

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VOX092019\
 Data File : VX012586.D
 Acq On : 21 Sep 2019 03:16
 Operator : JC/SP
 Sample : K4930-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS036-190916

Quant Time: Sep 21 04:04:08 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	176375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	279375	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	231968	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	89324	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	117395	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	
35) Dibromofluoromethane	5.49	113	86099	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
50) Toluene-d8	8.71	98	320052	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	
62) 4-Bromofluorobenzene	11.14	95	107790	41.48	ug/l	0.00
Spiked Amount			Recovery	=	82.96%	

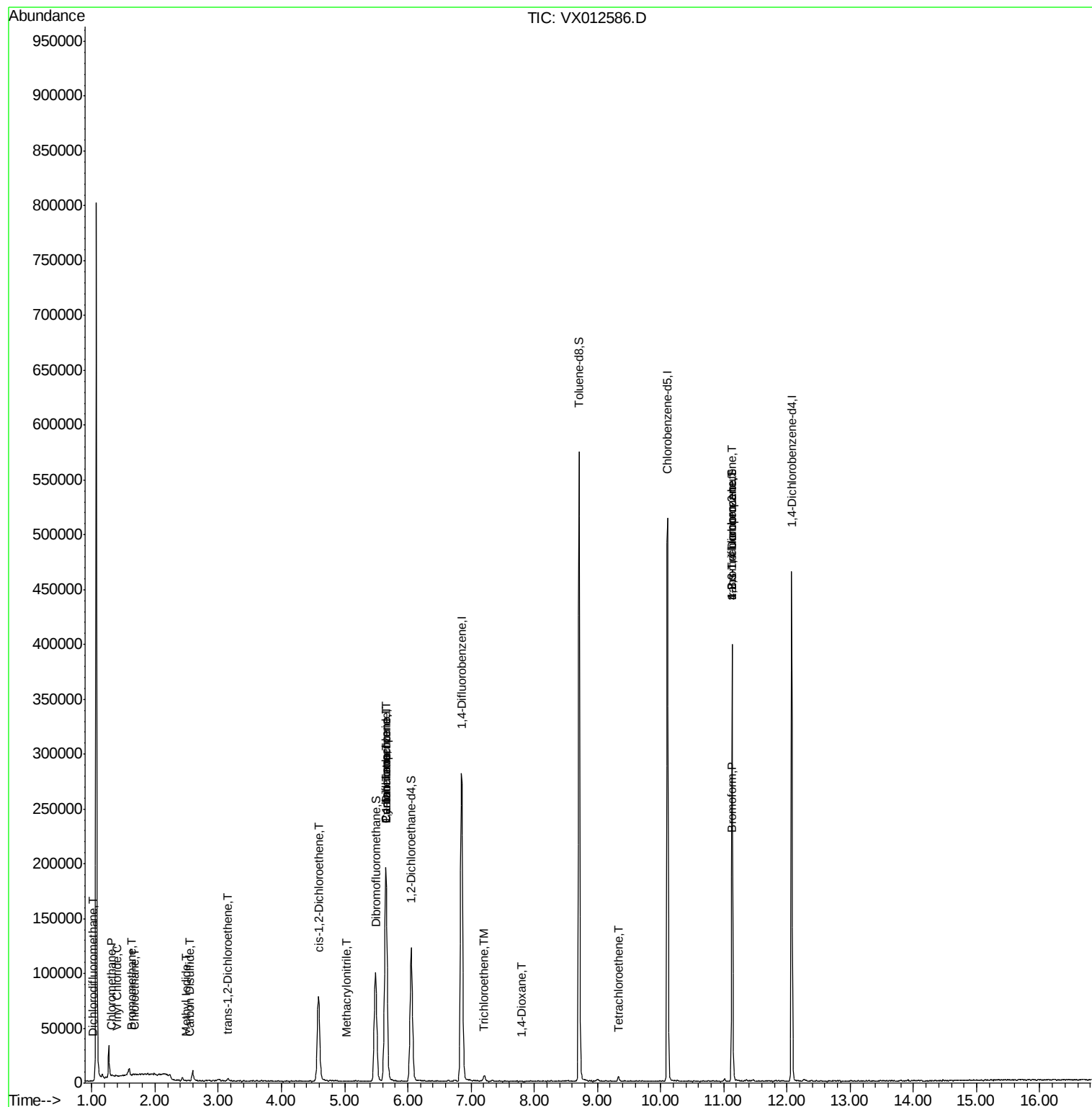
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.02	85	22	0.410	ug/l #	43
3) Chloromethane	1.31	50	973	1.003	ug/l	89
4) Vinyl Chloride	1.40	62	255	0.243	ug/l #	84
5) Bromomethane	1.64	94	331	0.804	ug/l #	45
6) Chloroethane	1.67	64	274	0.334	ug/l #	45
10) Methyl Iodide	2.50	142	114	4.529	ug/l #	35
11) Tert butyl alcohol	3.06	59	60	Below Cal	#	1
13) Acrolein	2.27	56	95	Below Cal	#	15
16) Acetone	2.43	43	2771	Below Cal	#	63
17) Carbon Disulfide	2.55	76	23	1.821	ug/l #	18
21) trans-1,2-Dichloroethene	3.16	96	883	0.767	ug/l #	64
27) cis-1,2-Dichloroethene	4.59	96	48208	28.025	ug/l	85
31) Cyclohexane	5.65	56	4308	2.468	ug/l #	25
36) 1,1-Dichloropropene	5.65	75	14345	8.449	ug/l #	53
38) Carbon Tetrachloride	5.65	117	19133	9.060	ug/l #	17
41) Methacrylonitrile	5.03	41	338	0.201	ug/l #	35
44) Trichloroethene	7.21	130	1816	1.279	ug/l	96
49) 1,4-Dioxane	7.80	88	23	0.429	ug/l #	1
64) Tetrachloroethene	9.34	164	685	0.644	ug/l #	53
71) Bromoform	11.12	173	77	2.923	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	57979	28.257	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	57979	75.869	ug/l #	8

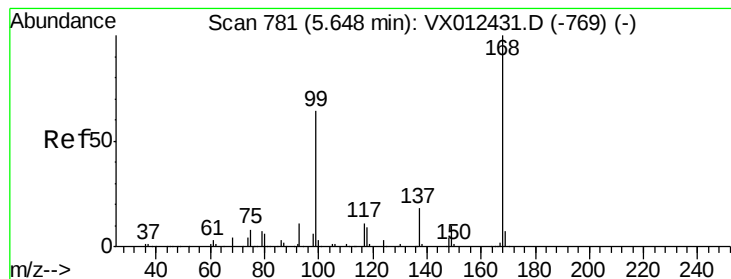
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

Instrument :

MSVOA_X

ClientSampleId :

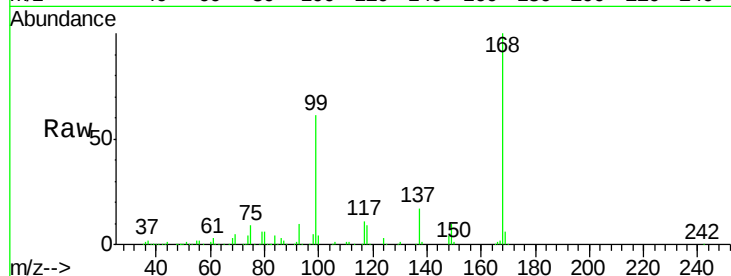
KY038PS036-190916

Tot Ion:168 Resp: 176375

Ion Ratio Lower Upper

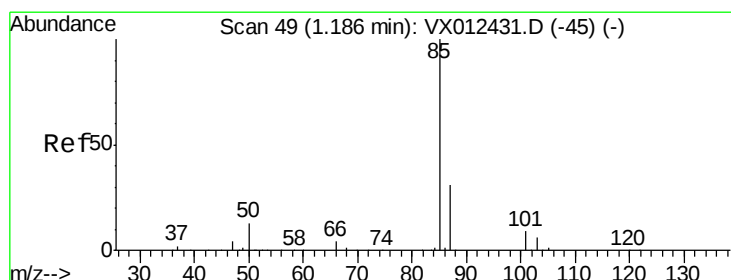
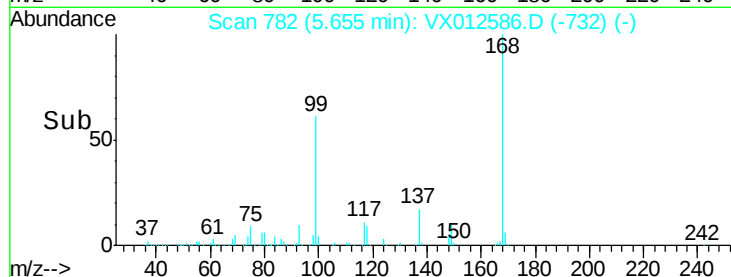
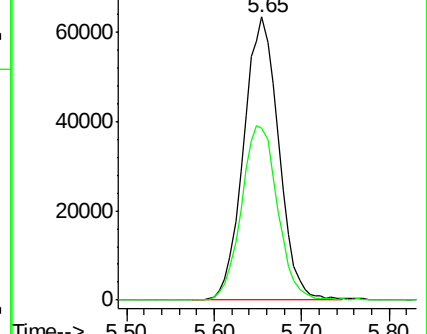
168 100

99 61.0 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: 0.410 ug/l

RT: 1.02 min Scan# 21

Delta R.T. -0.17 min

Lab File: VX012586.D

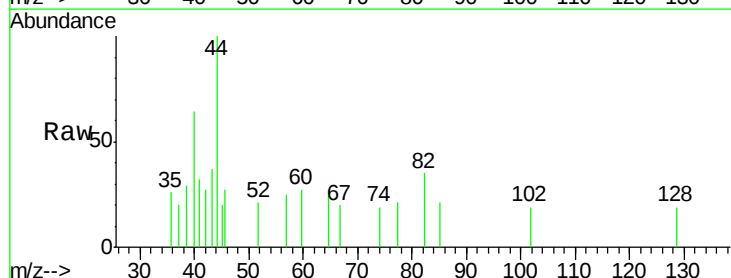
Acq: 21 Sep 2019 03:16

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

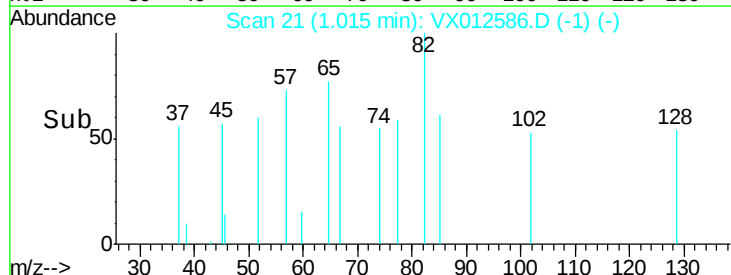
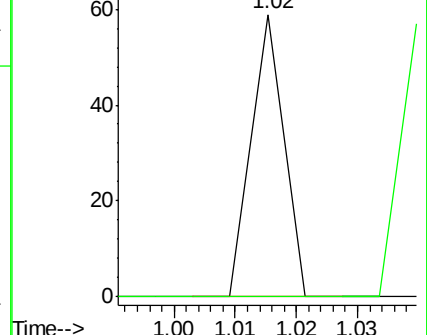
85 100

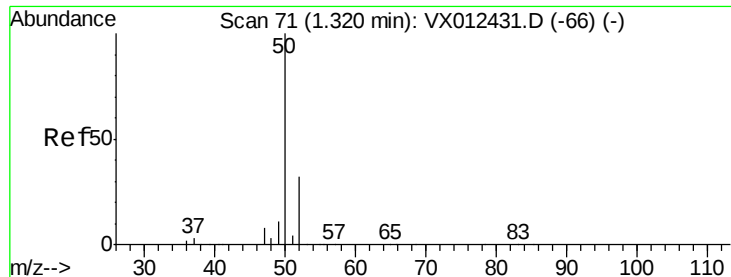
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 1.003 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

Instrument :

MSVOA_X

ClientSampleId :

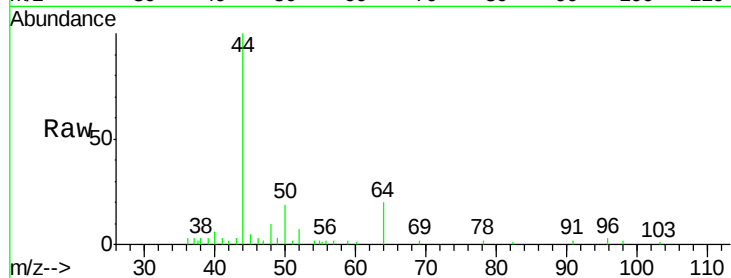
KY038PS036-190916

Tot Ion: 50 Resp: 973

Ion Ratio Lower Upper

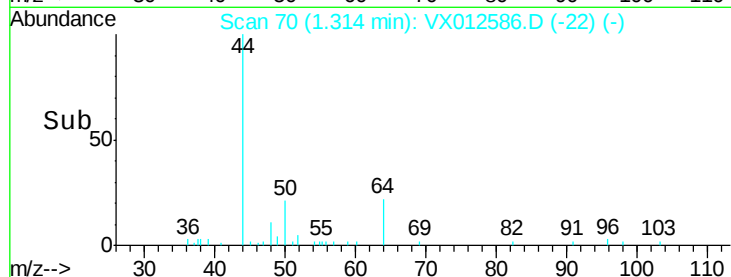
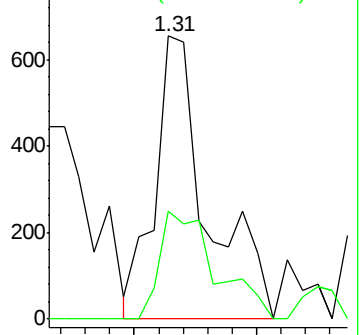
50 100

52 38.2 25.7 38.5

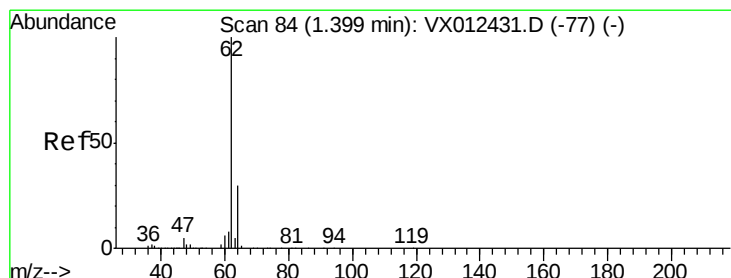


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#4

Vinyl Chloride

Concen: 0.243 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012586.D

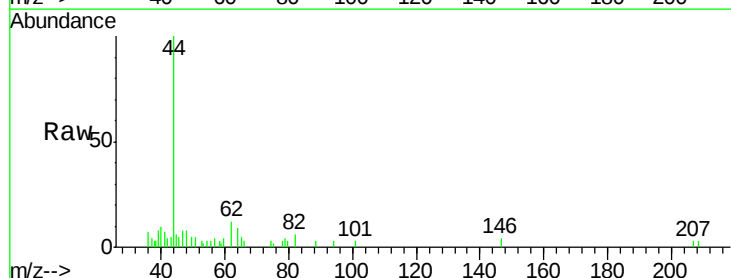
Acq: 21 Sep 2019 03:16

Tgt Ion: 62 Resp: 255

Ion Ratio Lower Upper

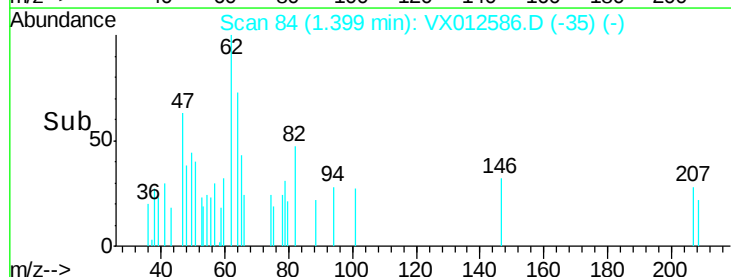
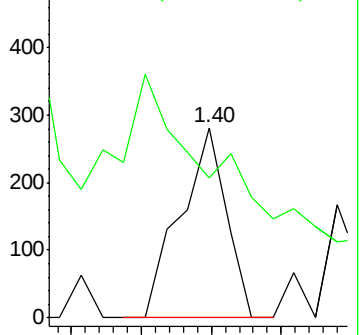
62 100

64 21.6 24.2 36.2#

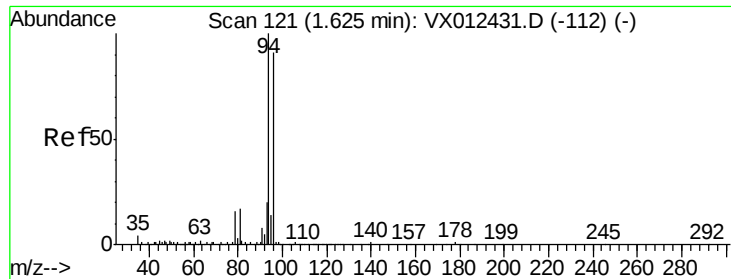


Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



Time-->



#5

Bromomethane

Concen: 0.804 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

Instrument :

MSVOA_X

ClientSampleId :

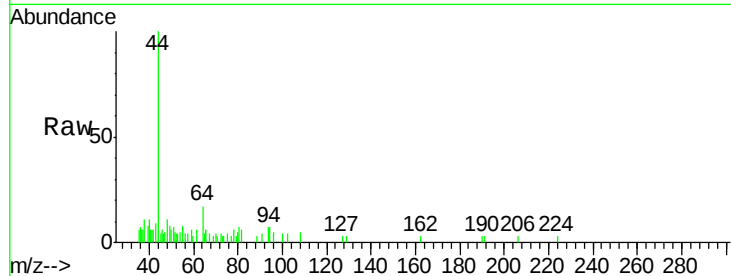
KY038PS036-190916

Tot Ion: 94 Resp: 331

Ion Ratio Lower Upper

94 100

96 38.6 72.8 109.2#

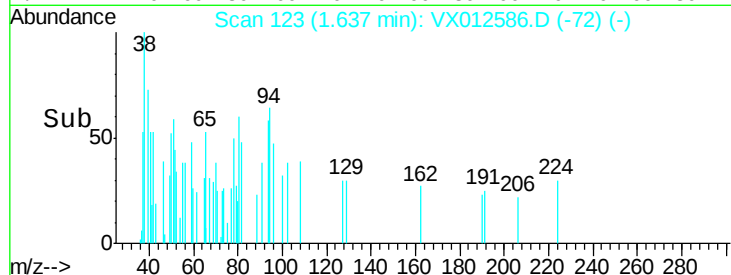


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

Time-->

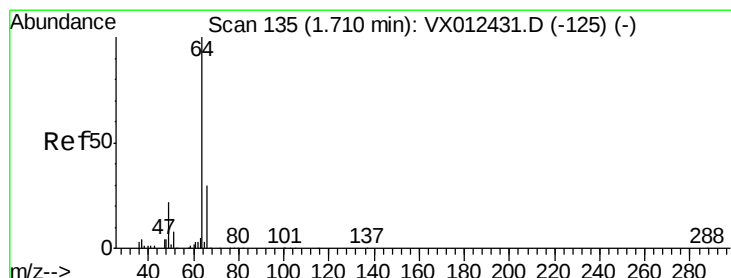


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

Time-->



#6

Chloroethane

Concen: 0.334 ug/l

RT: 1.67 min Scan# 129

Delta R.T. -0.04 min

Lab File: VX012586.D

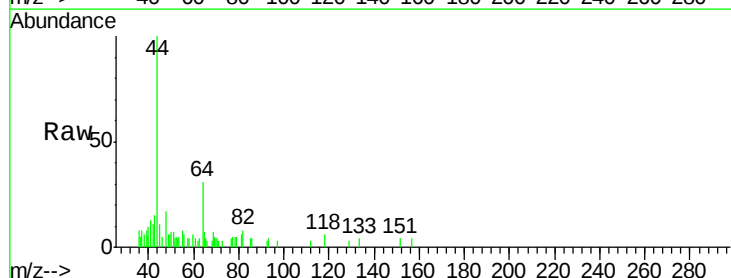
Acq: 21 Sep 2019 03:16

Tgt Ion: 64 Resp: 274

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#

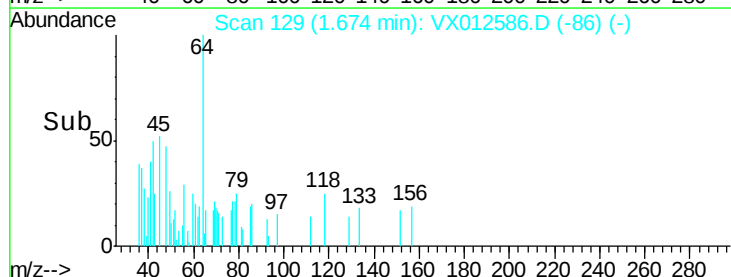


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.67

Time-->

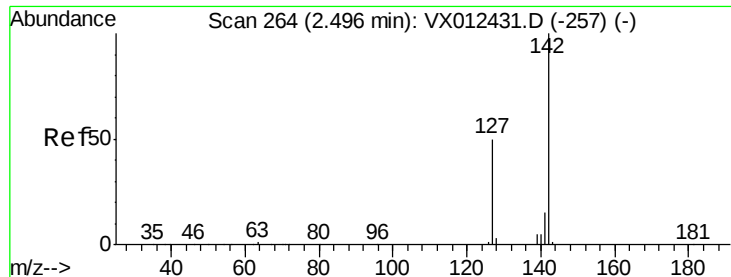


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.67

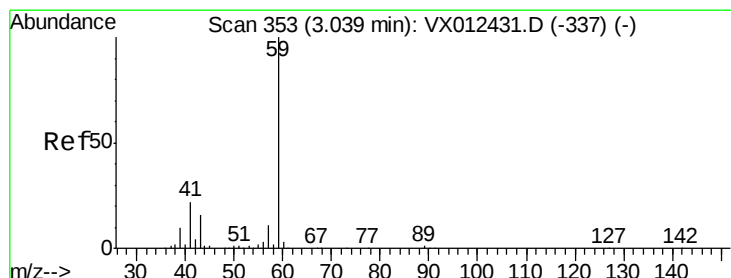
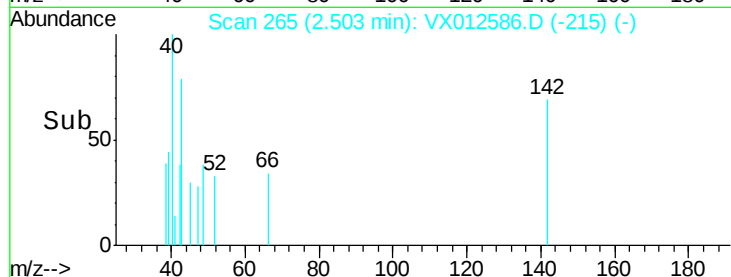
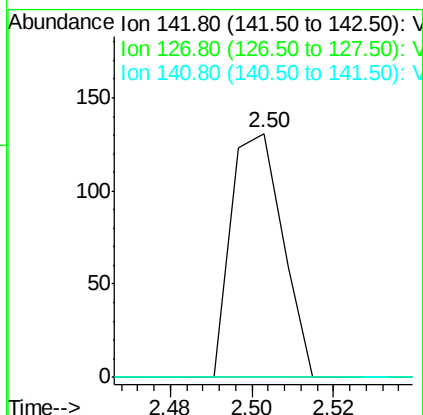
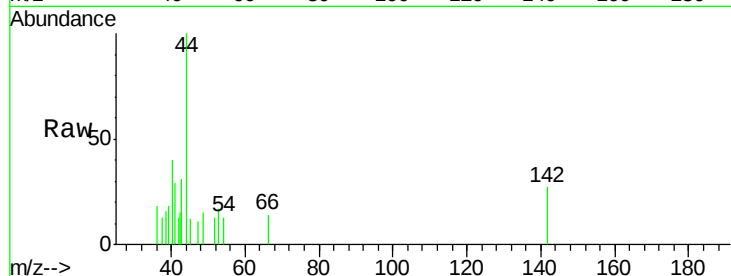
Time-->



#10
Methyl Iodide
Concen: 4.529 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX012586.D
Acq: 21 Sep 2019 03:16

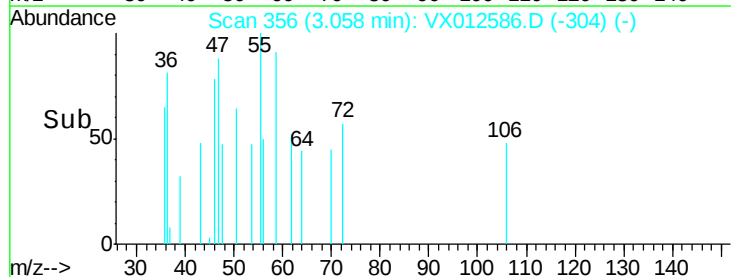
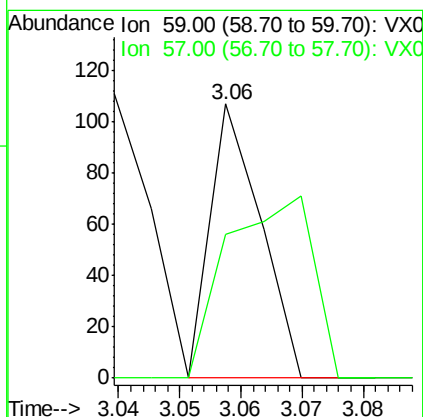
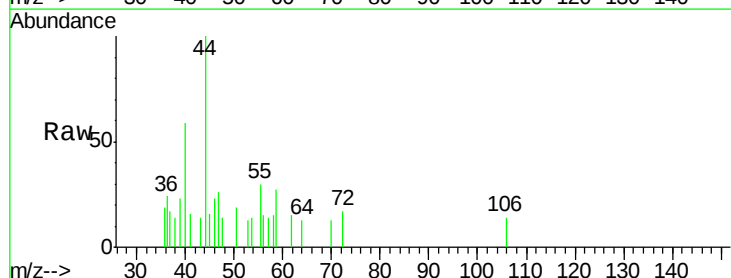
Instrument :
MSVOA_X
ClientSampleId :
KY038PS036-190916

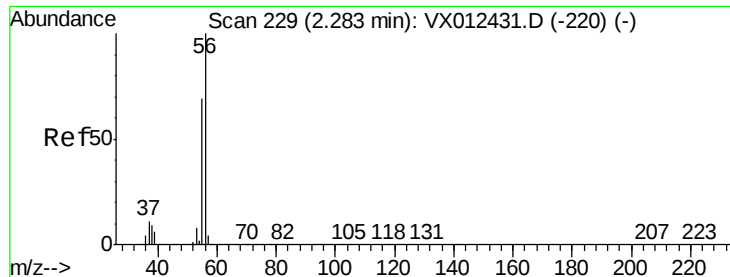
Tot Ion:142 Resp: 114
Ion Ratio Lower Upper
142 100
127 0.0 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.06 min Scan# 356
Delta R.T. 0.02 min
Lab File: VX012586.D
Acq: 21 Sep 2019 03:16

Tgt Ion: 59 Resp: 60
Ion Ratio Lower Upper
59 100
57 115.0 8.3 12.5#





#13

Acrolein

Concen: Below Cal

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

Instrument :

MSVOA_X

ClientSampleId :

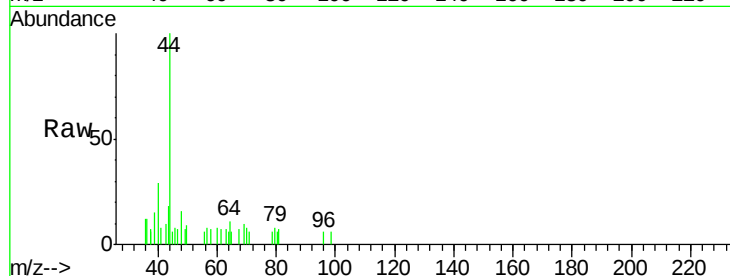
KY038PS036-190916

Tot Ion: 56 Resp: 95

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.27

150

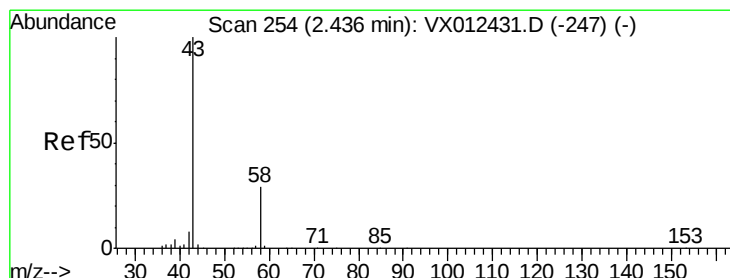
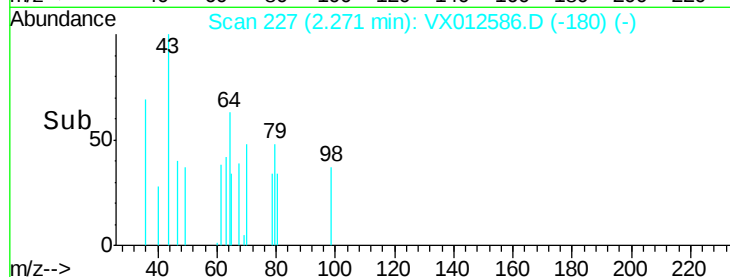
100

50

0

2.26 2.27 2.28

Time-->



#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012586.D

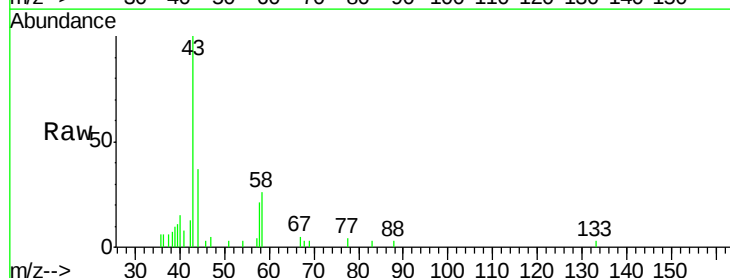
Acq: 21 Sep 2019 03:16

Tgt Ion: 43 Resp: 2771

Ion Ratio Lower Upper

43 100

58 48.7 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

2000

1500

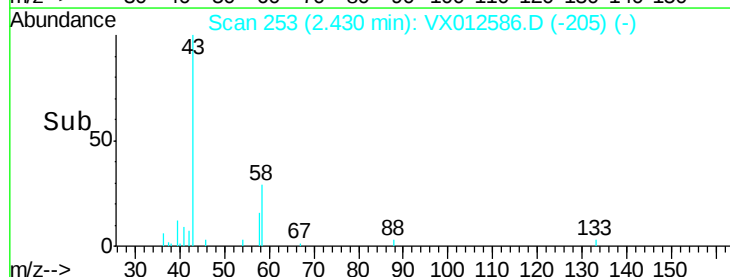
1000

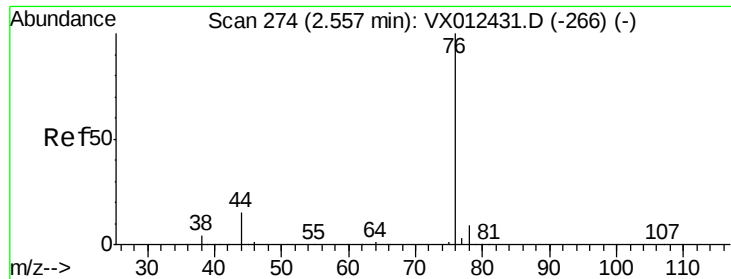
500

0

2.30 2.35 2.40 2.45 2.50

Time-->





#17

Carbon Disulfide

Concen: 1.821 ug/l

RT: 2.55 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

Instrument :

MSVOA_X

ClientSampleId :

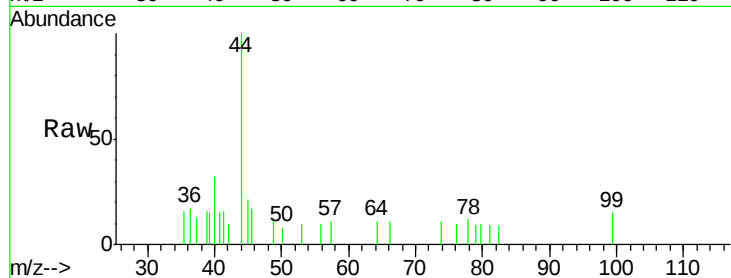
KY038PS036-190916

Tot Ion: 76 Resp: 23

Ion Ratio Lower Upper

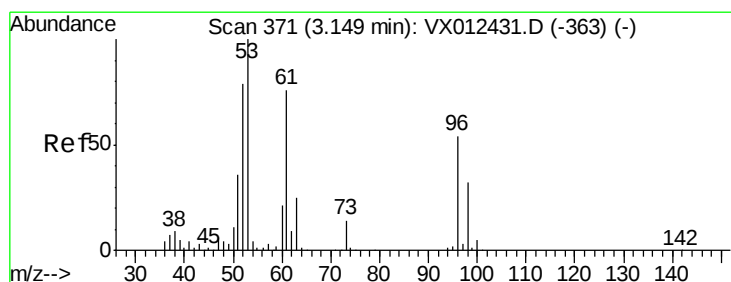
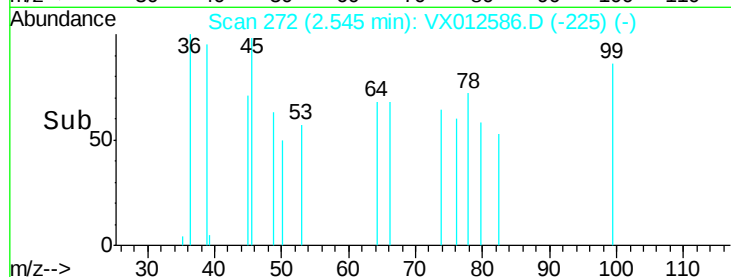
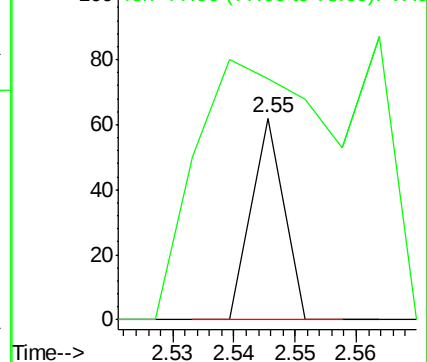
76 100

78 38.7 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.767 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

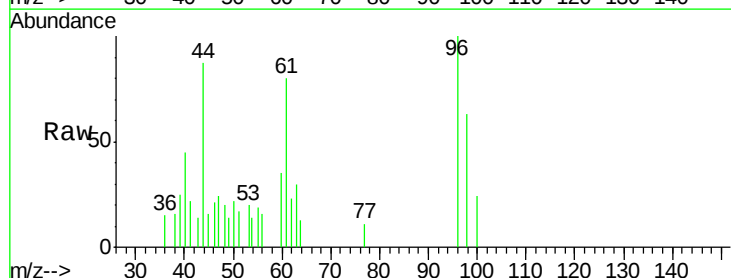
Tgt Ion: 96 Resp: 883

Ion Ratio Lower Upper

96 100

61 80.2 112.0 168.0#

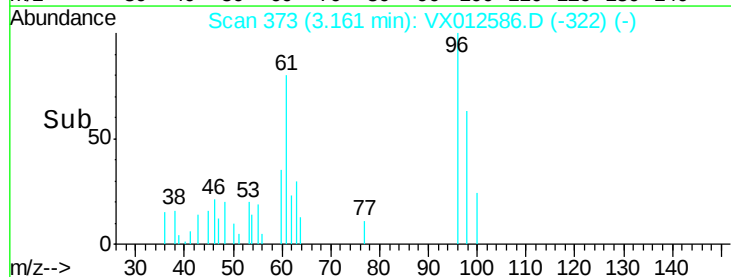
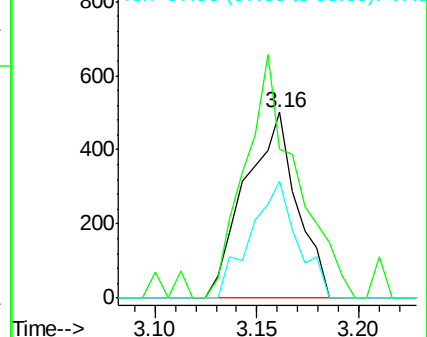
98 63.3 47.8 71.8

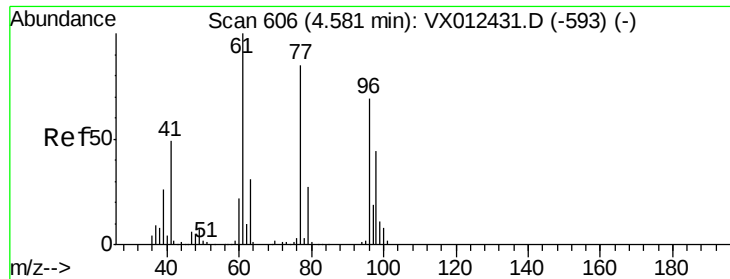


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



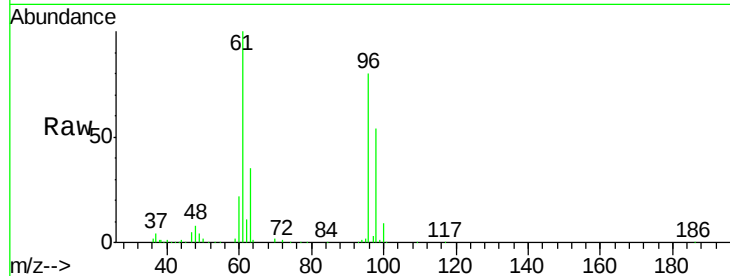


#27

cis-1,2-Dichloroethene
 Concen: 28.025 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX012586.D
 Acq: 21 Sep 2019 03:16

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS036-190916

Tot Ion	96	Resp	48208
Ion	Ratio	Lower	Upper
96	100		
61	131.6	0.0	319.4
98	65.7	0.0	130.6

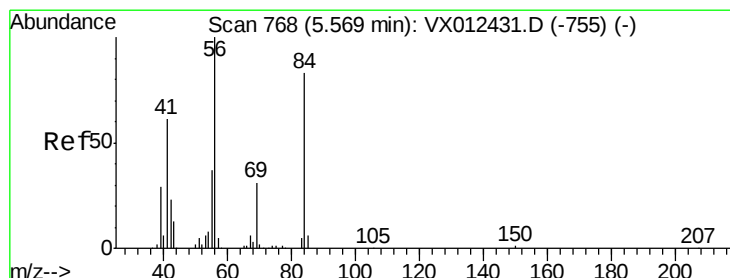
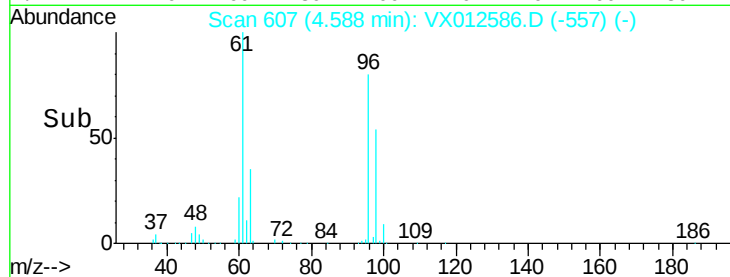
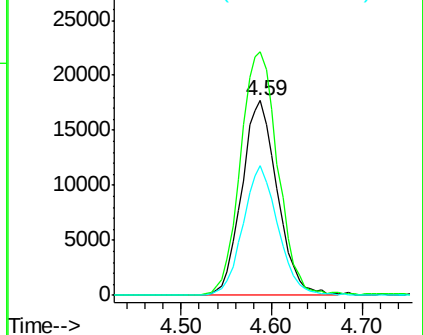


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

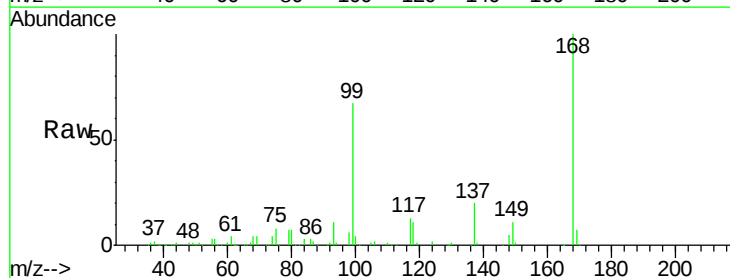
Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane
 Concen: 2.468 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. 0.08 min
 Lab File: VX012586.D
 Acq: 21 Sep 2019 03:16

Tgt Ion	56	Resp	4308
Ion	Ratio	Lower	Upper
56	100		
69	154.5	25.0	37.6#
84	100.7	66.4	99.6#

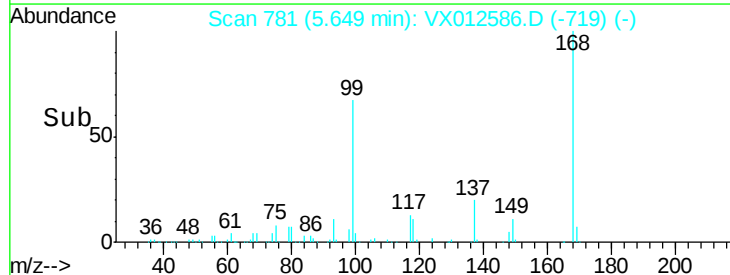
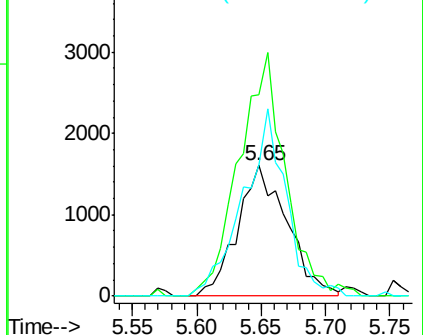


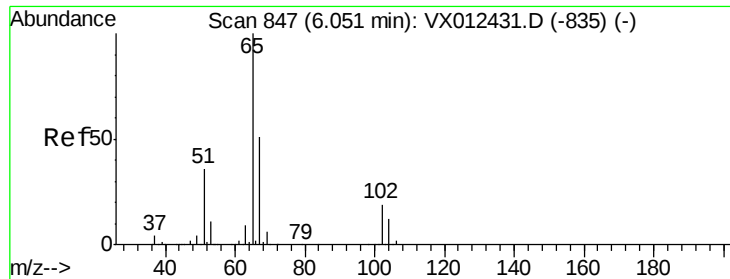
Abundance

Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

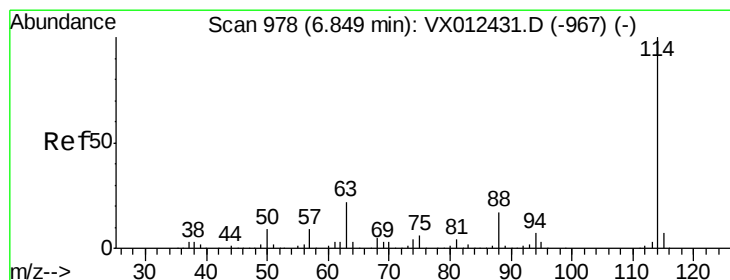
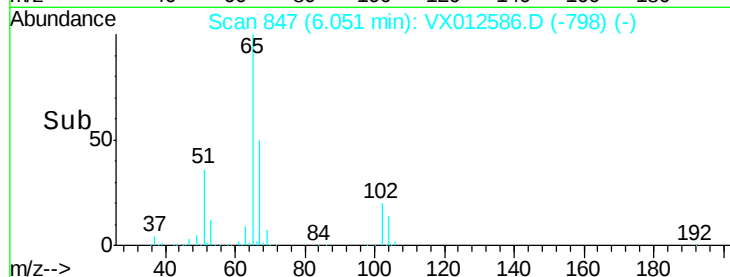
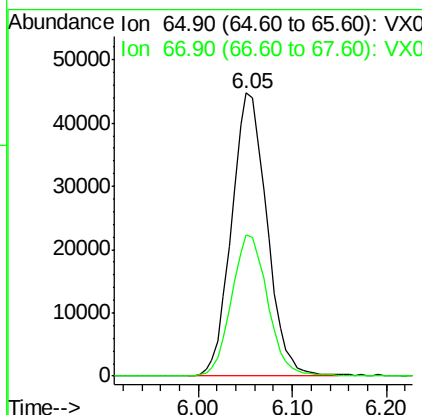
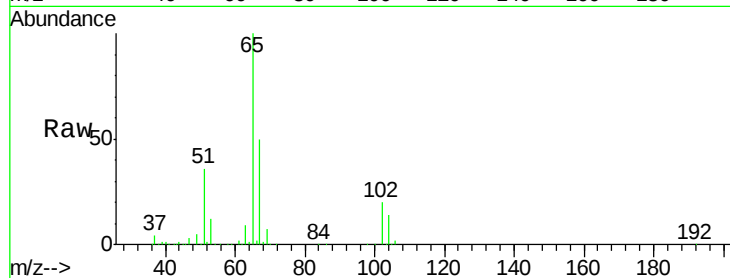




#33
 1,2-Dichloroethane-d4
 Concen: 46.441 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012586.D
 Acq: 21 Sep 2019 03:16

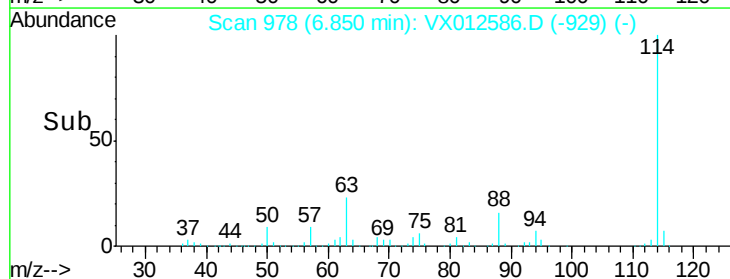
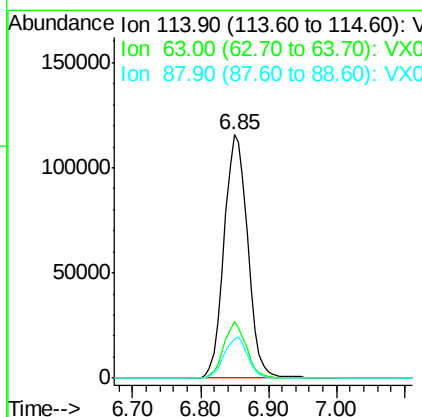
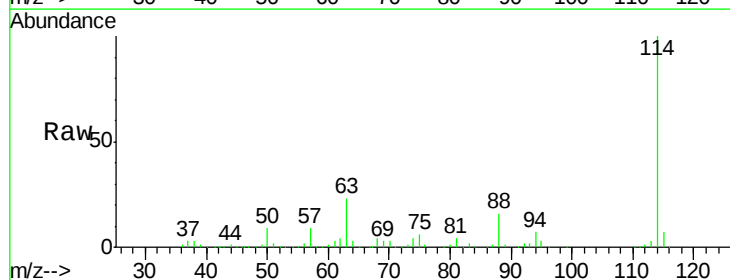
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS036-190916

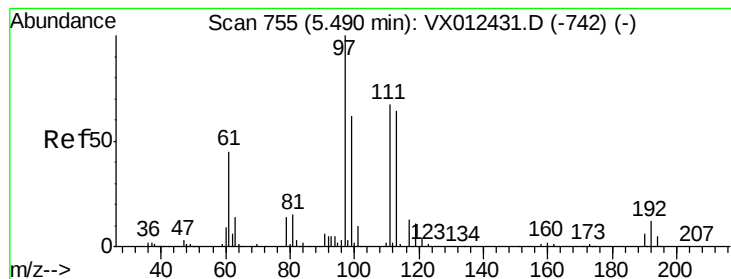
Tot Ion: 65 Resp: 117395
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012586.D
 Acq: 21 Sep 2019 03:16

Tgt Ion: 114 Resp: 279375
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 43.2
 88 16.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.918 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

Instrument :

MSVOA_X

ClientSampleId :

KY038PS036-190916

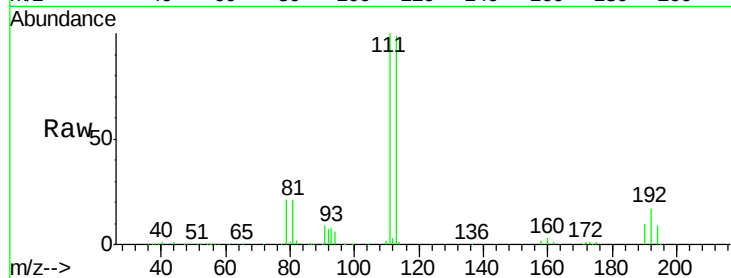
Tot Ion:113 Resp: 86099

Ion Ratio Lower Upper

113 100

111 101.6 83.4 125.2

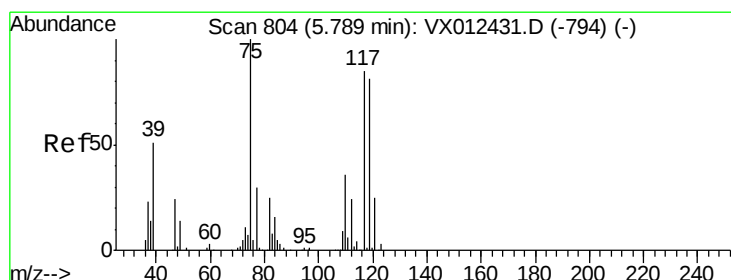
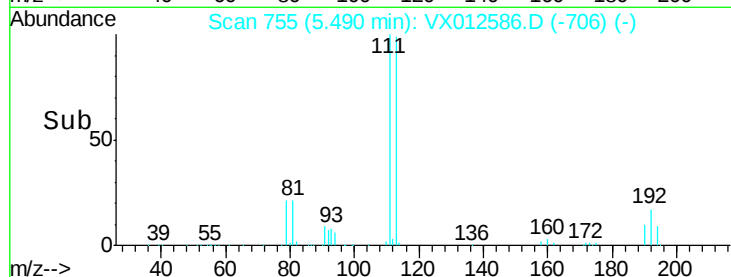
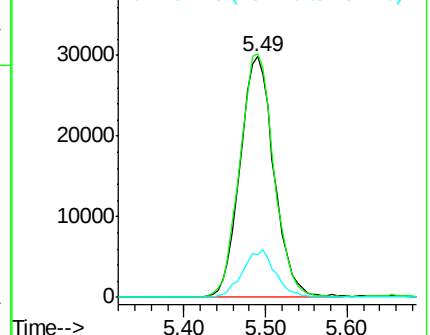
192 18.8 14.4 21.6



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: 8.449 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

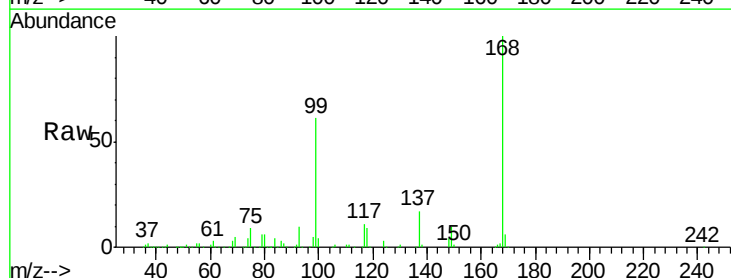
Tgt Ion: 75 Resp: 14345

Ion Ratio Lower Upper

75 100

110 10.5 16.7 50.0#

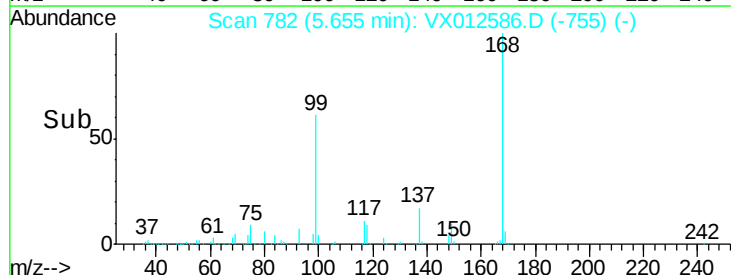
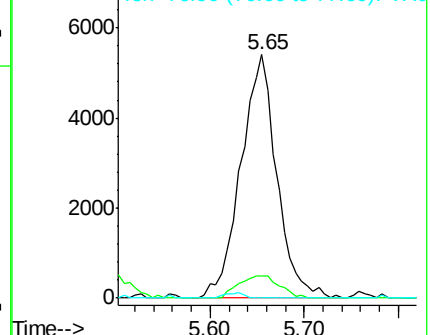
77 0.0 24.2 36.2#

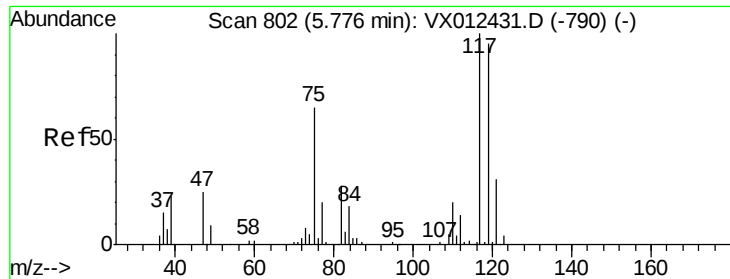


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 9.060 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

Instrument :

MSVOA_X

ClientSampleId :

KY038PS036-190916

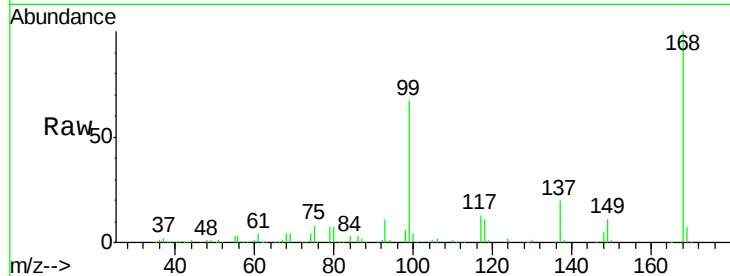
Tot Ion:117 Resp: 19133

Ion Ratio Lower Upper

117 100

119 5.9 75.7 113.5#

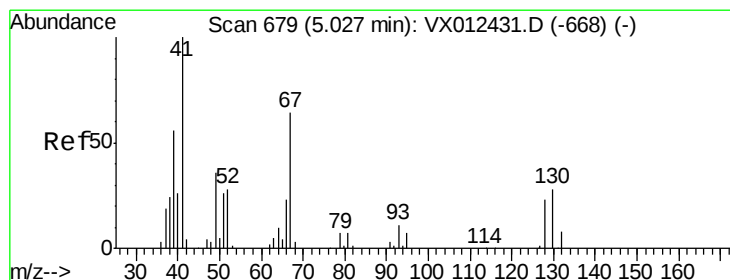
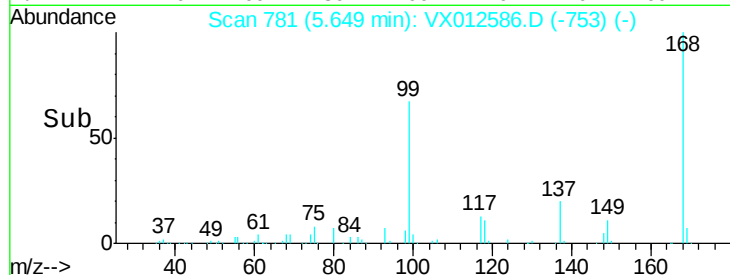
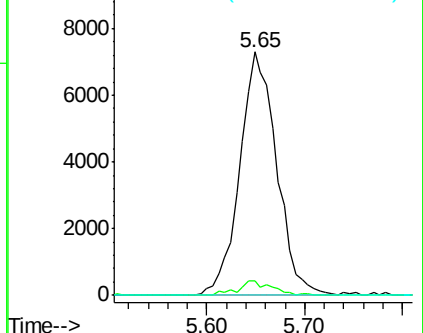
121 0.0 24.2 36.4#



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



#41

Methacrylonitrile

Concen: 0.201 ug/l

RT: 5.03 min Scan# 679

Delta R.T. 0.00 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

Tgt Ion: 41 Resp: 338

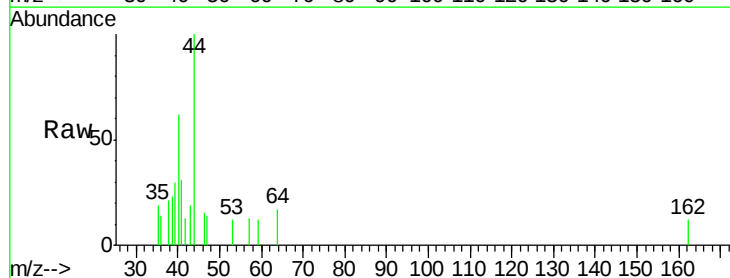
Ion Ratio Lower Upper

41 100

39 95.6 46.0 69.0#

67 0.0 52.2 78.2#

52 0.0 22.7 34.1#

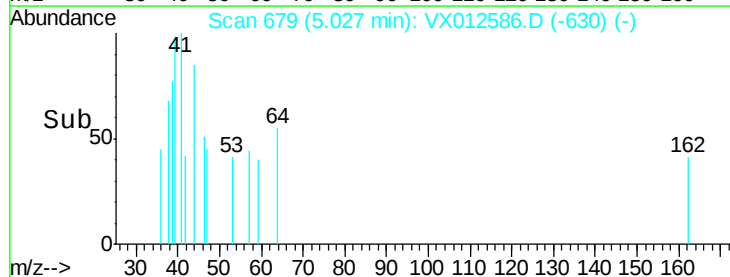
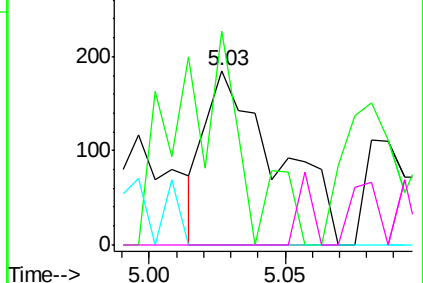


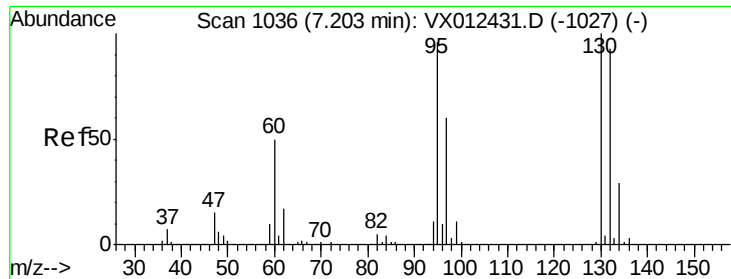
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#44

Trichloroethene

Concen: 1.279 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

Instrument :

MSVOA_X

ClientSampleId :

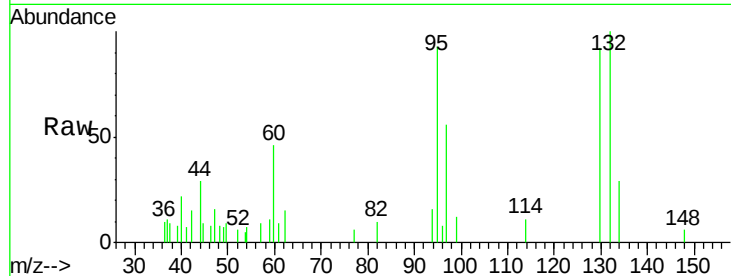
KY038PS036-190916

Tot Ion:130 Resp: 1816

Ion Ratio Lower Upper

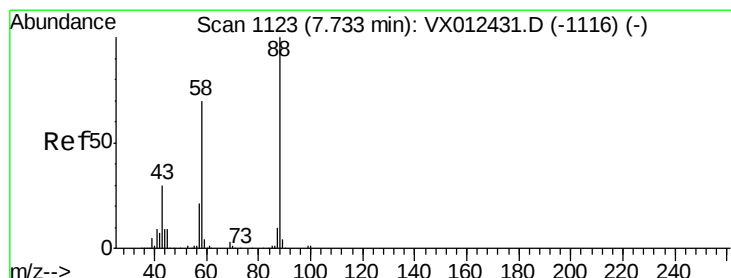
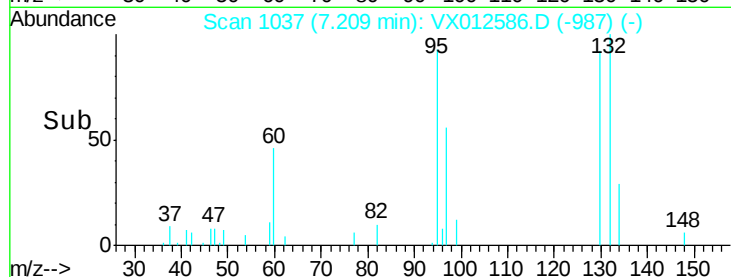
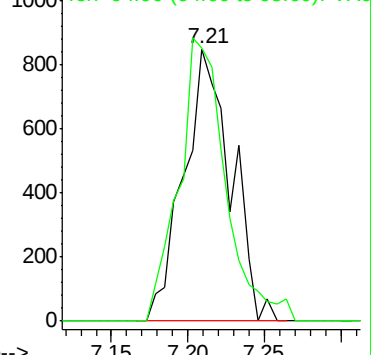
130 100

95 100.5 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: 0.429 ug/l

RT: 7.80 min Scan# 1134

Delta R.T. 0.07 min

Lab File: VX012586.D

Acq: 21 Sep 2019 03:16

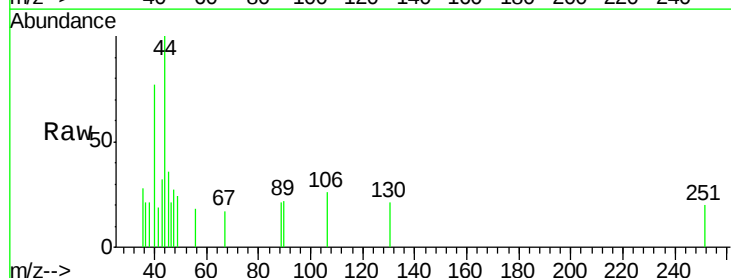
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 426.1 29.4 44.0#

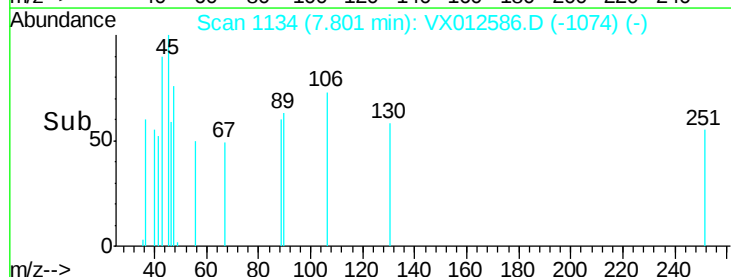
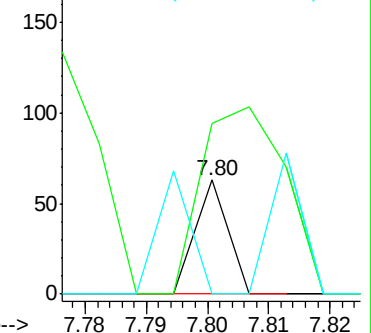
58 126.1 57.5 86.3#

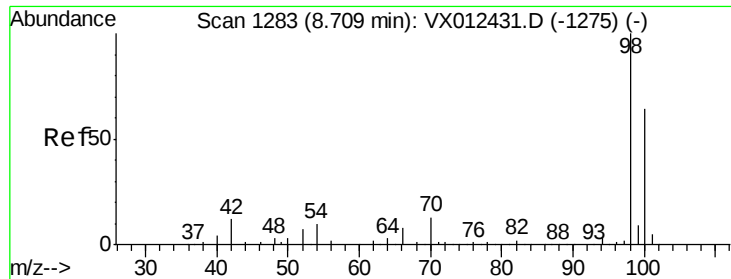


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

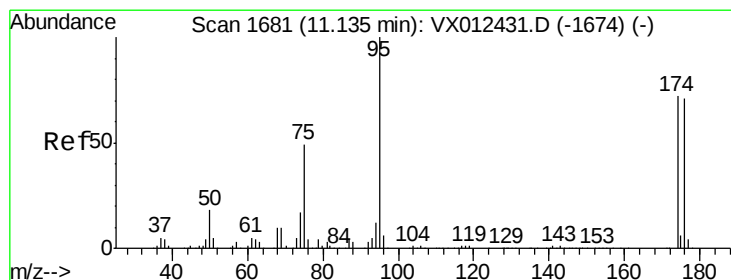
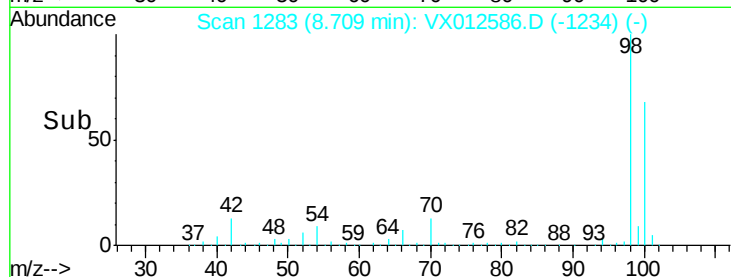
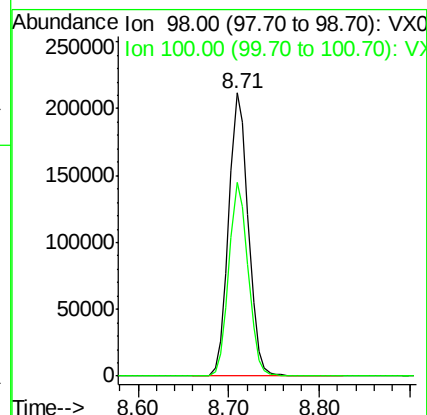
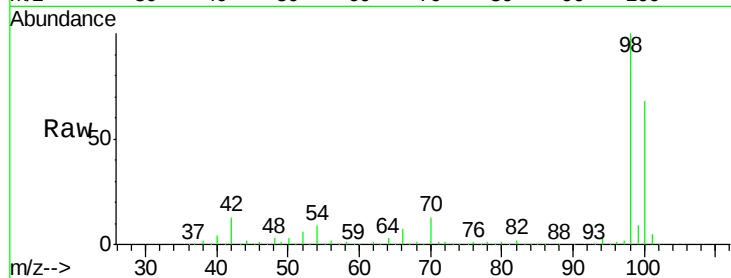




#50
Toluene-d8
Concen: 51.135 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012586.D
Acq: 21 Sep 2019 03:16

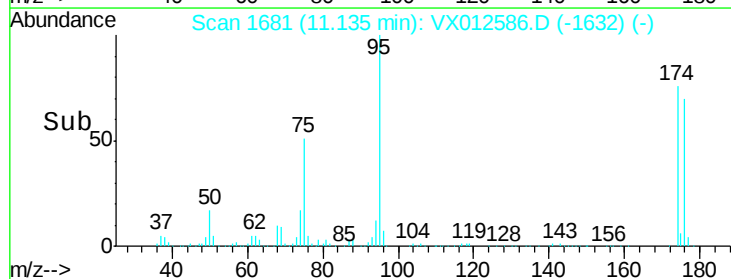
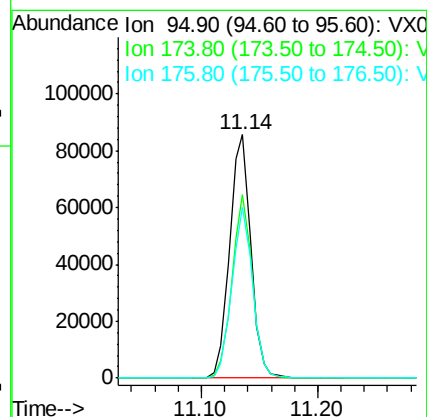
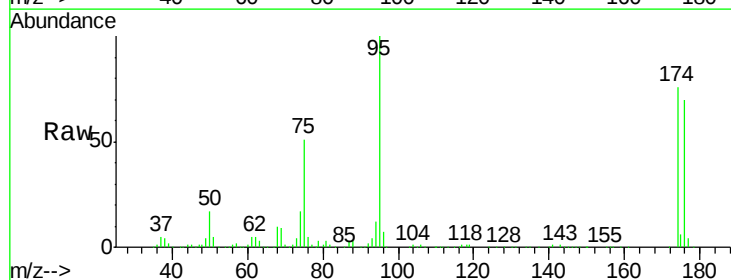
Instrument :
MSVOA_X
ClientSampleId :
KY038PS036-190916

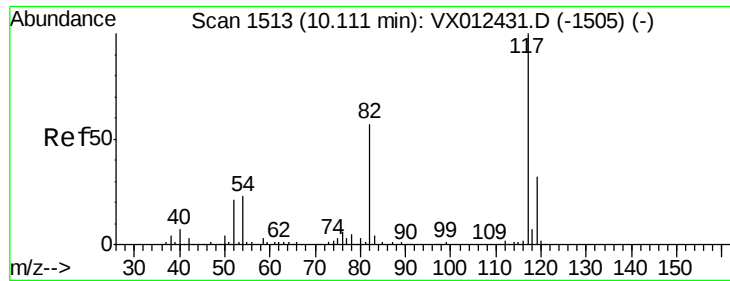
Tot Ion: 98 Resp: 320052
Ion Ratio Lower Upper
98 100
100 67.3 53.4 80.2



#62
4-Bromofluorobenzene
Concen: 41.478 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012586.D
Acq: 21 Sep 2019 03:16

Tgt Ion: 95 Resp: 107790
Ion Ratio Lower Upper
95 100
174 73.0 0.0 140.0
176 69.2 0.0 135.4

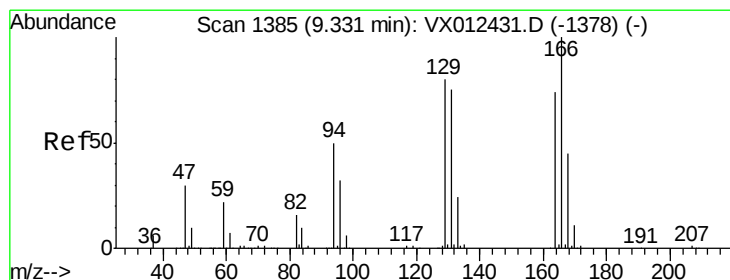
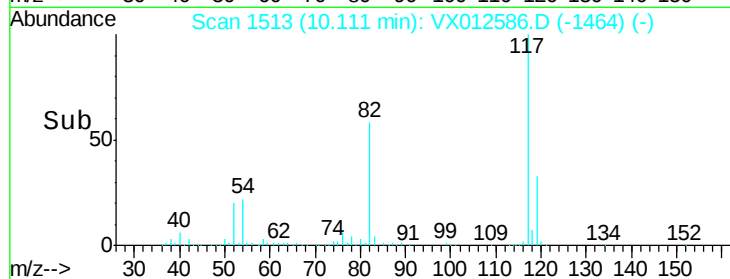
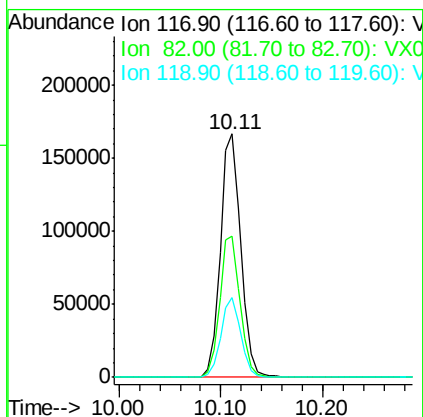
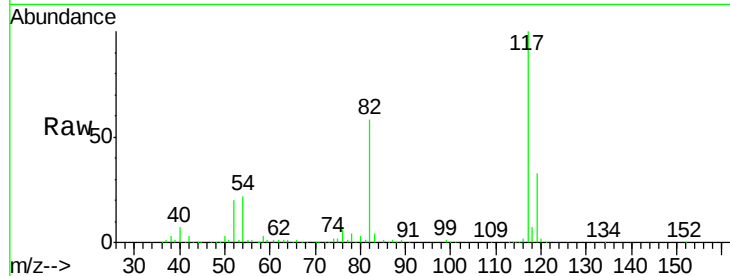




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012586.D
Acq: 21 Sep 2019 03:16

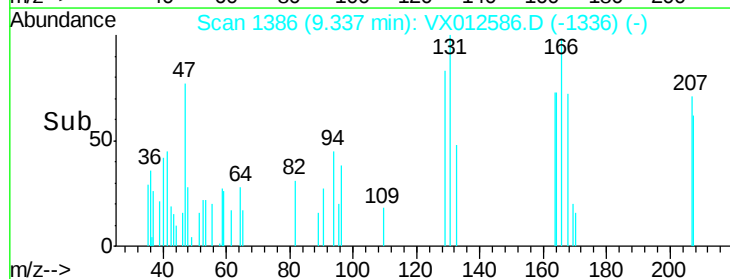
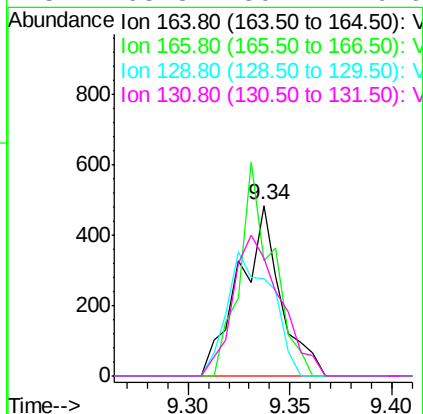
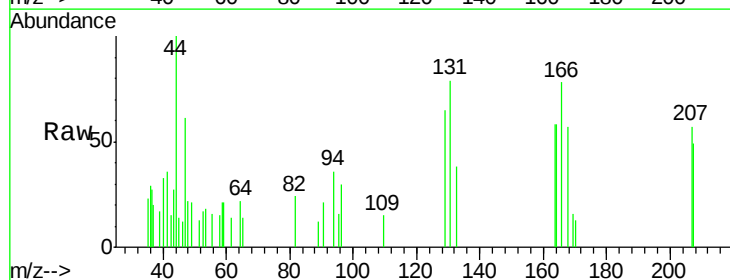
Instrument :
MSVOA_X
ClientSampleId :
KY038PS036-190916

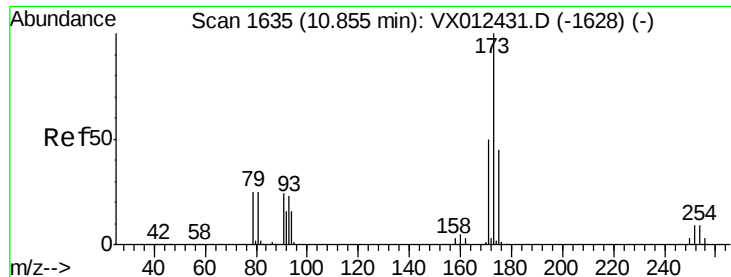
Tot Ion:117 Resp: 231968
Ion Ratio Lower Upper
117 100
82 58.0 45.9 68.9
119 32.9 25.3 37.9



#64
Tetrachloroethene
Concen: 0.644 ug/l
RT: 9.34 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VX012586.D
Acq: 21 Sep 2019 03:16

Tgt Ion:164 Resp: 685
Ion Ratio Lower Upper
164 100
166 67.4 107.8 161.6#
129 56.8 86.2 129.2#
131 68.8 80.4 120.6#

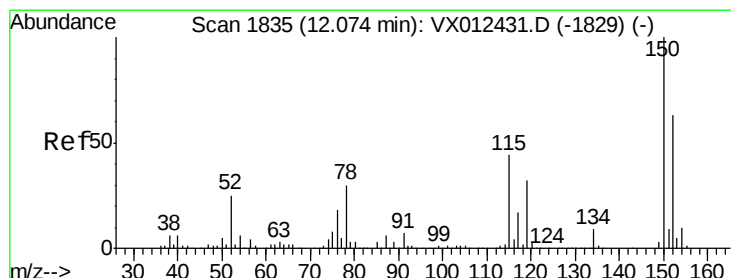
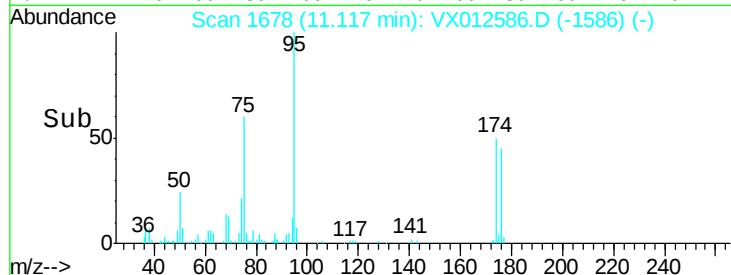
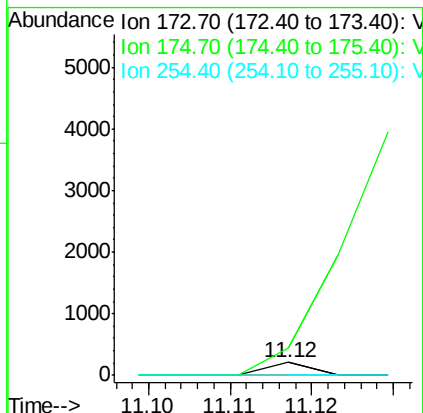
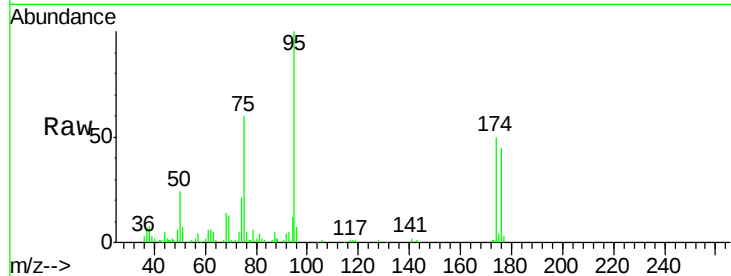




#71
Bromoform
Concen: 2.923 ug/l
RT: 11.12 min Scan# 1678
Delta R.T. 0.26 min
Lab File: VX012586.D
Acq: 21 Sep 2019 03:16

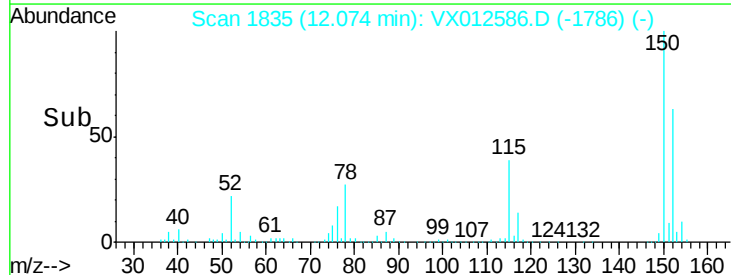
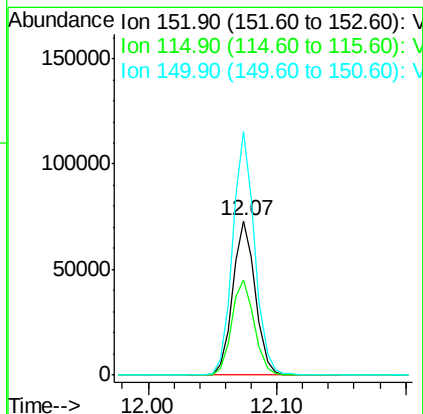
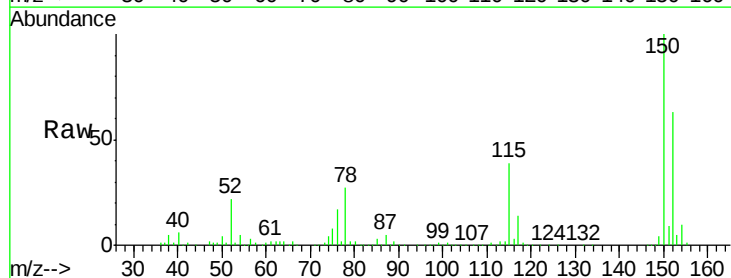
Instrument :
MSVOA_X
ClientSampleId :
KY038PS036-190916

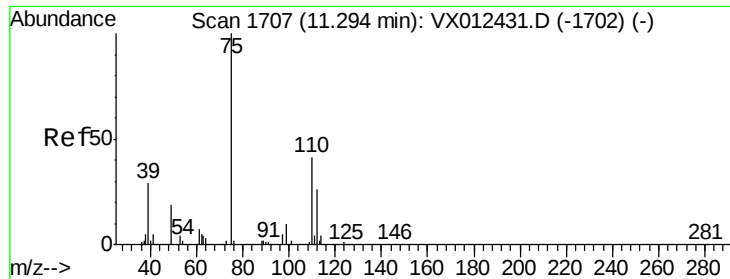
Tot Ion:173 Resp: 77
Ion Ratio Lower Upper
173 100
175 0.0 23.7 71.1#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012586.D
Acq: 21 Sep 2019 03:16

Tgt Ion:152 Resp: 89324
Ion Ratio Lower Upper
152 100
115 61.9 44.1 132.3
150 153.8 0.0 343.8

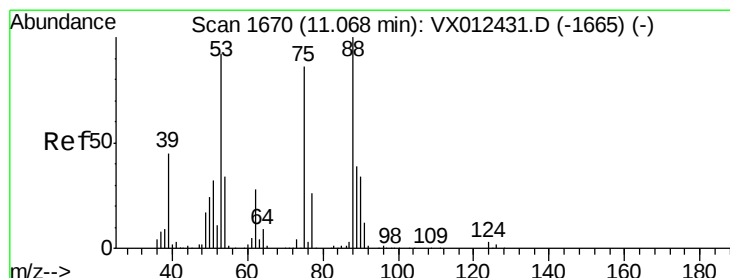
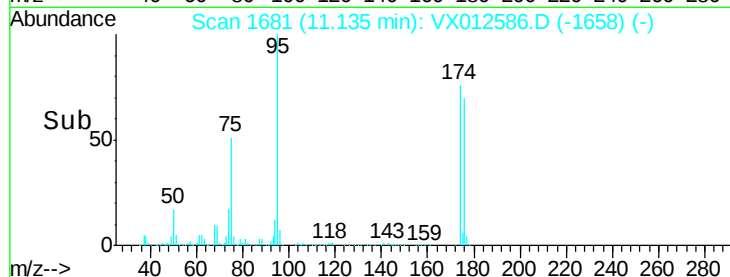
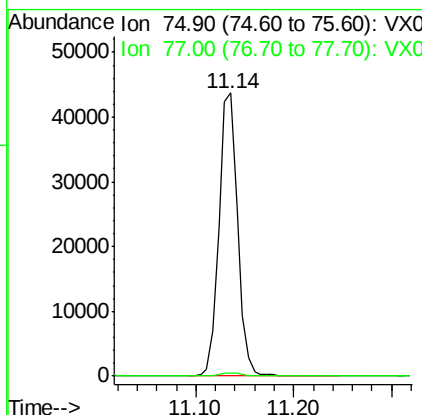
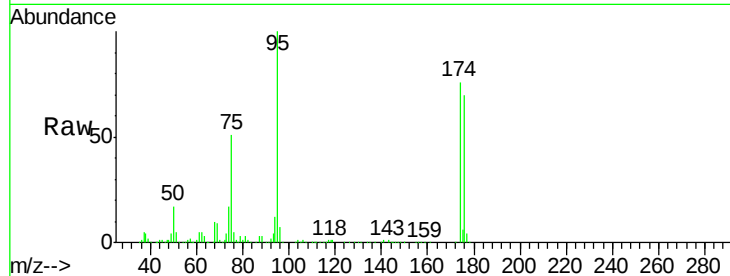




#76
 1,2,3-Trichloropropane
 Concen: 28.257 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.16 min
 Lab File: VX012586.D
 Acq: 21 Sep 2019 03:16

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS036-190916

Tot Ion: 75 Resp: 57979
 Ion Ratio Lower Upper
 75 100
 77 1.4 19.7 59.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.869 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.07 min
 Lab File: VX012586.D
 Acq: 21 Sep 2019 03:16

Tgt Ion: 75 Resp: 57979
 Ion Ratio Lower Upper
 75 100
 53 0.1 83.6 125.4#
 89 0.1 36.3 54.5#

