

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062718\
 Data File : VX002970.D
 Acq On : 28 Jun 2018 07:04
 Operator : JC/MD
 Sample : J3691-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GUNHILL-TRIPBLANK-2-6-20-18

Quant Time: Jun 28 07:52:10 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	269132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	378953	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	352216	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	207447	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	182691	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
35) Dibromofluoromethane	5.51	113	148688	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
50) Toluene-d8	8.72	98	537185	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
62) 4-Bromofluorobenzene	11.14	95	194073	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	

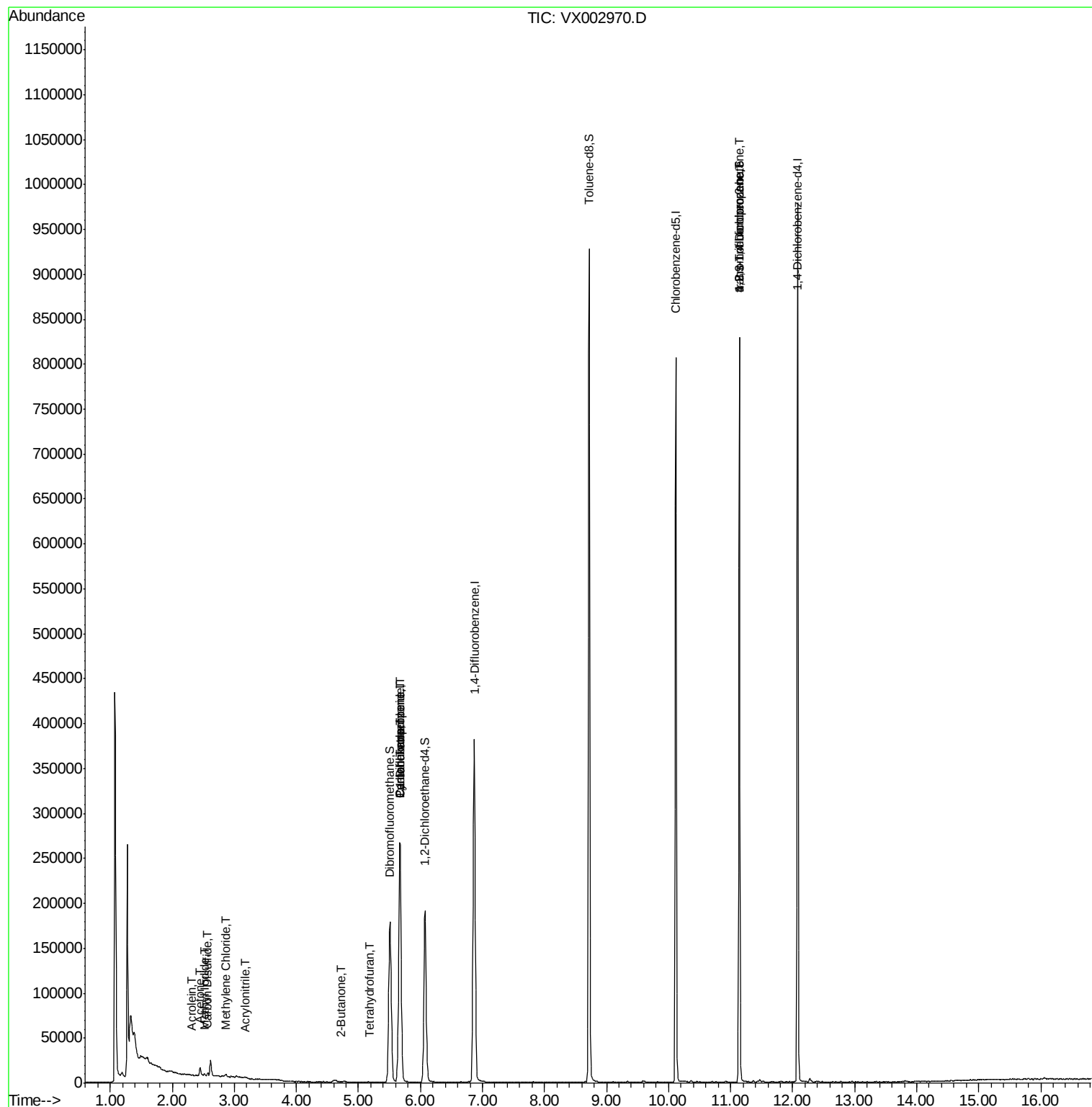
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	56	Below Cal	#	43
3) Chloromethane	1.33	50	2443	Below Cal	#	72
5) Bromomethane	1.65	94	1092	Below Cal		84
6) Chloroethane	1.99	64	456	Below Cal	#	70
10) Methyl Iodide	2.52	142	1884	6.77	ug/l	98
13) Acrolein	2.31	56	235	4.79	ug/l #	78
15) Acrylonitrile	3.17	53	479	0.30	ug/l #	17
16) Acetone	2.45	43	9221	5.99	ug/l	96
17) Carbon Disulfide	2.57	76	4921	0.70	ug/l	99
20) Methylene Chloride	2.86	84	1343	0.45	ug/l #	80
25) 2-Butanone	4.72	43	514	0.22	ug/l #	13
29) Tetrahydrofuran	5.18	42	611	0.42	ug/l #	62
31) Cyclohexane	5.67	56	5612	1.20	ug/l #	22
36) 1,1-Dichloropropene	5.67	75	18045	4.34	ug/l #	51
38) Carbon Tetrachloride	5.67	117	25323	5.55	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	99529	26.49	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	99529	75.05	ug/l #	7

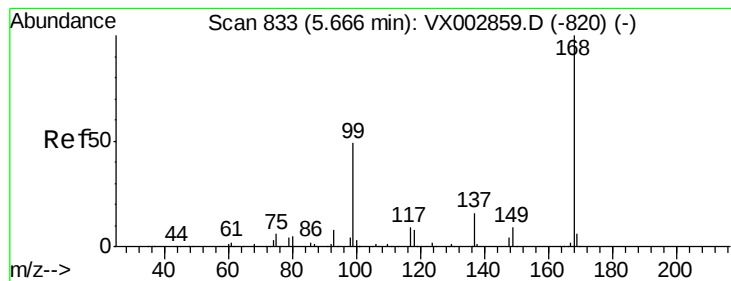
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

Instrument :

MSVOA_X

ClientSampleId :

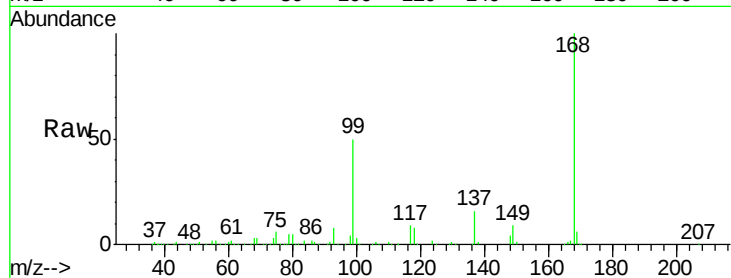
GUNHILL-TRIPBLANK-2-6-20-18

Tot Ion:168 Resp: 269132

Ion Ratio Lower Upper

168 100

99 50.2 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

100000

80000

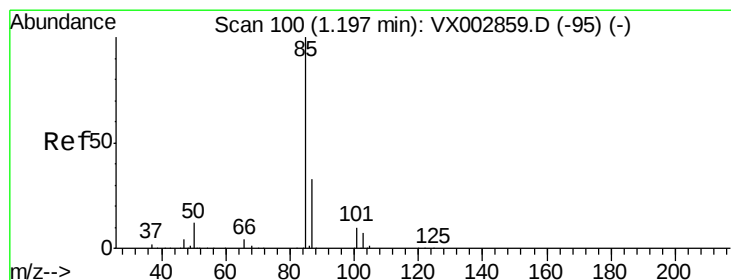
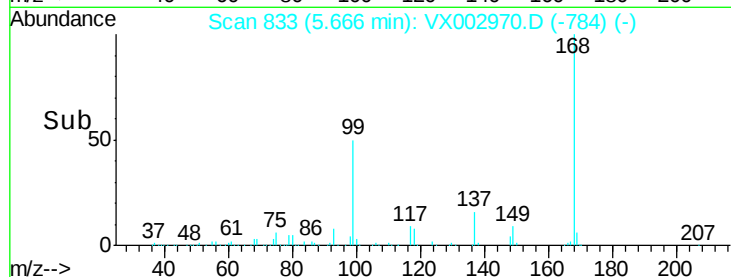
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002970.D

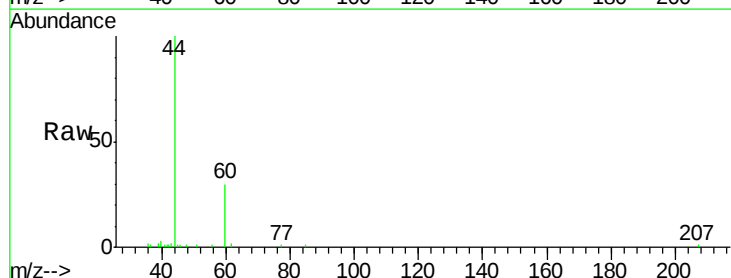
Acq: 28 Jun 2018 07:04

Tgt Ion: 85 Resp: 56

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

100

80

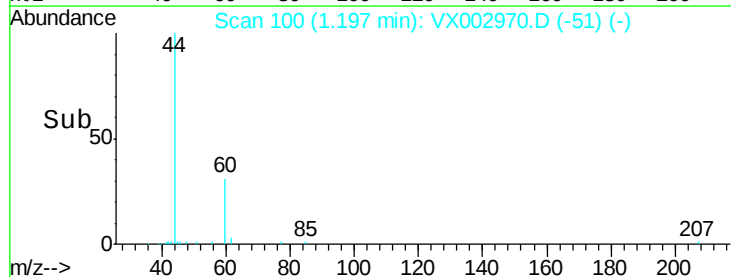
60

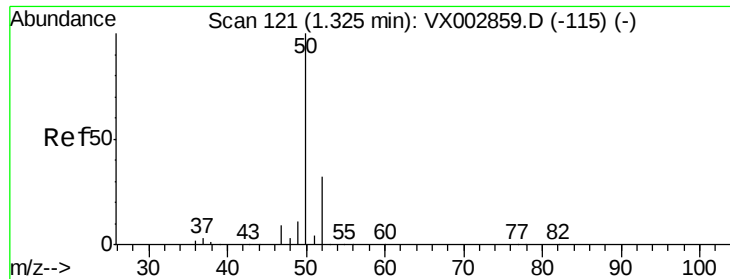
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

Instrument :

MSVOA_X

ClientSampleId :

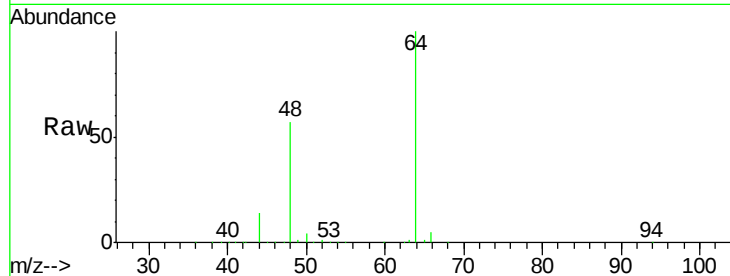
GUNHILL-TRIPBLANK-2-6-20-18

Tot Ion: 50 Resp: 2443

Ion Ratio Lower Upper

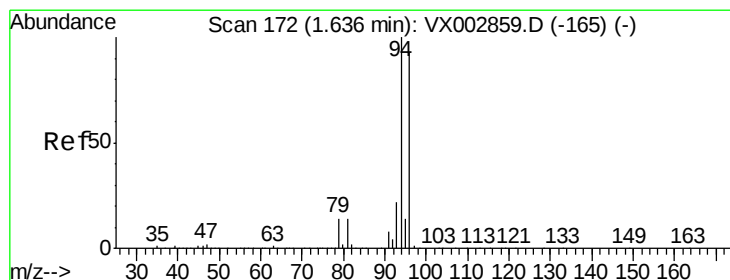
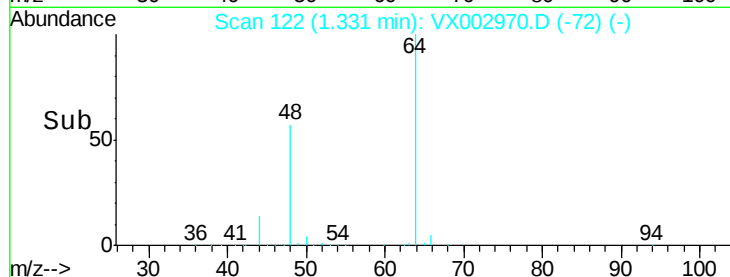
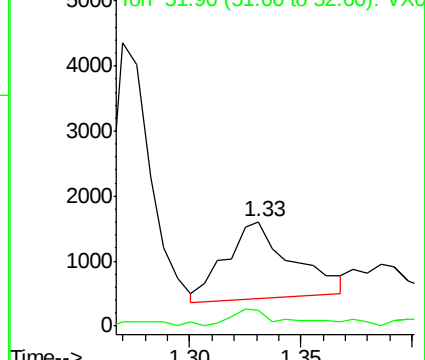
50 100

52 16.4 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: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002970.D

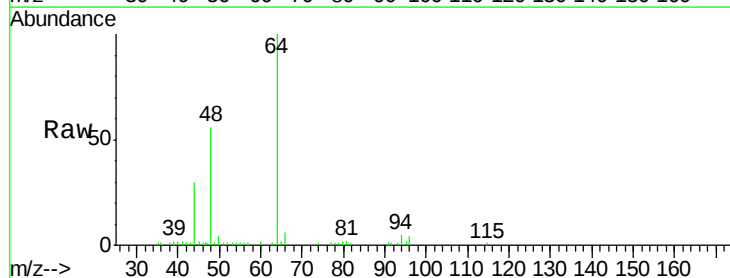
Acq: 28 Jun 2018 07:04

Tgt Ion: 94 Resp: 1092

Ion Ratio Lower Upper

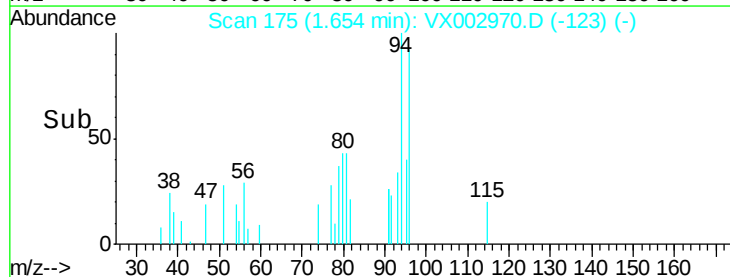
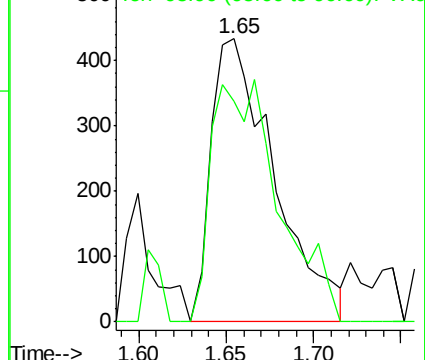
94 100

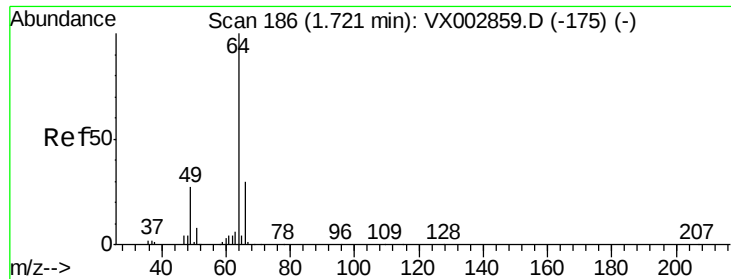
96 77.8 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.99 min Scan# 230

Delta R.T. 0.27 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

Instrument :

MSVOA_X

ClientSampleId :

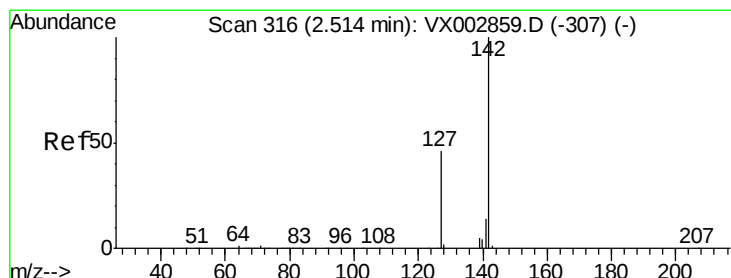
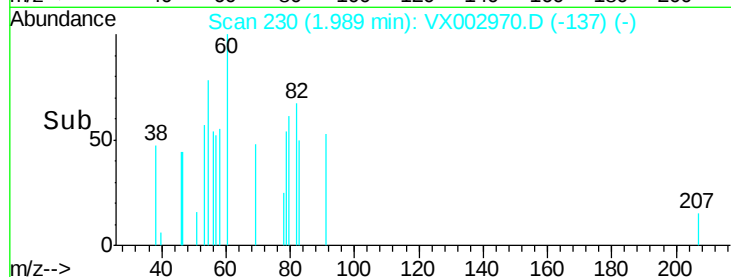
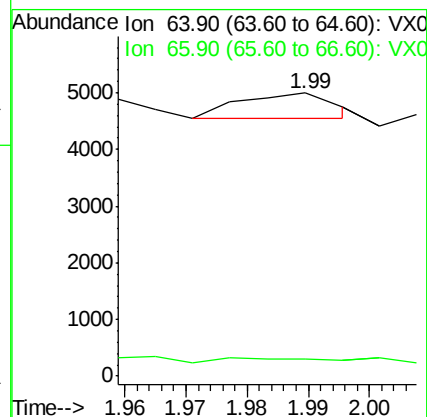
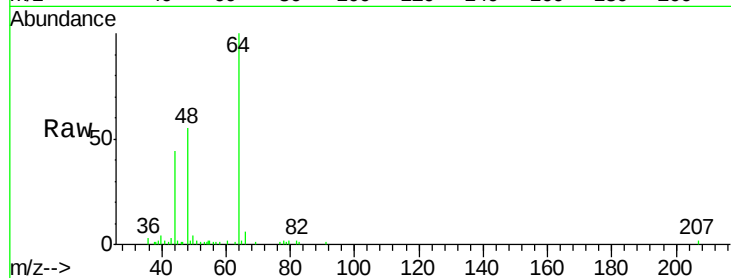
GUNHILL-TRIPBLANK-2-6-20-18

Tot Ion: 64 Resp: 456

Ion Ratio Lower Upper

64 100

66 15.3 25.5 38.3#



#10

Methyl Iodide

Concen: 6.77 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

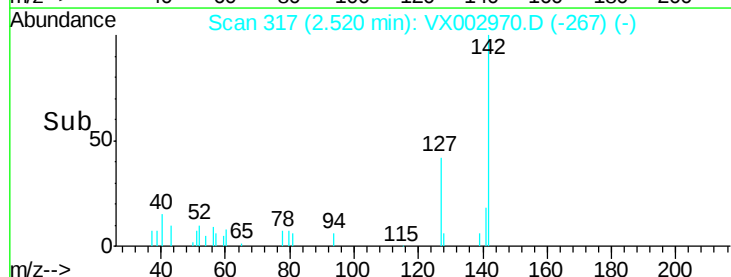
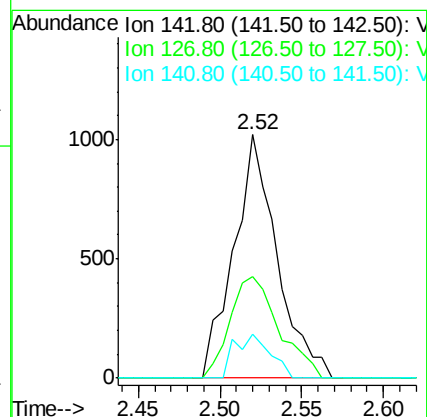
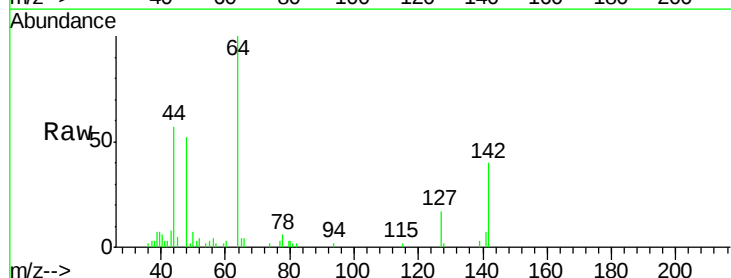
Tgt Ion:142 Resp: 1884

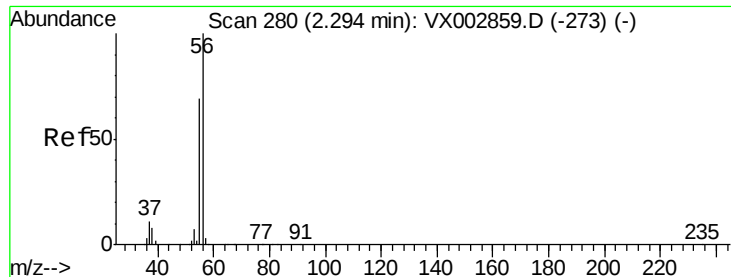
Ion Ratio Lower Upper

142 100

127 47.0 36.6 55.0

141 14.9 11.3 16.9





#13

Acrolein

Concen: 4.79 ug/l

RT: 2.31 min Scan# 283

Delta R.T. 0.02 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

Instrument :

MSVOA_X

ClientSampleId :

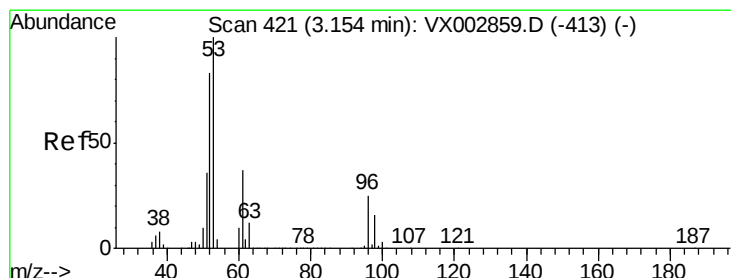
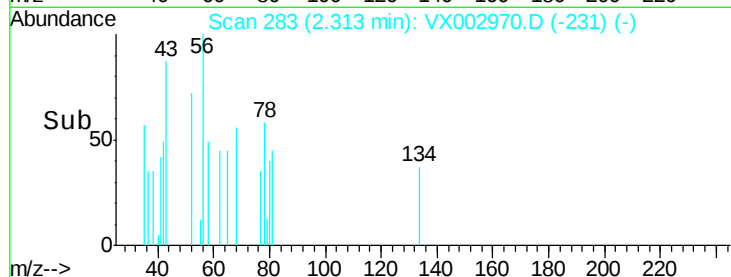
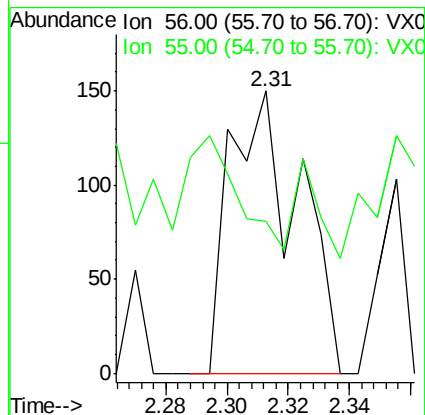
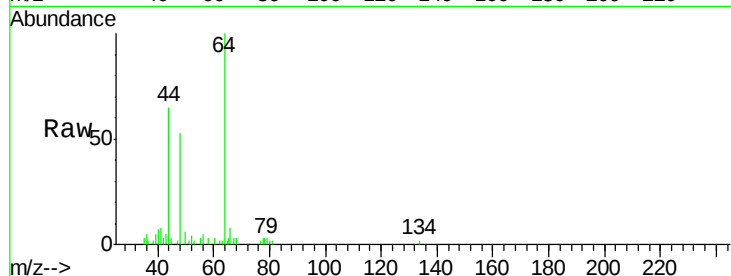
GUNHILL-TRIPBLANK-2-6-20-18

Tot Ion: 56 Resp: 235

Ion Ratio Lower Upper

56 100

55 89.8 57.0 85.4#



#15

Acrylonitrile

Concen: 0.30 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

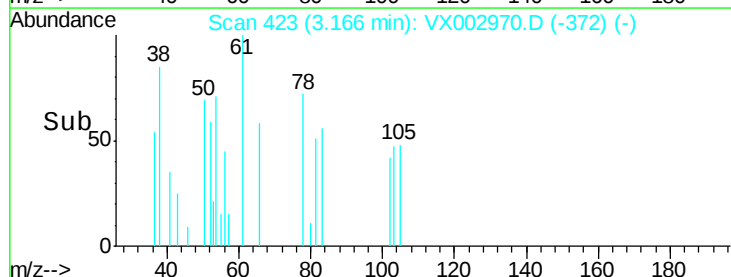
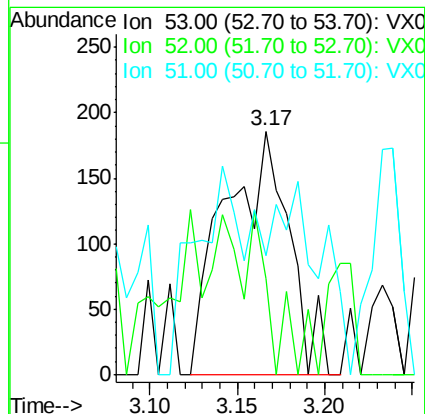
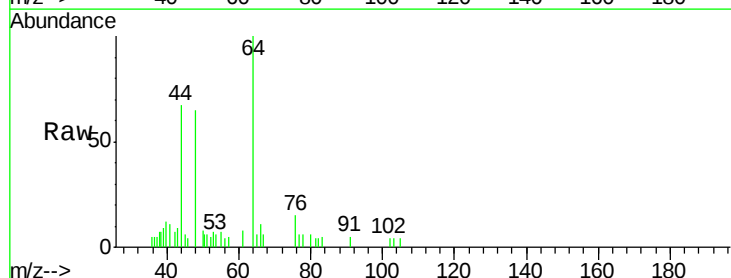
Tgt Ion: 53 Resp: 479

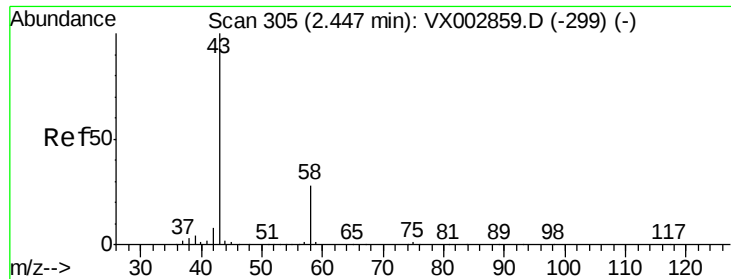
Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 0.0 29.9 44.9#





#16

Acetone

Concen: 5.99 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

Instrument :

MSVOA_X

ClientSampleId :

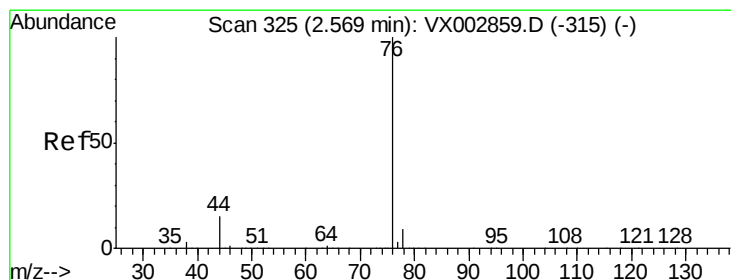
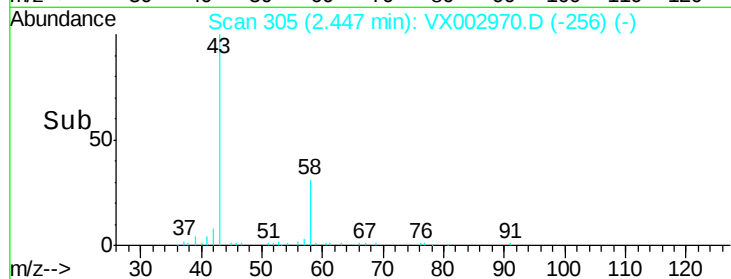
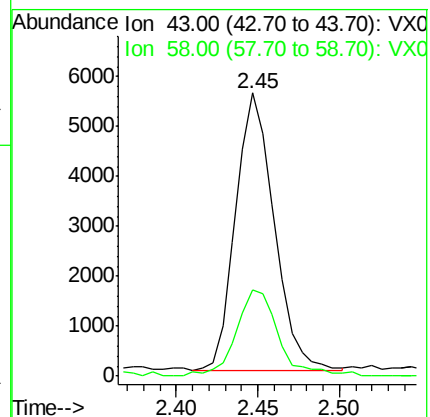
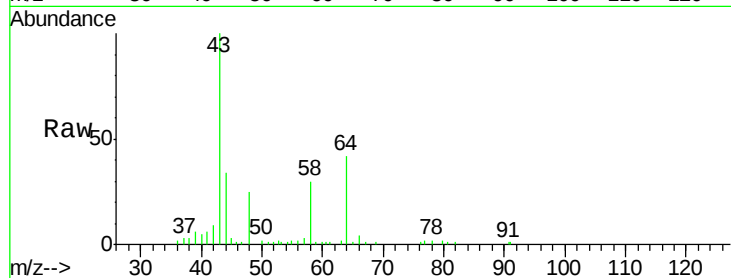
GUNHILL-TRIPBLANK-2-6-20-18

Tot Ion: 43 Resp: 9221

Ion Ratio Lower Upper

43 100

58 29.8 22.1 33.1



#17

Carbon Disulfide

Concen: 0.70 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX002970.D

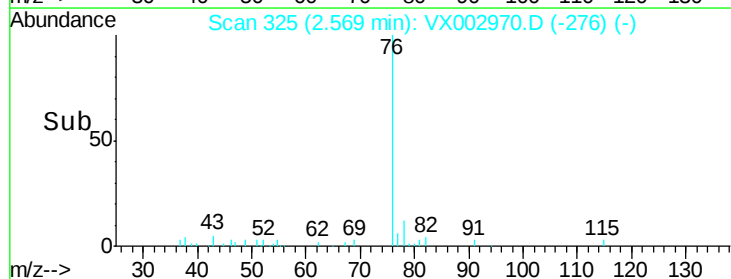
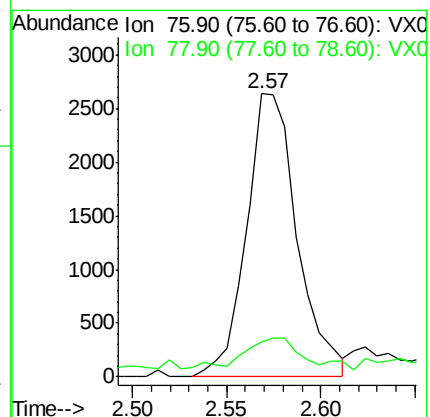
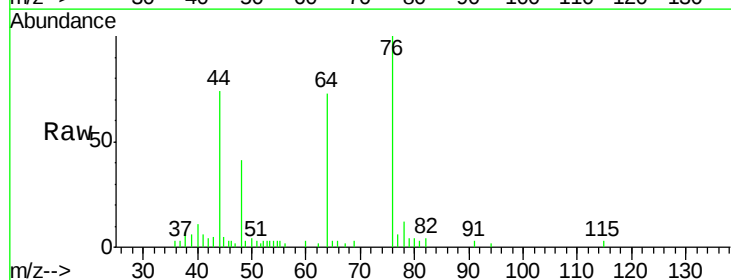
Acq: 28 Jun 2018 07:04

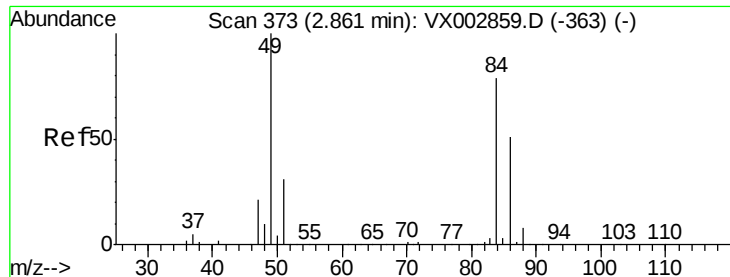
Tgt Ion: 76 Resp: 4921

Ion Ratio Lower Upper

76 100

78 8.9 6.9 10.3





#20

Methylene Chloride

Concen: 0.45 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

Instrument :

MSVOA_X

ClientSampleId :

GUNHILL-TRIPBLANK-2-6-20-18

Tot Ion: 84 Resp: 1343

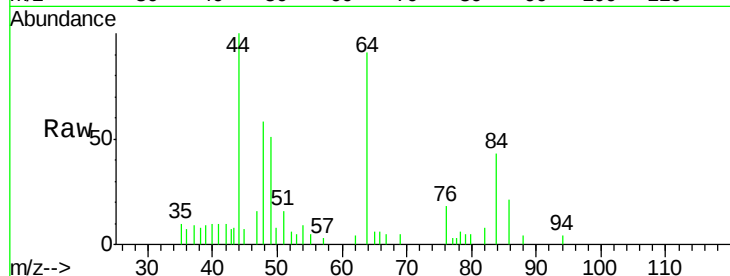
Ion Ratio Lower Upper

84 100

49 117.9 107.8 161.6

51 17.1 32.8 49.2#

86 49.6 52.5 78.7#

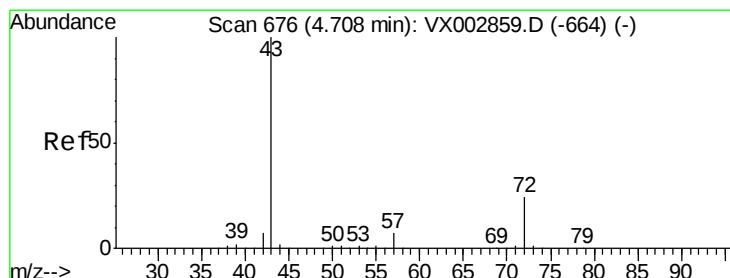
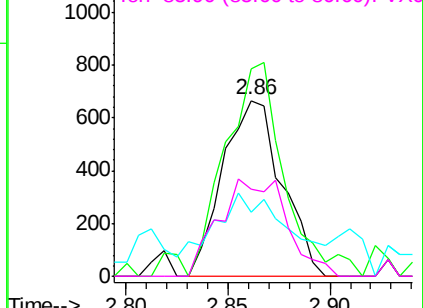
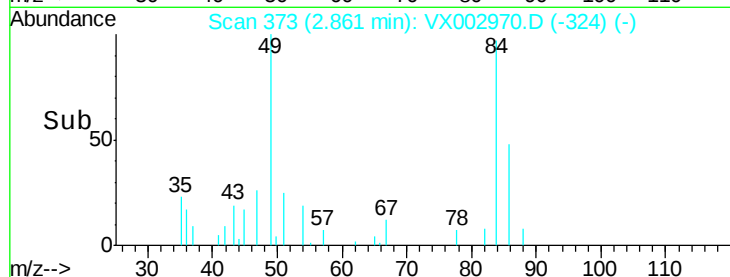


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.22 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002970.D

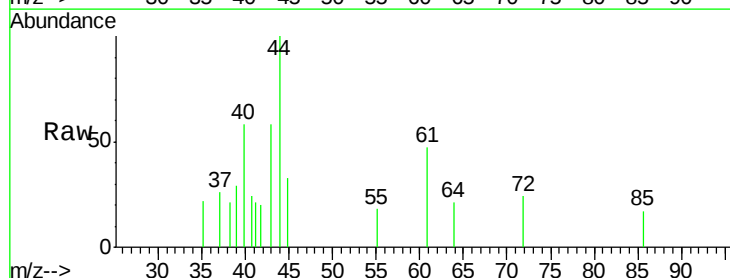
Acq: 28 Jun 2018 07:04

Tgt Ion: 43 Resp: 514

Ion Ratio Lower Upper

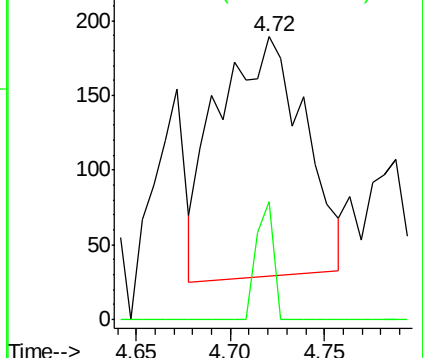
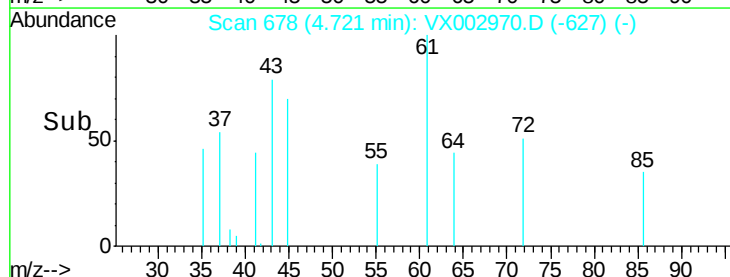
43 100

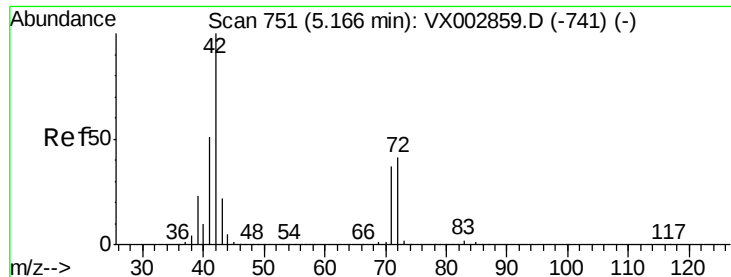
72 65.3 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

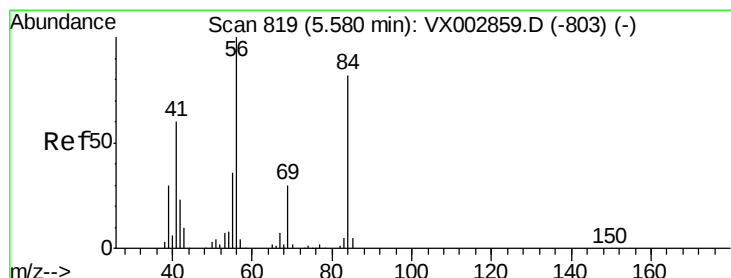
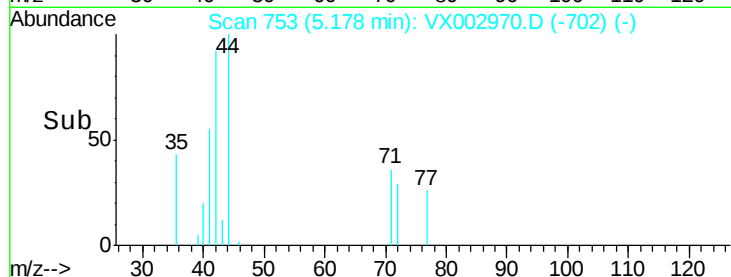
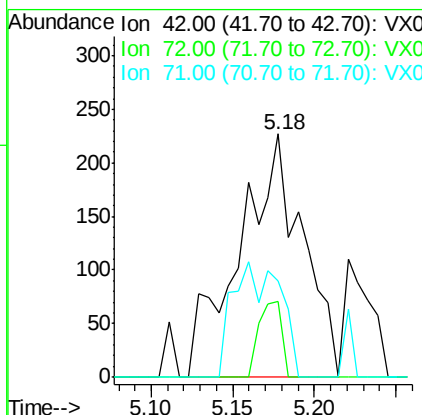
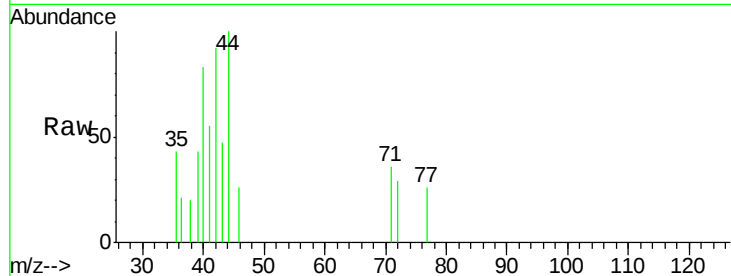




#29
Tetrahydrofuran
Concen: 0.42 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002970.D
Acq: 28 Jun 2018 07:04

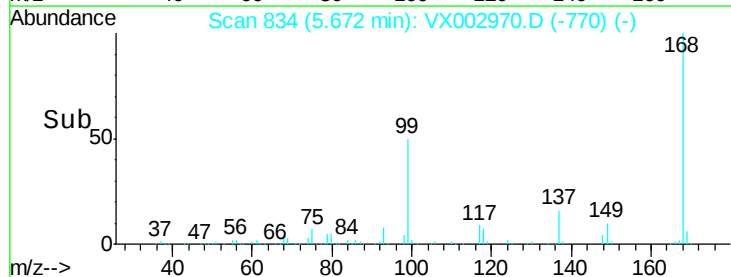
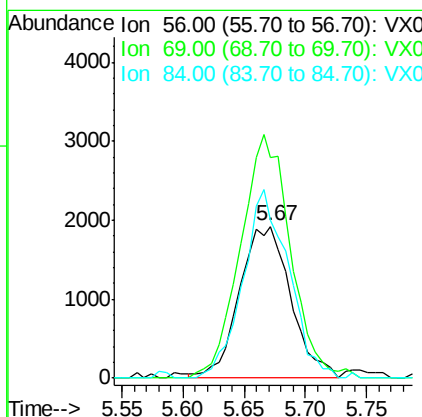
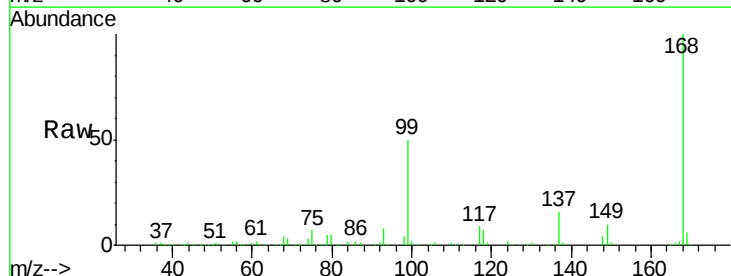
Instrument :
MSVOA_X
ClientSampleId :
GUNHILL-TRIPBLANK-2-6-20-18

Tot Ion: 42 Resp: 611
Ion Ratio Lower Upper
42 100
72 11.3 32.0 48.0#
71 20.1 30.1 45.1#



#31
Cyclohexane
Concen: 1.20 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002970.D
Acq: 28 Jun 2018 07:04

Tgt Ion: 56 Resp: 5612
Ion Ratio Lower Upper
56 100
69 145.1 23.7 35.5#
84 104.4 64.1 96.1#

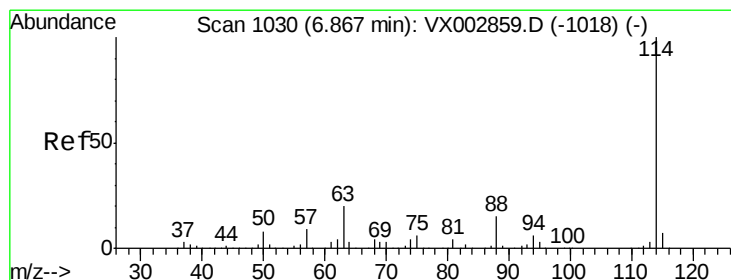
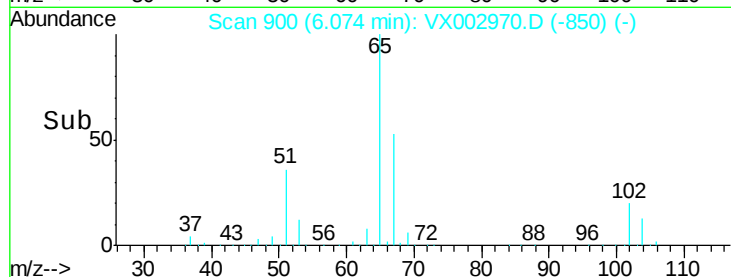
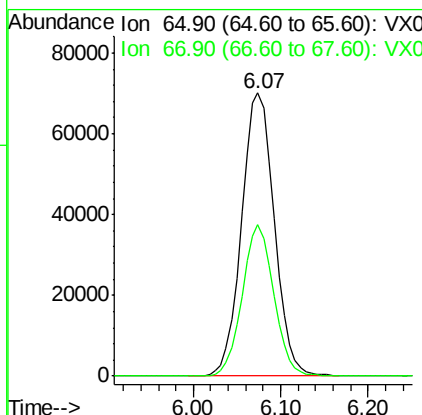
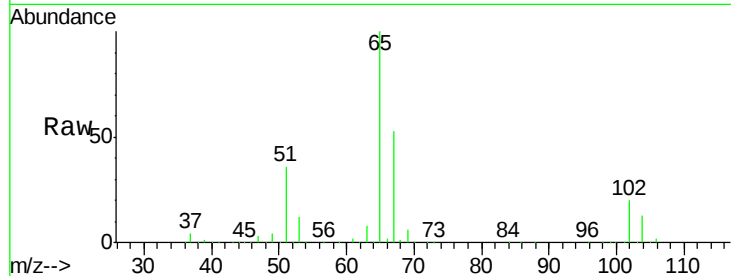




#33
 1,2-Dichloroethane-d4
 Concen: 49.11 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002970.D
 Acq: 28 Jun 2018 07:04

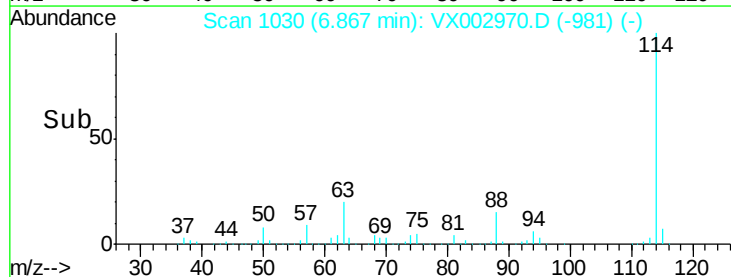
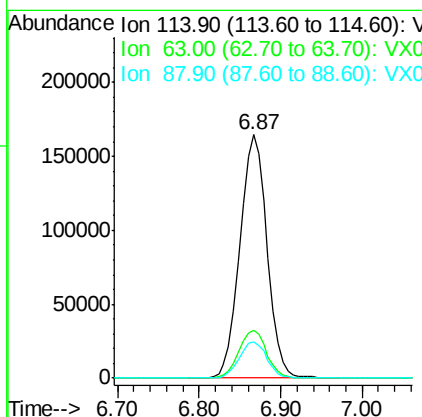
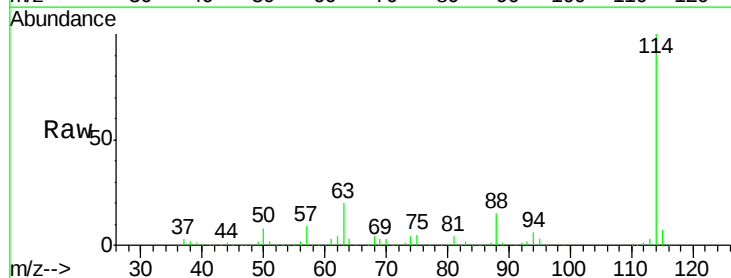
Instrument :
 MSVOA_X
 ClientSampleId :
 GUNHILL-TRIPBLANK-2-6-20-18

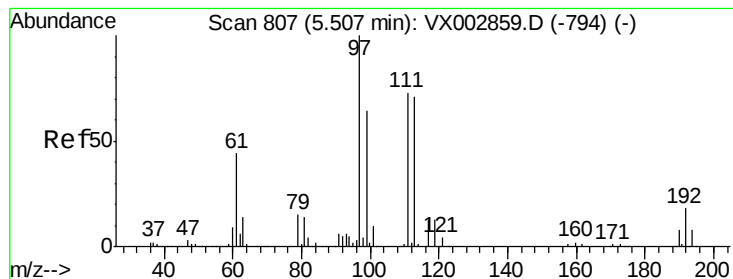
Tot Ion: 65 Resp: 182691
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002970.D
 Acq: 28 Jun 2018 07:04

Tgt Ion: 114 Resp: 378953
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.4
 88 15.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.55 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

Instrument :

MSVOA_X

ClientSampleId :

GUNHILL-TRIPBLANK-2-6-20-18

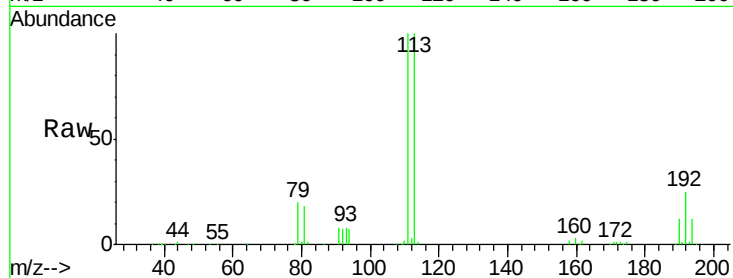
Tot Ion:113 Resp: 148688

Ion Ratio Lower Upper

113 100

111 101.7 81.4 122.0

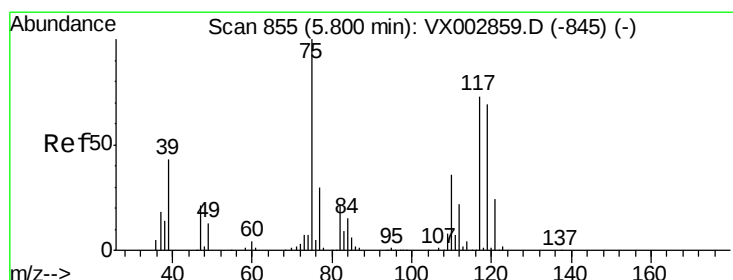
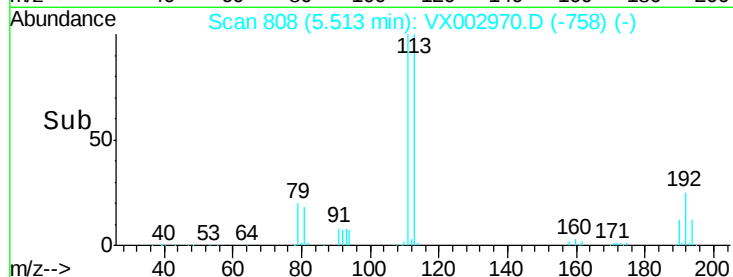
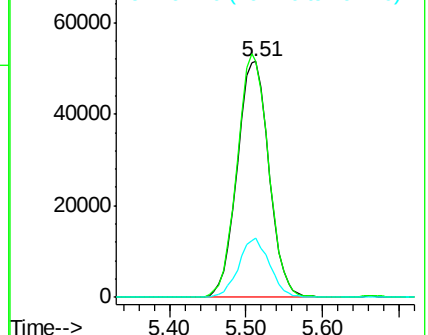
192 24.2 19.1 28.7



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# 834

Delta R.T. -0.13 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

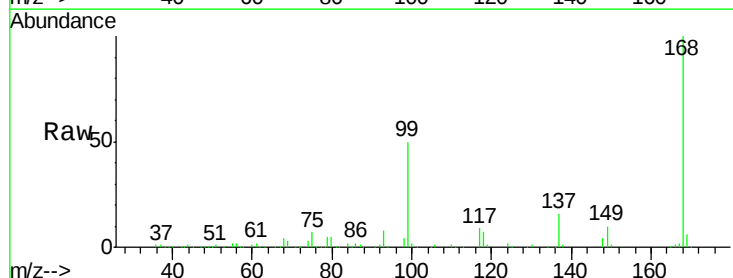
Tgt Ion: 75 Resp: 18045

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.4#

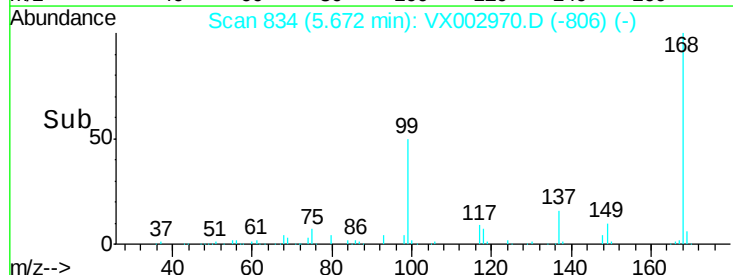
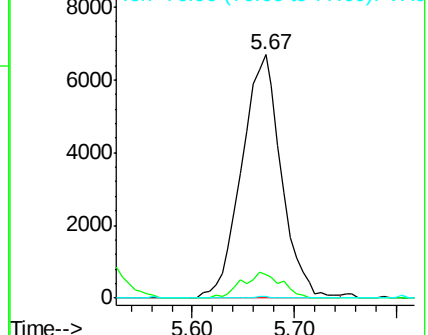
77 0.2 24.3 36.5#

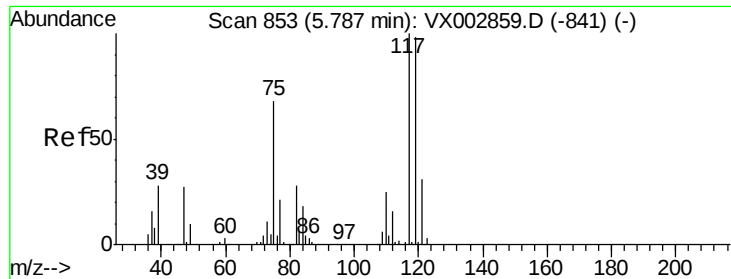


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

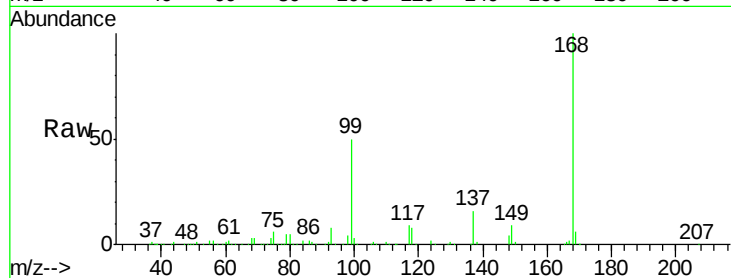




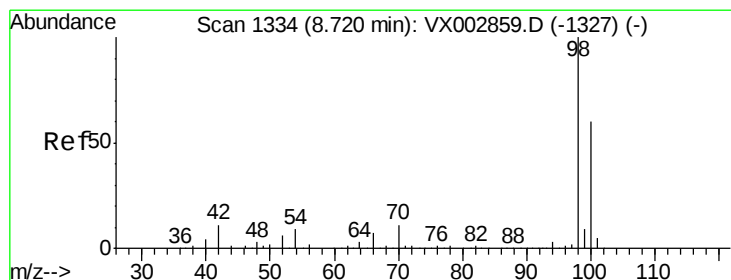
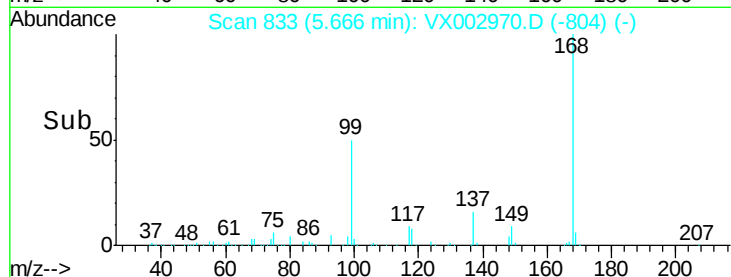
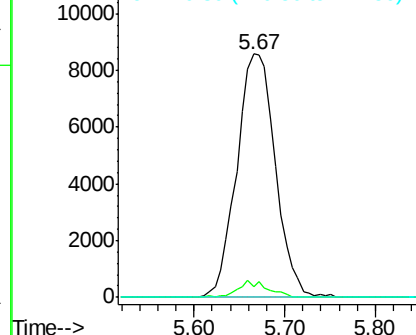
#38
Carbon Tetrachloride
Concen: 5.55 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002970.D
Acq: 28 Jun 2018 07:04

Instrument :
MSVOA_X
ClientSampleId :
GUNHILL-TRIPBLANK-2-6-20-18

Tot Ion:117 Resp: 25323
Ion Ratio Lower Upper
117 100
119 4.2 77.4 116.0#
121 0.0 24.4 36.6#

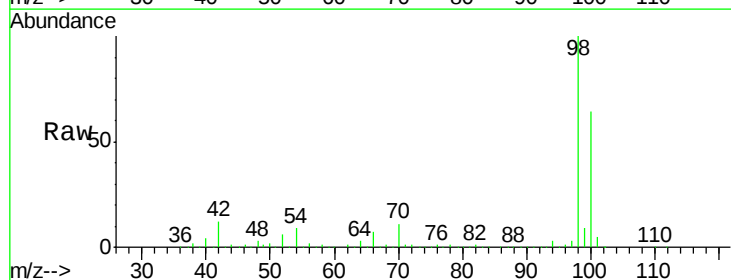


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

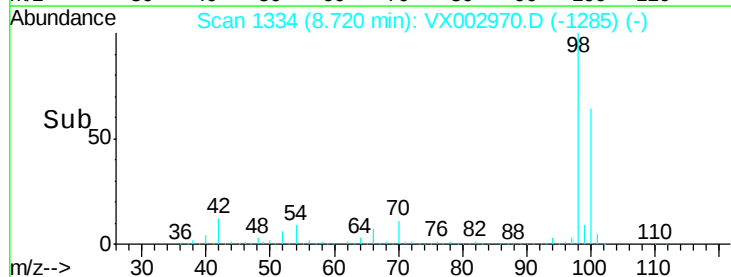
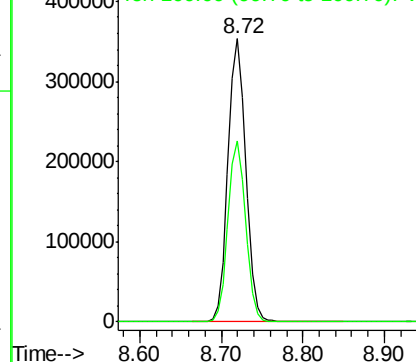


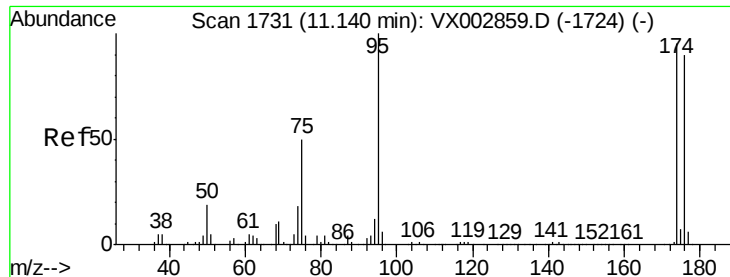
#50
Toluene-d8
Concen: 49.02 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002970.D
Acq: 28 Jun 2018 07:04

Tgt Ion: 98 Resp: 537185
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.92 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

Instrument :

MSVOA_X

ClientSampleId :

GUNHILL-TRIPBLANK-2-6-20-18

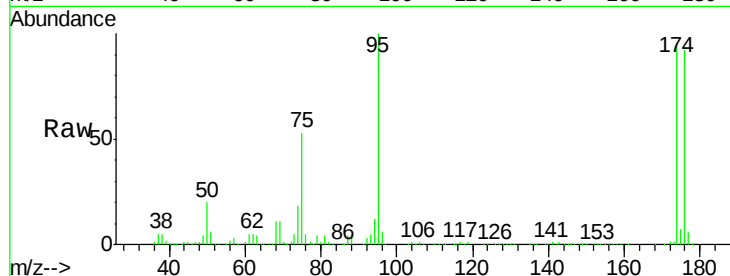
Tot Ion: 95 Resp: 194073

Ion Ratio Lower Upper

95 100

174 95.9 0.0 187.4

176 93.5 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)

11.14

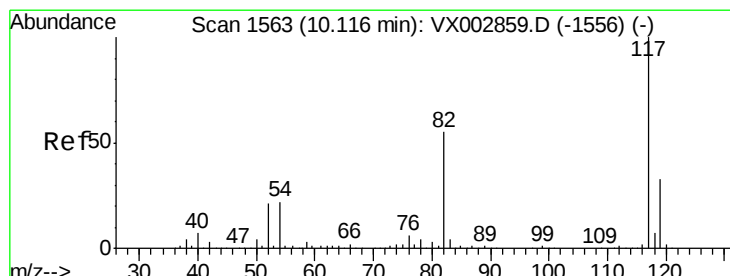
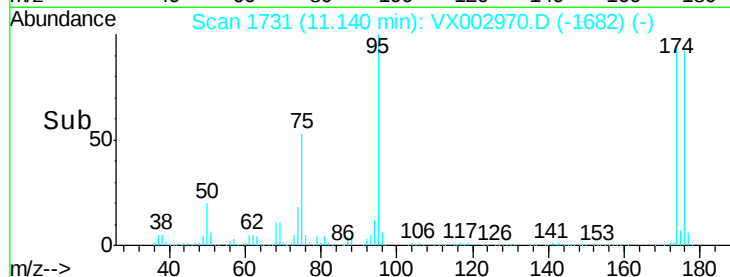
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

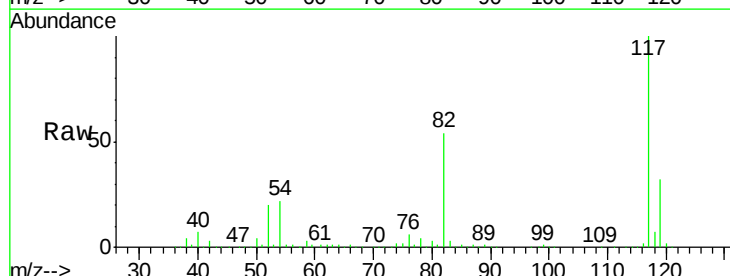
Tgt Ion: 117 Resp: 352216

Ion Ratio Lower Upper

117 100

82 54.3 45.0 67.4

119 32.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)

10.12

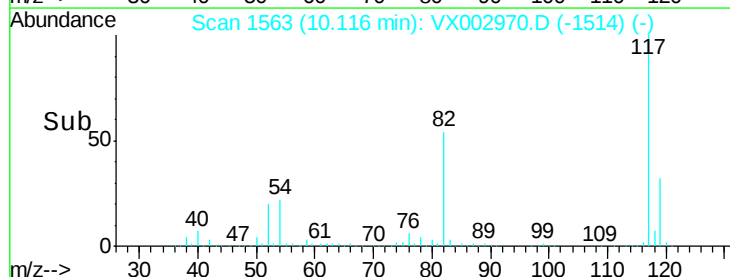
300000

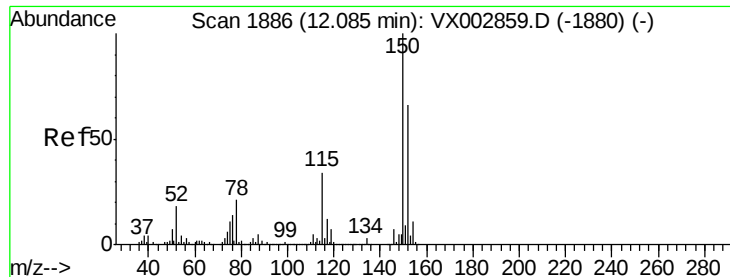
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

Instrument :

MSVOA_X

ClientSampleId :

GUNHILL-TRIPBLANK-2-6-20-18

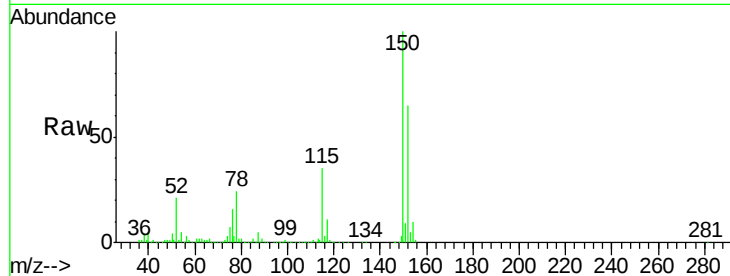
Tot Ion:152 Resp: 207447

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

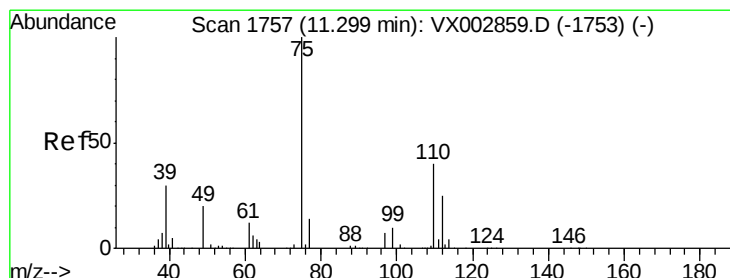
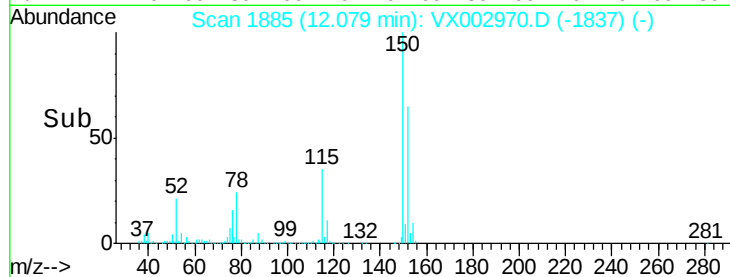
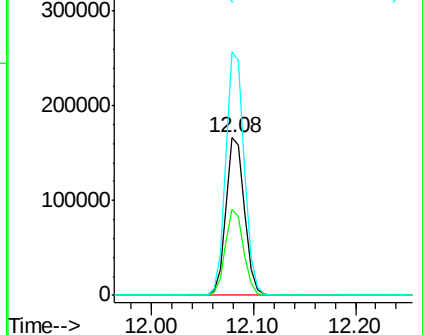
150 154.6 0.0 347.2



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: 26.49 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002970.D

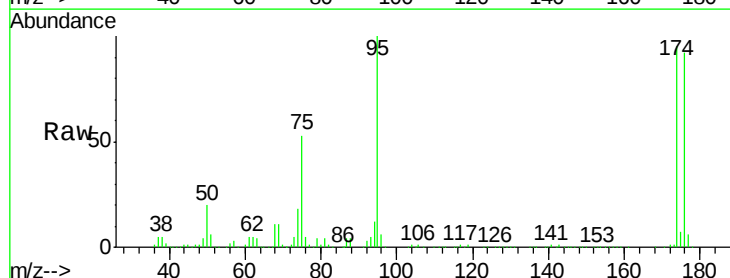
Acq: 28 Jun 2018 07:04

Tgt Ion: 75 Resp: 99529

Ion Ratio Lower Upper

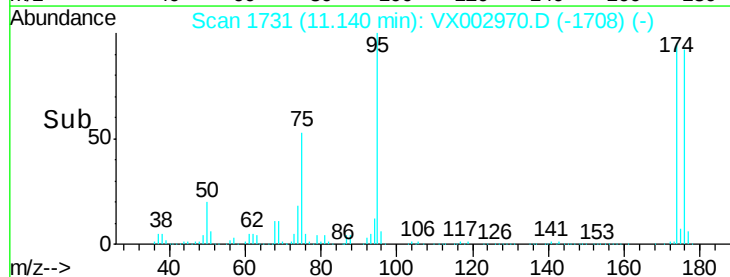
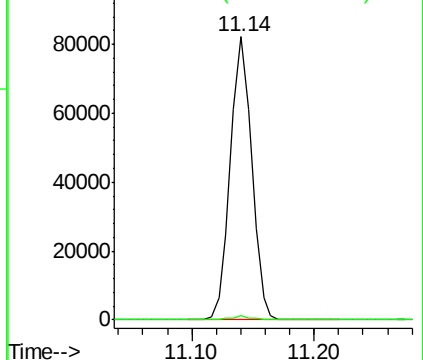
75 100

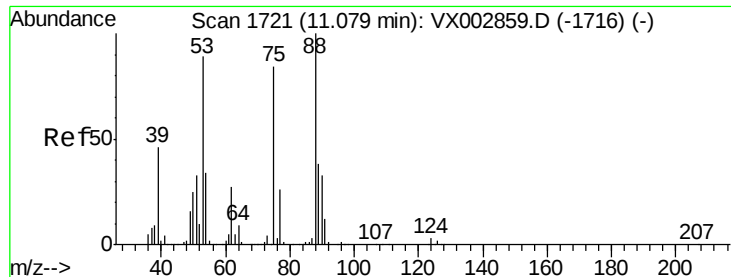
77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 75.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002970.D

Acq: 28 Jun 2018 07:04

Instrument :

MSVOA_X

ClientSampleId :

GUNHILL-TRIPBLANK-2-6-20-18

Tot Ion: 75 Resp: 99529

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

