

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062518\
 Data File : VX002880.D
 Acq On : 26 Jun 2018 00:47
 Operator : JC/MD
 Sample : J3705-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GUNHILL-FIELDBLANK-1-6-21-18

Quant Time: Jun 27 05:29:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	246080	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	344968	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	322397	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	184030	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	165931	48.78	ug/l	0.00
Spiked Amount			Recovery	=	97.56%	
35) Dibromofluoromethane	5.51	113	132783	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	
50) Toluene-d8	8.72	98	485695	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
62) 4-Bromofluorobenzene	11.14	95	171870	44.67	ug/l	0.00
Spiked Amount			Recovery	=	89.34%	

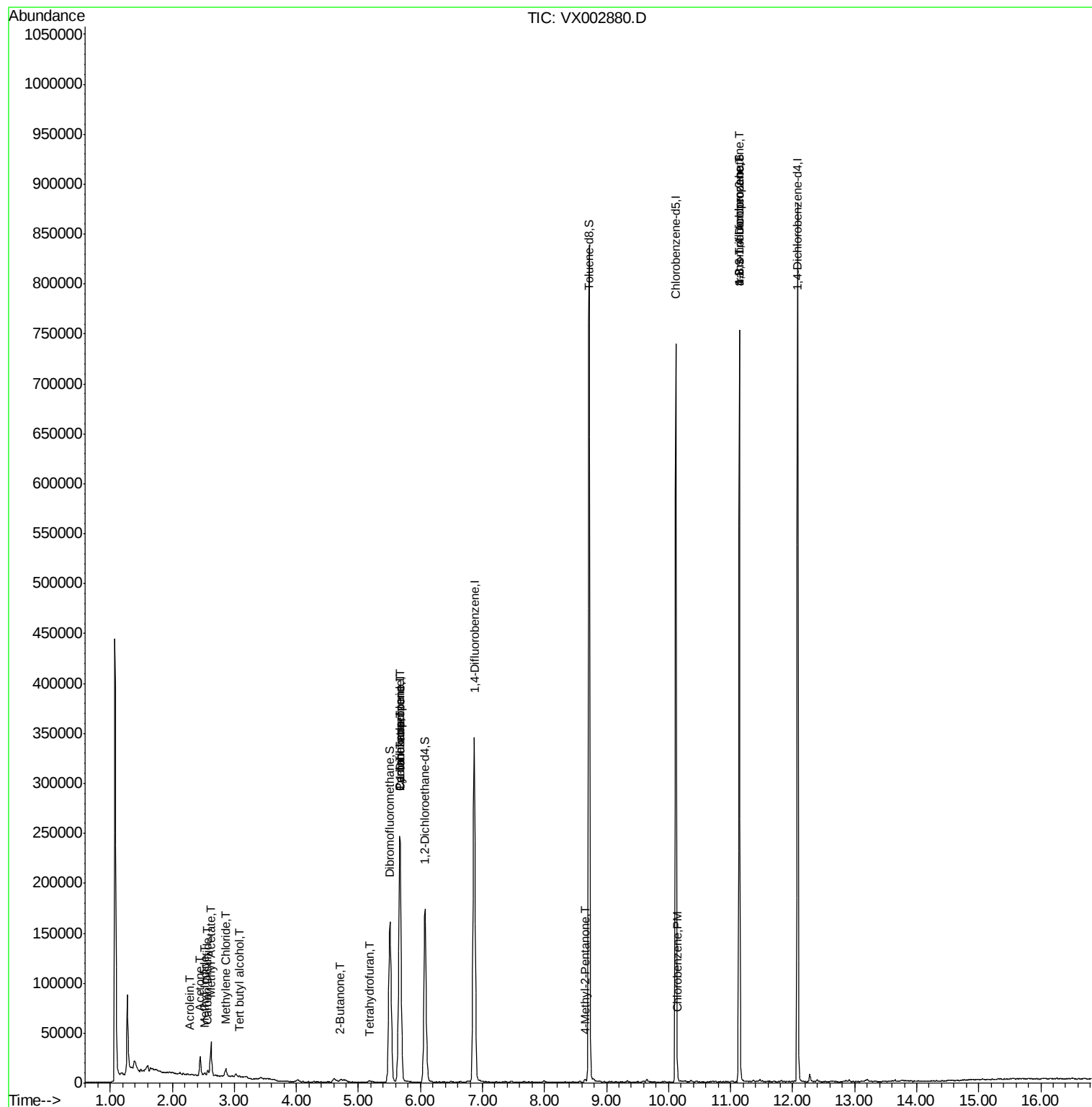
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	67	Below Cal	#	43
3) Chloromethane	1.32	50	875	Below Cal	#	100
5) Bromomethane	1.65	94	1851	Below Cal	#	77
6) Chloroethane	1.72	64	2478	Below Cal	#	67
10) Methyl Iodide	2.52	142	3136	7.22	ug/l	95
11) Tert butyl alcohol	3.08	59	627	0.93	ug/l	# 67
13) Acrolein	2.29	56	128	4.56	ug/l	# 1
16) Acetone	2.45	43	19532	13.87	ug/l	99
17) Carbon Disulfide	2.57	76	7006	1.08	ug/l	# 91
18) Methyl Acetate	2.62	43	9246	2.35	ug/l	# 57
20) Methylene Chloride	2.86	84	3852	1.41	ug/l	95
25) 2-Butanone	4.71	43	5271	2.52	ug/l	98
29) Tetrahydrofuran	5.18	42	1420	1.06	ug/l	# 83
31) Cyclohexane	5.66	56	5004	1.17	ug/l	# 14
36) 1,1-Dichloropropene	5.67	75	16414	4.34	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	22200	5.35	ug/l	# 17
51) 4-Methyl-2-Pentanone	8.65	43	1858	0.43	ug/l	94
65) Chlorobenzene	10.15	112	1846	0.23	ug/l	91
76) 1,2,3-Trichloropropane	11.14	75	91319	27.39	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	91319	77.50	ug/l	# 6

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

Instrument :

MSVOA_X

ClientSampleId :

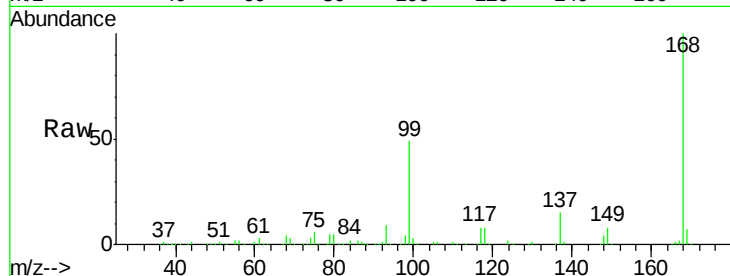
GUNHILL-FIELDBLANK-1-6-21-18

Tot Ion:168 Resp: 246080

Ion Ratio Lower Upper

168 100

99 48.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

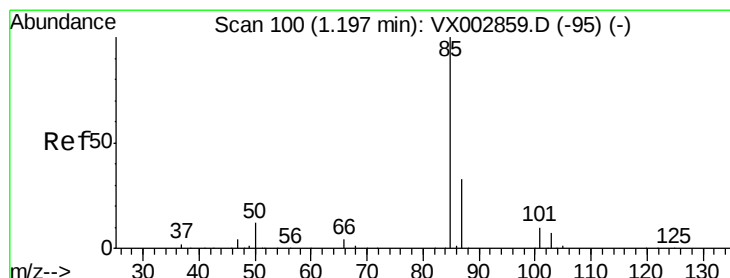
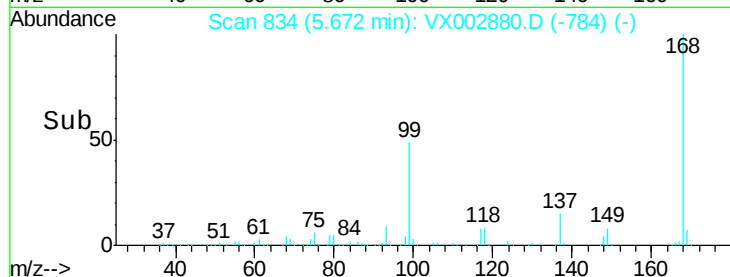
40000

20000

0

Time-->

5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX002880.D

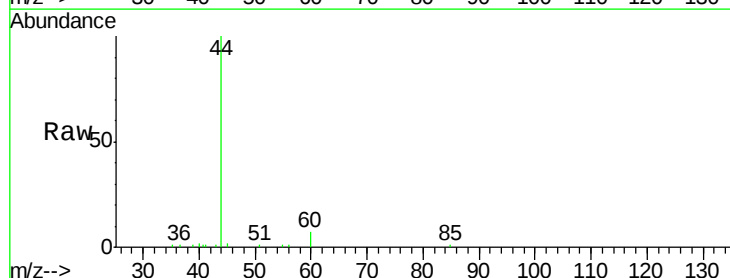
Acq: 26 Jun 2018 00:47

Tgt Ion: 85 Resp: 67

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

80

60

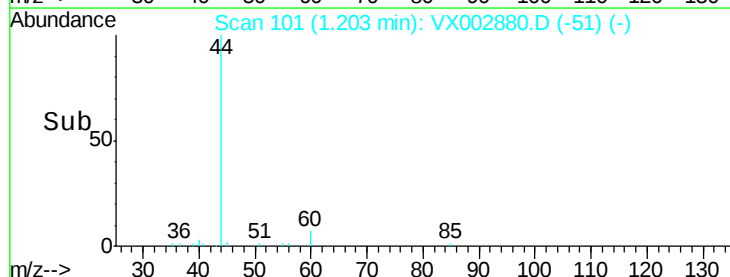
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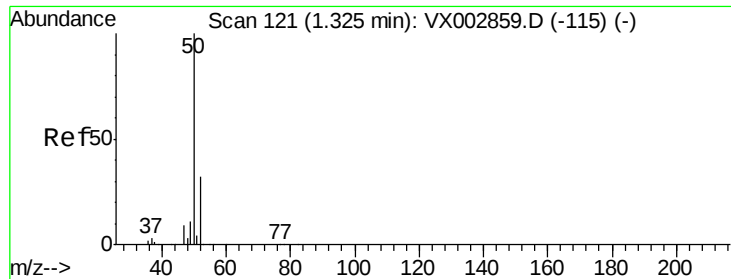
20

0

Time-->

1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

Instrument :

MSVOA_X

ClientSampleId :

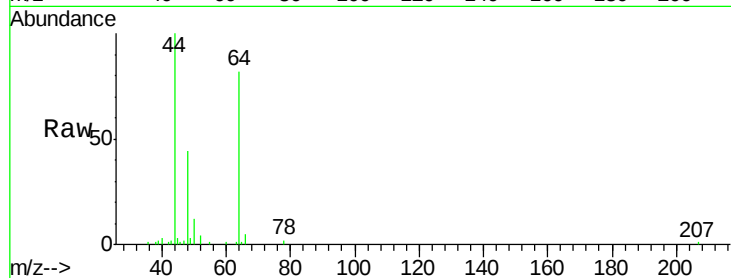
GUNHILL-FIELDBLANK-1-6-21-18

Tot Ion: 50 Resp: 875

Ion Ratio Lower Upper

50 100

52 32.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

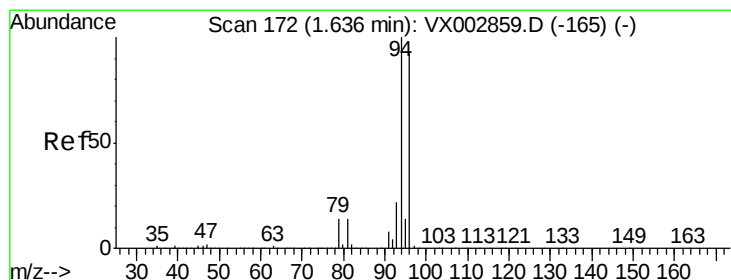
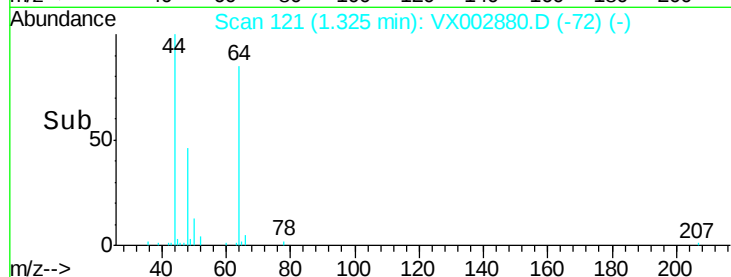
600

400

200

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002880.D

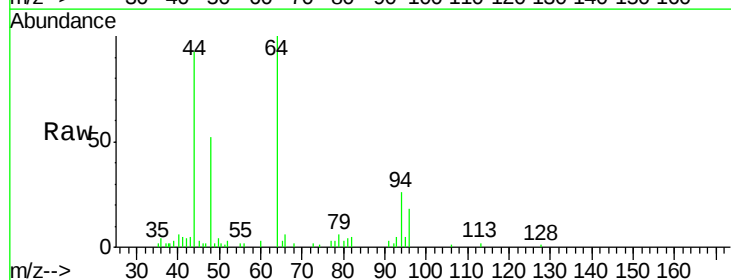
Acq: 26 Jun 2018 00:47

Tgt Ion: 94 Resp: 1851

Ion Ratio Lower Upper

94 100

96 71.2 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

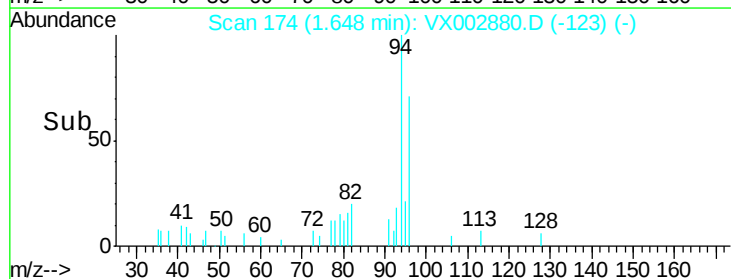
600

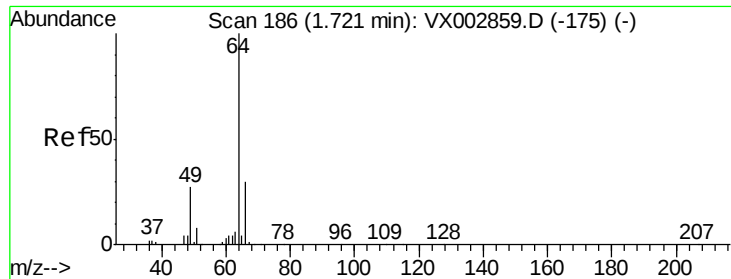
400

200

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

Instrument :

MSVOA_X

ClientSampleId :

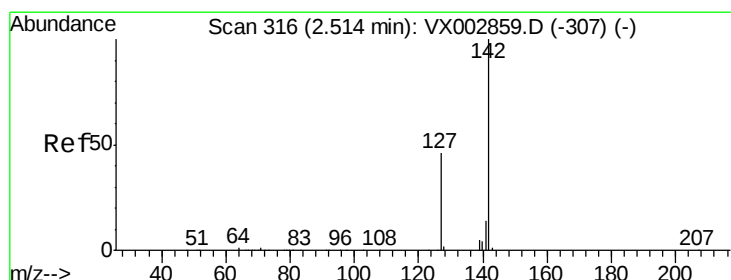
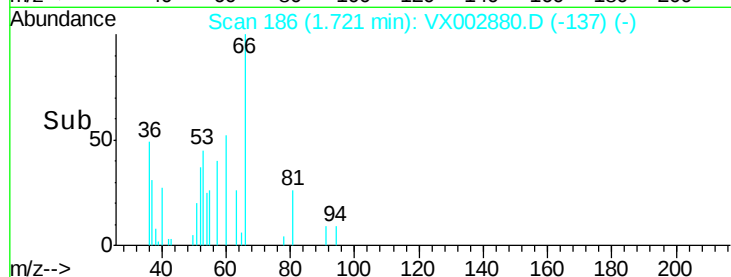
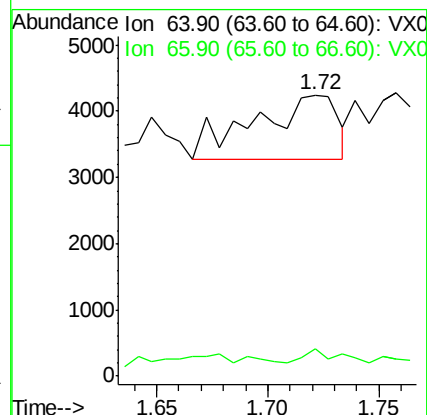
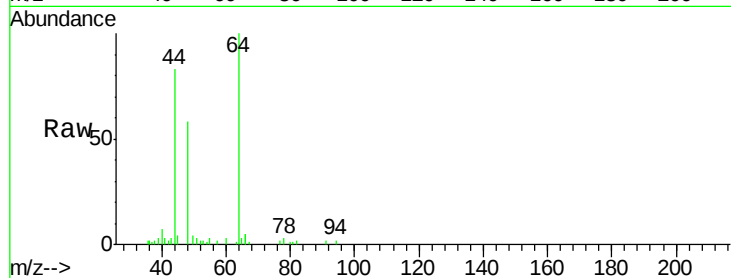
GUNHILL-FIELDBLANK-1-6-21-18

Tot Ion: 64 Resp: 2478

Ion Ratio Lower Upper

64 100

66 13.6 25.5 38.3#



#10

Methyl Iodide

Concen: 7.22 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

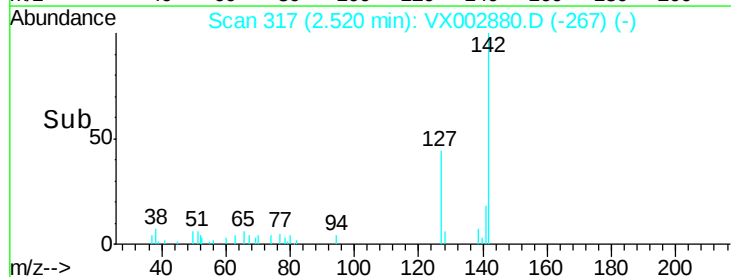
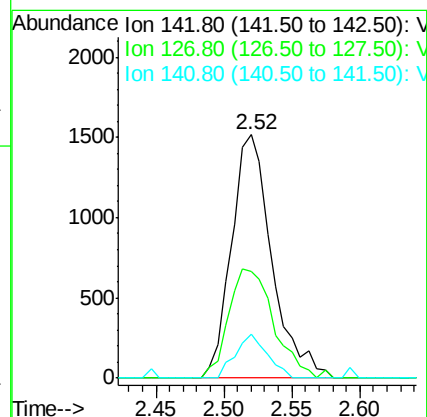
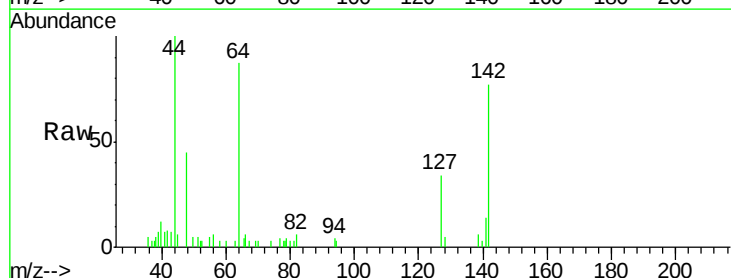
Tgt Ion: 142 Resp: 3136

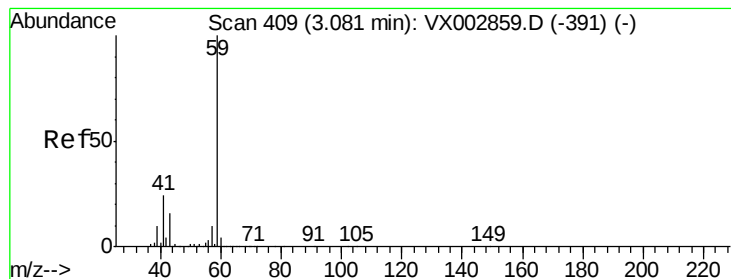
Ion Ratio Lower Upper

142 100

127 50.1 36.6 55.0

141 14.2 11.3 16.9



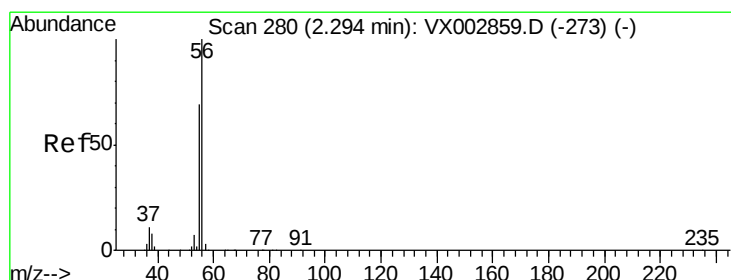
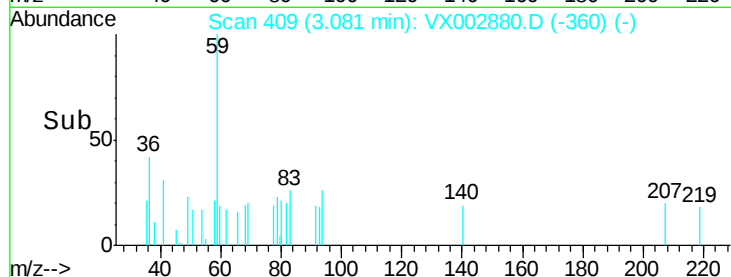
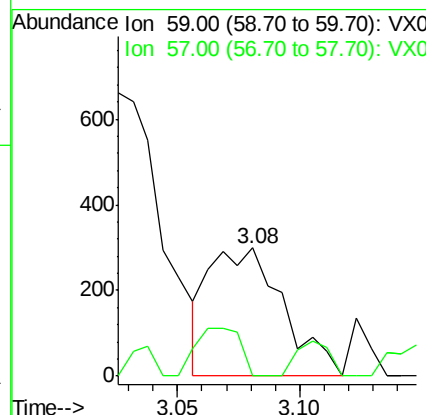
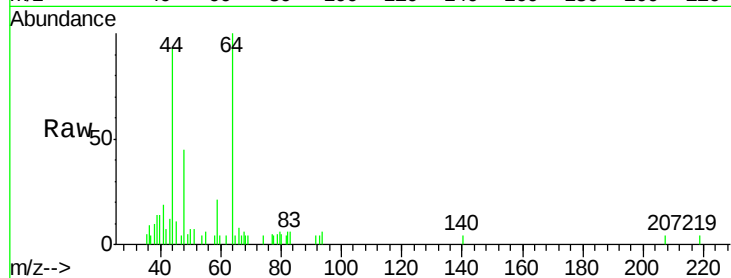


#11

Tert butyl alcohol
Concen: 0.93 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX002880.D
Acq: 26 Jun 2018 00:47

Instrument :
MSVOA_X
ClientSampleId :
GUNHILL-FIELDBLANK-1-6-21-18

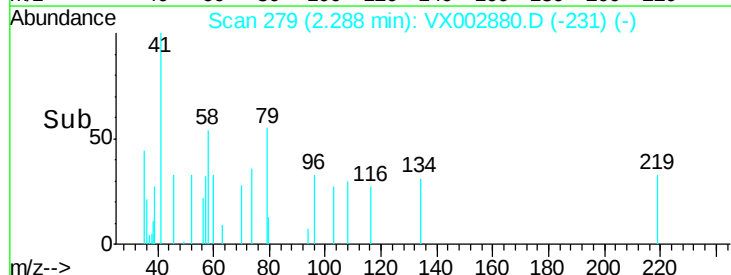
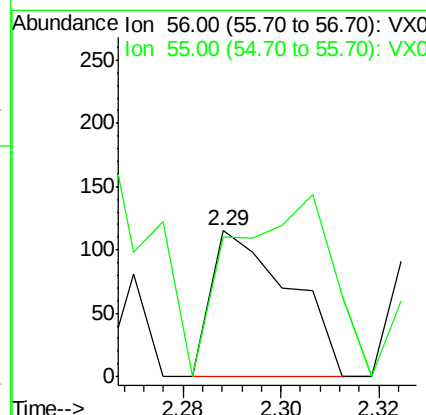
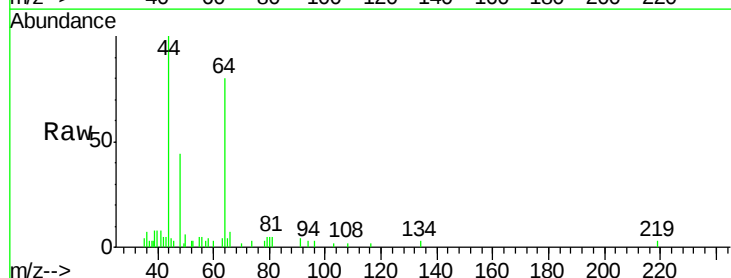
Tot Ion: 59 Resp: 627
Ion Ratio Lower Upper
59 100
57 22.6 8.2 12.2#

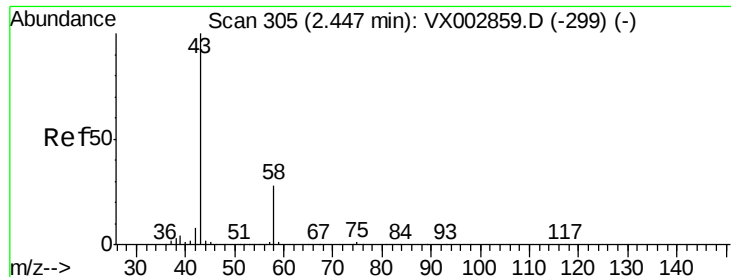


#13

Acrolein
Concen: 4.56 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002880.D
Acq: 26 Jun 2018 00:47

Tgt Ion: 56 Resp: 128
Ion Ratio Lower Upper
56 100
55 156.3 57.0 85.4#





#16

Acetone

Concen: 13.87 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

Instrument :

MSVOA_X

ClientSampleId :

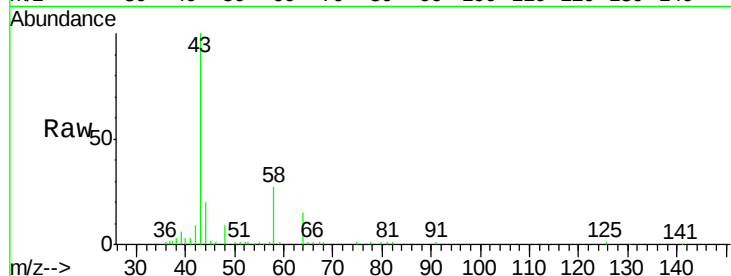
GUNHILL-FIELDBLANK-1-6-21-18

Tot Ion: 43 Resp: 19532

Ion Ratio Lower Upper

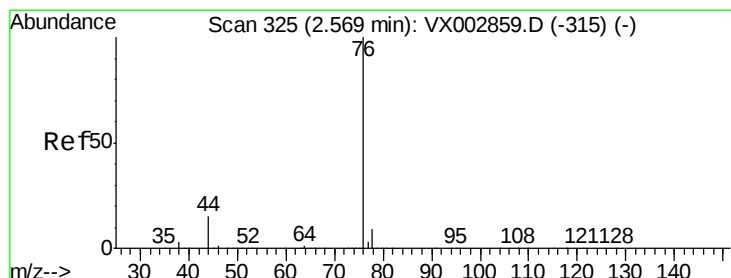
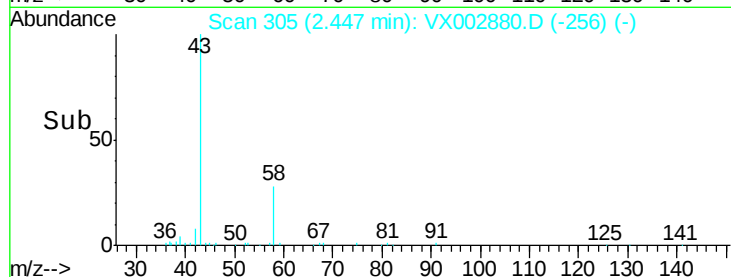
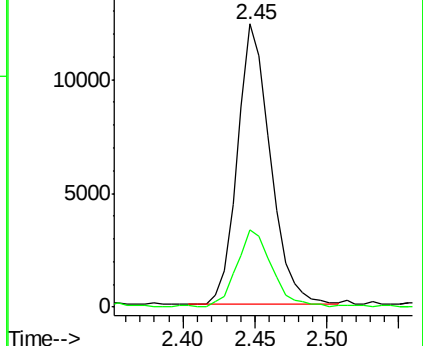
43 100

58 27.0 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.08 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002880.D

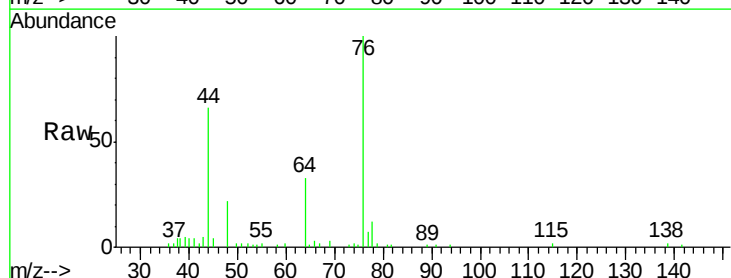
Acq: 26 Jun 2018 00:47

Tgt Ion: 76 Resp: 7006

Ion Ratio Lower Upper

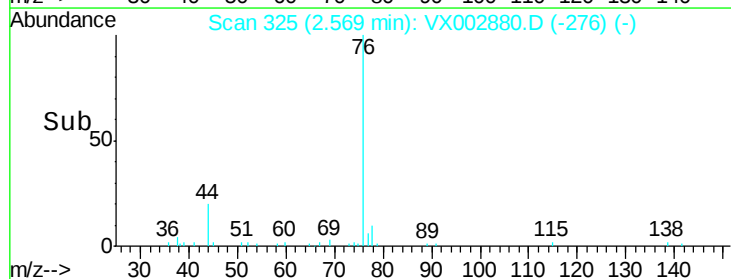
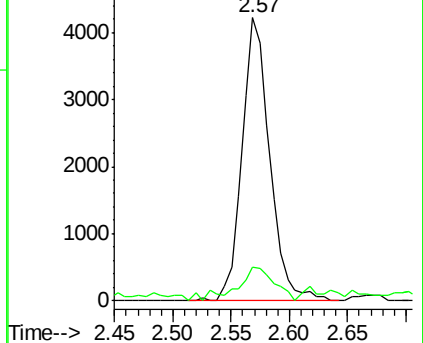
76 100

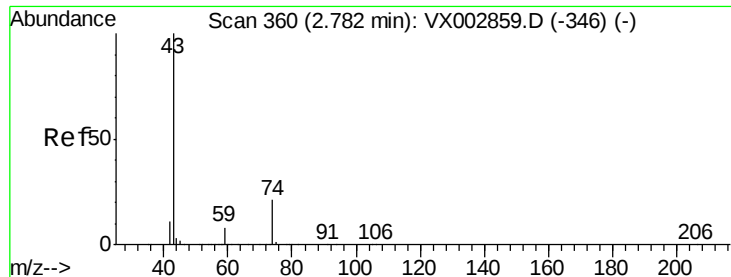
78 11.9 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

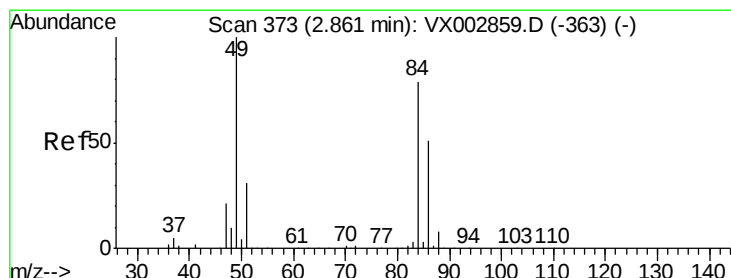
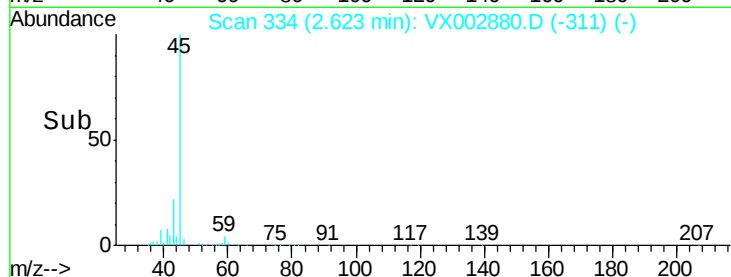
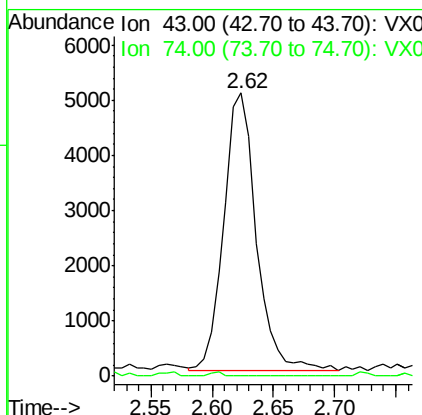
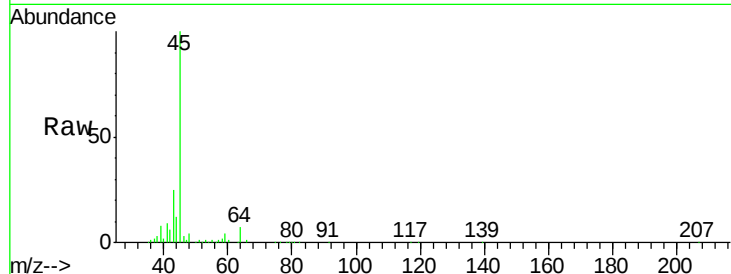




#18
Methyl Acetate
Concen: 2.35 ug/l
RT: 2.62 min Scan# 334
Delta R.T. -0.16 min
Lab File: VX002880.D
Acq: 26 Jun 2018 00:47

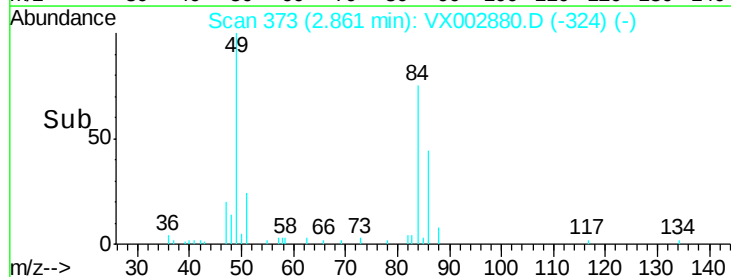
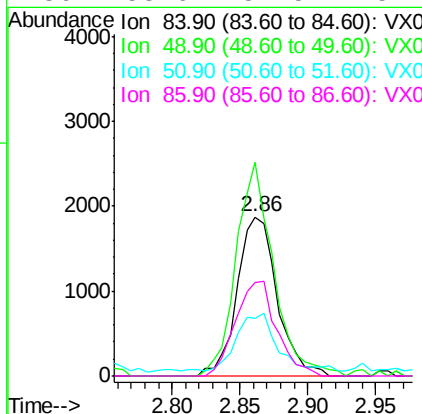
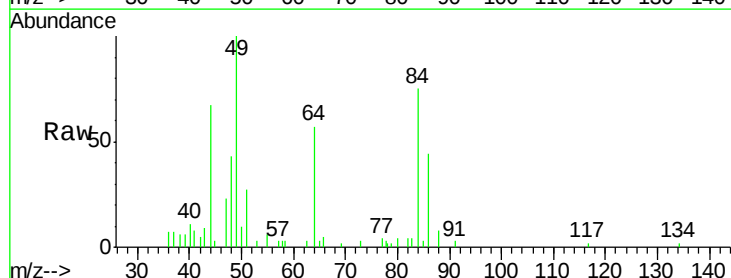
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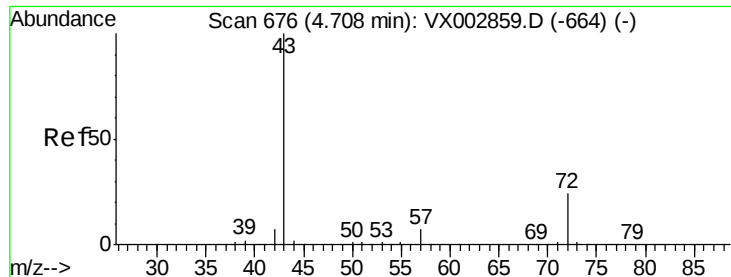
Tot Ion: 43 Resp: 9246
Ion Ratio Lower Upper
43 100
74 0.6 16.7 25.1#



#20
Methylene Chloride
Concen: 1.41 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002880.D
Acq: 26 Jun 2018 00:47

Tgt Ion: 84 Resp: 3852
Ion Ratio Lower Upper
84 100
49 134.1 107.8 161.6
51 33.5 32.8 49.2
86 58.6 52.5 78.7





#25

2-Butanone

Concen: 2.52 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

Instrument :

MSVOA_X

ClientSampleId :

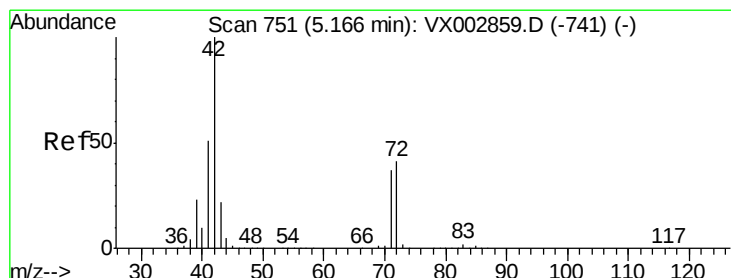
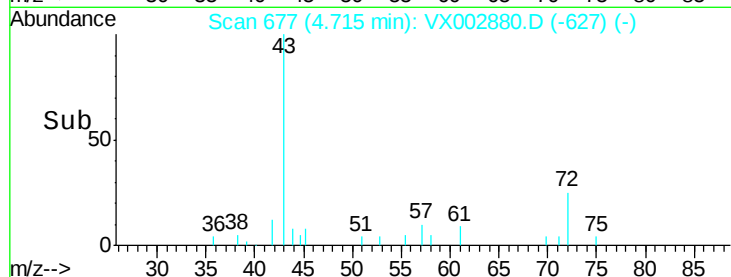
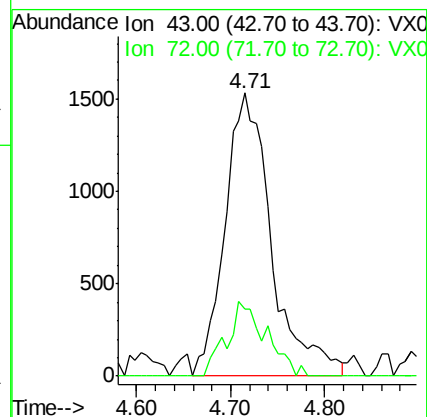
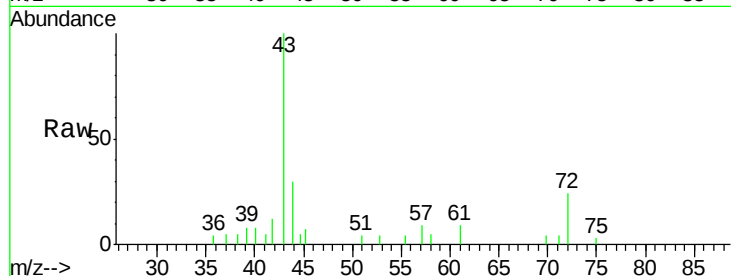
GUNHILL-FIELDBLANK-1-6-21-18

Tot Ion: 43 Resp: 5271

Ion Ratio Lower Upper

43 100

72 23.9 18.5 27.7



#29

Tetrahydrofuran

Concen: 1.06 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

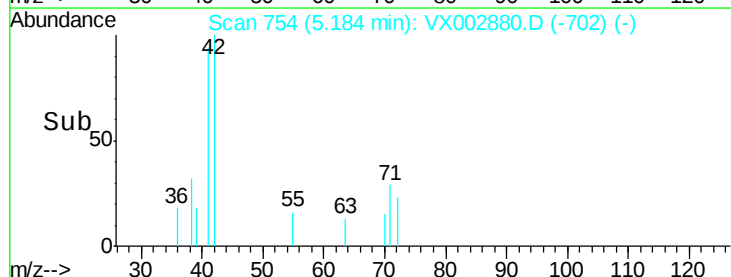
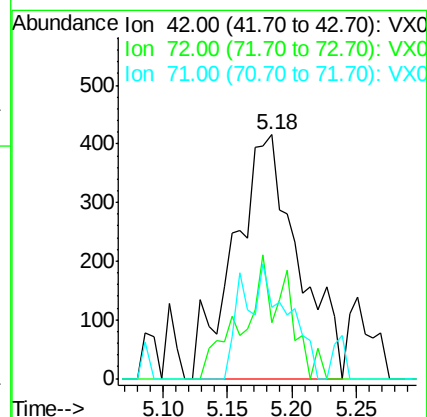
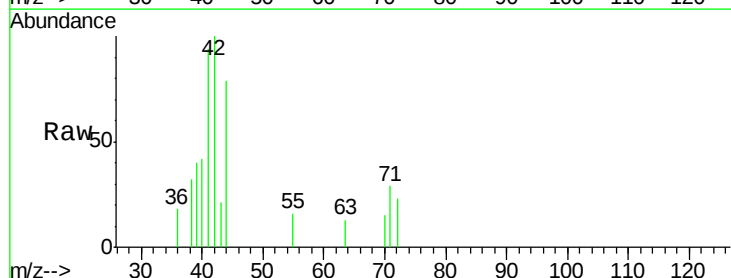
Tgt Ion: 42 Resp: 1420

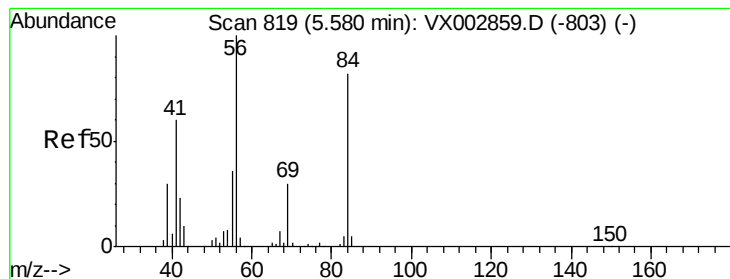
Ion Ratio Lower Upper

42 100

72 35.4 32.0 48.0

71 20.9 30.1 45.1#





#31

Cyclohexane

Concen: 1.17 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

Instrument :

MSVOA_X

ClientSampleId :

GUNHILL-FIELDBLANK-1-6-21-18

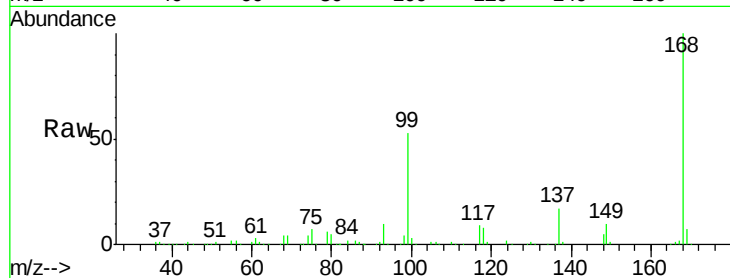
Tot Ion: 56 Resp: 5004

Ion Ratio Lower Upper

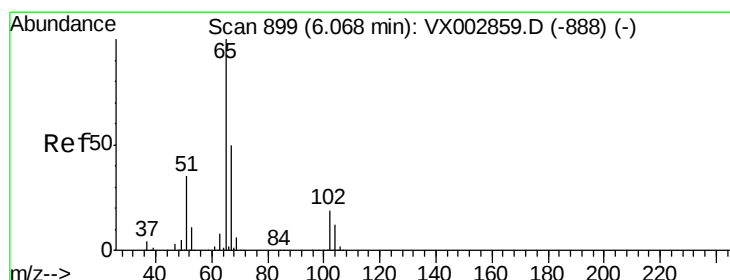
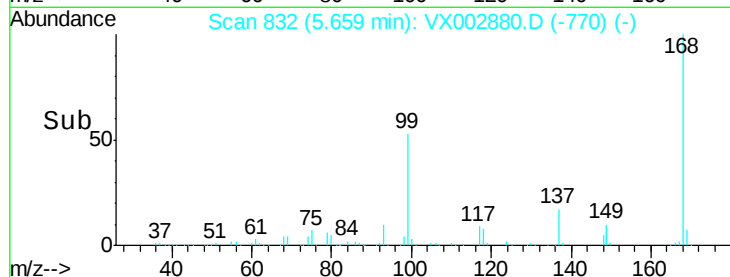
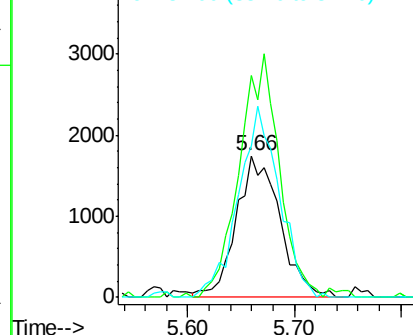
56 100

69 157.1 23.7 35.5#

84 107.1 64.1 96.1#



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: 48.78 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002880.D

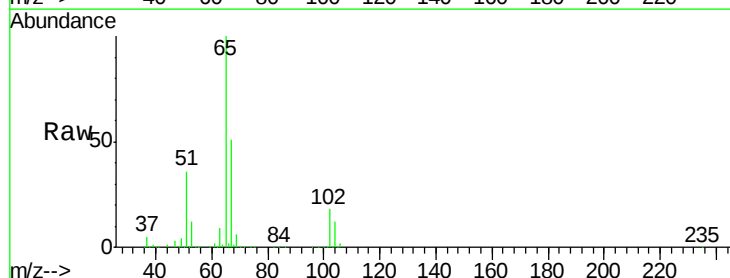
Acq: 26 Jun 2018 00:47

Tgt Ion: 65 Resp: 165931

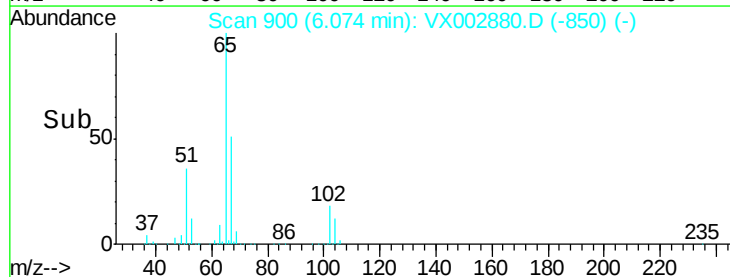
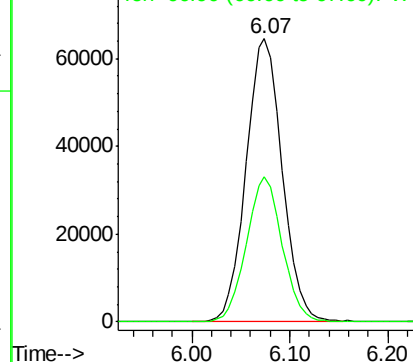
Ion Ratio Lower Upper

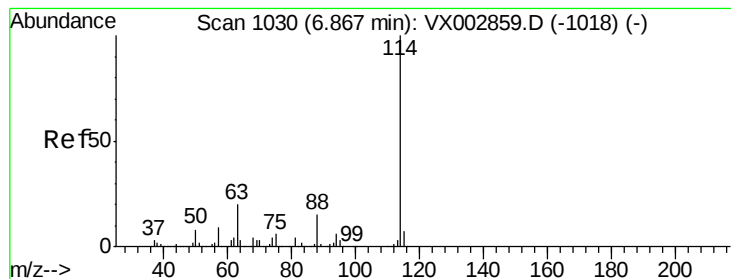
65 100

67 50.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

Instrument :

MSVOA_X

ClientSampleId :

GUNHILL-FIELDBLANK-1-6-21-18

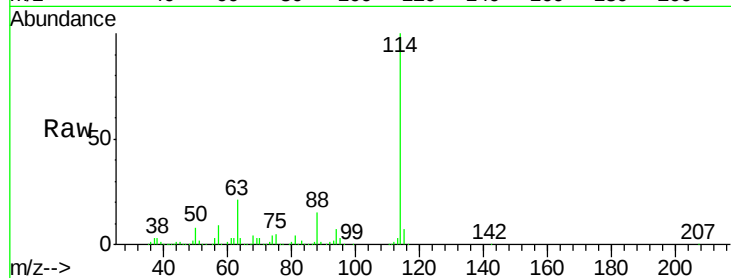
Tot Ion:114 Resp: 344968

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.4

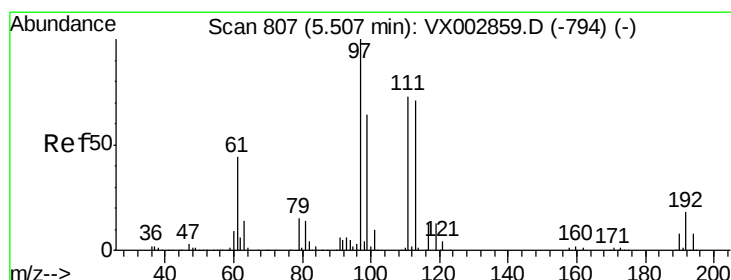
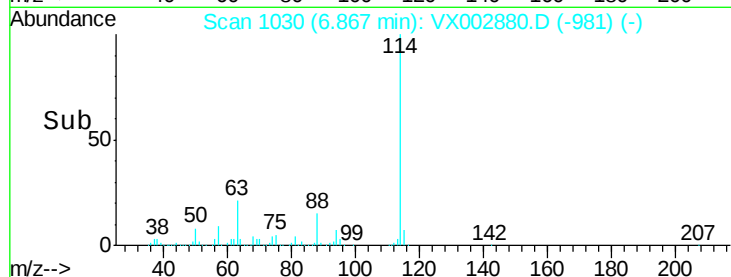
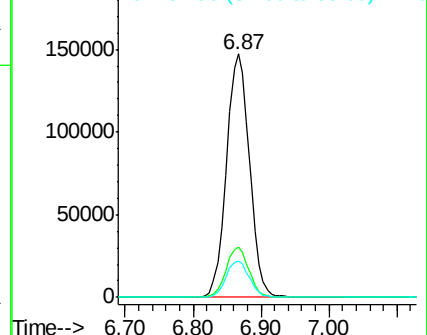
88 14.9 0.0 30.0



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: 48.61 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

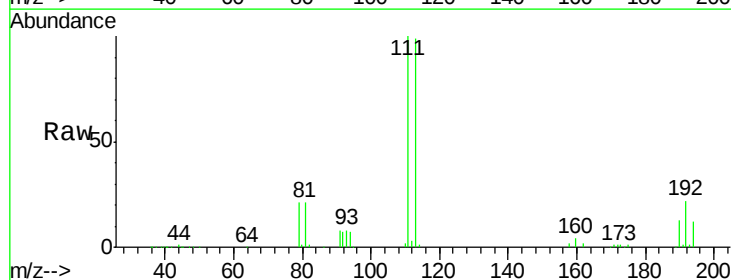
Tgt Ion:113 Resp: 132783

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

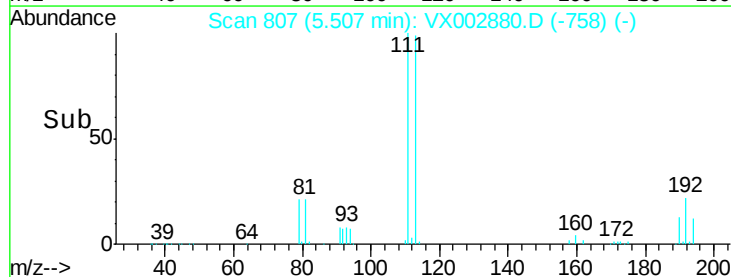
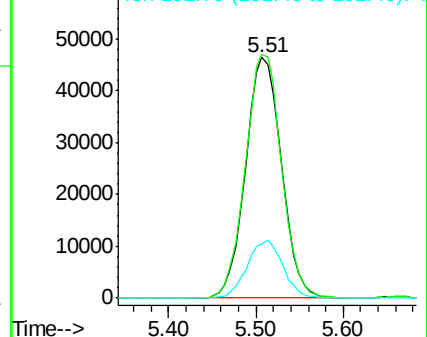
192 23.9 19.1 28.7

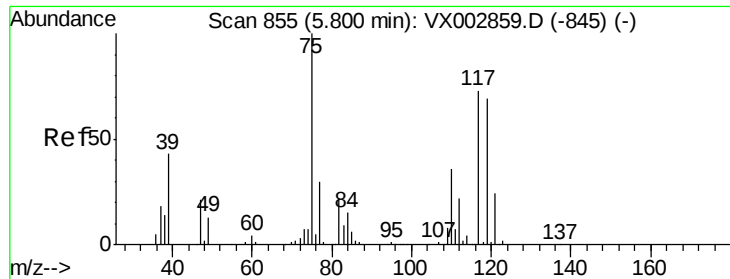


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

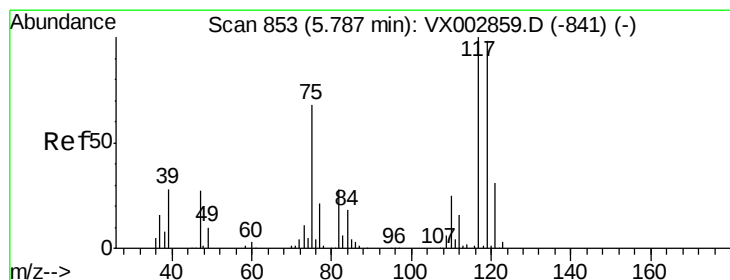
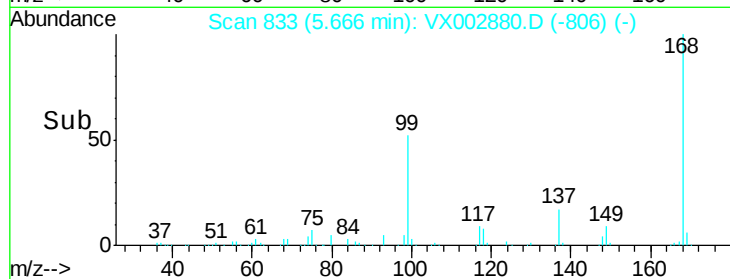
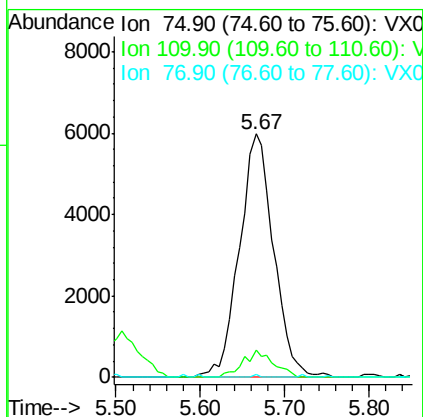
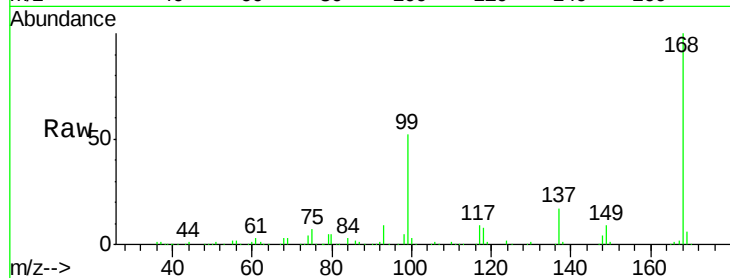




#36
 1,1-Dichloropropene
 Concen: 4.34 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002880.D
 Acq: 26 Jun 2018 00:47

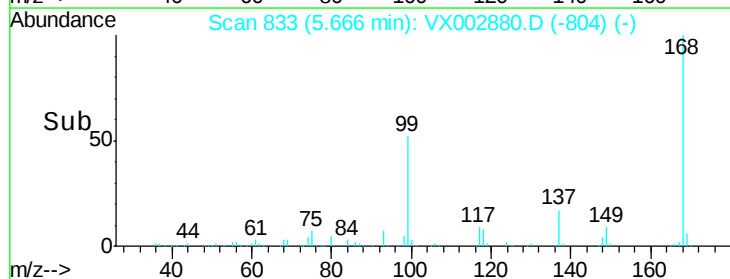
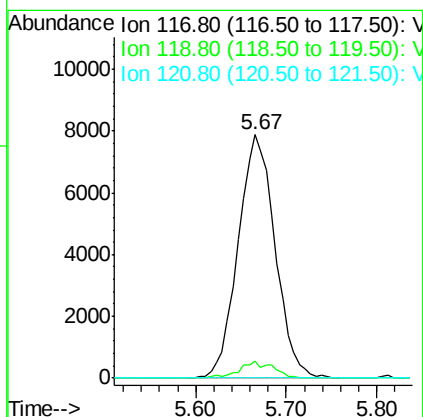
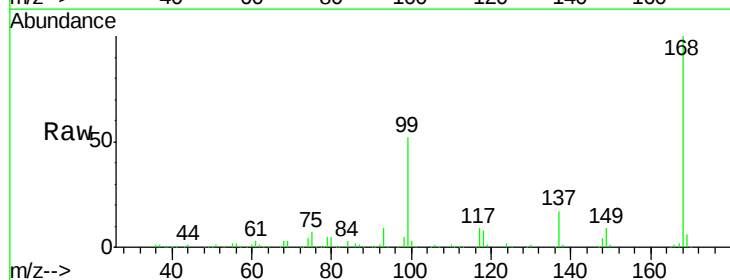
Instrument :
 MSVOA_X
 ClientSampleId :
 GUNHILL-FIELDBLANK-1-6-21-18

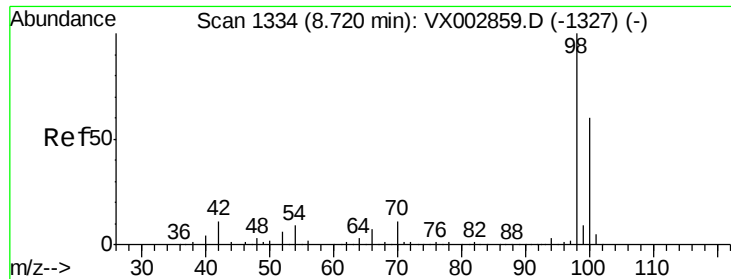
Tot Ion: 75 Resp: 16414
 Ion Ratio Lower Upper
 75 100
 110 9.9 18.1 54.4#
 77 0.1 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.35 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002880.D
 Acq: 26 Jun 2018 00:47

Tgt Ion: 117 Resp: 22200
 Ion Ratio Lower Upper
 117 100
 119 7.2 77.4 116.0#
 121 0.0 24.4 36.6#

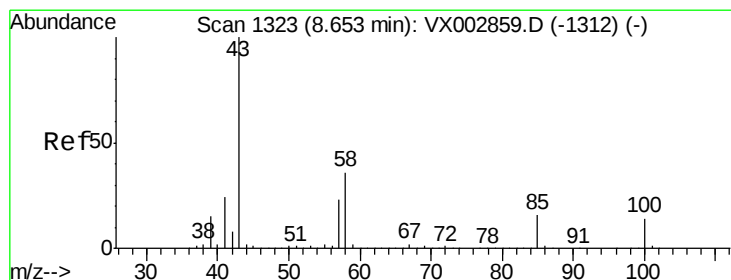
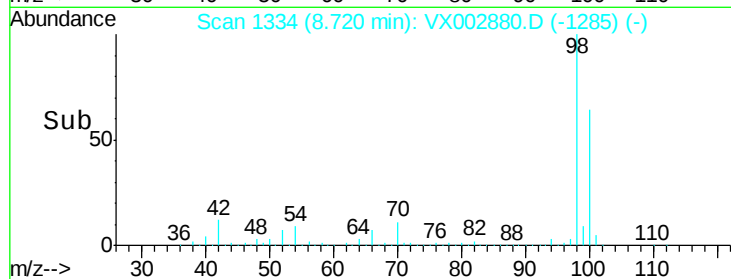
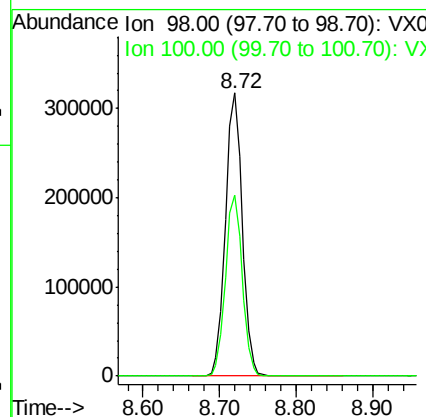
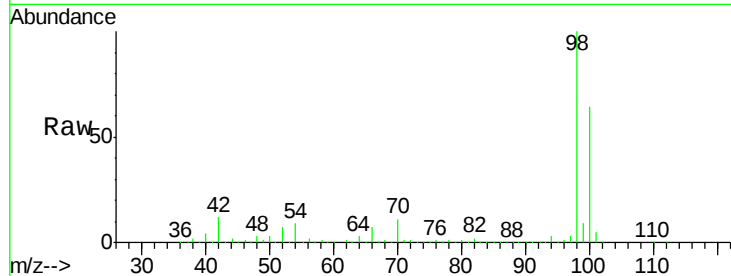




#50
Toluene-d8
Concen: 48.69 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002880.D
Acq: 26 Jun 2018 00:47

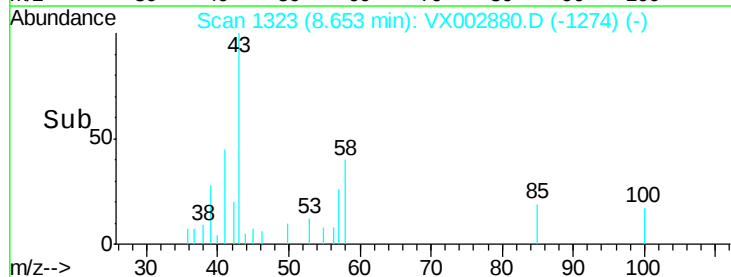
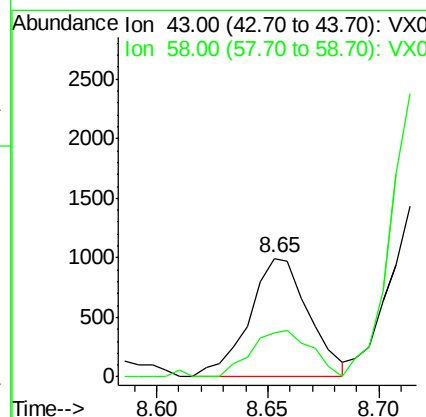
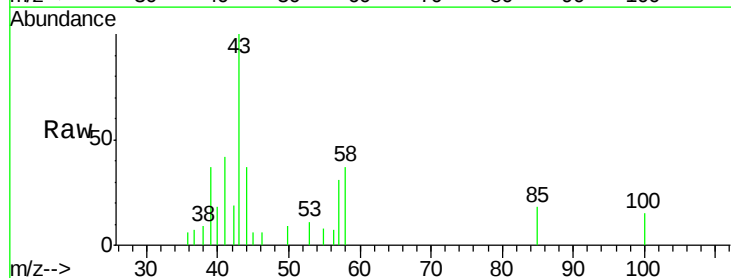
Instrument :
MSVOA_X
ClientSampleId :
GUNHILL-FIELDBLANK-1-6-21-18

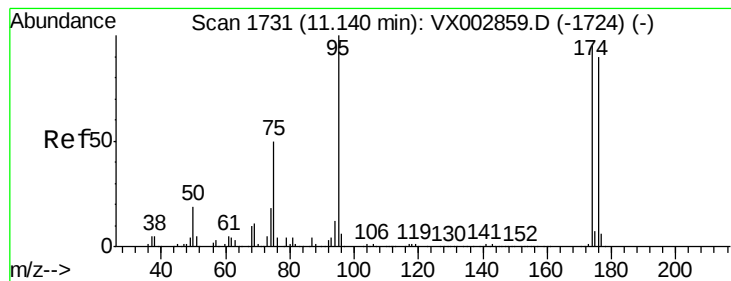
Tot Ion: 98 Resp: 485695
Ion Ratio Lower Upper
98 100
100 64.0 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.43 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VX002880.D
Acq: 26 Jun 2018 00:47

Tgt Ion: 43 Resp: 1858
Ion Ratio Lower Upper
43 100
58 39.1 28.6 42.8





#62

4-Bromofluorobenzene

Concen: 44.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

Instrument :

MSVOA_X

ClientSampleId :

GUNHILL-FIELDBLANK-1-6-21-18

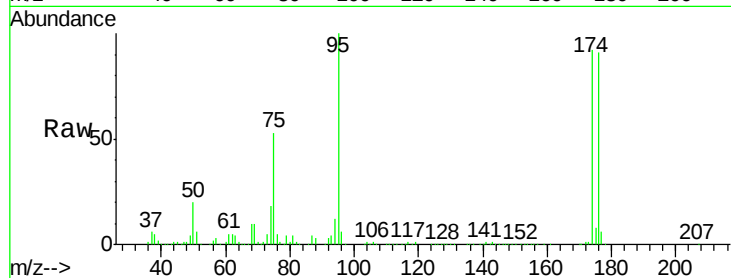
Tot Ion: 95 Resp: 171870

Ion Ratio Lower Upper

95 100

174 96.2 0.0 187.4

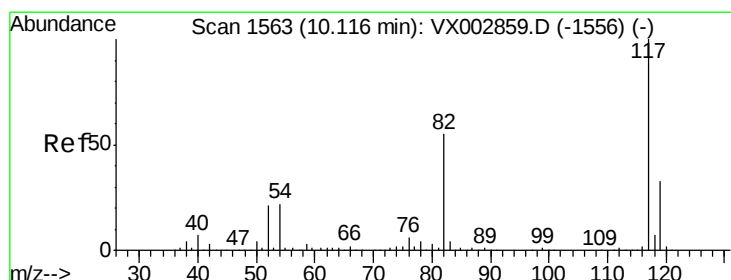
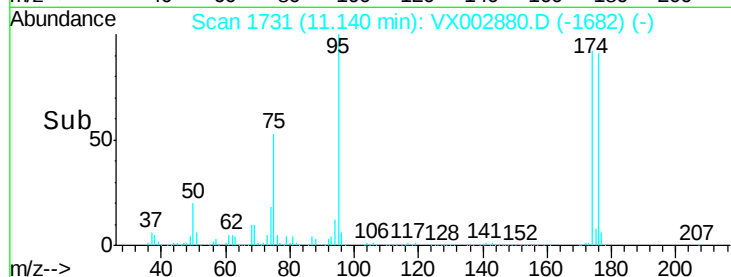
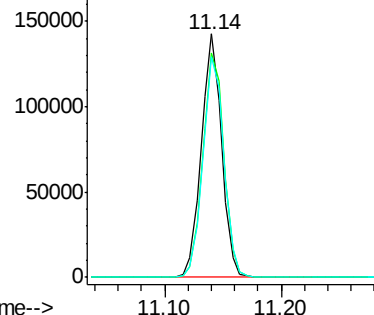
176 93.8 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002880.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002880.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002880.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002880.D

Acq: 26 Jun 2018 00:47

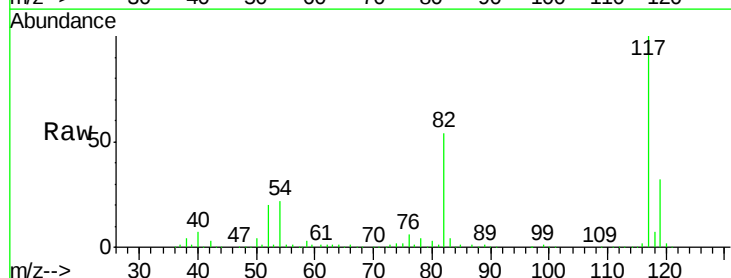
Tgt Ion: 117 Resp: 322397

Ion Ratio Lower Upper

117 100

82 53.8 45.0 67.4

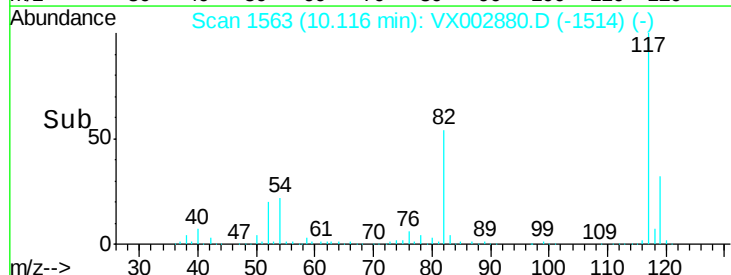
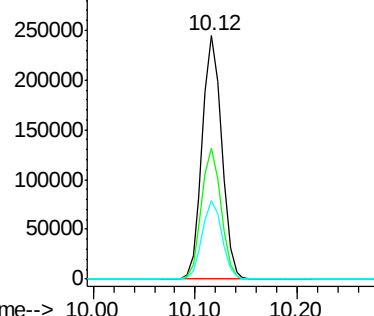
119 32.1 25.8 38.6

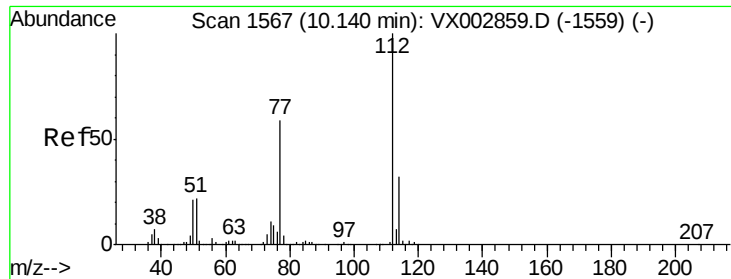


Abundance Ion 116.90 (116.60 to 117.60): VX002880.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002880.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002880.D (-1514) (-)

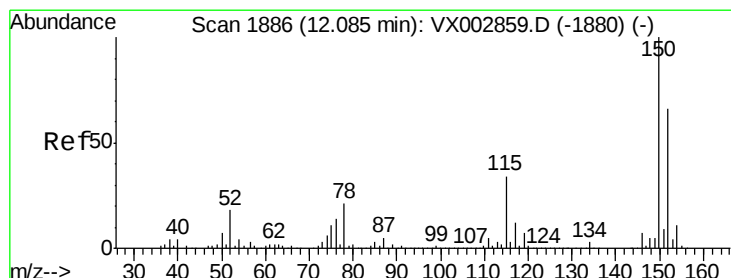
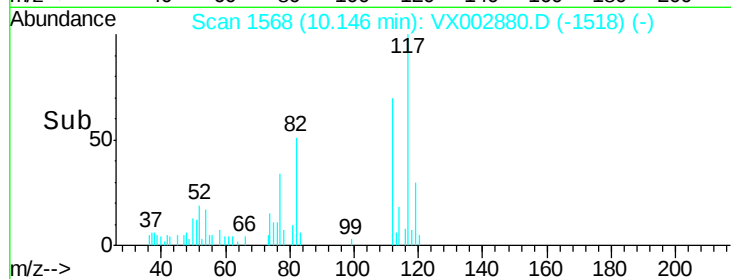
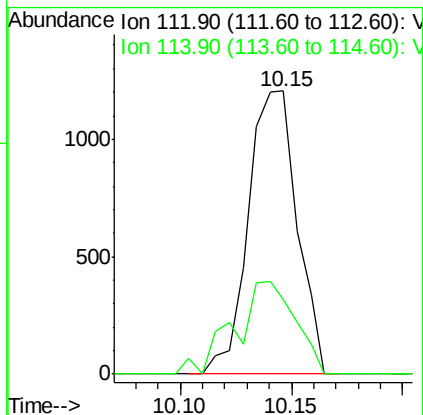
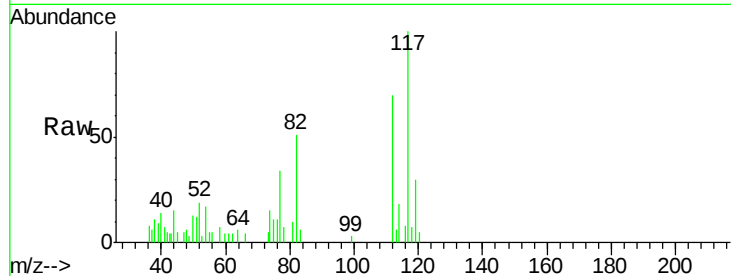




#65
Chlorobenzene
Concen: 0.23 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX002880.D
Acq: 26 Jun 2018 00:47

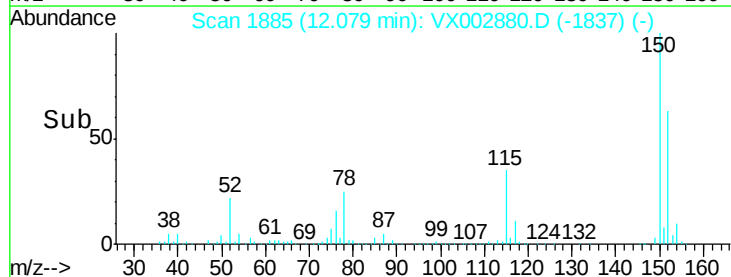
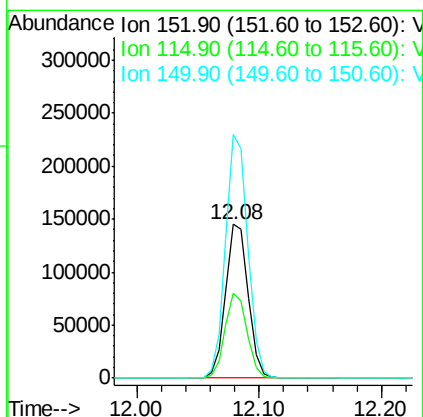
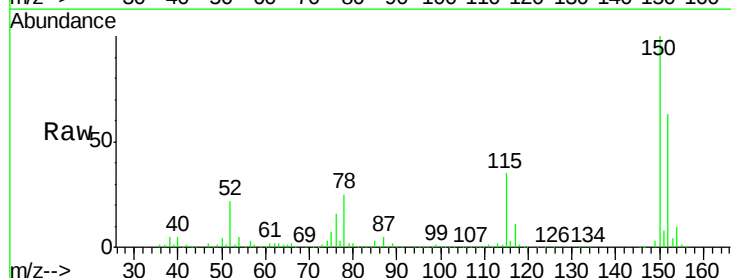
Instrument :
MSVOA_X
ClientSampleId :
GUNHILL-FIELDBLANK-1-6-21-18

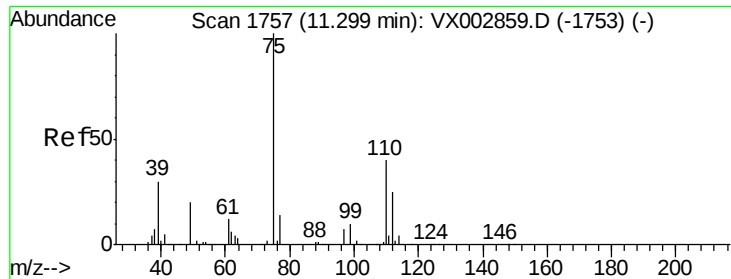
Tot Ion:112 Resp: 1846
Ion Ratio Lower Upper
112 100
114 26.5 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX002880.D
Acq: 26 Jun 2018 00:47

Tgt Ion:152 Resp: 184030
Ion Ratio Lower Upper
152 100
115 54.0 40.1 120.2
150 156.5 0.0 347.2

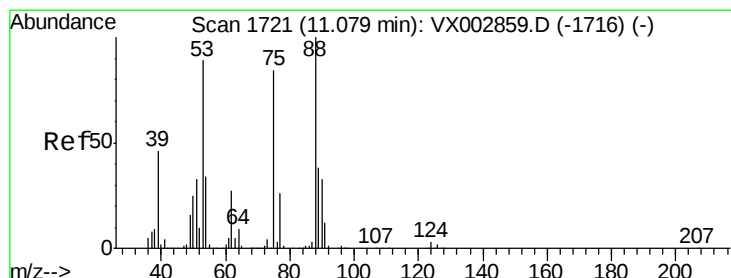
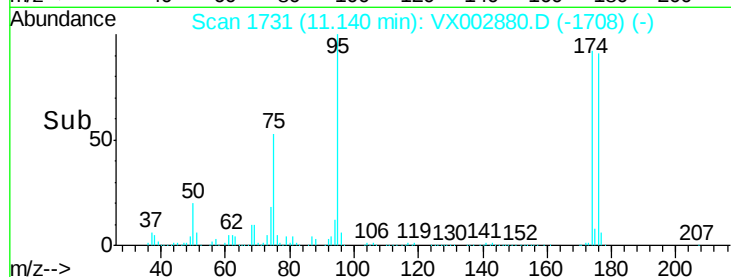
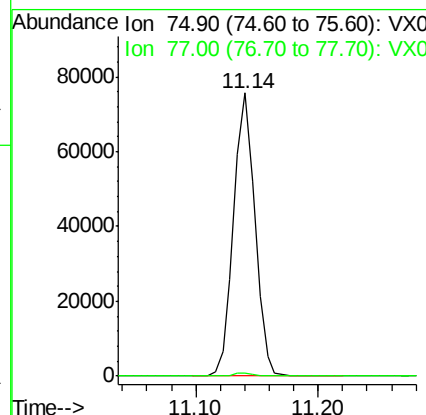
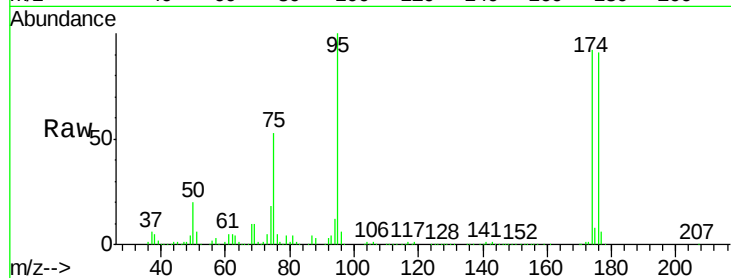




#76
 1,2,3-Trichloropropane
 Concen: 27.39 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002880.D
 Acq: 26 Jun 2018 00:47

Instrument :
 MSVOA_X
 ClientSampleId :
 GUNHILL-FIELDBLANK-1-6-21-18

Tot Ion: 75 Resp: 91319
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.50 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002880.D
 Acq: 26 Jun 2018 00:47

Tgt Ion: 75 Resp: 91319
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

