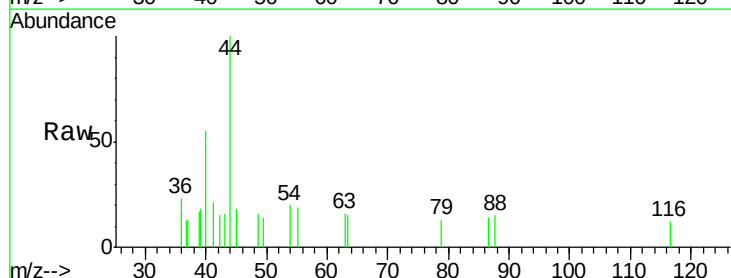
Tgt Ion: 88 Resp: 47

Ion Ratio Lower Upper

88 100

43 361.7 29.4 44.0#

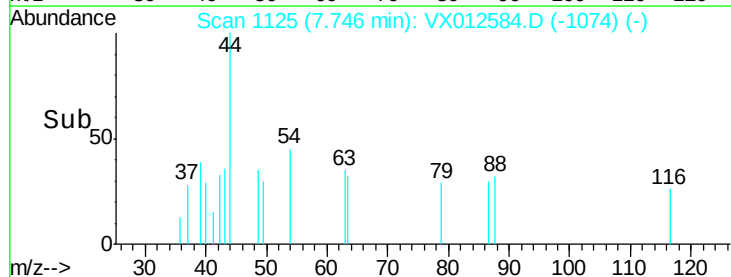
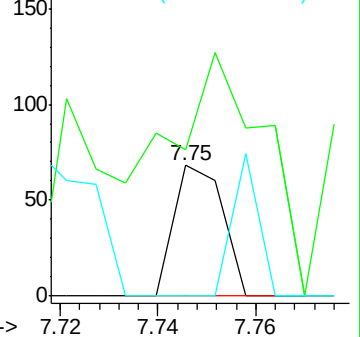
58 57.4 57.5 86.3#

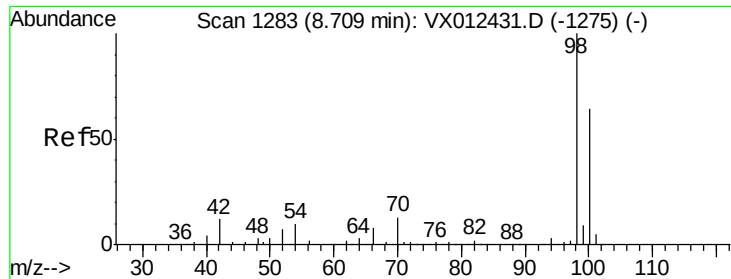


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

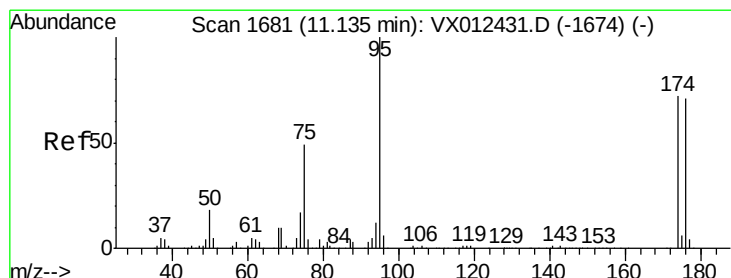
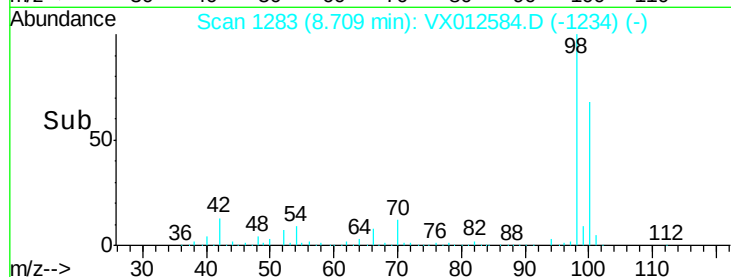
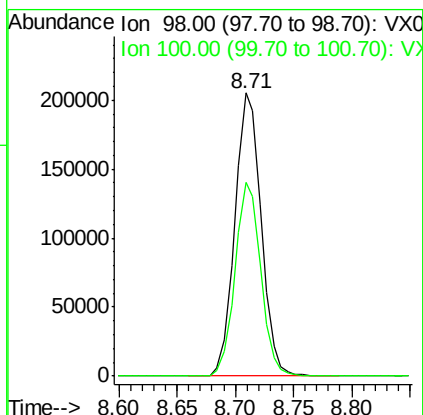
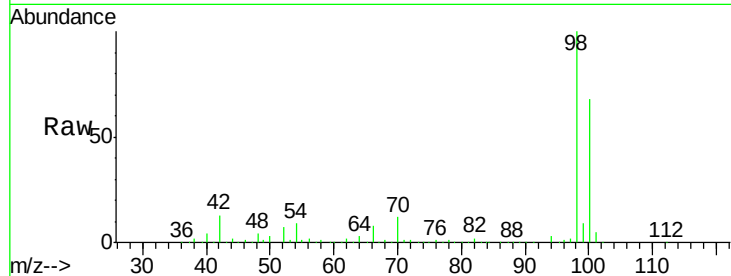




#50
Toluene-d8
Concen: 51.112 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012584.D
Acq: 21 Sep 2019 02:29

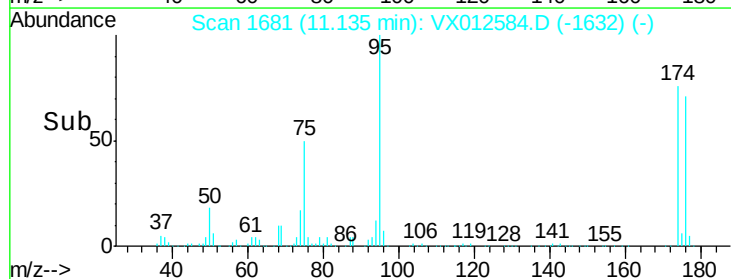
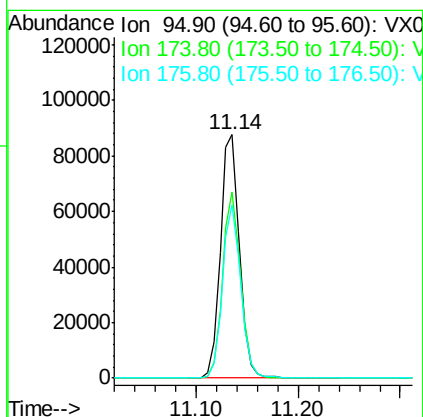
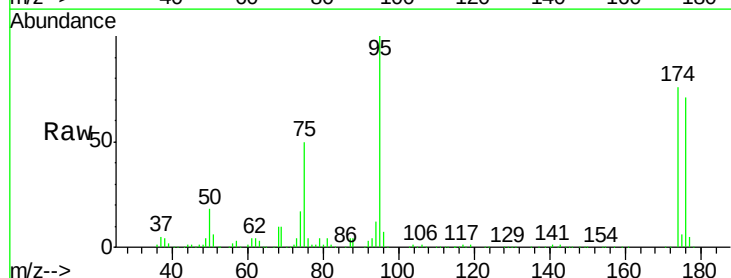
Instrument :
MSVOA_X
ClientSampleId :
KY038PS037-190916

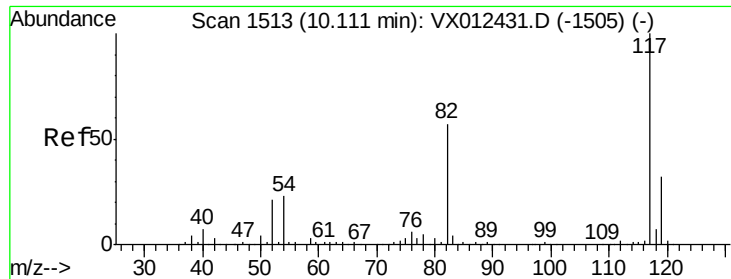
Tot Ion: 98 Resp: 323781
Ion Ratio Lower Upper
98 100
100 67.0 53.4 80.2



#62
4-Bromofluorobenzene
Concen: 43.368 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012584.D
Acq: 21 Sep 2019 02:29

Tgt Ion: 95 Resp: 114066
Ion Ratio Lower Upper
95 100
174 72.7 0.0 140.0
176 68.5 0.0 135.4

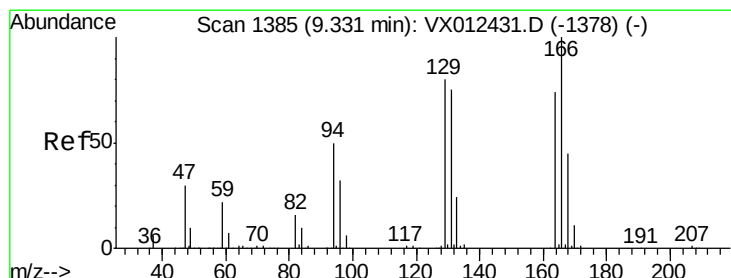
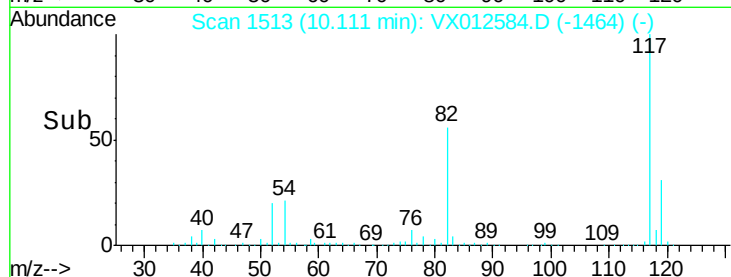
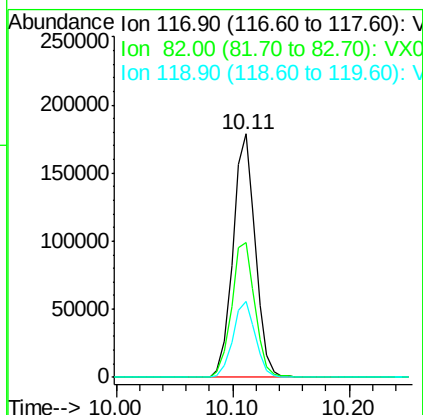
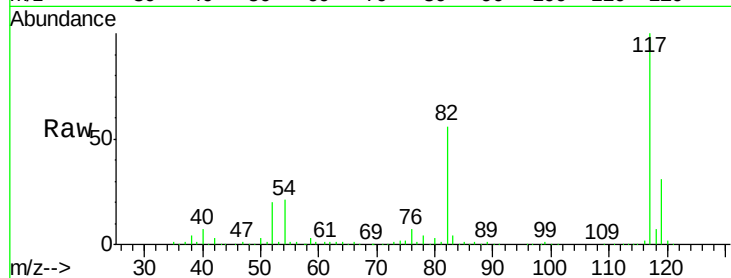




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012584.D
Acq: 21 Sep 2019 02:29

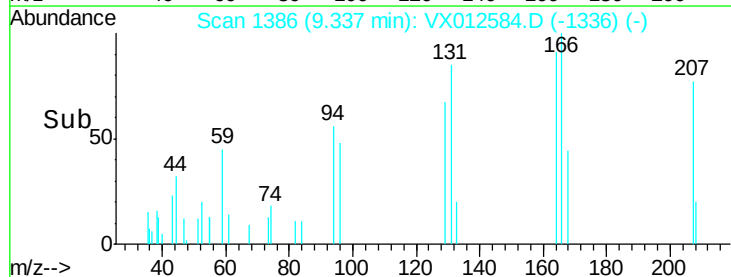
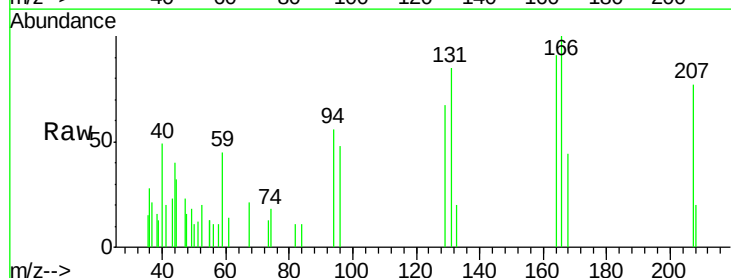
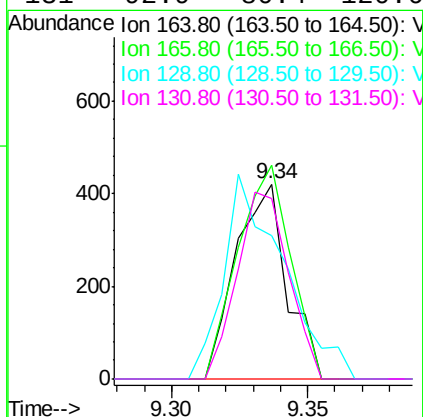
Instrument :
MSVOA_X
ClientSampleId :
KY038PS037-190916

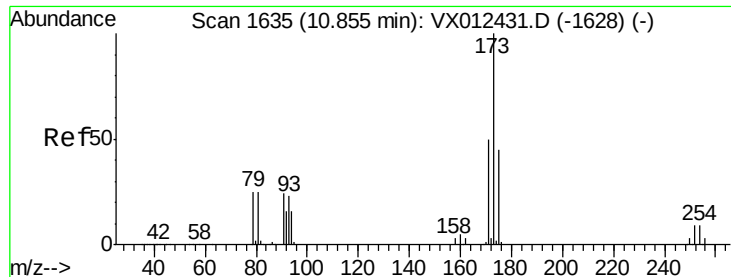
Tot Ion:117 Resp: 238923
Ion Ratio Lower Upper
117 100
82 55.6 45.9 68.9
119 31.1 25.3 37.9



#64
Tetrachloroethene
Concen: 0.501 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX012584.D
Acq: 21 Sep 2019 02:29

Tgt Ion:164 Resp: 548
Ion Ratio Lower Upper
164 100
166 109.5 107.8 161.6
129 73.4 86.2 129.2#
131 92.9 80.4 120.6





#71

Bromoform

Concen: 3.013 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.27 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-190916

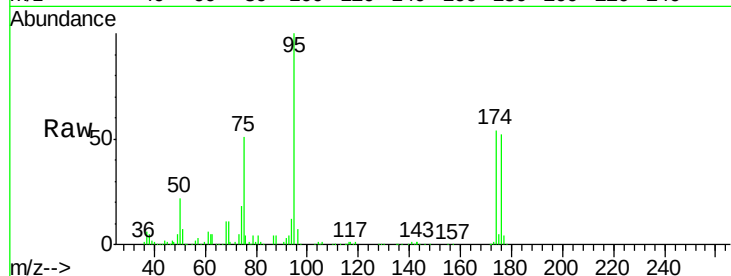
Tot Ion:173 Resp: 214

Ion Ratio Lower Upper

173 100

175 0.0 23.7 71.1#

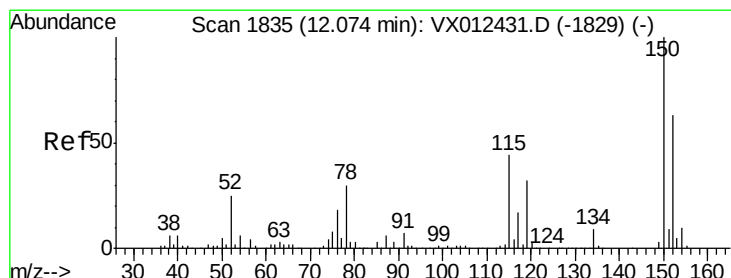
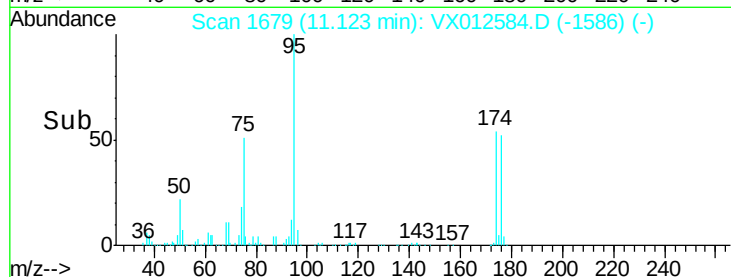
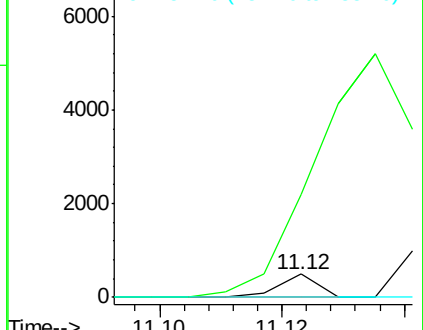
254 0.0 0.1 0.1#



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: VX012584.D

Acq: 21 Sep 2019 02:29

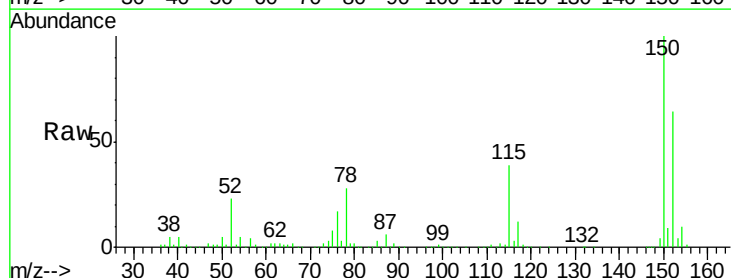
Tgt Ion:152 Resp: 95401

Ion Ratio Lower Upper

152 100

115 62.1 44.1 132.3

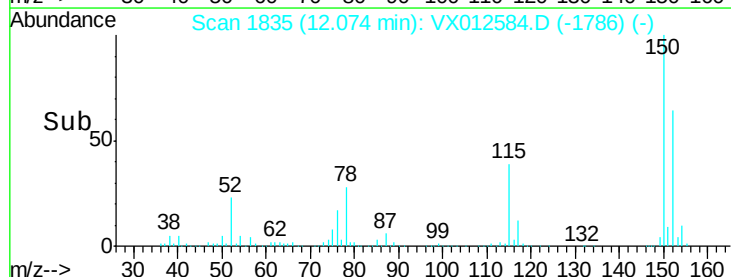
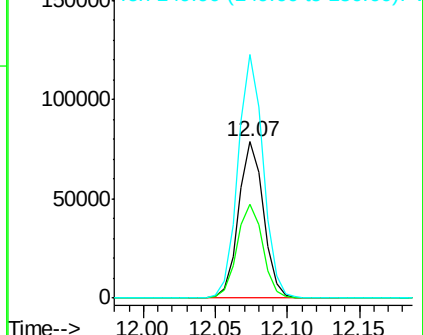
150 157.2 0.0 343.8

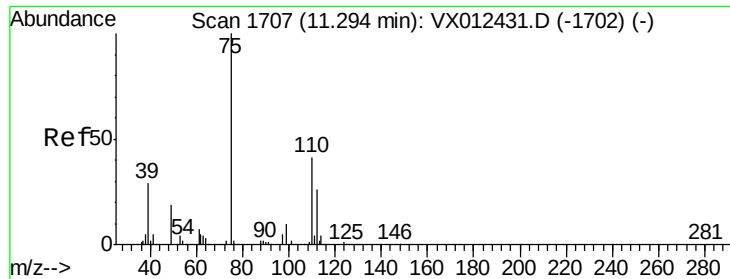


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.887 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

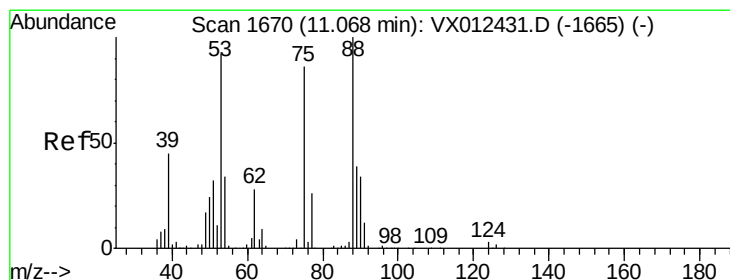
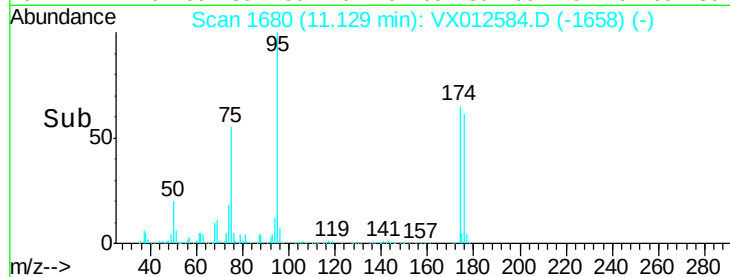
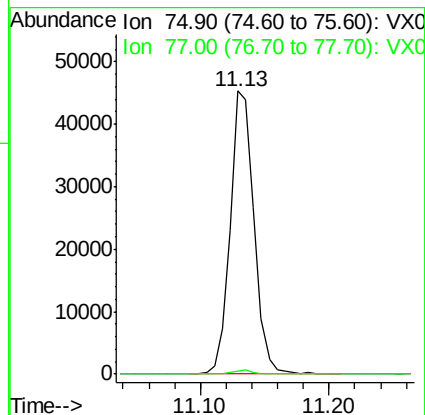
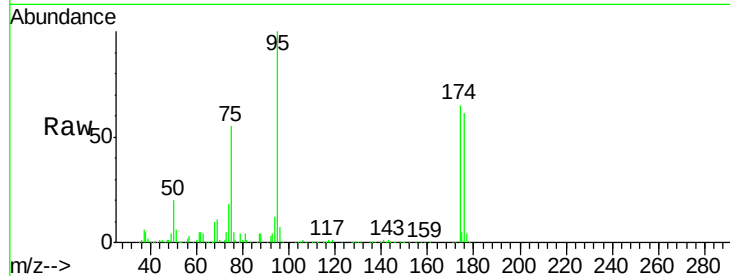
KY038PS037-190916

Tot Ion: 75 Resp: 58922

Ion Ratio Lower Upper

75 100

77 1.4 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.341 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012584.D

Acq: 21 Sep 2019 02:29

Tgt Ion: 75 Resp: 58922

Ion Ratio Lower Upper

75 100

53 0.2 83.6 125.4#

89 0.0 36.3 54.5#

