

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071718\
 Data File : VX003427.D
 Acq On : 17 Jul 2018 15:00
 Operator : JC/MD
 Sample : J4008-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KG-FM1026

Quant Time: Jul 18 01:00:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 13:15:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	311302	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	440078	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	396451	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	231968	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	188849	46.32	ug/l	0.00
Spiked Amount			Recovery	=	92.64%	
35) Dibromofluoromethane	5.51	113	169750	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
50) Toluene-d8	8.72	98	652949	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
62) 4-Bromofluorobenzene	11.14	95	205756	43.86	ug/l	0.00
Spiked Amount			Recovery	=	87.72%	

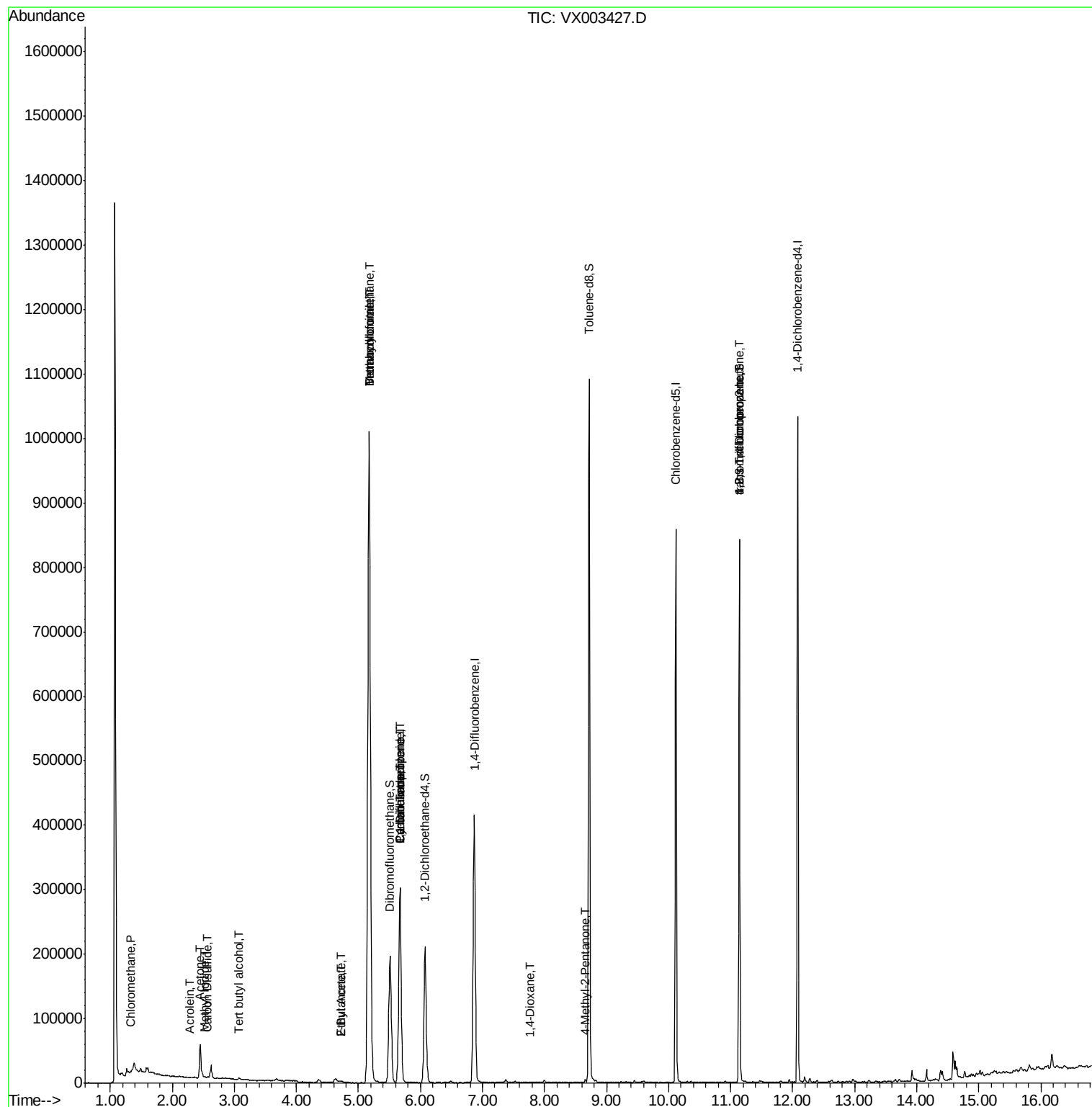
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1187	0.31	ug/l	98
5) Bromomethane	1.65	94	1582	Below Cal	#	74
6) Chloroethane	1.68	64	1509	Below Cal	#	43
10) Methyl Iodide	2.52	142	2459	0.66	ug/l	98
11) Tert butyl alcohol	3.07	59	2892	3.15	ug/l	# 93
13) Acrolein	2.29	56	361	0.82	ug/l	# 14
16) Acetone	2.45	43	58065	34.24	ug/l	# 89
17) Carbon Disulfide	2.57	76	3480	0.39	ug/l	100
20) Methylene Chloride	2.85	84	402	Below Cal	#	72
25) 2-Butanone	4.72	43	4711	1.78	ug/l	# 89
28) Bromochloromethane	5.18	49	1805	0.63	ug/l	# 13
29) Tetrahydrofuran	5.17	42	925537	549.94	ug/l	91
31) Cyclohexane	5.67	56	4951	0.98	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	18441	4.14	ug/l	# 50
37) Ethyl Acetate	4.72	43	4711	0.94	ug/l	# 70
38) Carbon Tetrachloride	5.67	117	26012	5.74	ug/l	# 16
41) Methacrylonitrile	5.17	41	501847	181.73	ug/l	# 46
49) 1,4-Dioxane	7.77	88	46	0.52	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.65	43	2462	0.49	ug/l	# 87
76) 1,2,3-Trichloropropane	11.14	75	101396	24.15	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	101396	78.44	ug/l	# 7

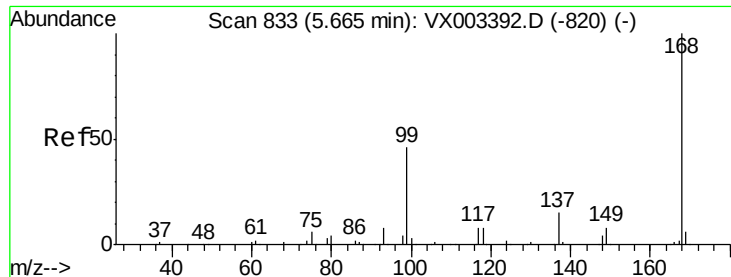
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071618W.M
Quant Title : SW846 8260
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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: VX003427.D

Acq: 17 Jul 2018 15:00

Instrument :

MSVOA_X

ClientSampled :

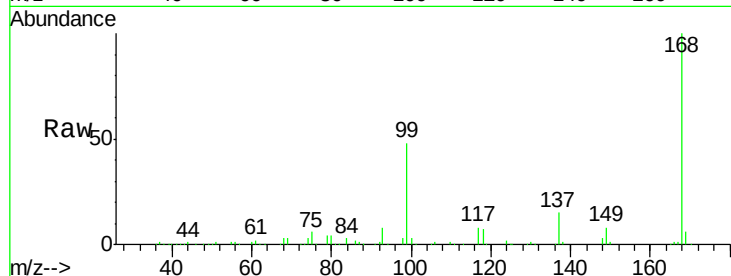
KG-FM1026

Tot Ion:168 Resp: 311302

Ion Ratio Lower Upper

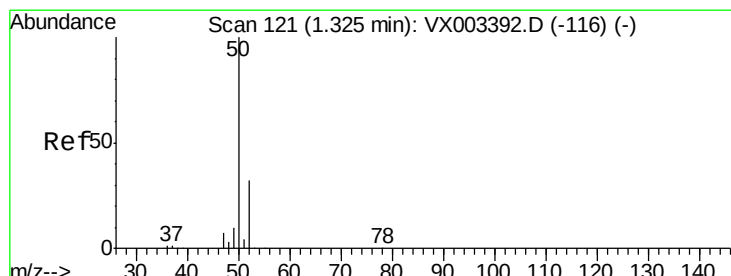
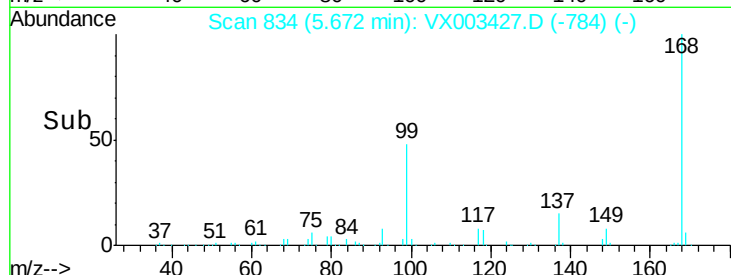
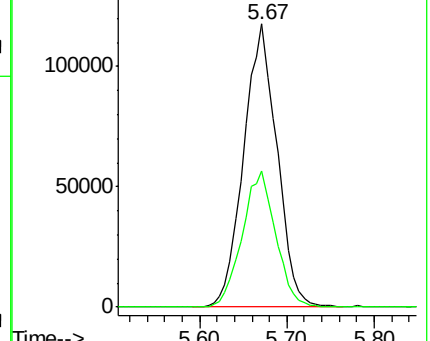
168 100

99 48.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.31 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX003427.D

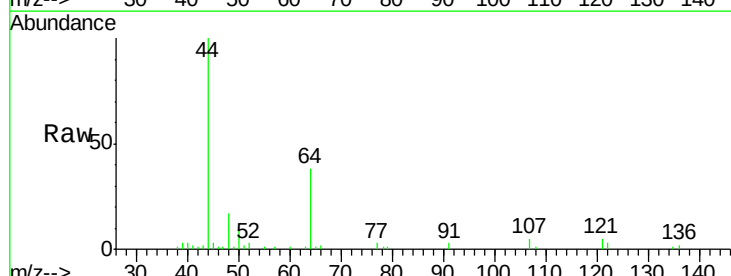
Acq: 17 Jul 2018 15:00

Tgt Ion: 50 Resp: 1187

Ion Ratio Lower Upper

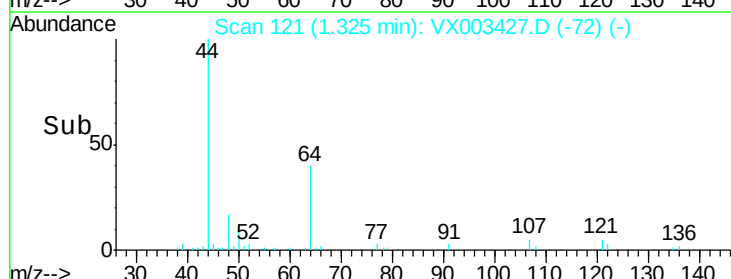
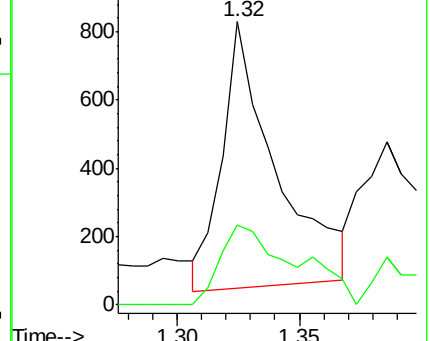
50 100

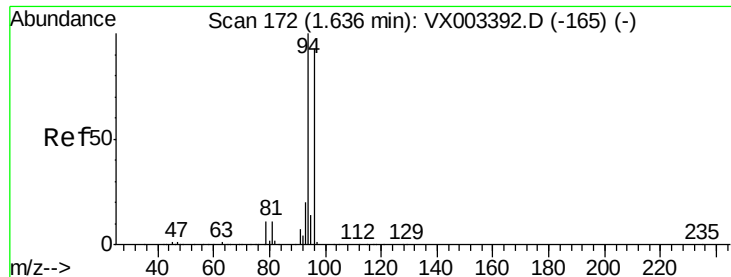
52 33.4 25.7 38.5



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# 174

Delta R.T. 0.01 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

Instrument :

MSVOA_X

ClientSampled :

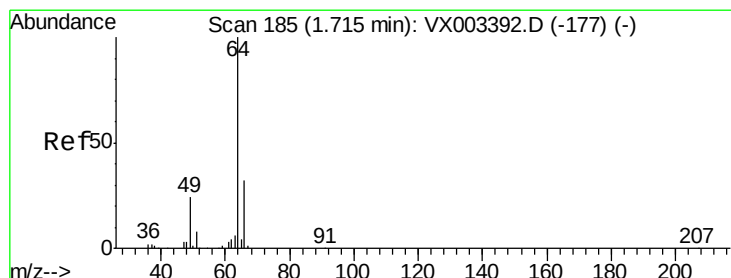
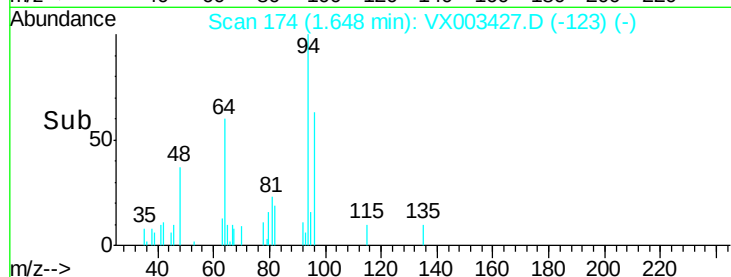
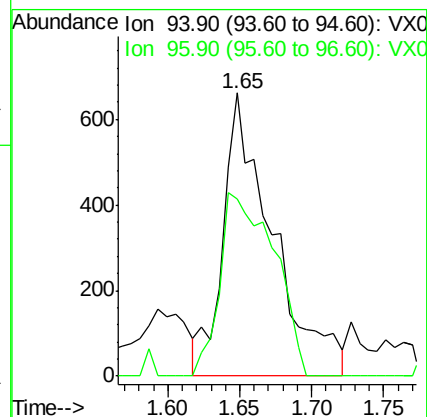
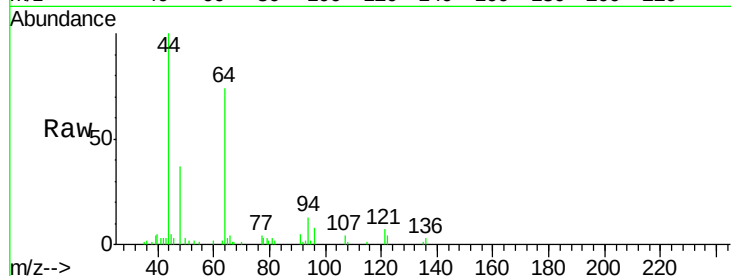
KG-FM1026

Tot Ion: 94 Resp: 1582

Ion Ratio Lower Upper

94 100

96 68.9 74.9 112.3#



#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 180

Delta R.T. -0.03 min

Lab File: VX003427.D

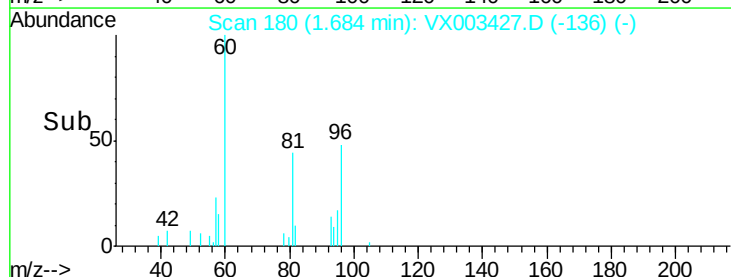
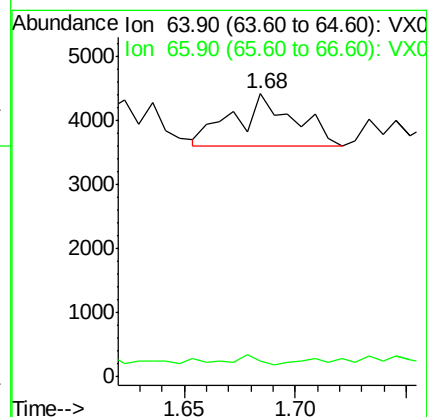
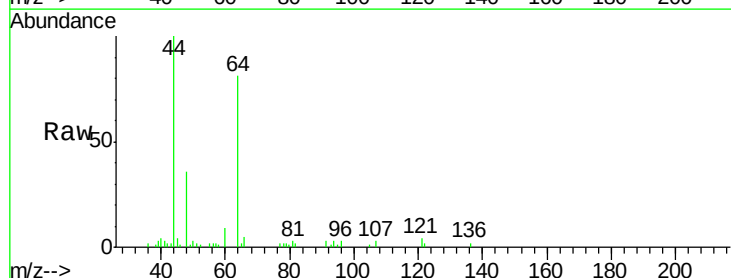
Acq: 17 Jul 2018 15:00

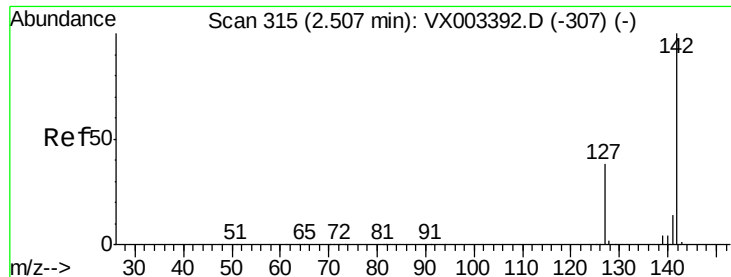
Tgt Ion: 64 Resp: 1509

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

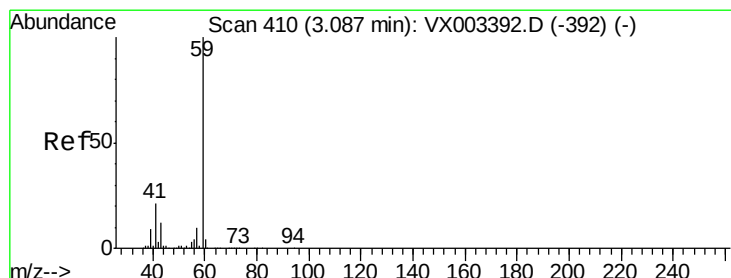
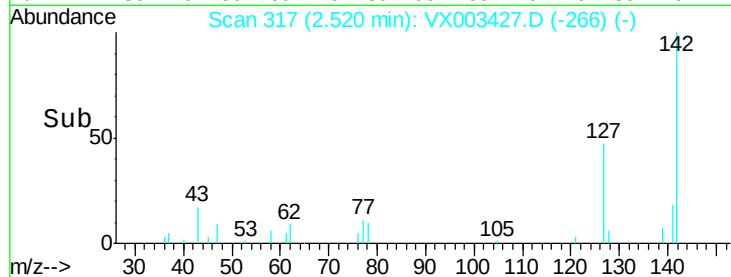
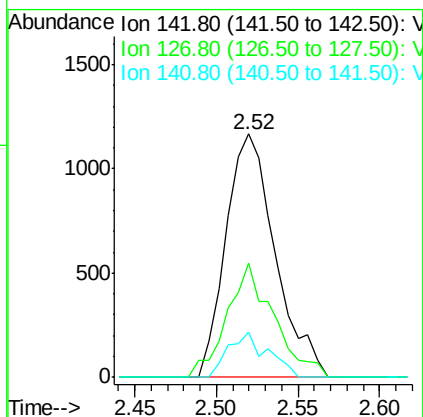
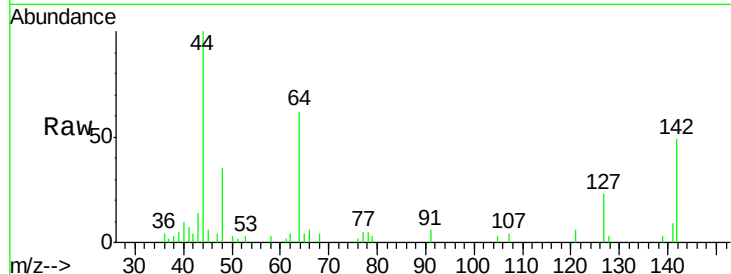




#10
Methvl Iodide
Concen: 0.66 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003427.D
Acq: 17 Jul 2018 15:00

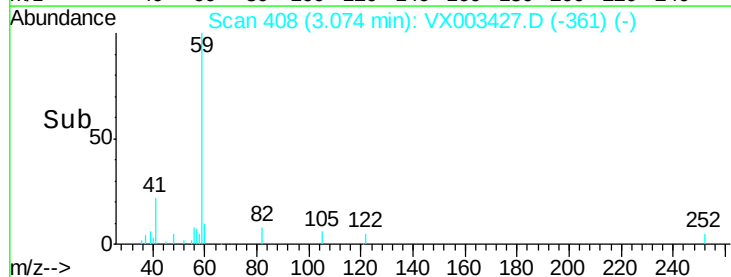
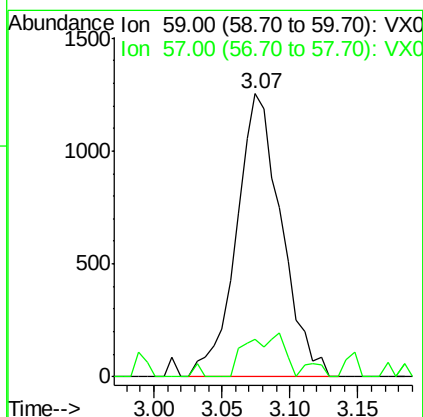
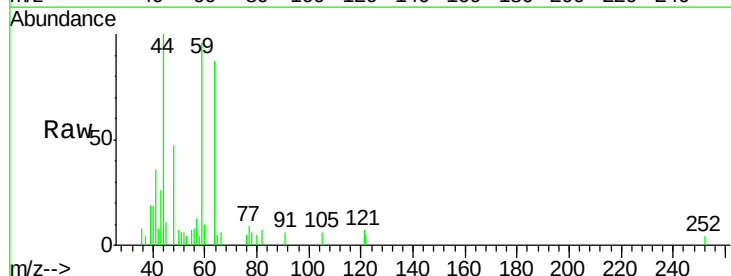
Instrument :
MSVOA_X
ClientSampleId :
KG-FM1026

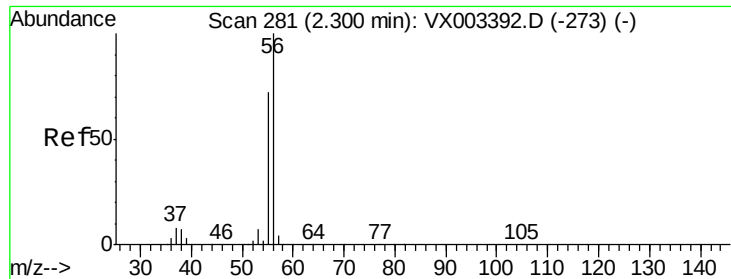
Tot Ion:142 Resp: 2459
Ion Ratio Lower Upper
142 100
127 44.5 36.6 55.0
141 15.0 11.3 16.9



#11
Tert butyl alcohol
Concen: 3.15 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003427.D
Acq: 17 Jul 2018 15:00

Tgt Ion: 59 Resp: 2892
Ion Ratio Lower Upper
59 100
57 12.9 8.2 12.2#





#13

Acrolein

Concen: 0.82 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

Instrument :

MSVOA_X

ClientSampled :

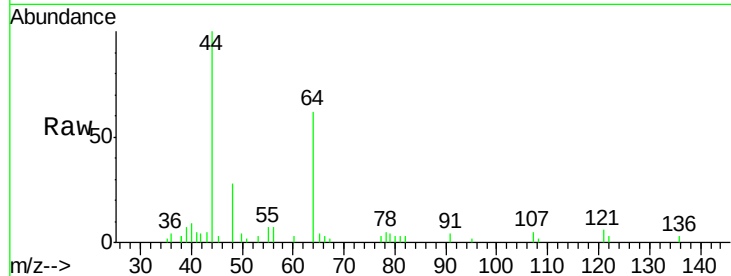
KG-FM1026

Tot Ion: 56 Resp: 361

Ion Ratio Lower Upper

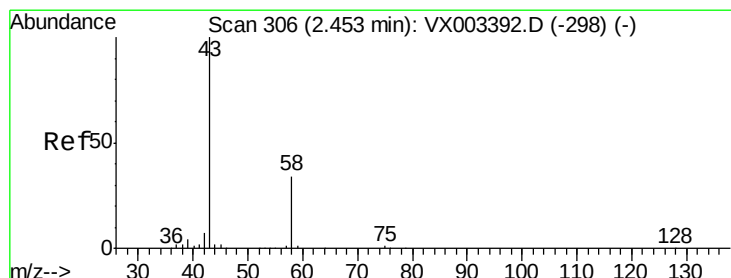
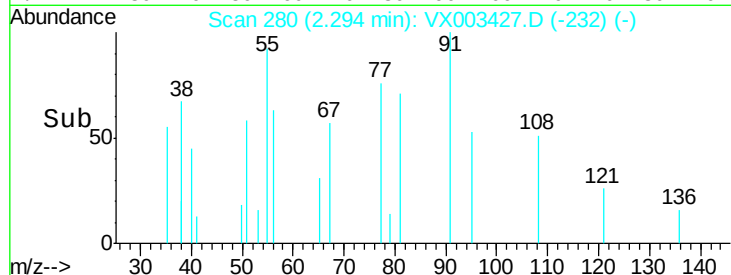
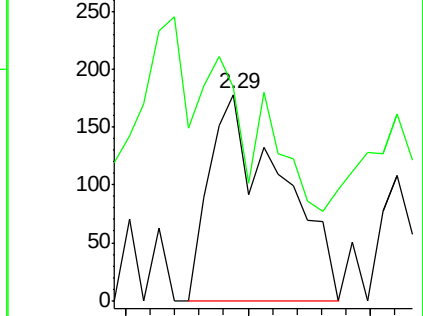
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 34.24 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003427.D

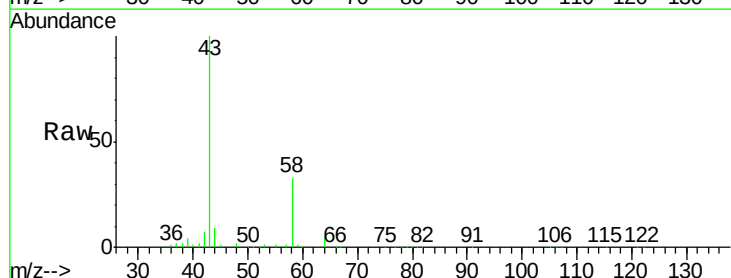
Acq: 17 Jul 2018 15:00

Tgt Ion: 43 Resp: 58065

Ion Ratio Lower Upper

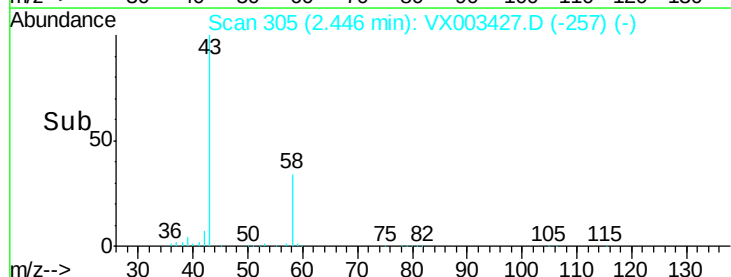
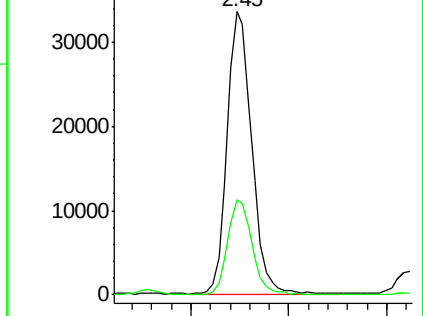
43 100

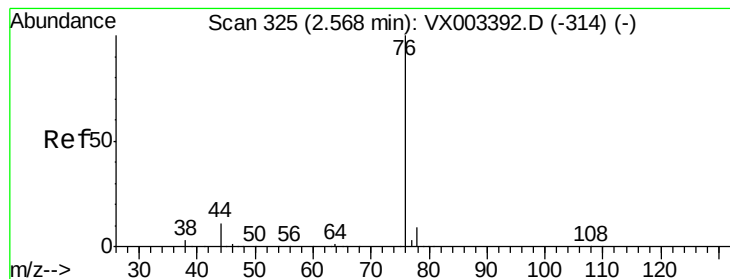
58 33.6 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.39 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

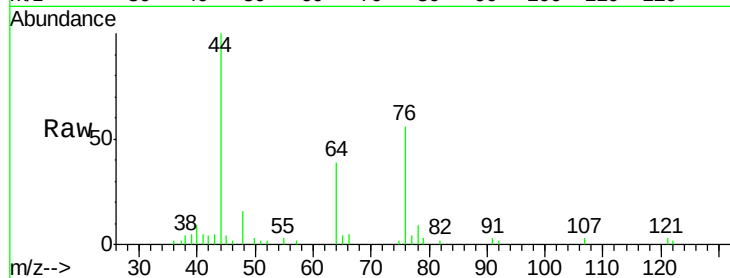
KG-FM1026

Tot Ion: 76 Resp: 3480

Ion Ratio Lower Upper

76 100

78 8.5 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

2000

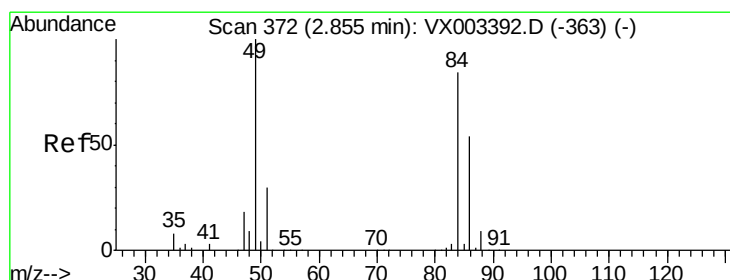
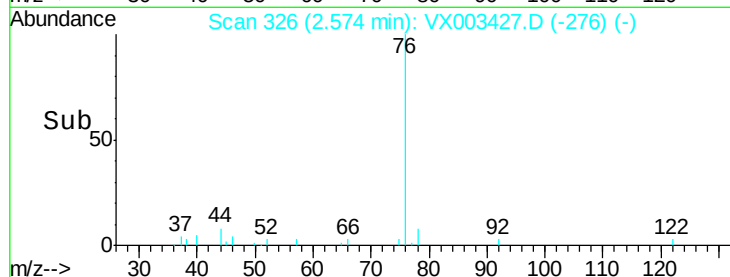
1500

1000

500

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

Tgt Ion: 84 Resp: 402

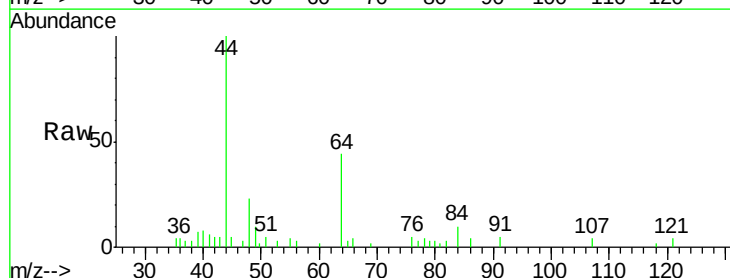
Ion Ratio Lower Upper

84 100

49 102.4 107.8 161.6#

51 25.9 32.8 49.2#

86 40.8 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

400

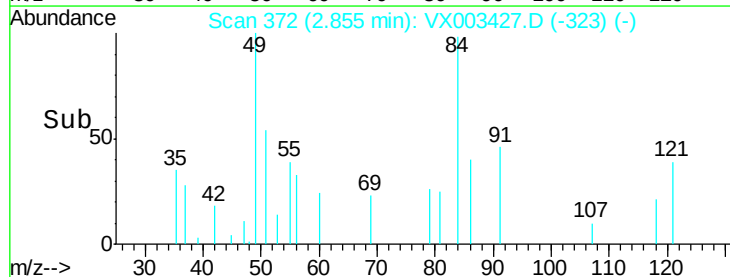
300

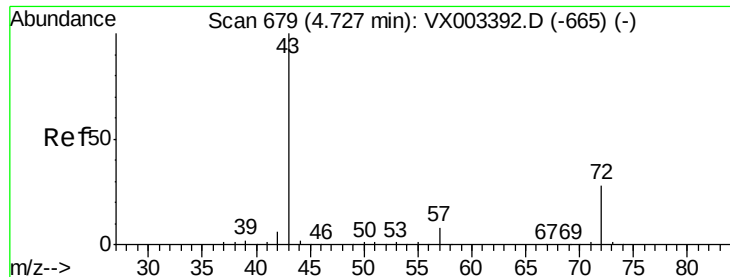
200

100

0

Time-->





#25

2-Butanone

Concen: 1.78 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.01 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

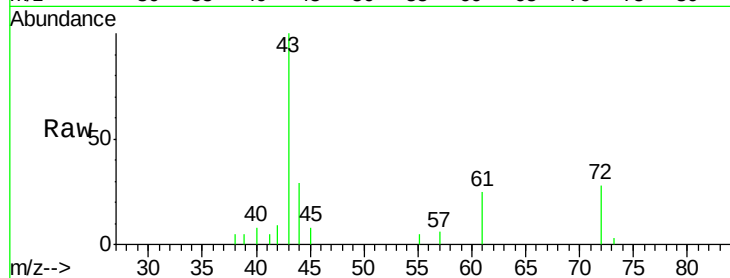
KG-FM1026

Tot Ion: 43 Resp: 4711

Ion Ratio Lower Upper

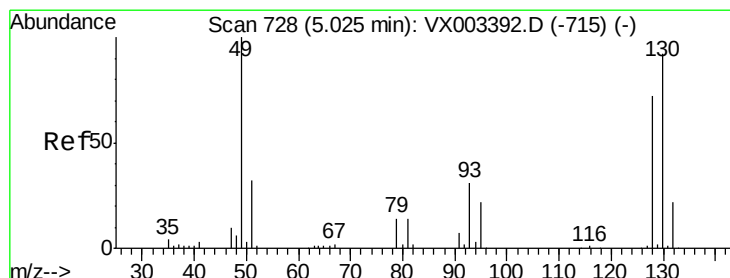
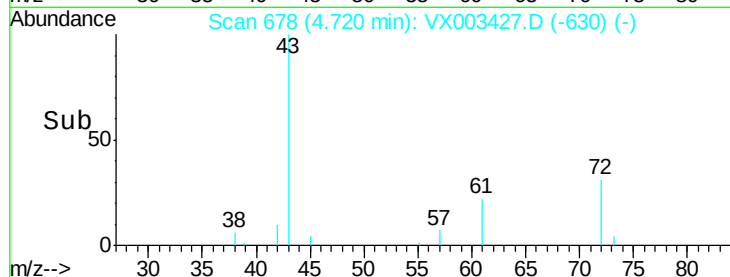
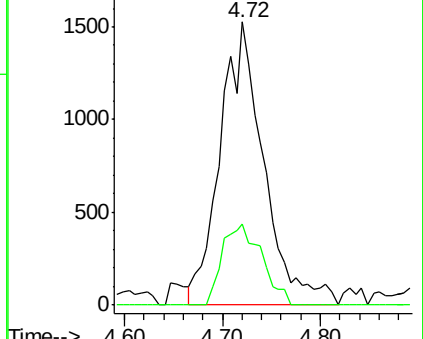
43 100

72 28.4 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: 0.63 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.15 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

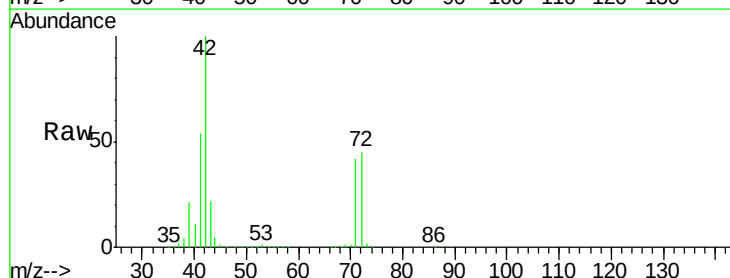
Tgt Ion: 49 Resp: 1805

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

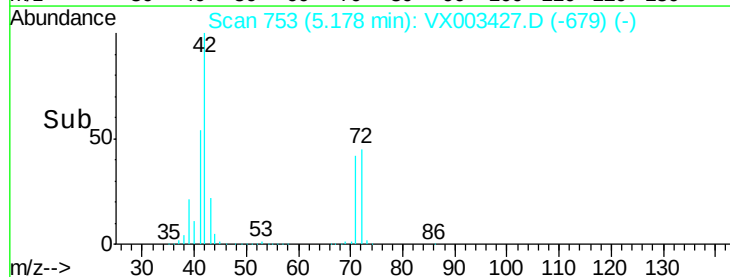
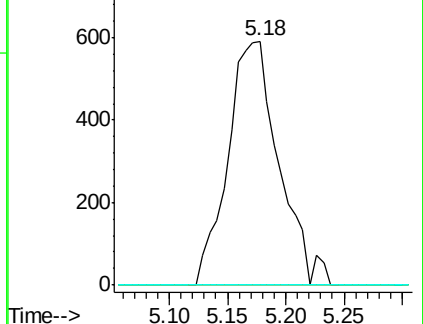
130 0.0 61.2 91.8#

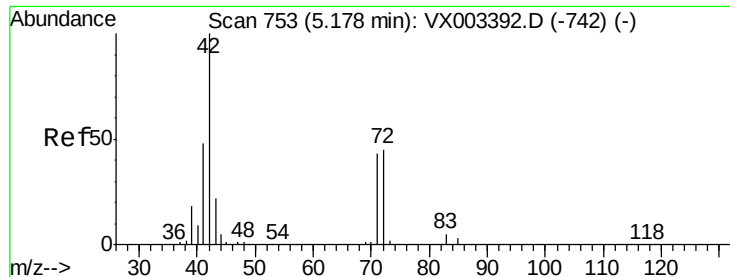


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

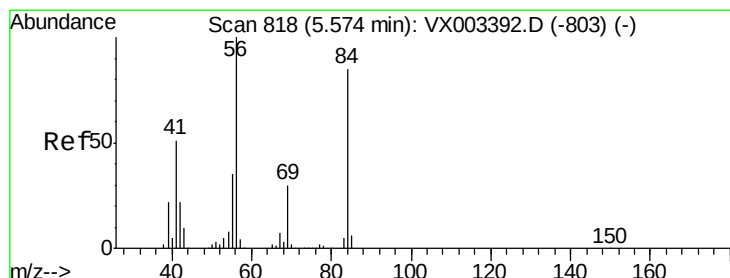
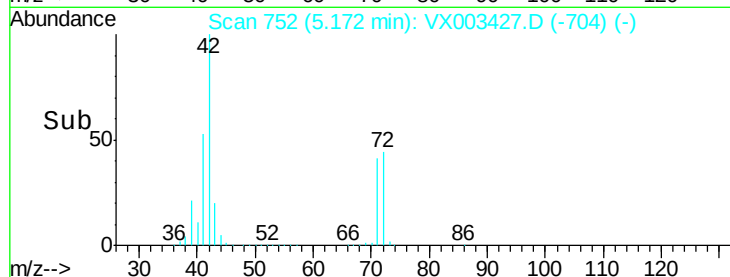
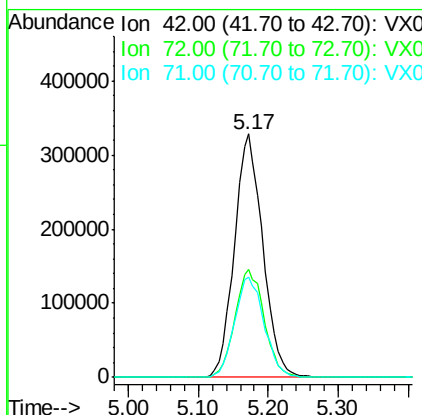
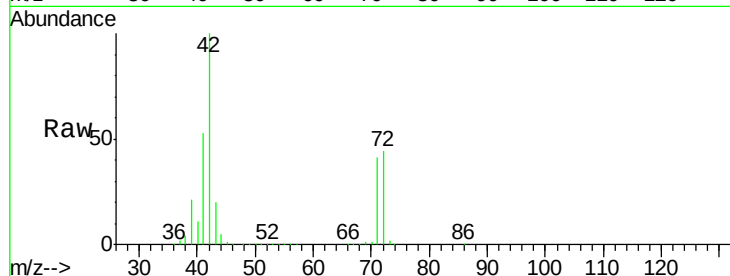




#29
Tetrahydrofuran
Concen: 549.94 ug/l
RT: 5.17 min Scan# 752
Delta R.T. -0.01 min
Lab File: VX003427.D
Acq: 17 Jul 2018 15:00

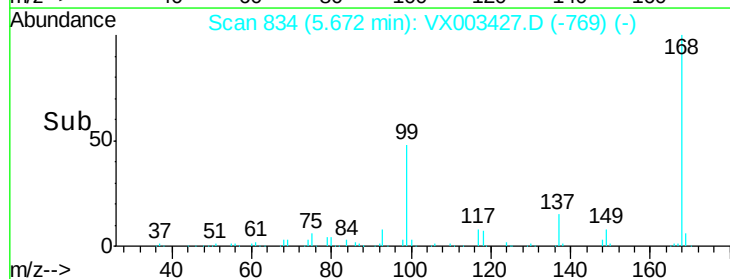
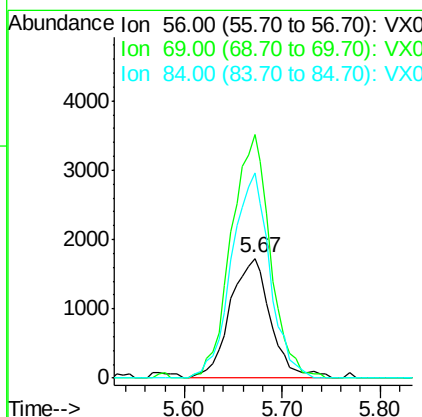
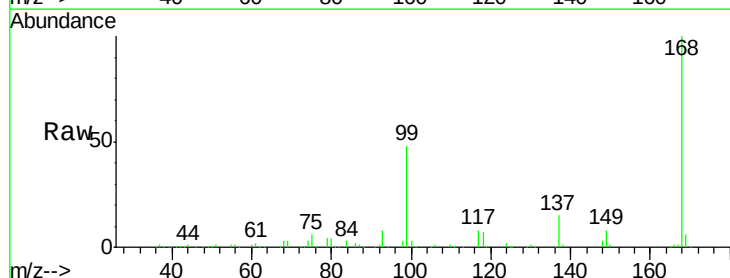
Instrument :
MSVOA_X
ClientSampled :
KG-FM1026

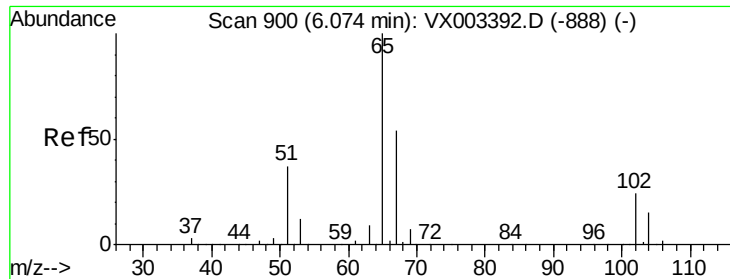
Tot Ion: 42 Resp: 925537
Ion Ratio Lower Upper
42 100
72 45.7 32.0 48.0
71 42.6 30.1 45.1



#31
Cyclohexane
Concen: 0.98 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.10 min
Lab File: VX003427.D
Acq: 17 Jul 2018 15:00

Tgt Ion: 56 Resp: 4951
Ion Ratio Lower Upper
56 100
69 203.4 23.7 35.5#
84 171.3 64.1 96.1#

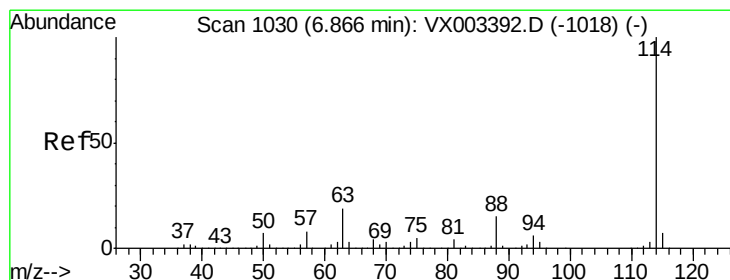
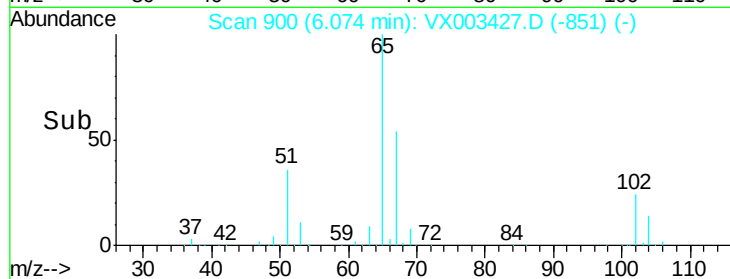
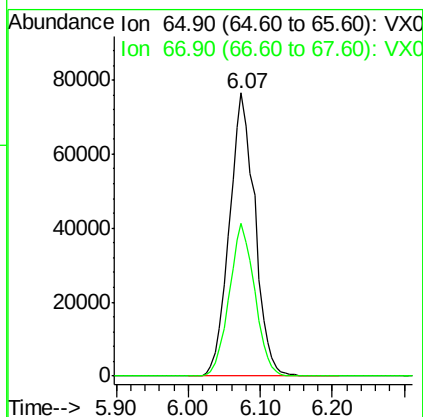
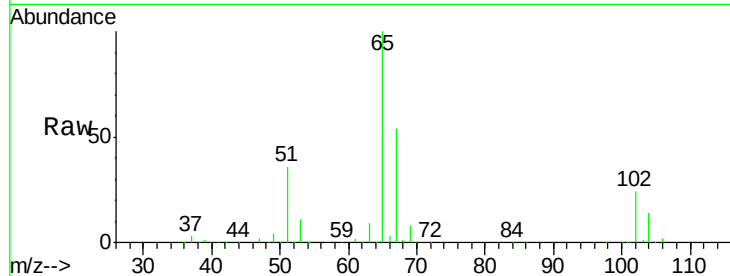




#33
 1,2-Dichloroethane-d4
 Concen: 46.32 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX003427.D
 Acq: 17 Jul 2018 15:00

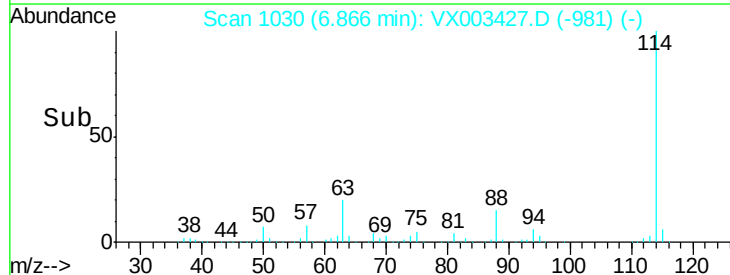
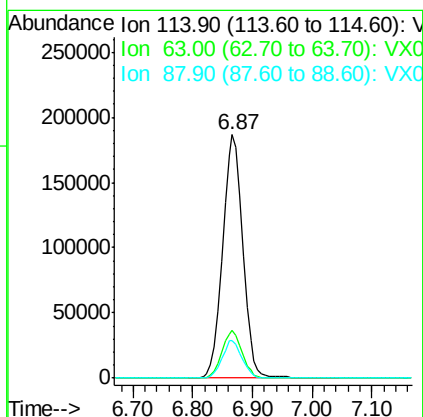
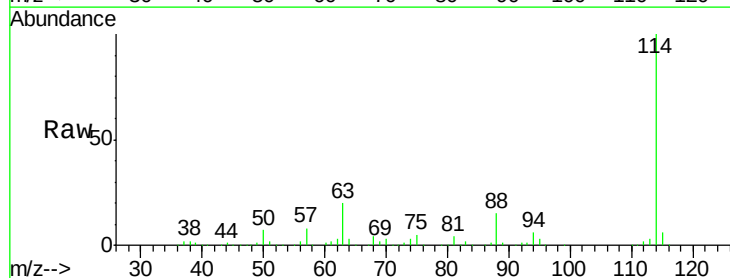
Instrument :
 MSVOA_X
 ClientSampled :
 KG-FM1026

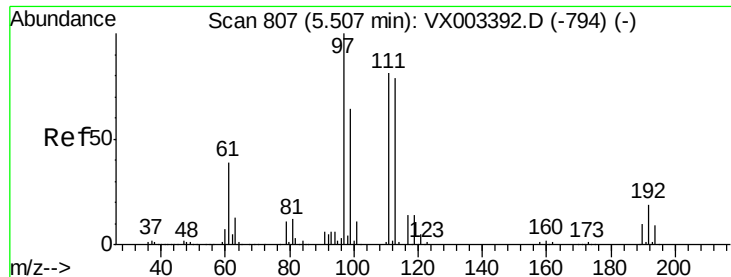
Tot Ion: 65 Resp: 188849
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003427.D
 Acq: 17 Jul 2018 15:00

Tgt Ion: 114 Resp: 440078
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.4
 88 15.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 47.67 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

KG-FM1026

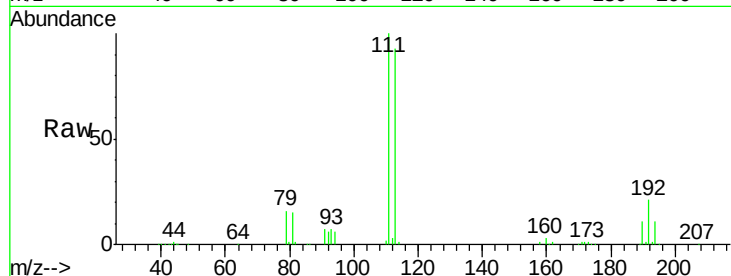
Tot Ion:113 Resp: 169750

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

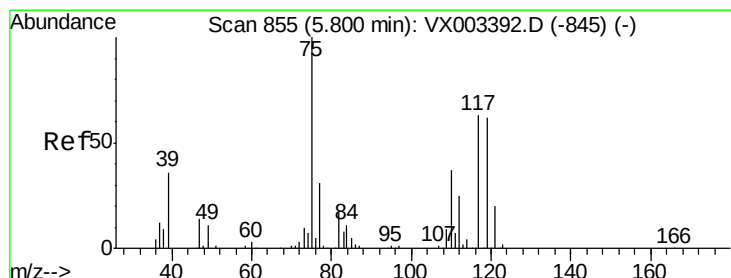
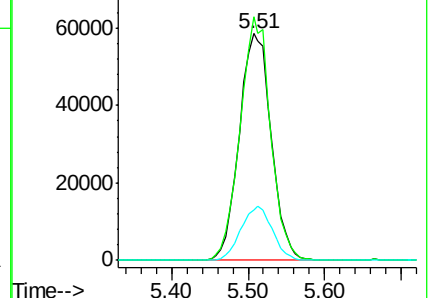
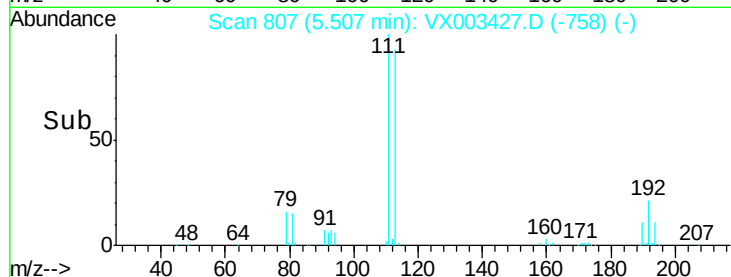
192 23.6 19.1 28.7



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: 4.14 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

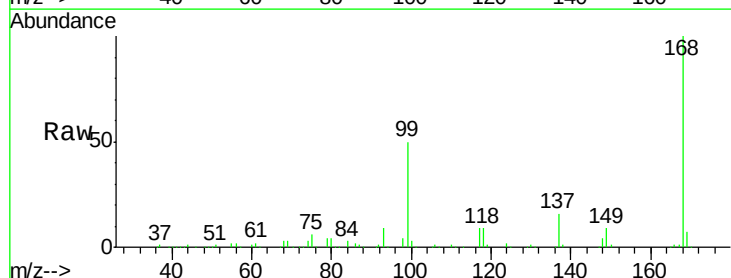
Tgt Ion: 75 Resp: 18441

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.4#

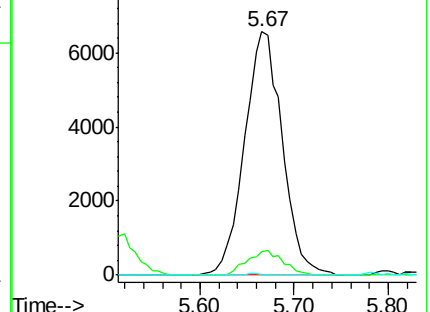
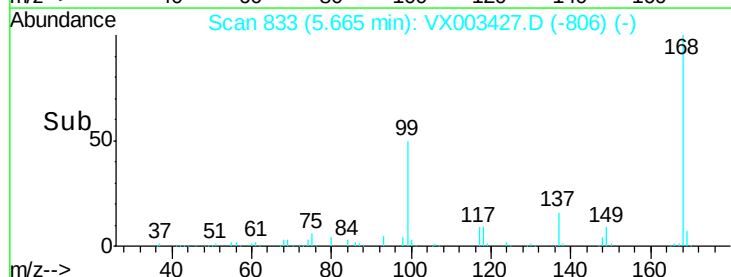
77 0.2 24.3 36.5#

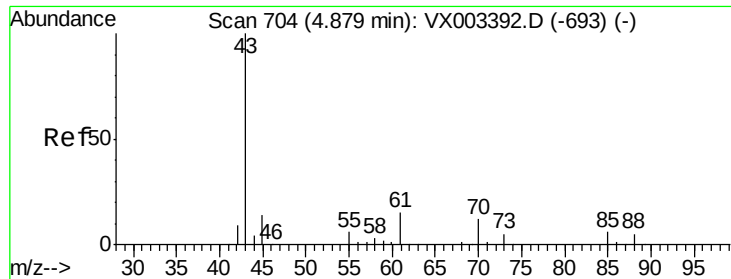


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

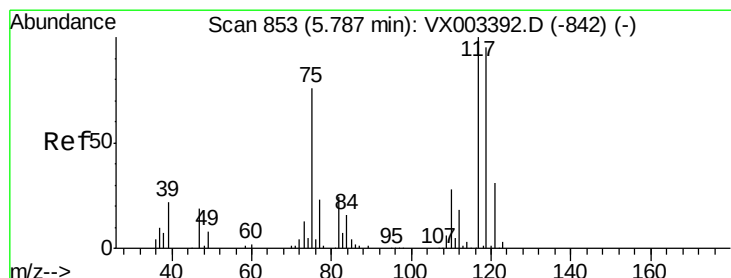
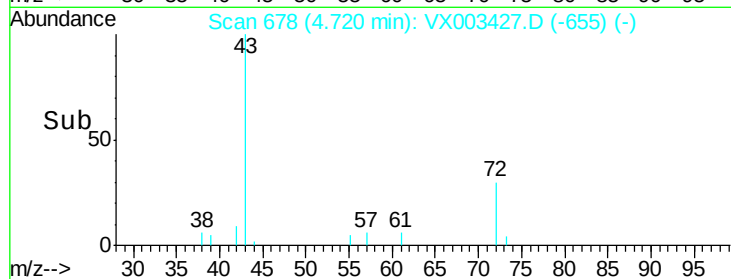
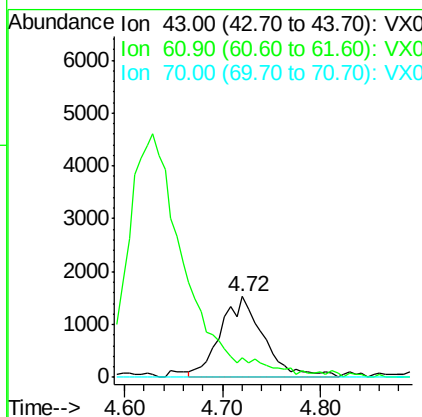
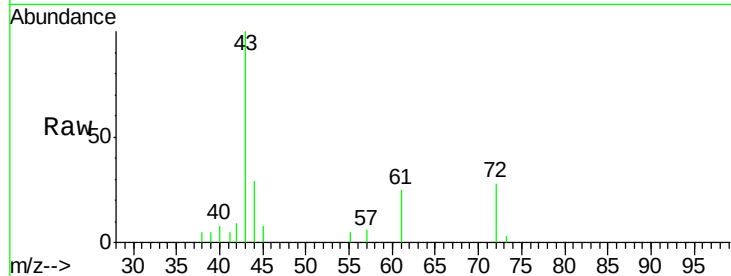




#37
Ethyl Acetate
Concen: 0.94 ug/l
RT: 4.72 min Scan# 678
Delta R.T. -0.16 min
Lab File: VX003427.D
Acq: 17 Jul 2018 15:00

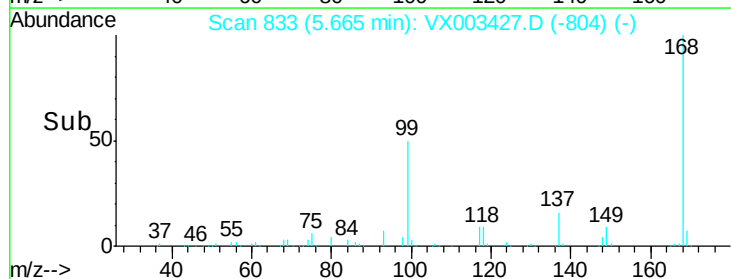
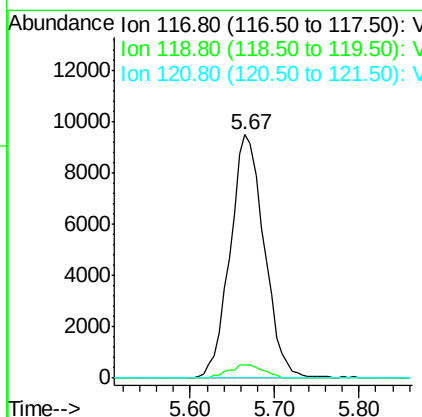
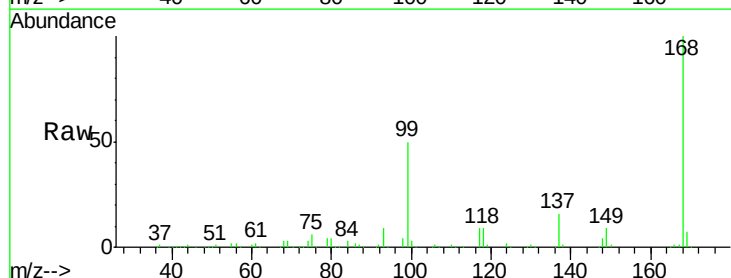
Instrument :
MSVOA_X
ClientSampleId :
KG-FM1026

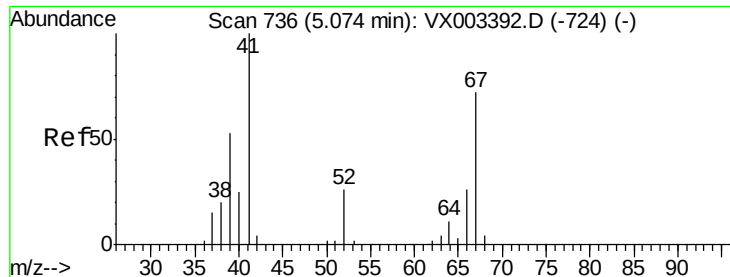
Tot Ion: 43 Resp: 4711
Ion Ratio Lower Upper
43 100
61 0.0 10.4 15.6#
70 0.0 7.6 11.4#



#38
Carbon Tetrachloride
Concen: 5.74 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003427.D
Acq: 17 Jul 2018 15:00

Tgt Ion: 117 Resp: 26012
Ion Ratio Lower Upper
117 100
119 5.6 77.4 116.0#
121 0.0 24.4 36.6#





#41

Methacrylonitrile

Concen: 181.73 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.10 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

Instrument :

MSVOA_X

ClientSampled :

KG-FM1026

Tot Ion: 41 Resp: 501847

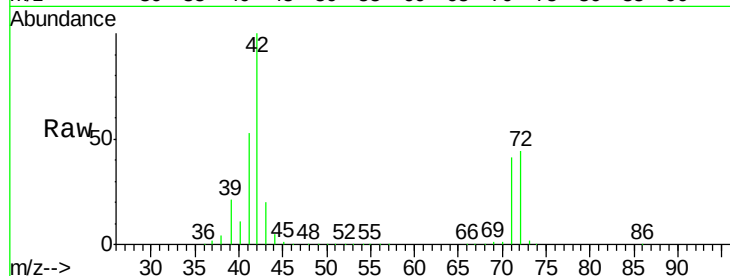
Ion Ratio Lower Upper

41 100

39 40.3 45.8 68.6#

67 0.0 51.3 76.9#

52 0.2 23.0 34.6#

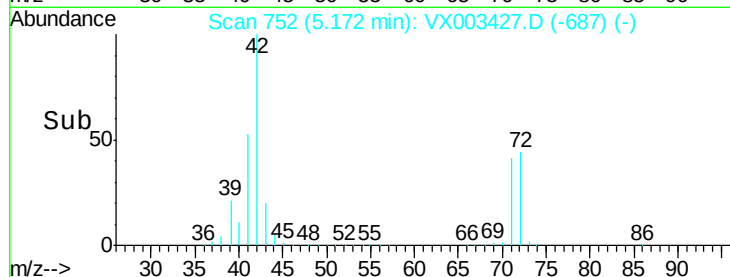


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

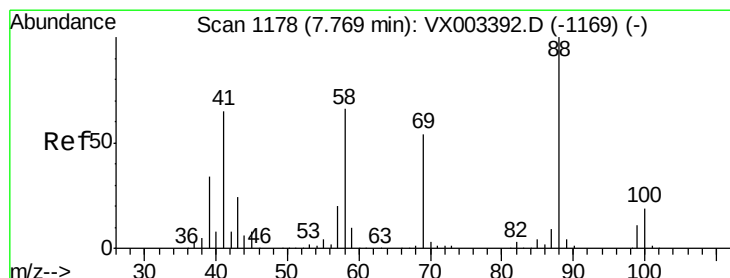
Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



Time-->

5.00 5.10 5.20 5.30



#49

1,4-Dioxane

Concen: 0.52 ug/l

RT: 7.77 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

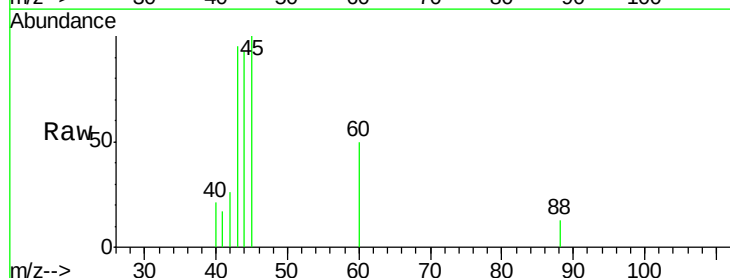
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 2319.6 29.8 44.6#

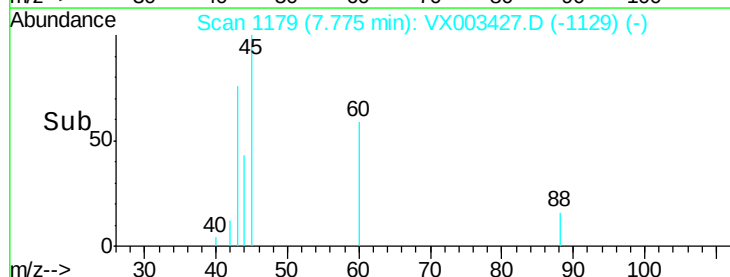
58 0.0 57.1 85.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0

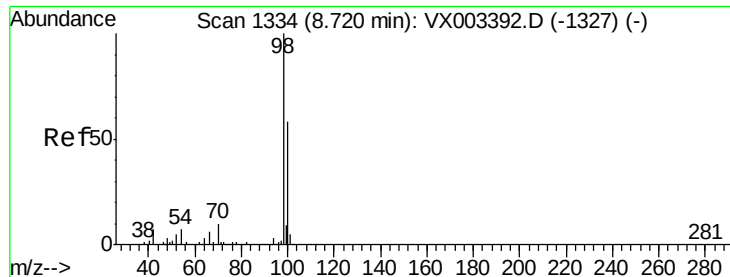
Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

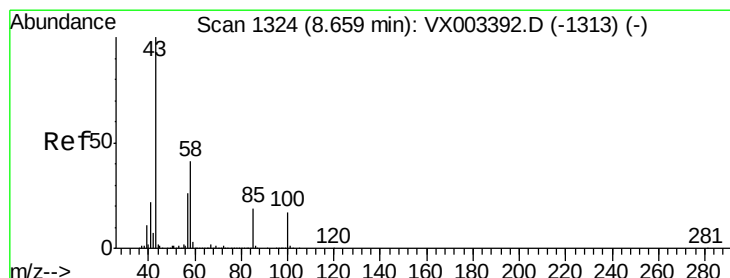
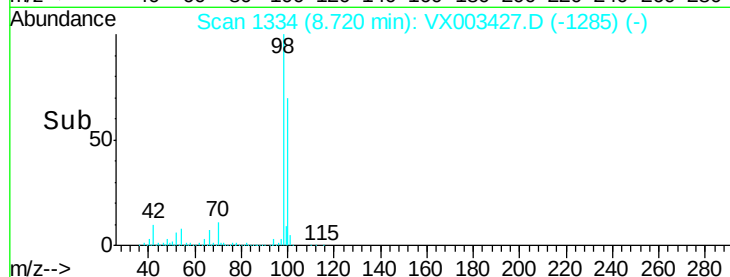
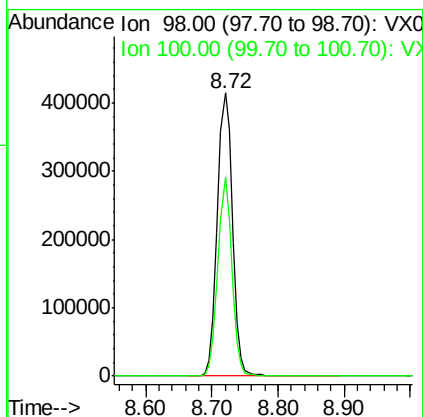
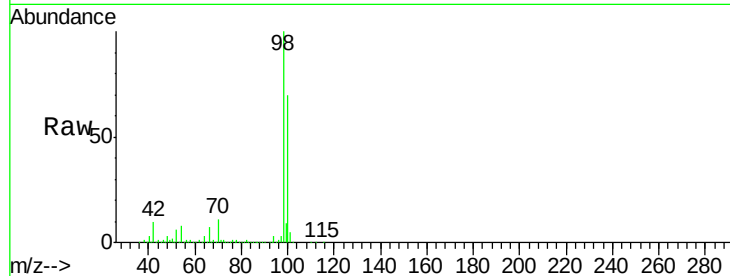
7.76 7.78 7.80



#50
Toluene-d8
Concen: 49.69 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003427.D
Acq: 17 Jul 2018 15:00

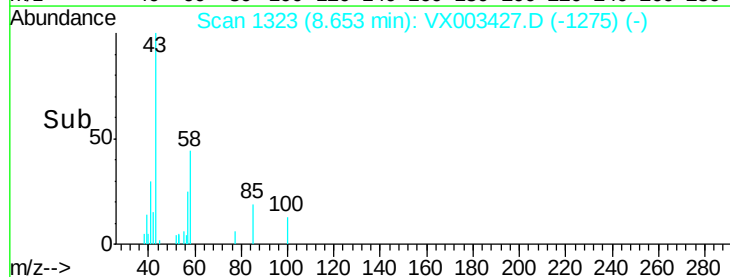
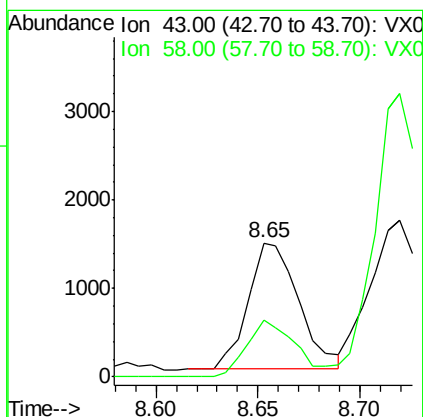
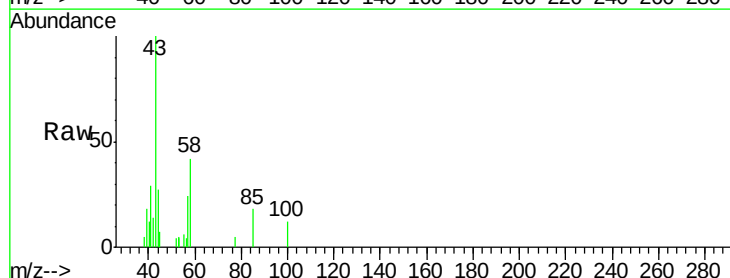
Instrument :
MSVOA_X
ClientSampleId :
KG-FM1026

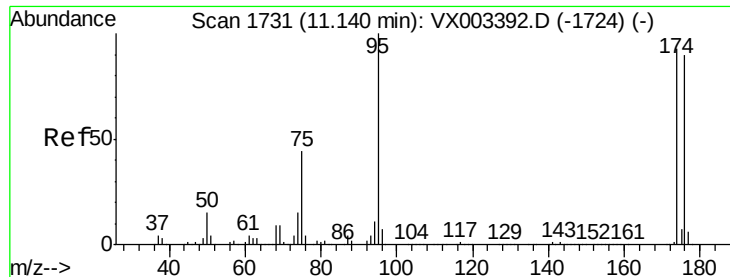
Tot Ion: 98 Resp: 652949
Ion Ratio Lower Upper
98 100
100 64.9 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.49 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VX003427.D
Acq: 17 Jul 2018 15:00

Tgt Ion: 43 Resp: 2462
Ion Ratio Lower Upper
43 100
58 43.5 28.6 42.8#





#62

4-Bromofluorobenzene

Concen: 43.86 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

KG-FM1026

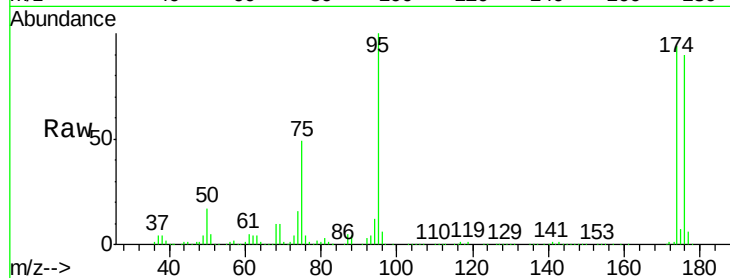
Tot Ion: 95 Resp: 205756

Ion Ratio Lower Upper

95 100

174 95.4 0.0 187.4

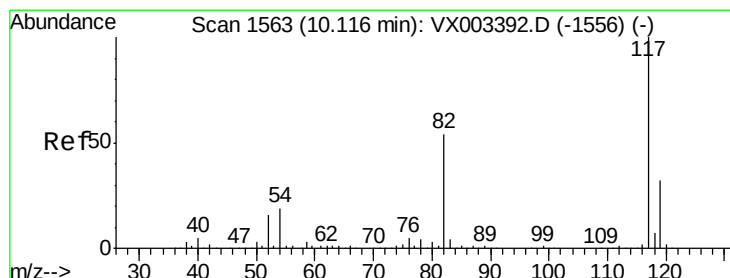
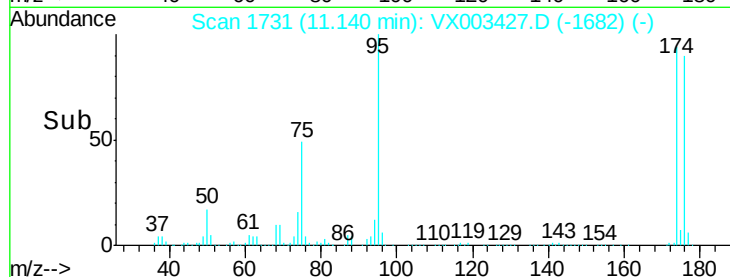
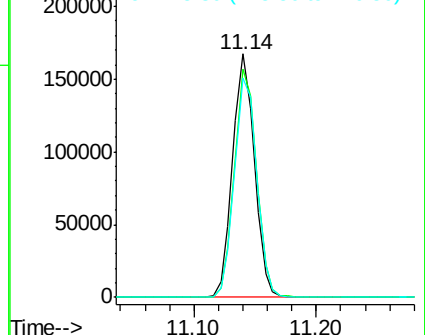
176 92.7 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

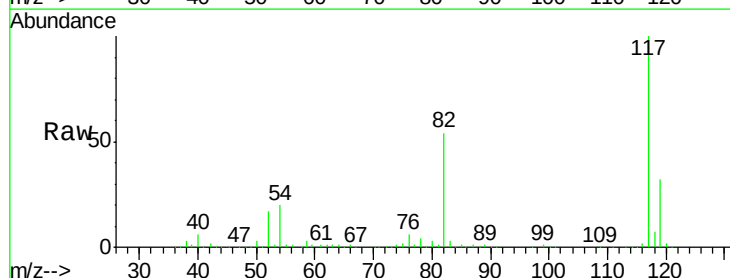
Tgt Ion: 117 Resp: 396451

Ion Ratio Lower Upper

117 100

82 53.9 45.0 67.4

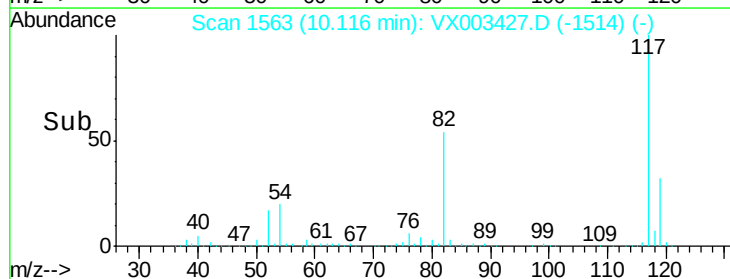
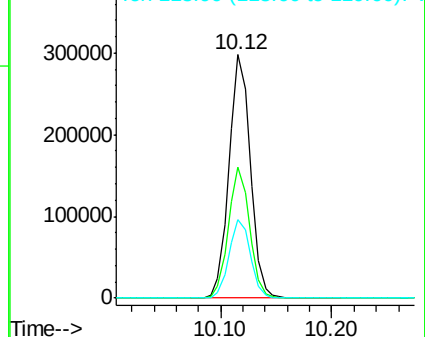
119 32.1 25.8 38.6

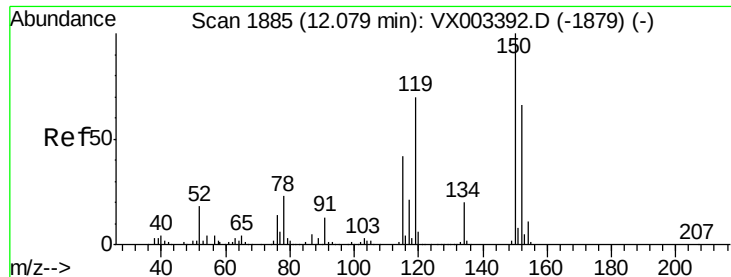


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

KG-FM1026

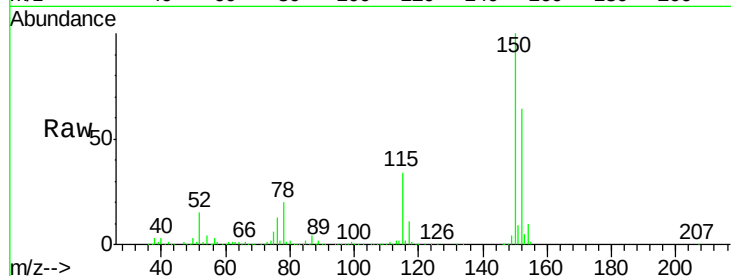
Tot Ion:152 Resp: 231968

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

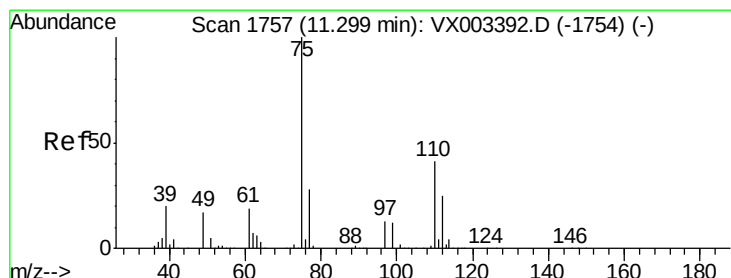
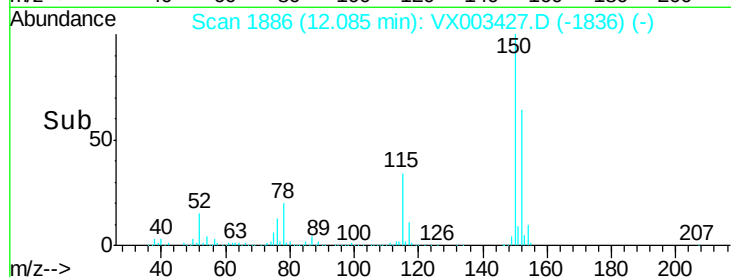
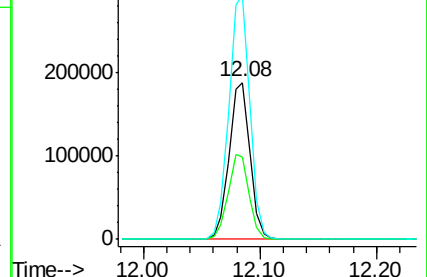
150 156.6 0.0 347.2



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: 24.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003427.D

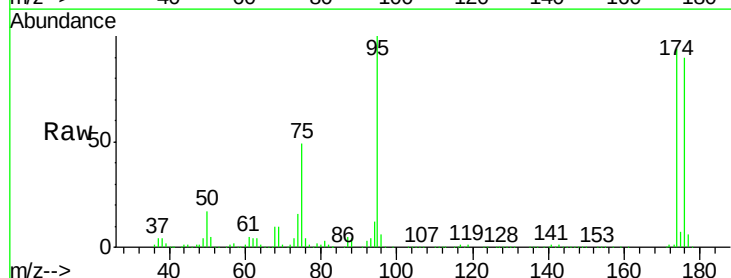
Acq: 17 Jul 2018 15:00

Tgt Ion: 75 Resp: 101396

Ion Ratio Lower Upper

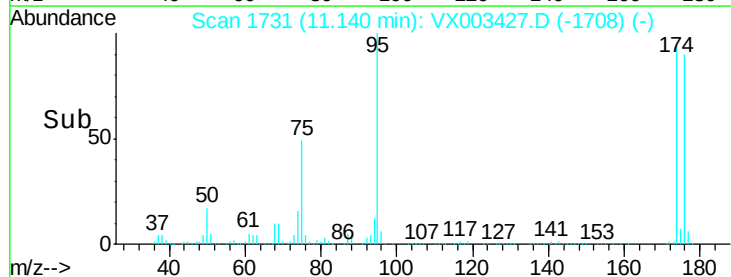
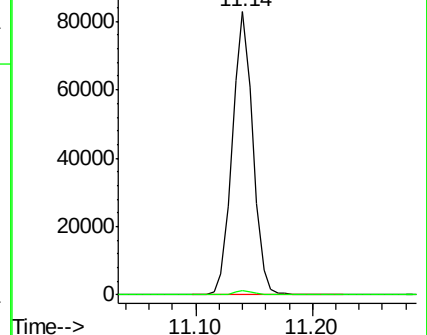
75 100

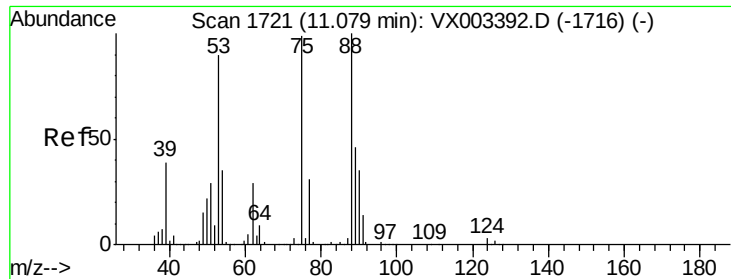
77 1.5 22.8 68.3#



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: 78.44 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003427.D

Acq: 17 Jul 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

KG-FM1026

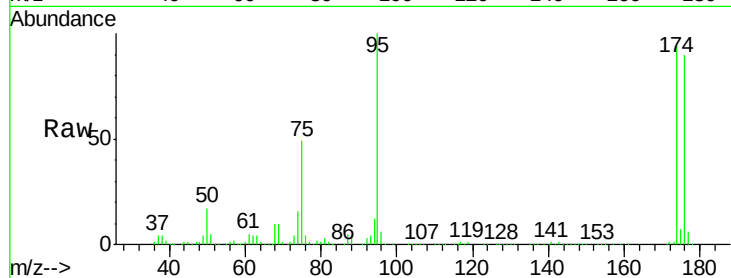
Tot Ion: 75 Resp: 101396

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



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

