

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020519\
 Data File : VX007387.D
 Acq On : 05 Feb 2019 19:51
 Operator : JC/SP
 Sample : K1380-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS038-190204

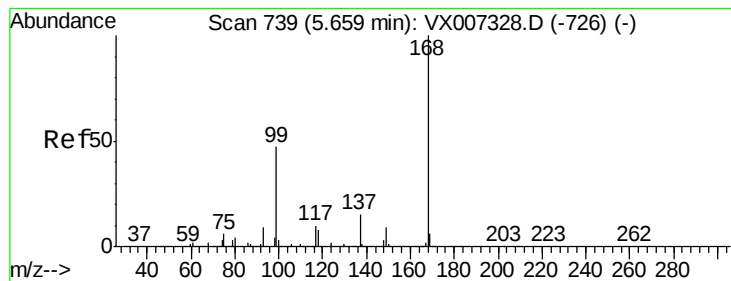
Quant Time: Feb 06 00:20:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	454570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	707781	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	641885	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	316930	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	248396	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
35) Dibromofluoromethane	5.51	113	213920	46.45	ug/l	0.00
Spiked Amount			Recovery	=	92.90%	
50) Toluene-d8	8.71	98	834397	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
62) 4-Bromofluorobenzene	11.14	95	284510	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1512	0.295	ug/l #	87
4) Vinyl Chloride	1.41	62	1230	0.245	ug/l #	73
5) Bromomethane	1.64	94	1062	Below Cal	#	28
11) Tert butyl alcohol	3.03	59	1355	1.357	ug/l	99
13) Acrolein	2.31	56	500	1.068	ug/l #	31
14) Allyl chloride	2.76	41	4096	0.579	ug/l #	72
16) Acetone	2.43	43	539	0.244	ug/l #	38
17) Carbon Disulfide	2.60	76	187	2.137	ug/l #	25
18) Methyl Acetate	2.79	43	27367	5.289	ug/l #	86
20) Methylene Chloride	2.85	84	452	Below Cal	#	32
27) cis-1,2-Dichloroethene	4.59	96	3383	0.670	ug/l	79
29) Tetrahydrofuran	5.14	42	401	0.203	ug/l #	56
36) 1,1-Dichloropropene	5.66	75	29299	4.614	ug/l #	49
38) Carbon Tetrachloride	5.66	117	41826	6.789	ug/l #	16
49) 1,4-Dioxane	7.74	88	26	7.108	ug/l #	1
71) Bromoform	10.84	173	92	4.050	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	136959	22.217	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	136959	67.091	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

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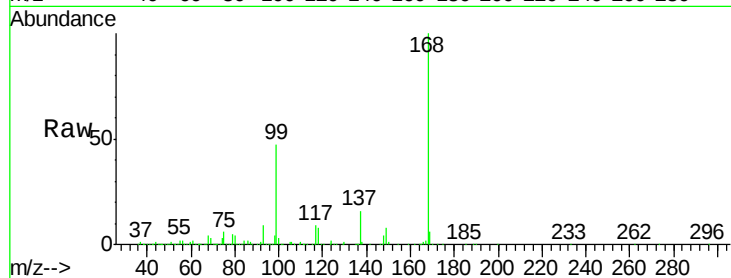
KY038PS038-190204

Tot Ion:168 Resp: 454570

Ion Ratio Lower Upper

168 100

99 47.3 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

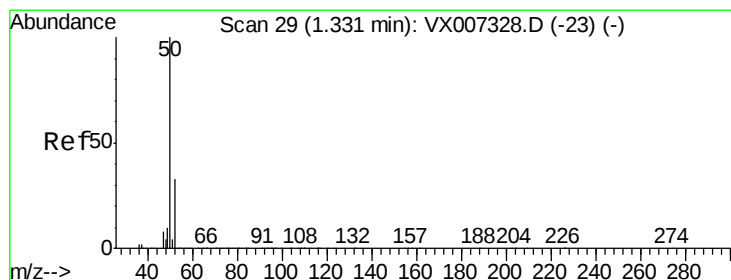
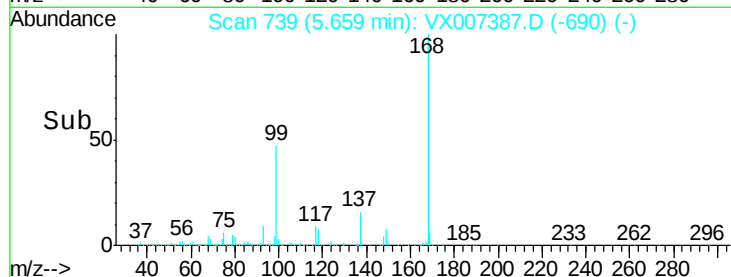
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.295 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX007387.D

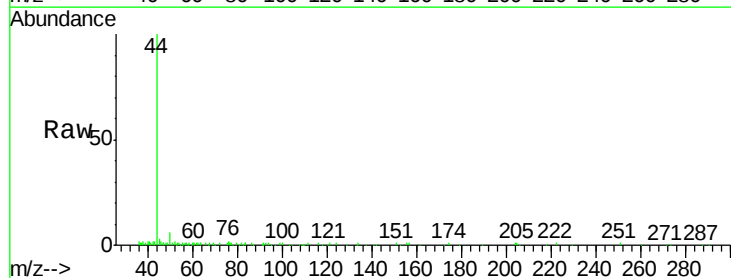
Acq: 05 Feb 2019 19:51

Tgt Ion: 50 Resp: 1512

Ion Ratio Lower Upper

50 100

52 25.2 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

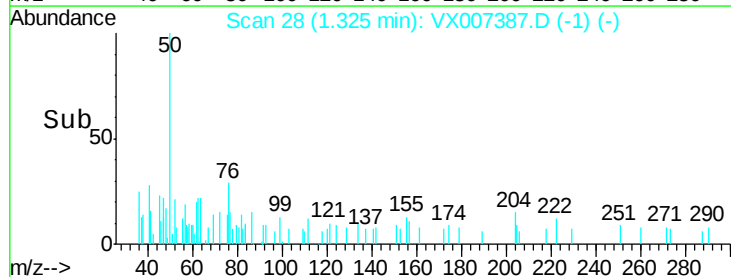
600

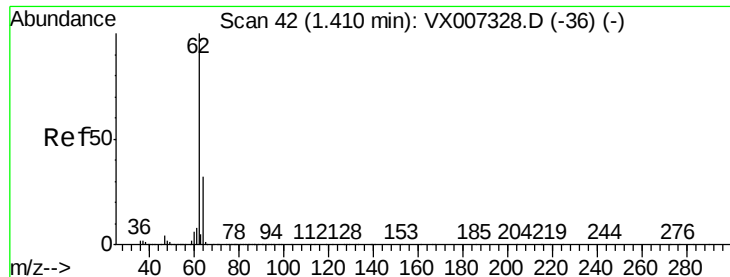
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.245 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

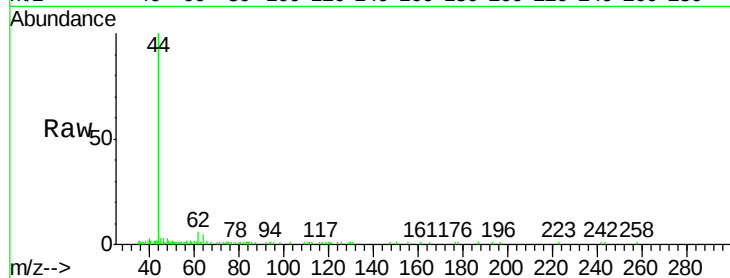
KY038PS038-190204

Tot Ion: 62 Resp: 1230

Ion Ratio Lower Upper

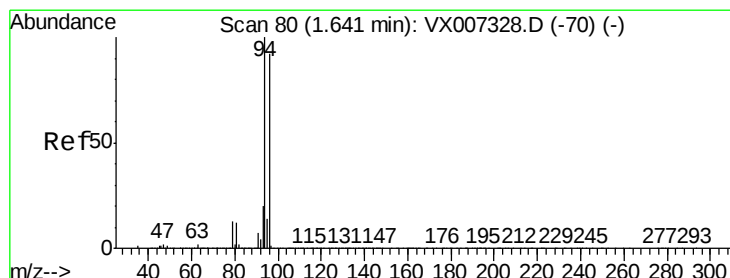
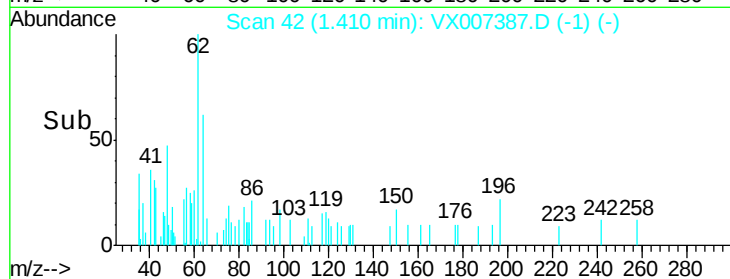
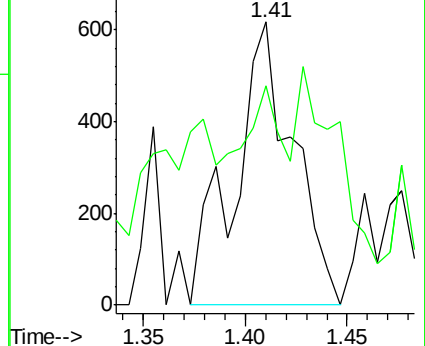
62 100

64 16.5 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007387.D

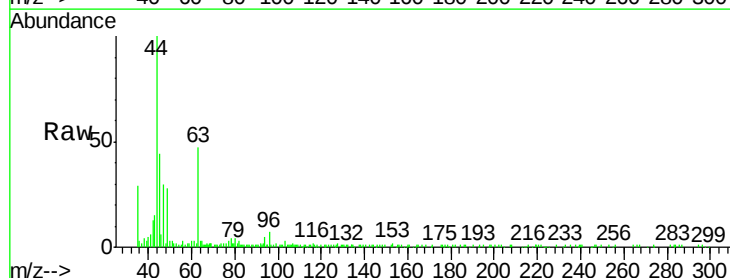
Acq: 05 Feb 2019 19:51

Tgt Ion: 94 Resp: 1062

Ion Ratio Lower Upper

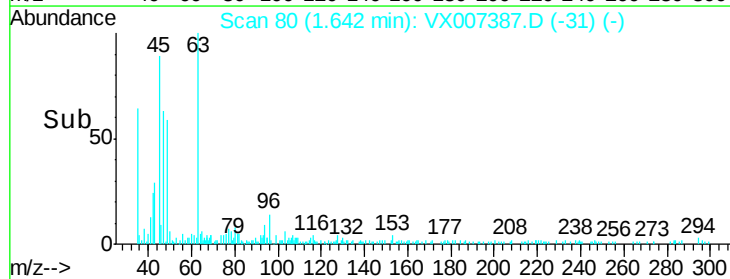
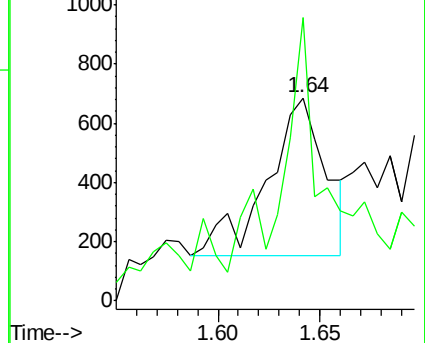
94 100

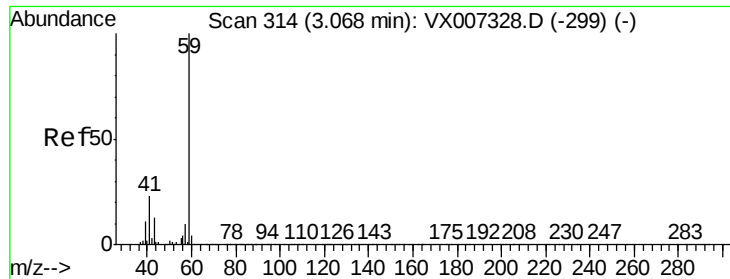
96 161.6 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



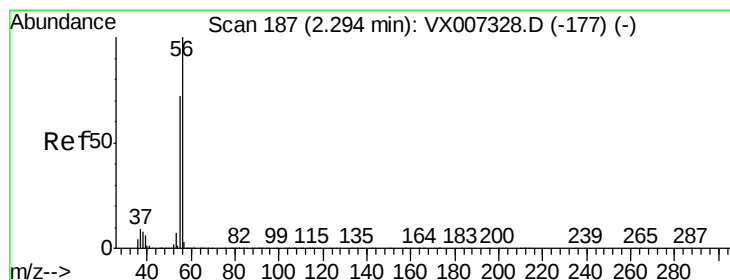
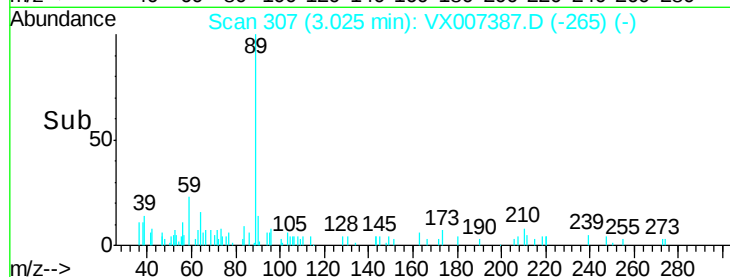
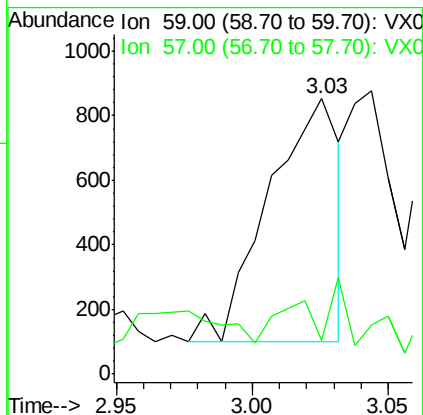
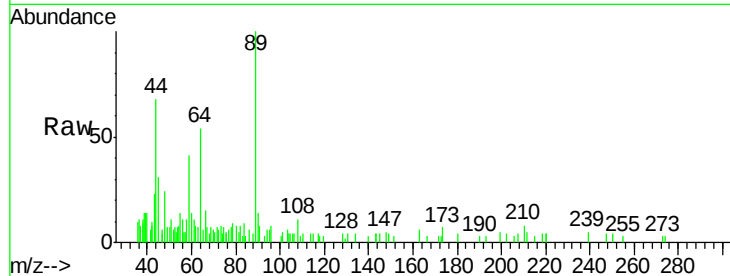


#11

Tert butyl alcohol
Concen: 1.357 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.04 min
Lab File: VX007387.D
Acq: 05 Feb 2019 19:51

Instrument :
MSVOA_X
ClientSampleId :
KY038PS038-190204

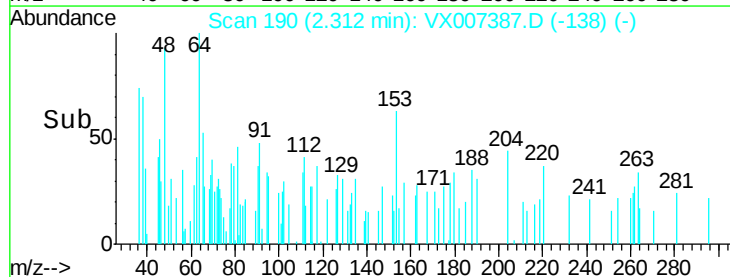
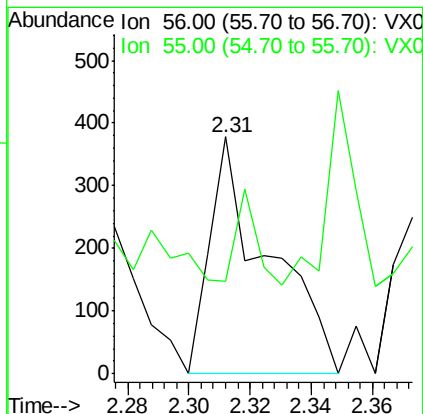
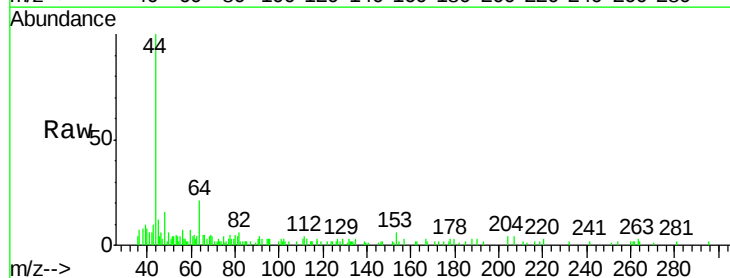
Tot Ion: 59 Resp: 1355
Ion Ratio Lower Upper
59 100
57 9.6 8.1 12.1

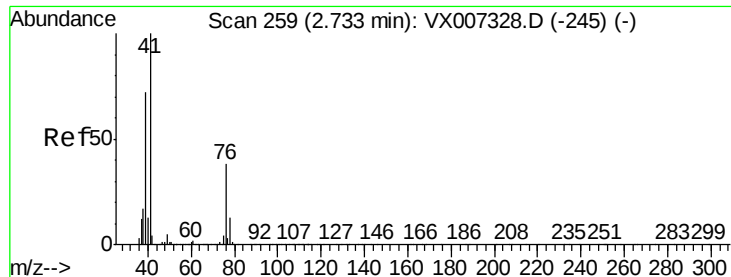


#13

Acrolein
Concen: 1.068 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX007387.D
Acq: 05 Feb 2019 19:51

Tgt Ion: 56 Resp: 500
Ion Ratio Lower Upper
56 100
55 14.4 56.9 85.3#





#14

Allvl chloride

Concen: 0.579 ug/l

RT: 2.76 min Scan# 264

Delta R.T. 0.03 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-190204

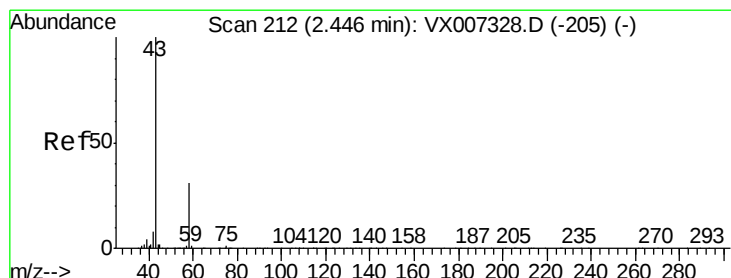
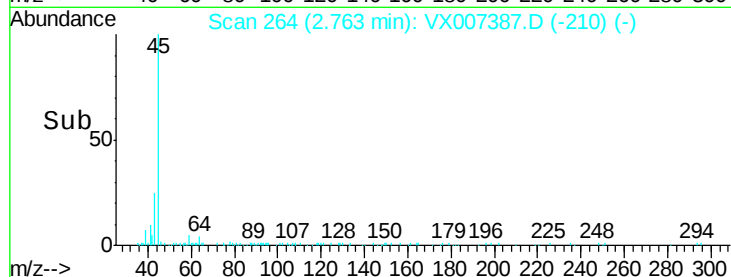
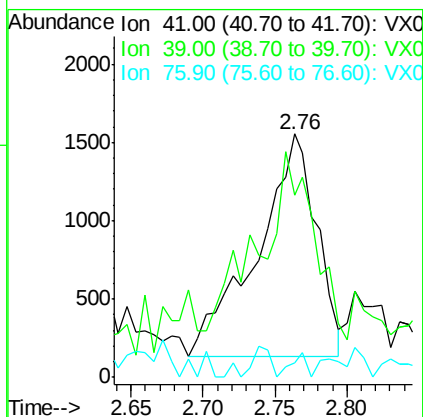
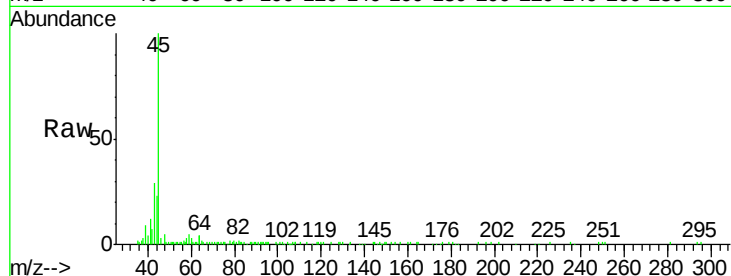
Tot Ion: 41 Resp: 4096

Ion Ratio Lower Upper

41 100

39 78.6 54.1 81.1

76 2.8 27.8 41.8#



#16

Acetone

Concen: 0.244 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.01 min

Lab File: VX007387.D

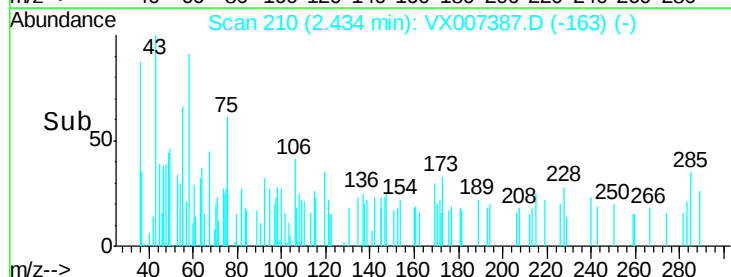
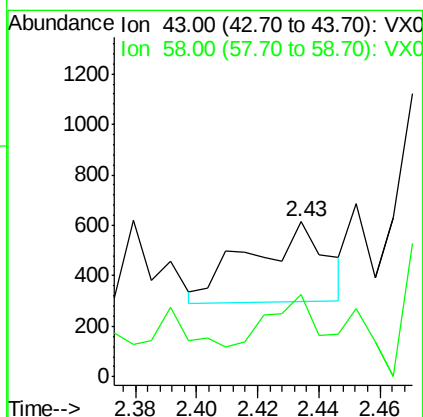
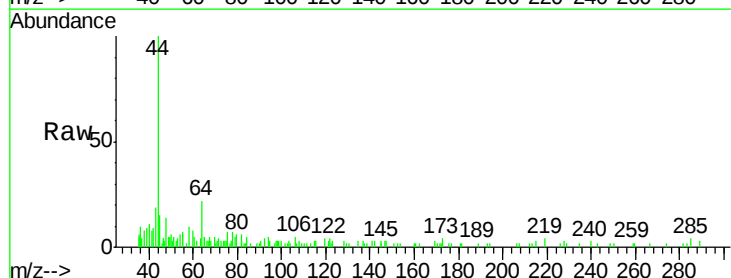
Acq: 05 Feb 2019 19:51

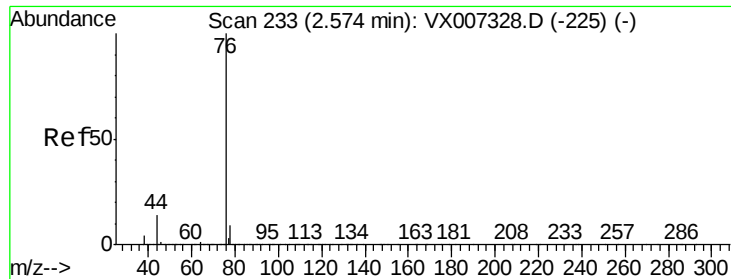
Tgt Ion: 43 Resp: 539

Ion Ratio Lower Upper

43 100

58 65.5 24.9 37.3#





#17

Carbon Disulfide

Concen: 2.137 ug/l

RT: 2.60 min Scan# 237

Delta R.T. 0.02 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

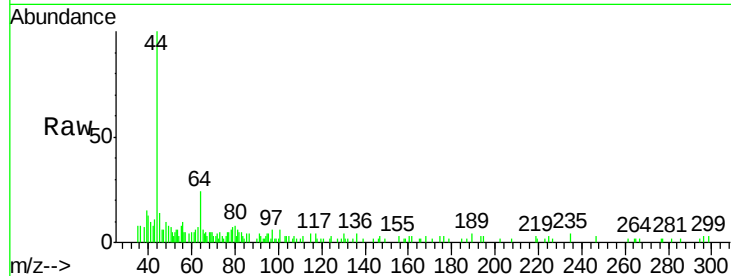
KY038PS038-190204

Tot Ion: 76 Resp: 187

Ion Ratio Lower Upper

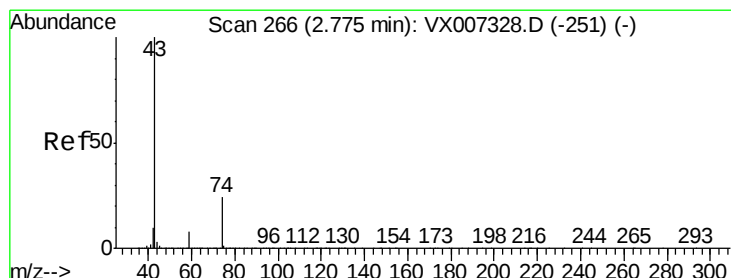
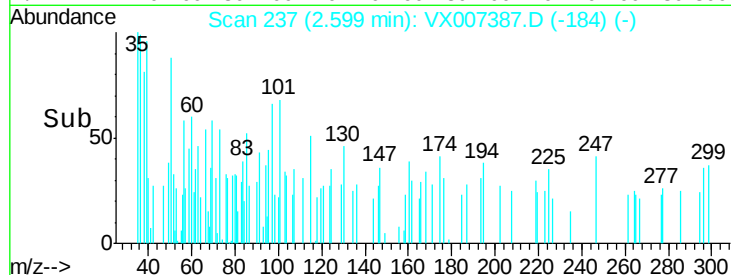
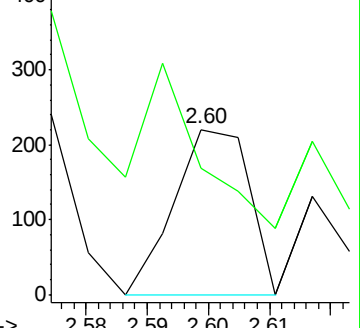
76 100

78 35.9 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 5.289 ug/l

RT: 2.79 min Scan# 269

Delta R.T. 0.02 min

Lab File: VX007387.D

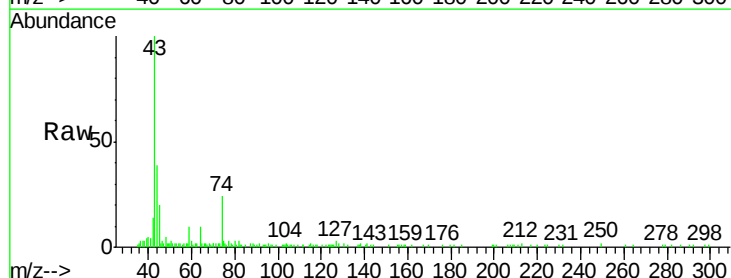
Acq: 05 Feb 2019 19:51

Tgt Ion: 43 Resp: 27367

Ion Ratio Lower Upper

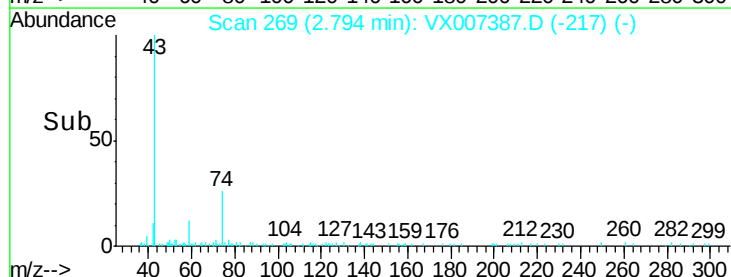
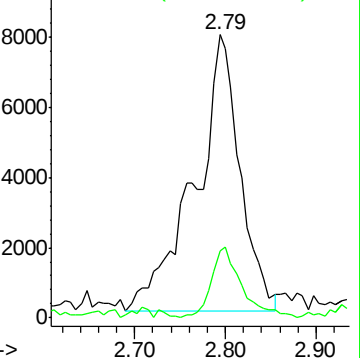
43 100

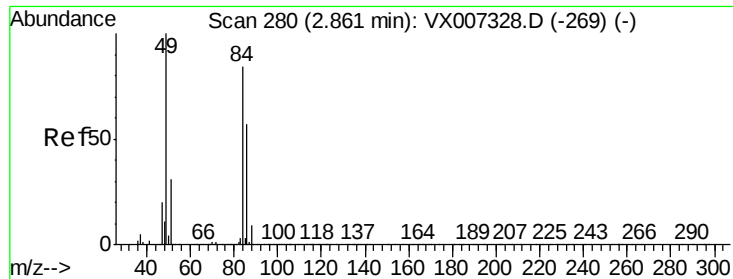
74 17.2 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

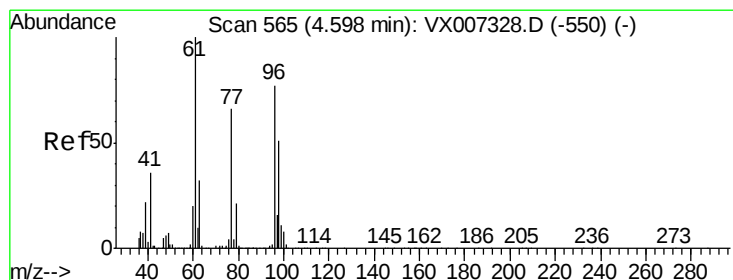
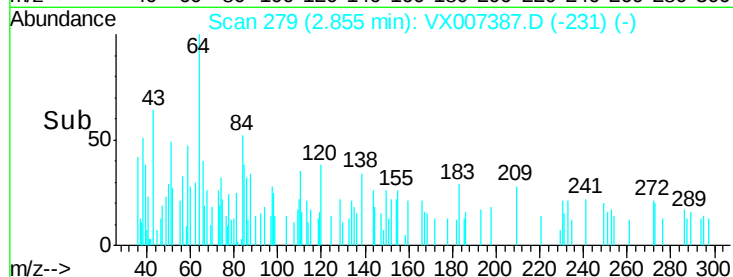
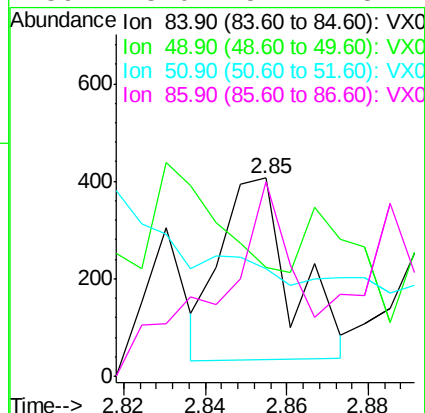
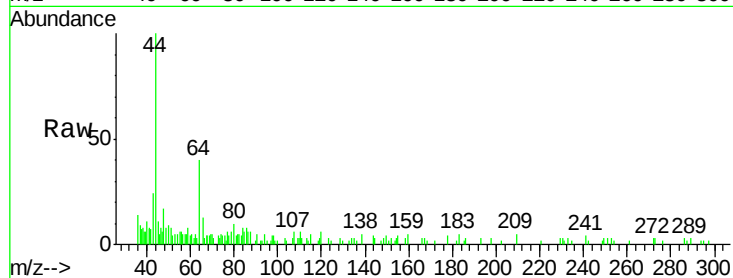




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007387.D
Acq: 05 Feb 2019 19:51

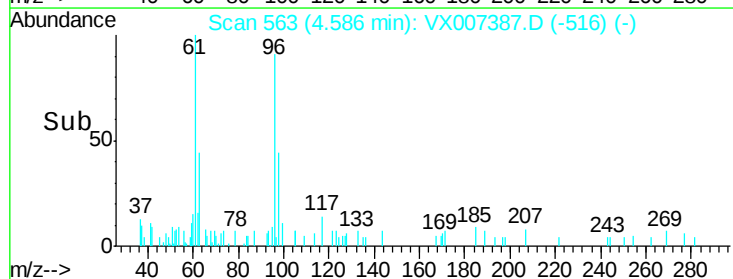
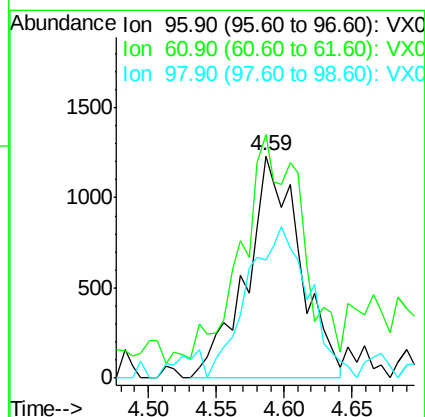
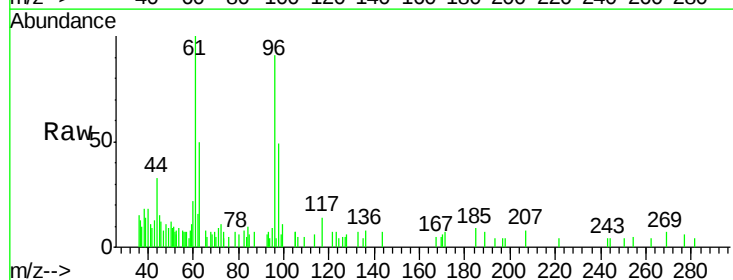
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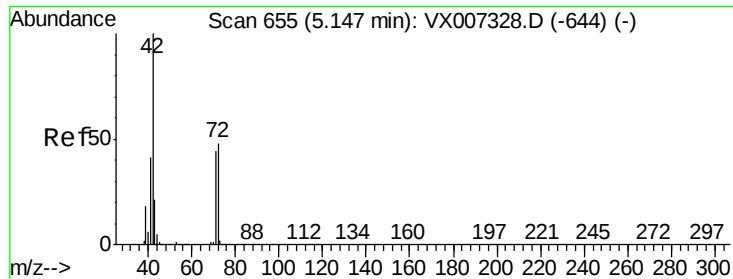
Tot Ion: 84 Resp: 452
Ion Ratio Lower Upper
84 100
49 0.0 94.8 142.2#
51 6.2 29.8 44.8#
86 73.0 54.1 81.1



#27
cis-1,2-Dichloroethene
Concen: 0.670 ug/l
RT: 4.59 min Scan# 563
Delta R.T. -0.01 min
Lab File: VX007387.D
Acq: 05 Feb 2019 19:51

Tgt Ion: 96 Resp: 3383
Ion Ratio Lower Upper
96 100
61 104.7 0.0 265.6
98 77.9 0.0 131.6

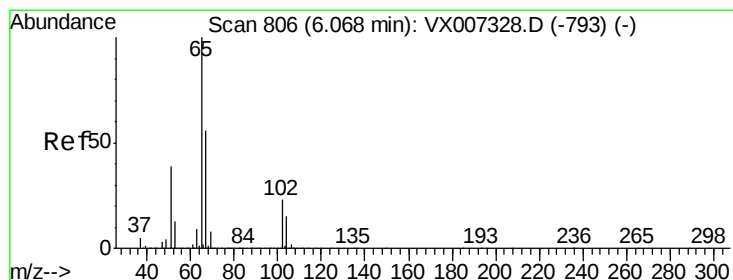
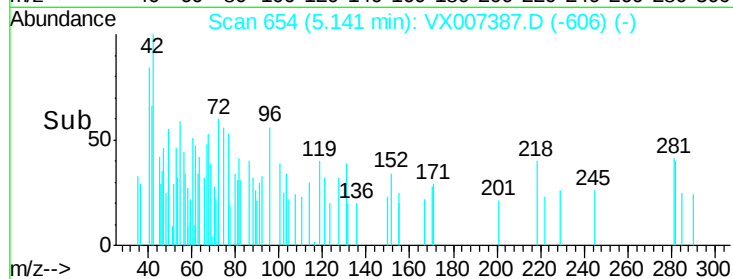
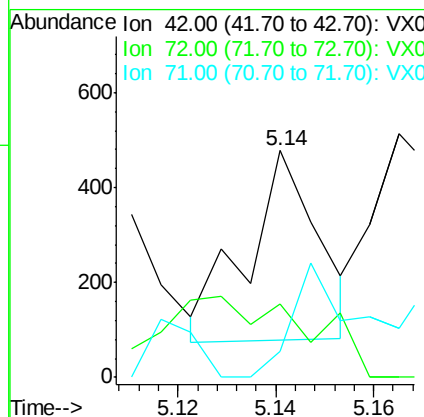
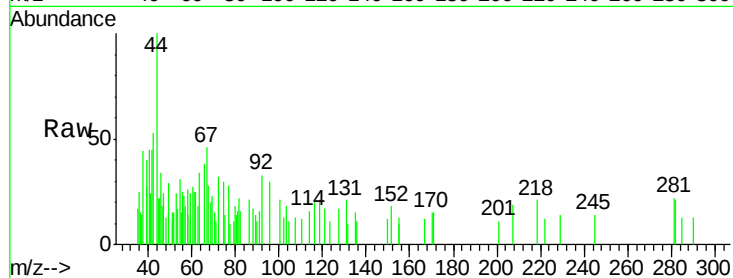




#29
Tetrahydrofuran
Concen: 0.203 ug/l
RT: 5.14 min Scan# 654
Delta R.T. -0.01 min
Lab File: VX007387.D
Acq: 05 Feb 2019 19:51

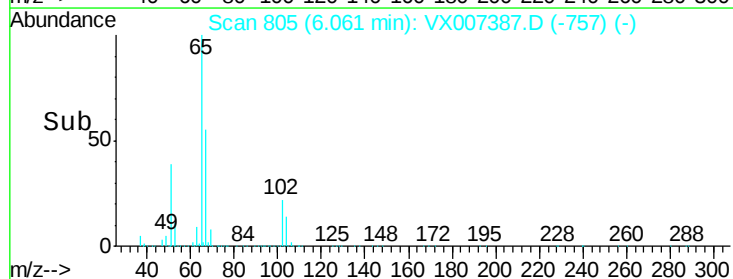
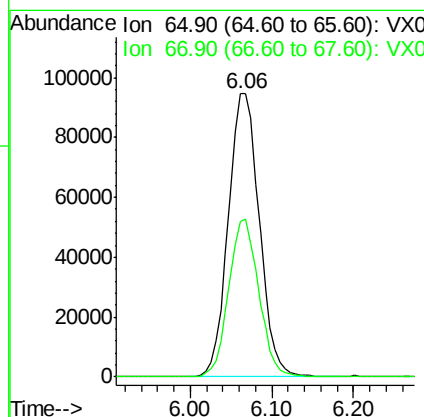
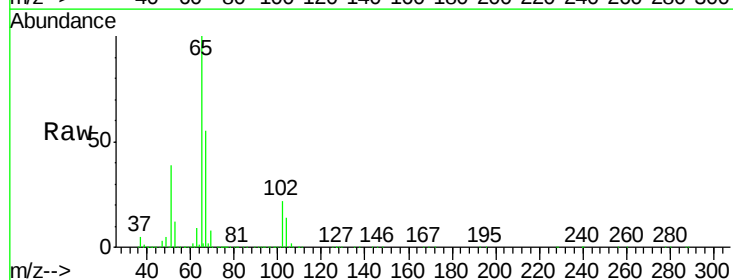
Instrument :
MSVOA_X
ClientSampleId :
KY038PS038-190204

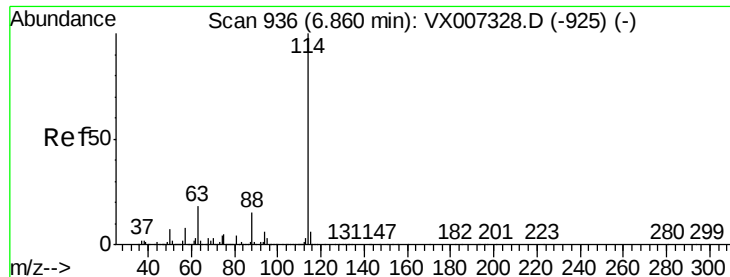
Tot Ion: 42 Resp: 401
Ion Ratio Lower Upper
42 100
72 88.0 37.6 56.4#
71 59.4 34.6 51.8#



#33
1,2-Dichloroethane-d4
Concen: 51.482 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX007387.D
Acq: 05 Feb 2019 19:51

Tgt Ion: 65 Resp: 248396
Ion Ratio Lower Upper
65 100
67 53.8 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-190204

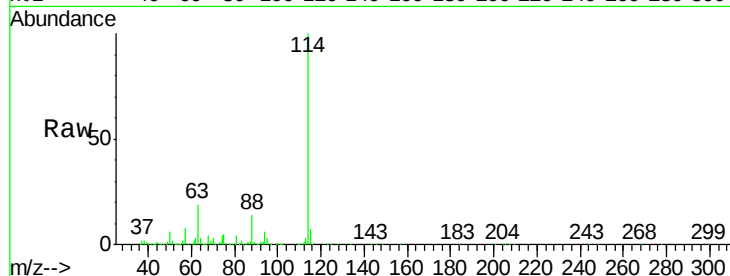
Tot Ion:114 Resp: 707781

Ion Ratio Lower Upper

114 100

63 18.8 0.0 35.6

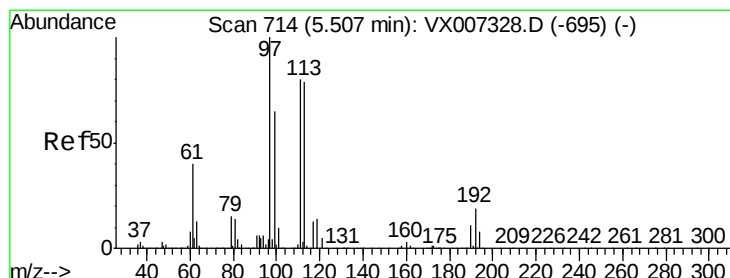
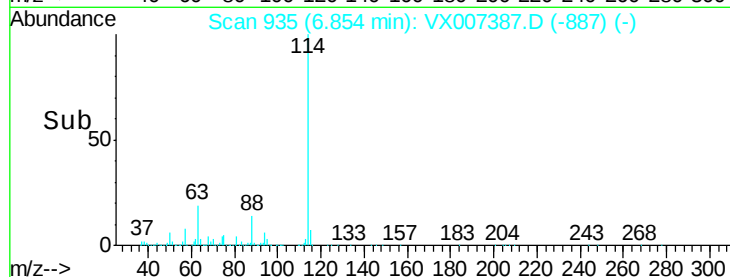
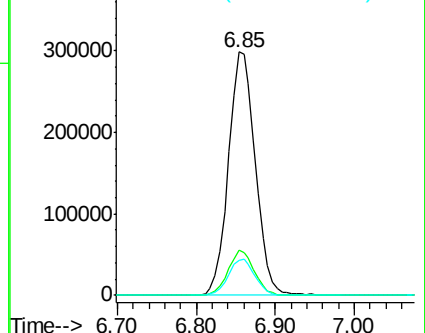
88 14.4 0.0 29.6



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: 46.451 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

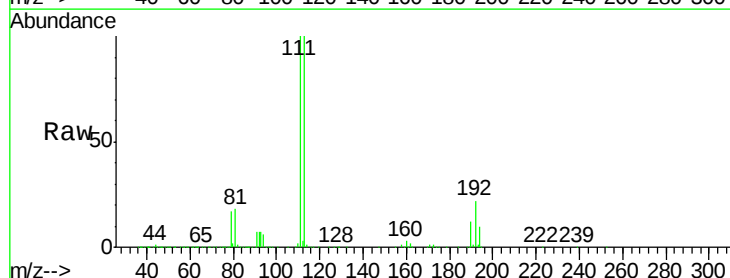
Tgt Ion:113 Resp: 213920

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

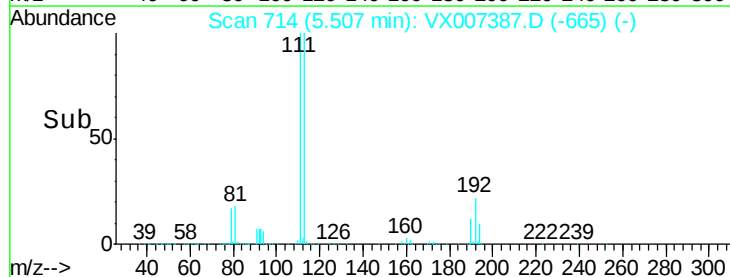
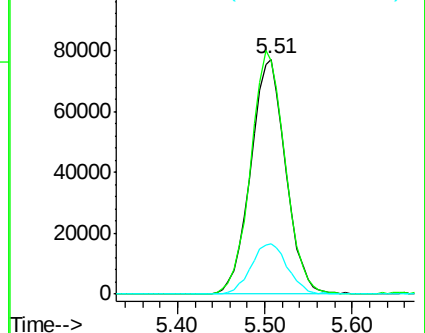
192 22.6 18.5 27.7

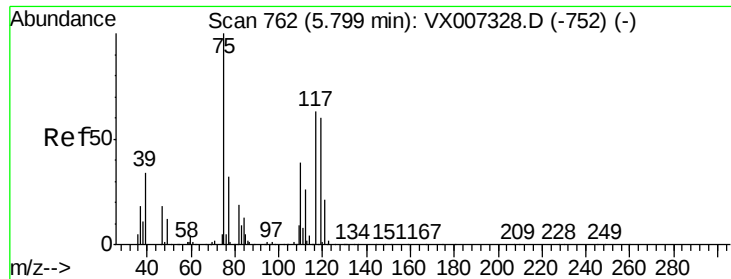


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.614 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-190204

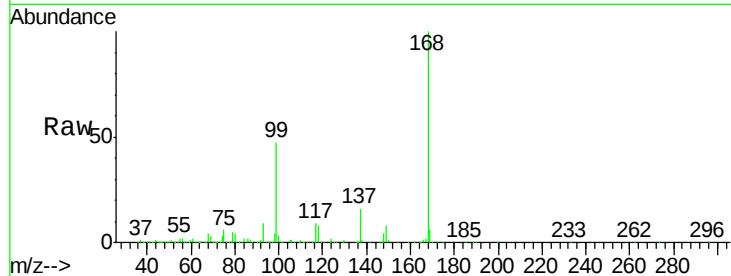
Tot Ion: 75 Resp: 29299

Ion Ratio Lower Upper

75 100

110 10.6 20.0 59.9#

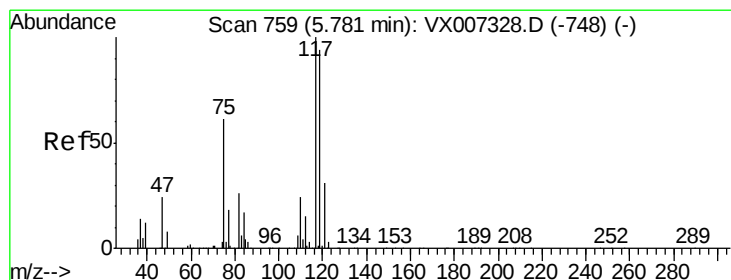
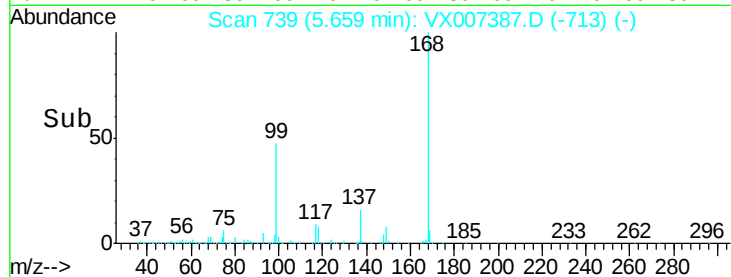
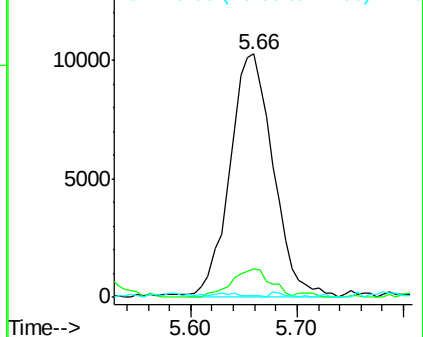
77 0.7 24.7 37.1#



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: 6.789 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

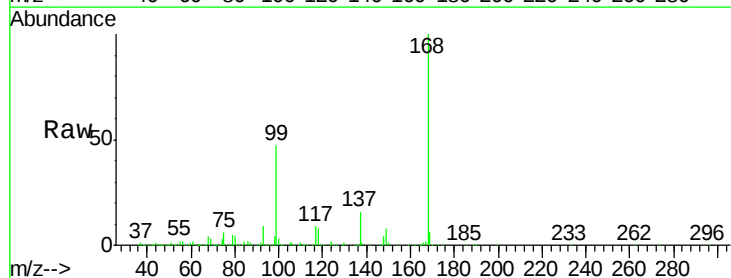
Tgt Ion: 117 Resp: 41826

Ion Ratio Lower Upper

117 100

119 4.4 75.3 112.9#

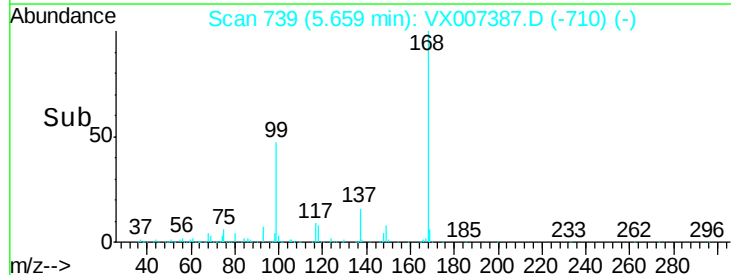
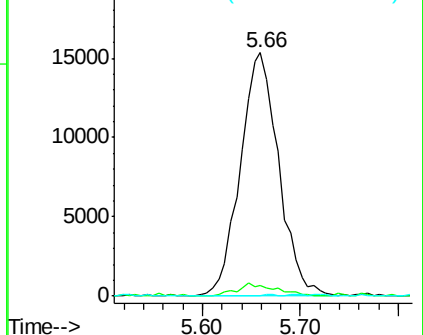
121 0.0 25.0 37.4#

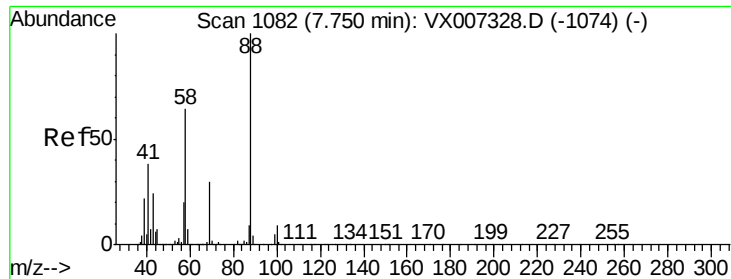


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 7.108 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-190204

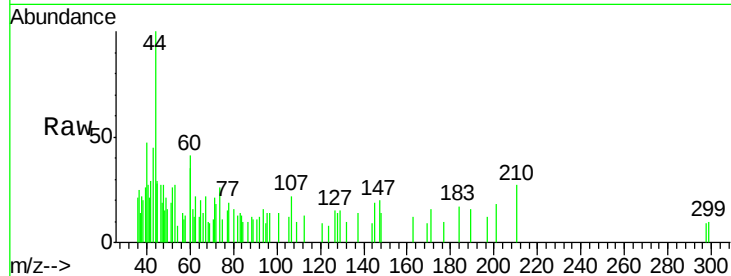
Tot Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

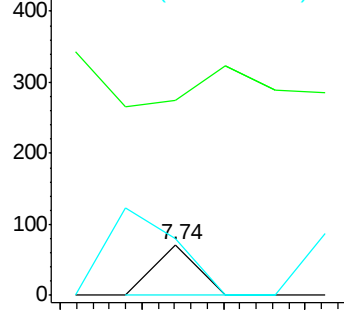
58 284.6 53.0 79.4#



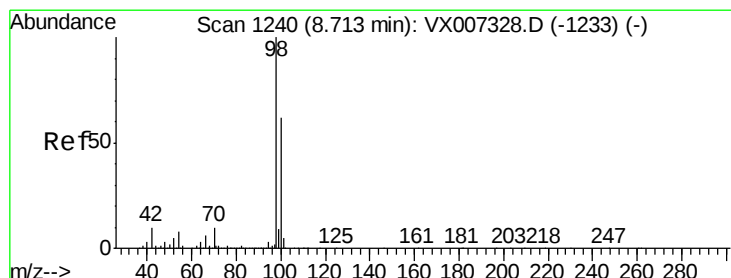
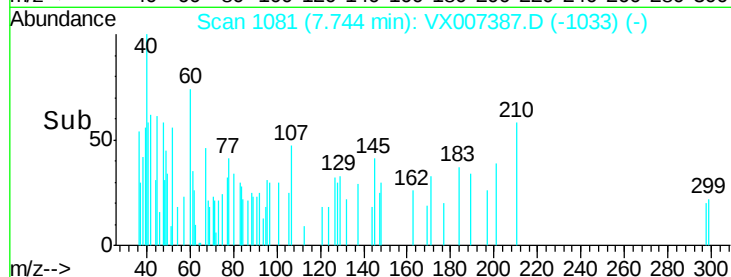
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 48.834 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007387.D

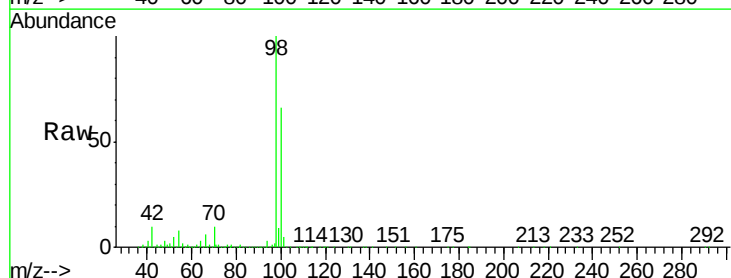
Acq: 05 Feb 2019 19:51

Tgt Ion: 98 Resp: 834397

Ion Ratio Lower Upper

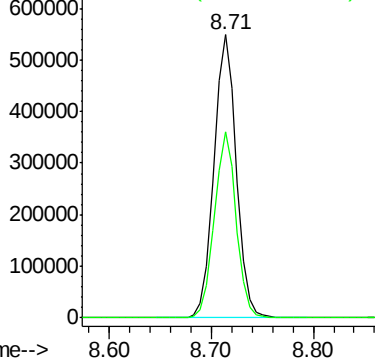
98 100

100 64.3 51.6 77.4

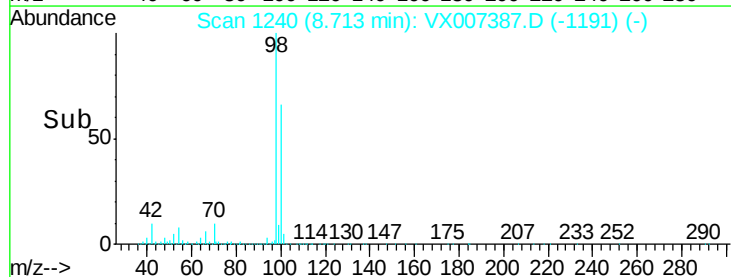


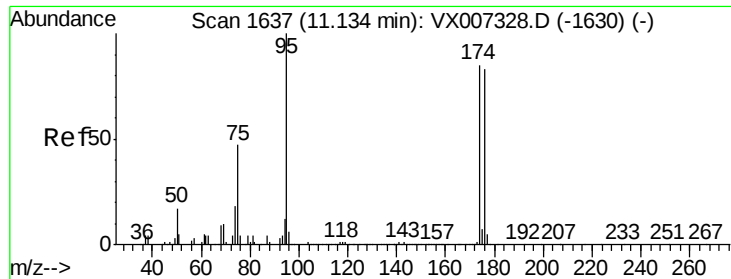
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time-->

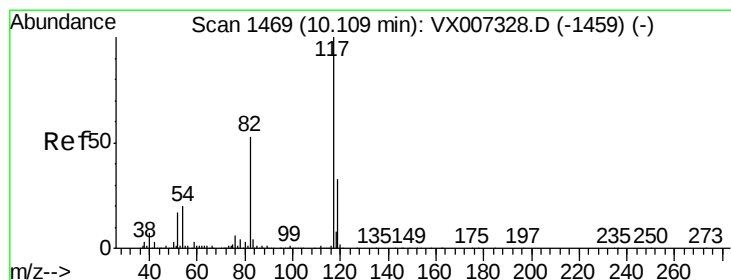
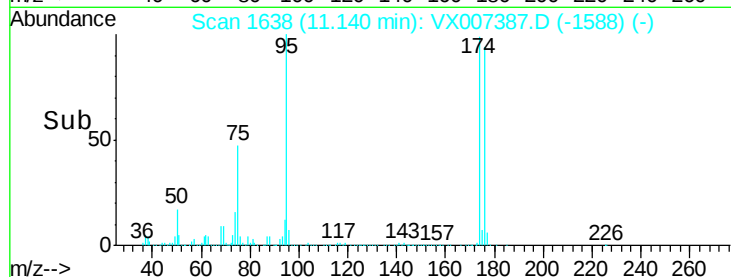
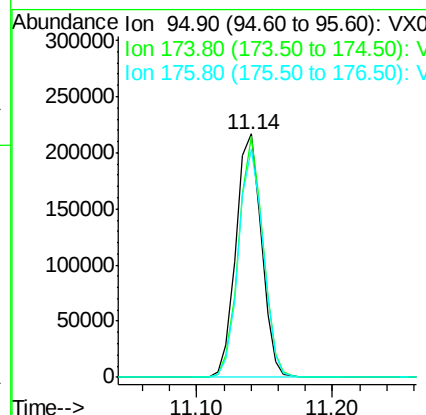
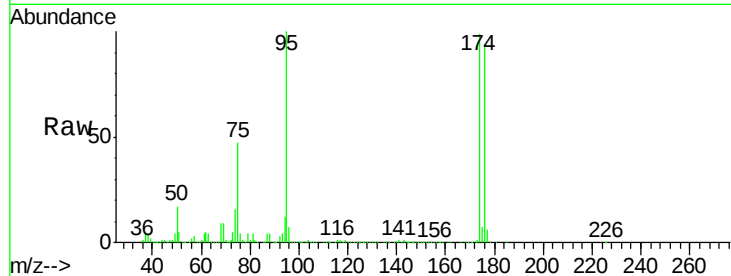




#62
4-Bromofluorobenzene
Concen: 45.607 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VX007387.D
Acq: 05 Feb 2019 19:51

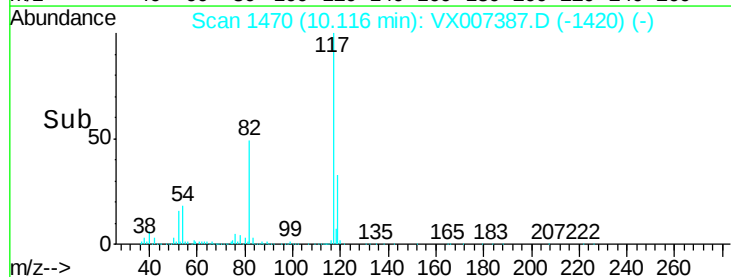
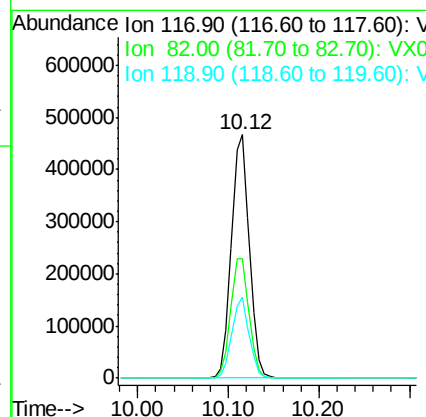
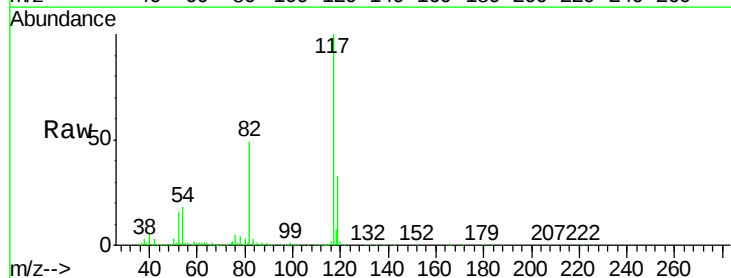
Instrument :
MSVOA_X
ClientSampleId :
KY038PS038-190204

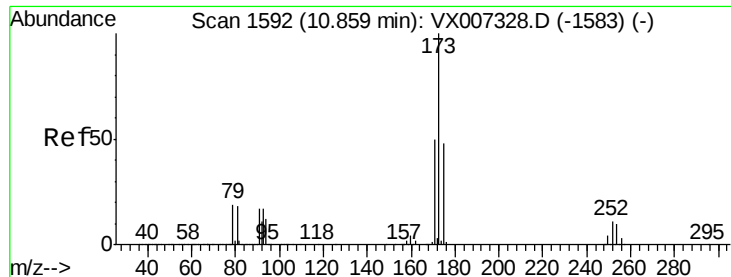
Tot Ion: 95 Resp: 284510
Ion Ratio Lower Upper
95 100
174 94.5 0.0 189.2
176 90.9 0.0 186.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007387.D
Acq: 05 Feb 2019 19:51

Tgt Ion: 117 Resp: 641885
Ion Ratio Lower Upper
117 100
82 48.8 42.1 63.1
119 33.2 26.5 39.7





#71

Bromoform

Concen: 4.050 ug/l

RT: 10.84 min Scan# 1588

Delta R.T. -0.02 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-190204

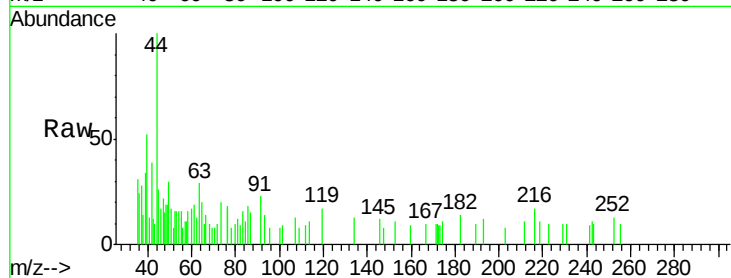
Tot Ion:173 Resp: 92

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

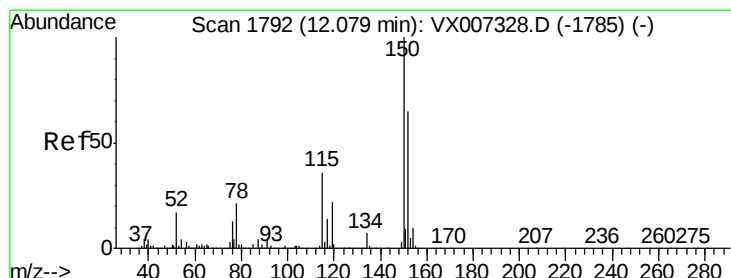
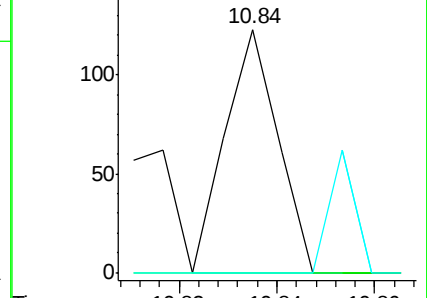
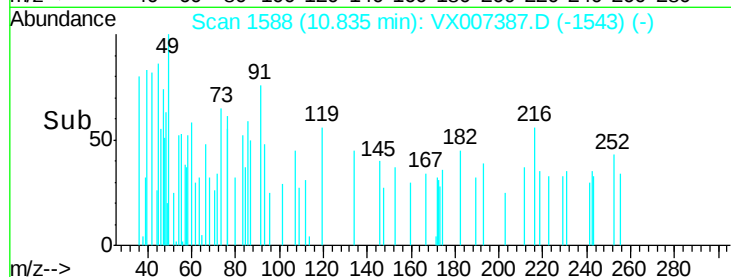
254 25.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

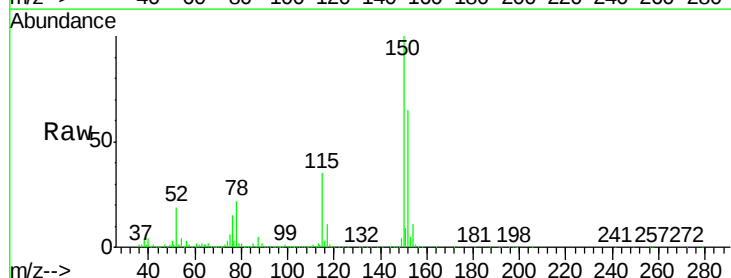
Tgt Ion:152 Resp: 316930

Ion Ratio Lower Upper

152 100

115 54.6 38.0 114.0

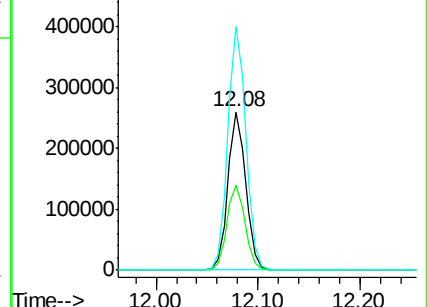
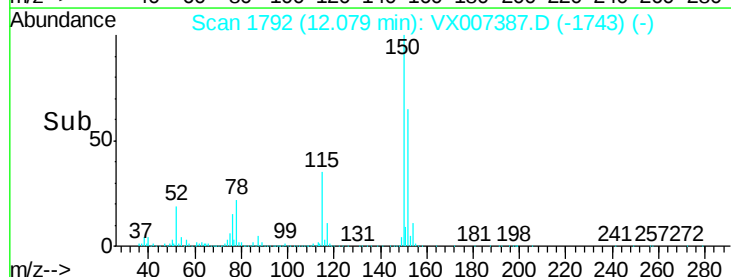
150 155.6 0.0 346.4

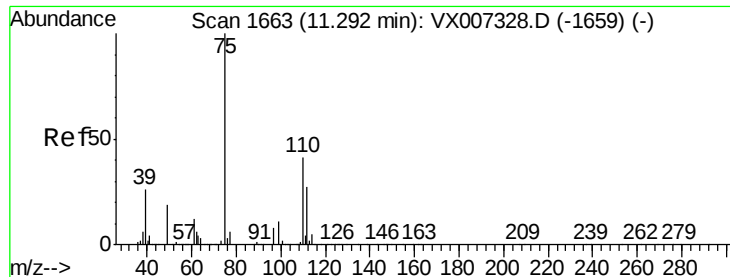


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.217 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.15 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

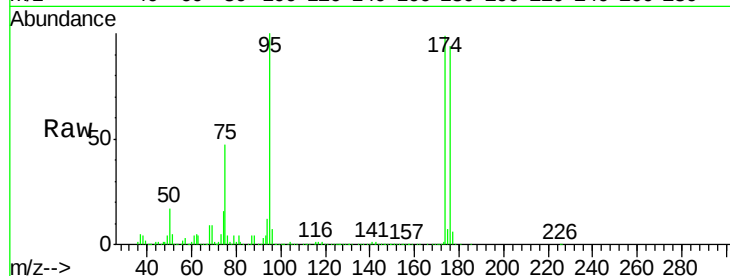
KY038PS038-190204

Tot Ion: 75 Resp: 136959

Ion Ratio Lower Upper

75 100

77 1.5 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

120000

100000

80000

60000

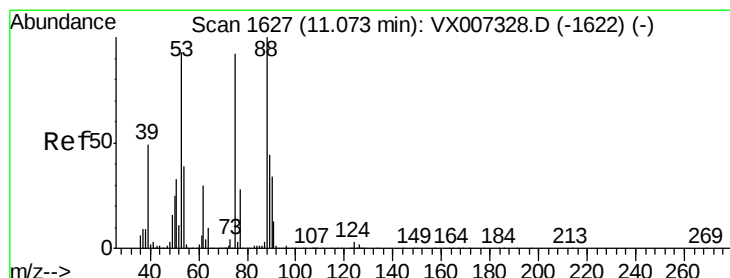
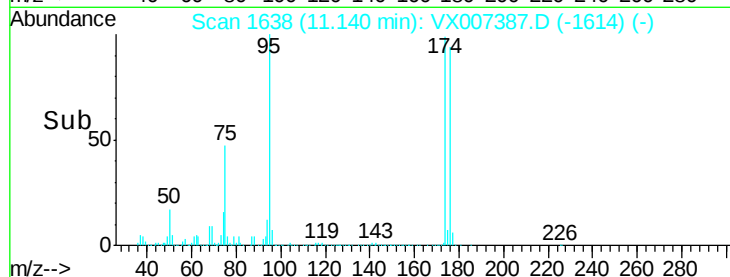
40000

20000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 67.091 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX007387.D

Acq: 05 Feb 2019 19:51

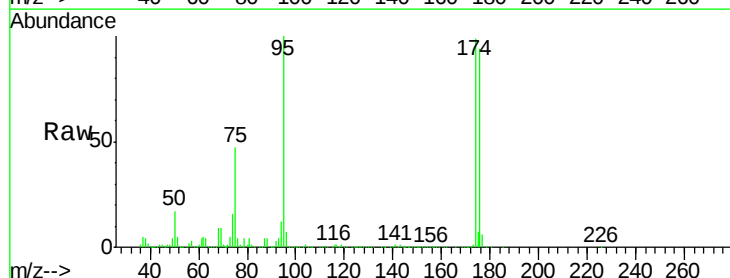
Tgt Ion: 75 Resp: 136959

Ion Ratio Lower Upper

75 100

53 0.4 81.0 121.6#

89 0.0 41.4 62.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

100000

50000

0

11.10 11.20

Time-->

