

Data File : VX008813.D
Acq On : 10 Apr 2019 18:16
Operator : JC/SP
Sample : K2349-11 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
KY062MW139-190409

Quant Time: Apr 11 05:47:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
Quant Title : SW846 8260
QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	206695	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	335569	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	290428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	122111	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	136041	45.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.24%	
35) Dibromofluoromethane	5.50	113	100740	46.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.90%	
50) Toluene-d8	8.71	98	423210	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
62) 4-Bromofluorobenzene	11.13	95	138802	45.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.64%	

Target Compounds

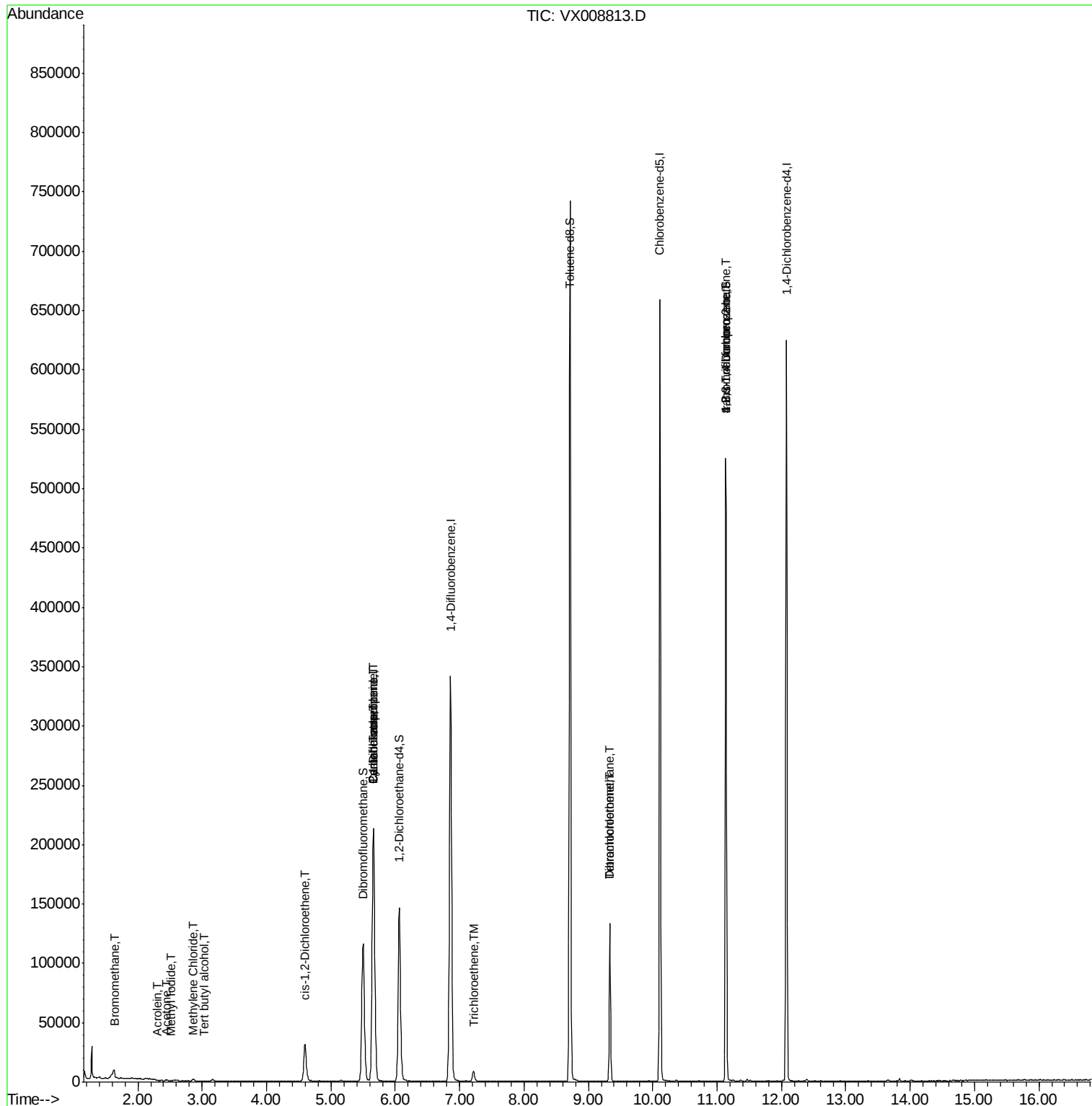
					Qvalue	
3) Chloromethane	1.32	50	281	Below Cal		91
5) Bromomethane	1.64	94	325	2.083 ug/l #		79
6) Chloroethane	1.73	64	34	Below Cal #		1
10) Methyl Iodide	2.51	142	388	4.174 ug/l #		67
11) Tert butyl alcohol	3.03	59	184	0.261 ug/l #		72
13) Acrolein	2.30	56	213	0.609 ug/l		88
16) Acetone	2.45	43	952	0.548 ug/l #		84
17) Carbon Disulfide	2.57	76	1086	Below Cal		97
20) Methylene Chloride	2.85	84	763	0.263 ug/l #		82
27) cis-1,2-Dichloroethene	4.60	96	19094	6.425 ug/l		91
28) Bromochloromethane	5.02	49	165	Below Cal #		22
31) Cyclohexane	5.66	56	4679	0.898 ug/l #		1
36) 1,1-Dichloropropene	5.67	75	16686	4.549 ug/l #		50
38) Carbon Tetrachloride	5.66	117	19243	6.338 ug/l #		18
44) Trichloroethene	7.21	130	3382	1.329 ug/l		93
60) Dibromochloromethane	9.34	129	23775	9.756 ug/l #		11
64) Tetrachloroethene	9.34	164	24936	11.589 ug/l		98
76) 1,2,3-Trichloropropane	11.13	75	70384	20.982 ug/l #		33
81) trans-1,4-Dichloro-2-buten	11.13	75	70384	57.838 ug/l #		9

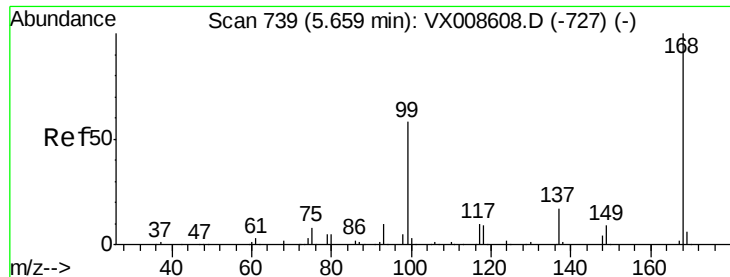
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008813.D

Acq: 10 Apr 2019 18:16

Instrument :

MSVOA_X

ClientSampleId :

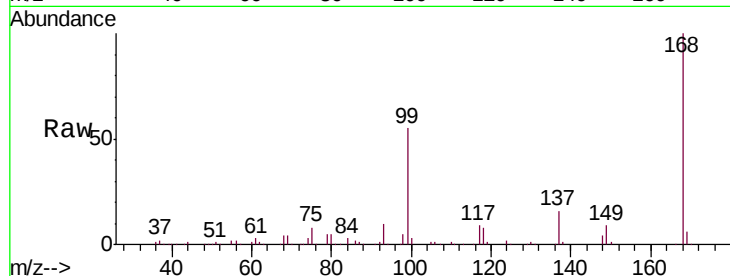
KY062MW139-190409

Tgt Ion:168 Resp: 206695

Ion Ratio Lower Upper

168 100

99 54.6 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

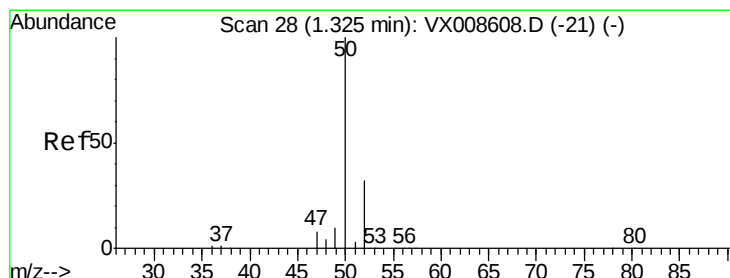
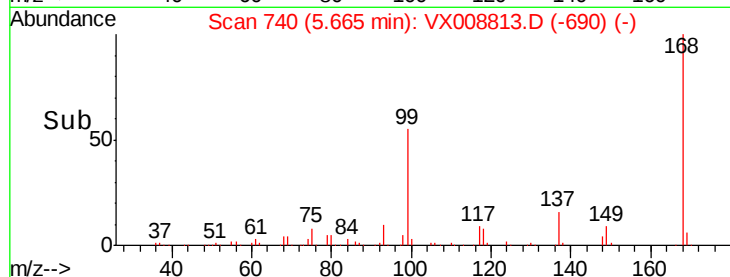
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008813.D

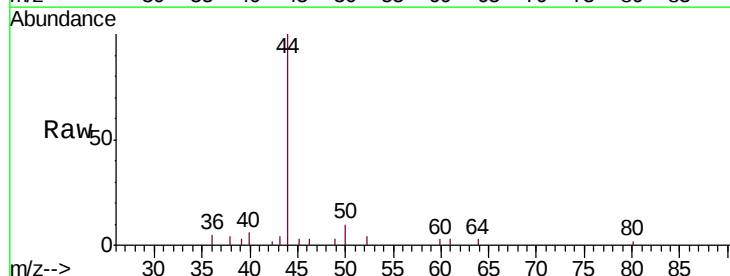
Acq: 10 Apr 2019 18:16

Tgt Ion: 50 Resp: 281

Ion Ratio Lower Upper

50 100

52 37.1 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

150

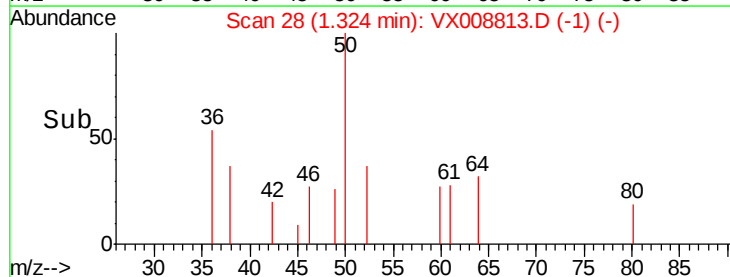
100

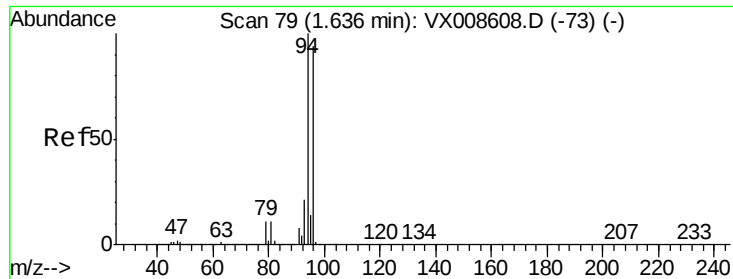
50

0

Time-->

1.30 1.32 1.34





#5

Bromomethane

Concen: 2.083 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008813.D

Acq: 10 Apr 2019 18:16

Instrument :

MSVOA_X

ClientSampleId :

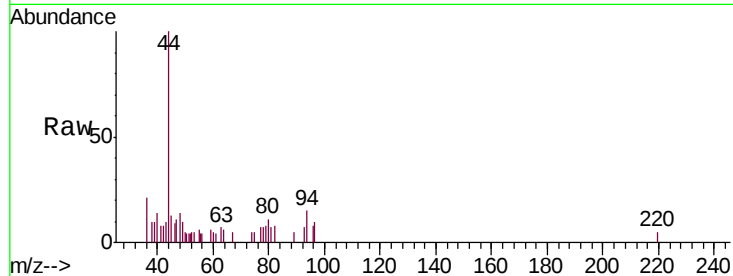
KY062MW139-190409

Tgt Ion: 94 Resp: 325

Ion Ratio Lower Upper

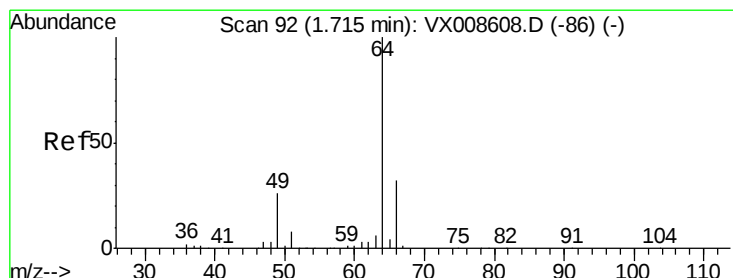
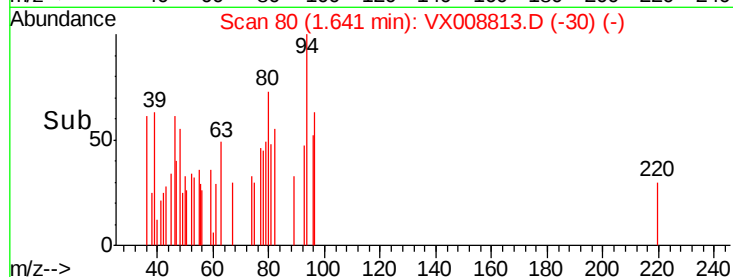
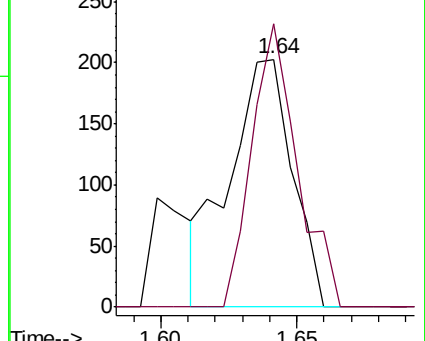
94 100

96 114.3 75.2 112.8#



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: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008813.D

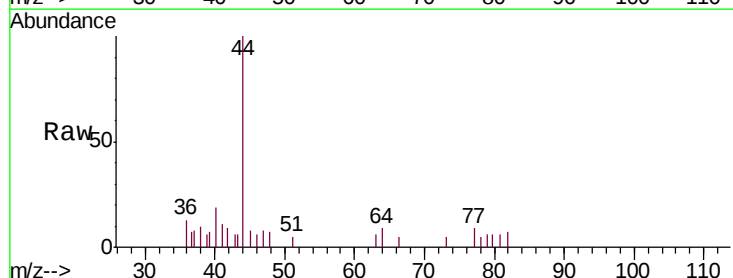
Acq: 10 Apr 2019 18:16

Tgt Ion: 64 Resp: 34

Ion Ratio Lower Upper

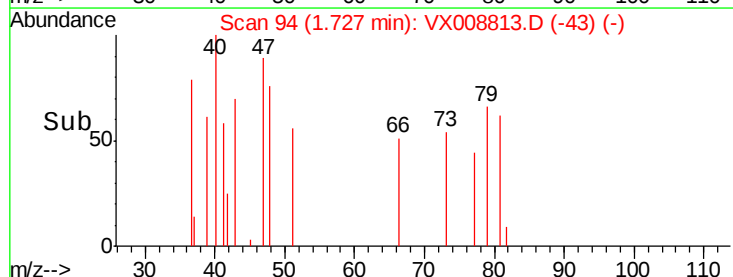
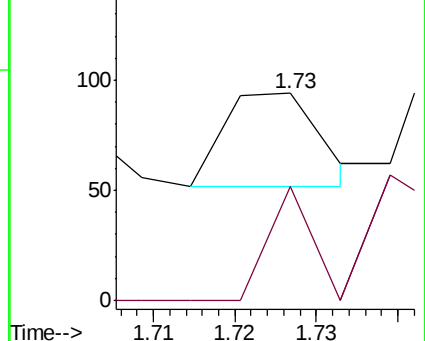
64 100

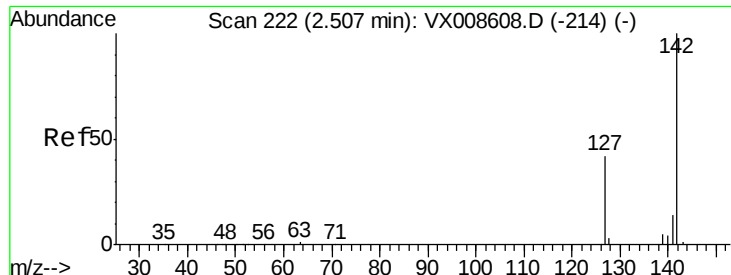
66 123.8 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

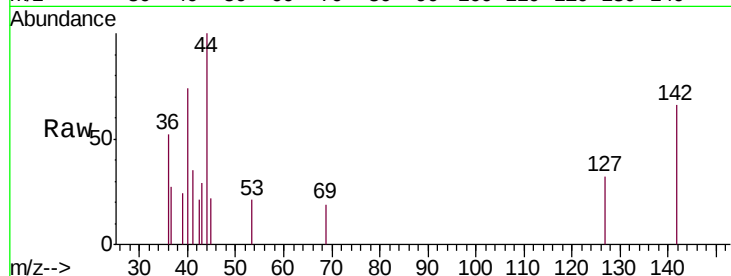




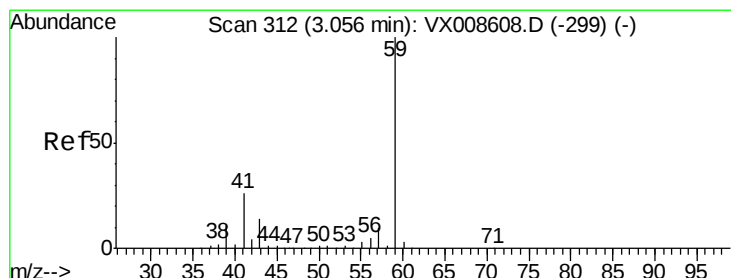
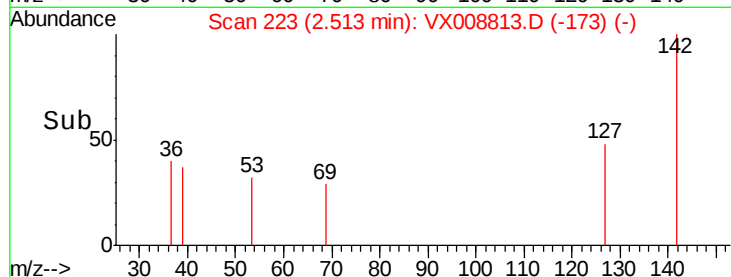
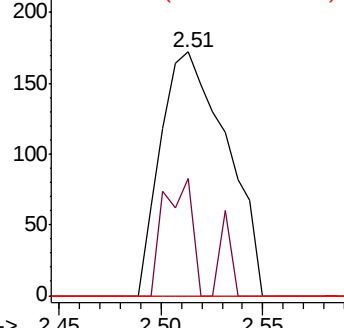
#10
Methyl Iodide
Concen: 4.174 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008813.D
Acq: 10 Apr 2019 18:16

Instrument :
MSVOA_X
ClientSampleId :
KY062MW139-190409

Tgt Ion: 142 Resp: 388
Ion Ratio Lower Upper
142 100
127 20.6 33.0 49.6#
141 0.0 11.4 17.2#

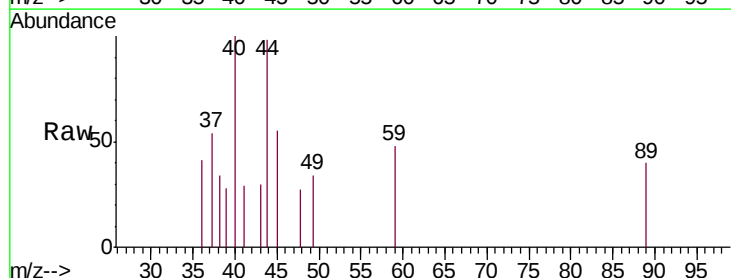


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

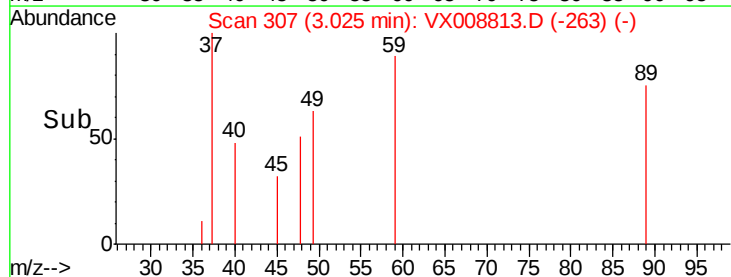
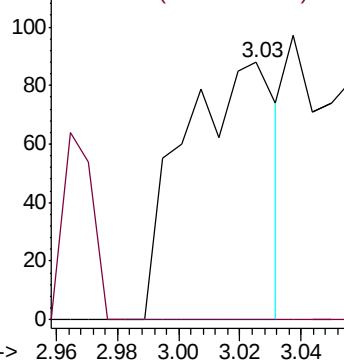


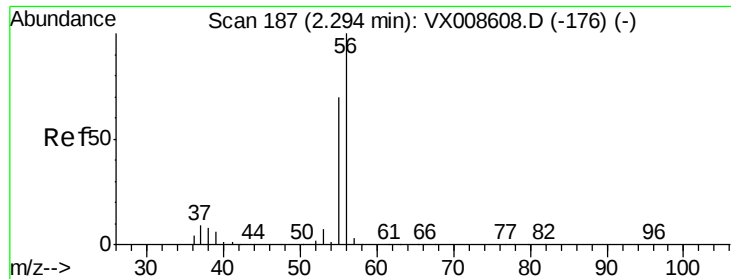
#11
Tert butyl alcohol
Concen: 0.261 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.03 min
Lab File: VX008813.D
Acq: 10 Apr 2019 18:16

Tgt Ion: 59 Resp: 184
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.609 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008813.D

Acq: 10 Apr 2019 18:16

Instrument :

MSVOA_X

ClientSampleId :

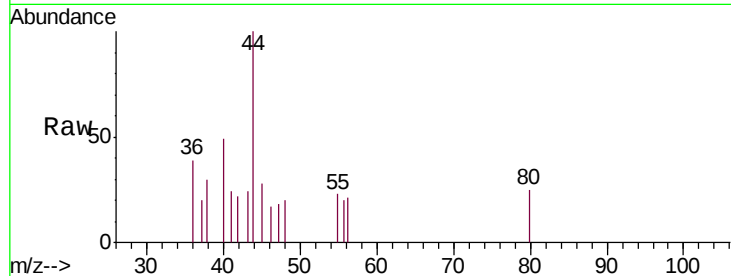
KY062MW139-190409

Tgt Ion: 56 Resp: 213

Ion Ratio Lower Upper

56 100

55 62.4 58.0 87.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

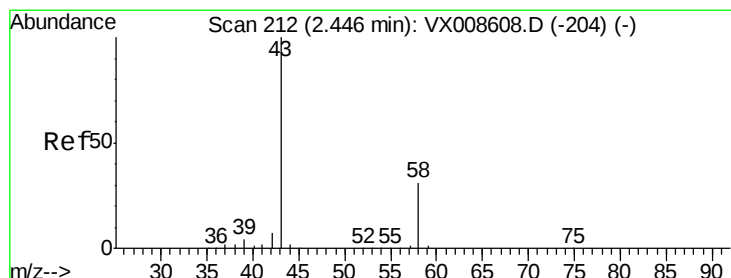
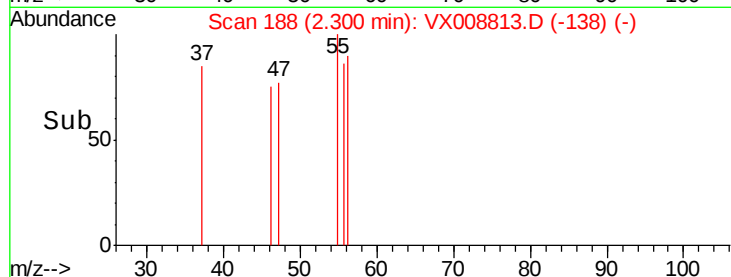
150

100

50

0

Time-->



#16

Acetone

Concen: 0.548 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008813.D

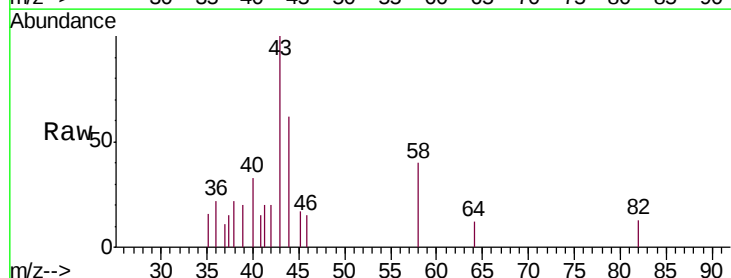
Acq: 10 Apr 2019 18:16

Tgt Ion: 43 Resp: 952

Ion Ratio Lower Upper

43 100

58 39.8 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

500

400

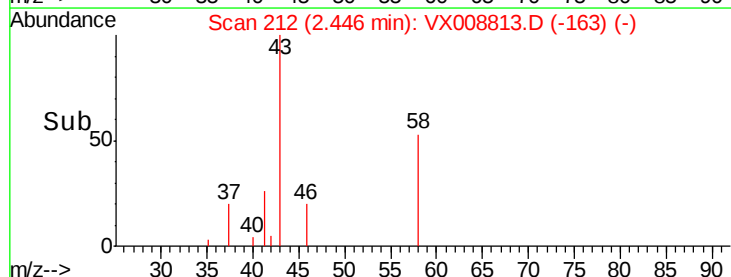
300

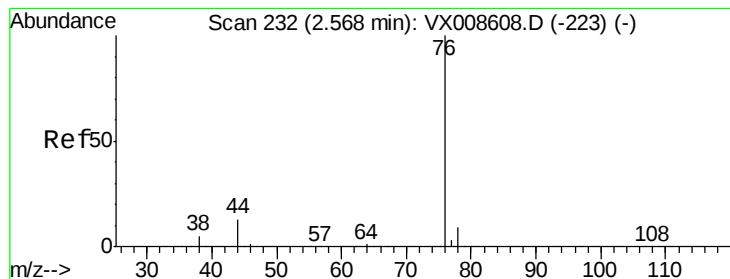
200

100

0

Time-->





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008813.D

Acq: 10 Apr 2019 18:16

Instrument :

MSVOA_X

ClientSampleId :

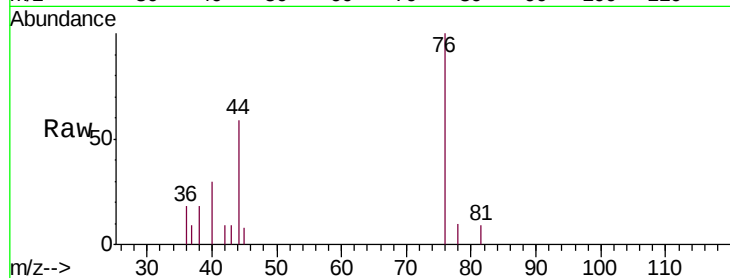
KY062MW139-190409

Tgt Ion: 76 Resp: 1086

Ion Ratio Lower Upper

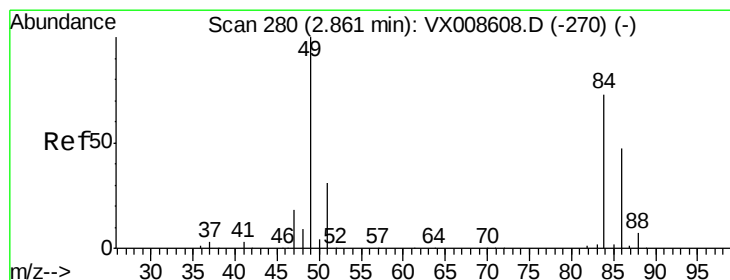
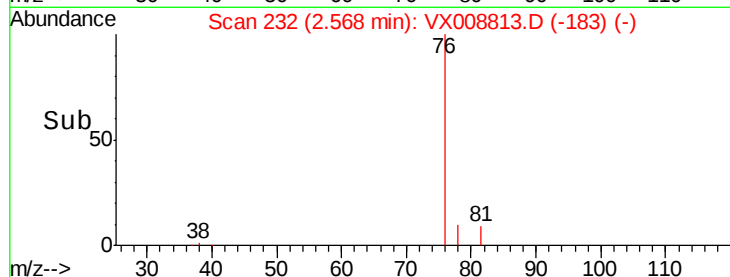
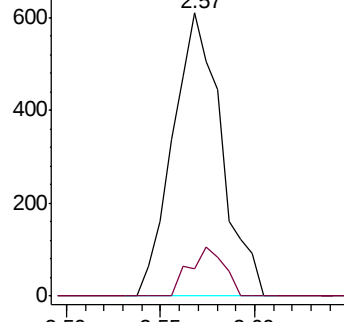
76 100

78 9.9 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.263 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008813.D

Acq: 10 Apr 2019 18:16

Tgt Ion: 84 Resp: 763

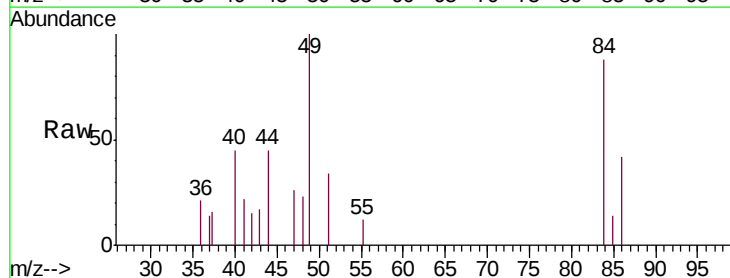
Ion Ratio Lower Upper

84 100

49 113.4 109.7 164.5

51 38.2 33.6 50.4

86 47.1 51.4 77.2#

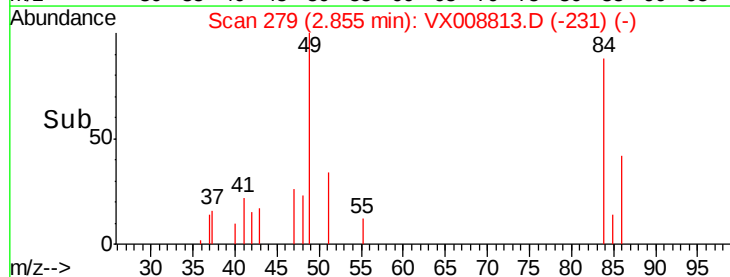
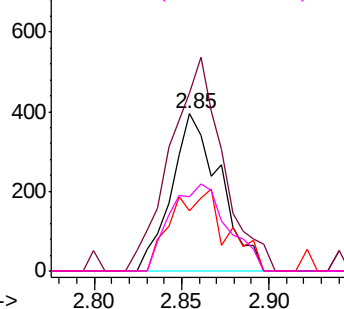


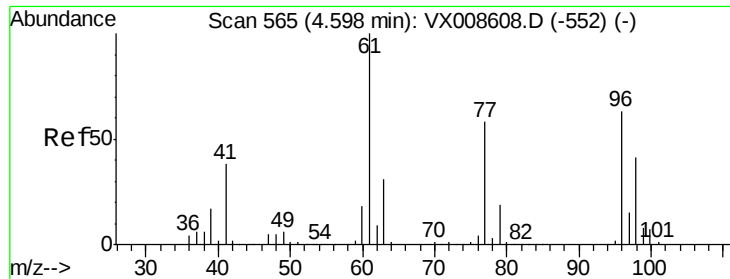
Abundance Ion 83.90 (83.60 to 84.60): VX0

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



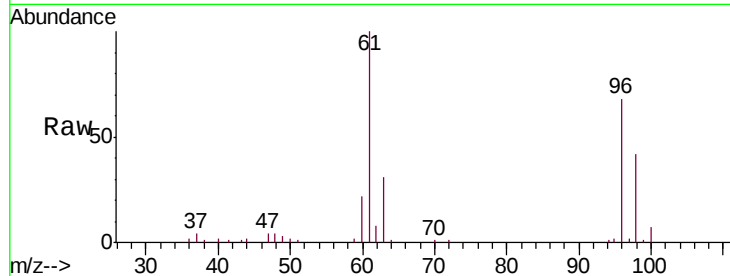


#27

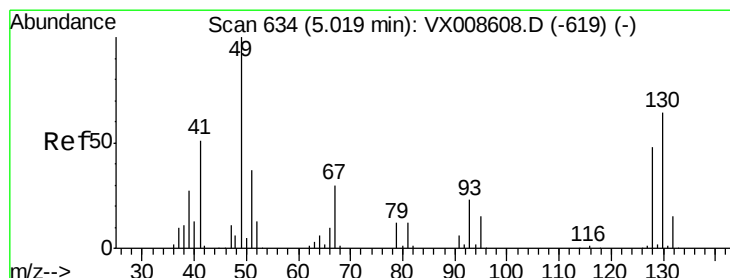
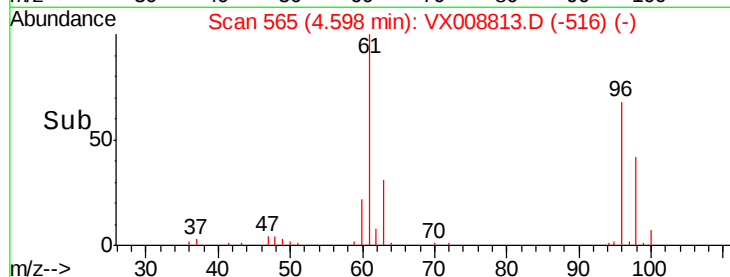
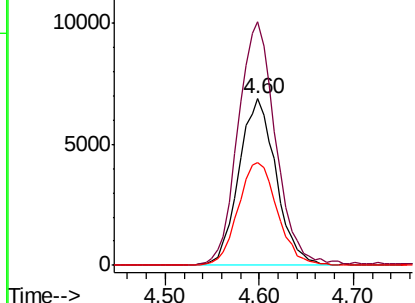
cis-1,2-Dichloroethene
 Concen: 6.425 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX008813.D
 Acq: 10 Apr 2019 18:16

Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-190409

Tgt Ion: 96 Resp: 19094
 Ion Ratio Lower Upper
 96 100
 61 148.0 0.0 327.6
 98 64.7 0.0 128.6



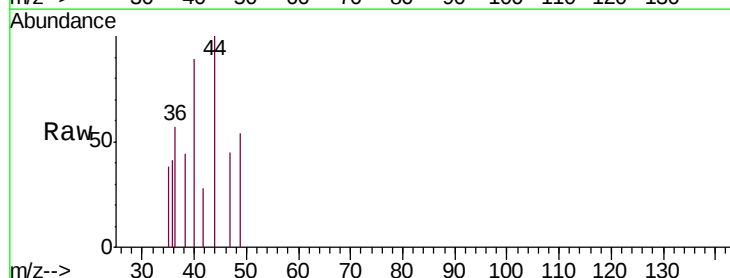
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



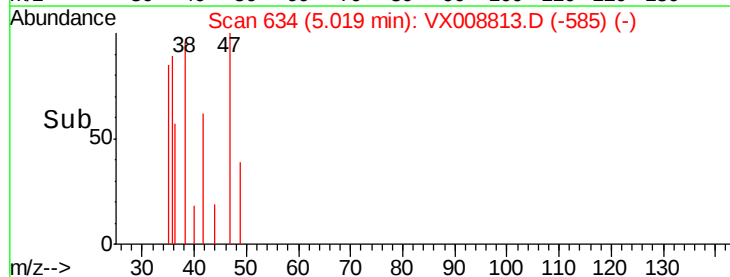
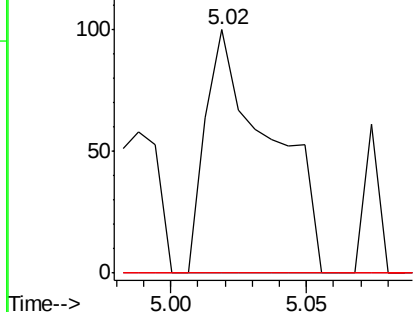
#28

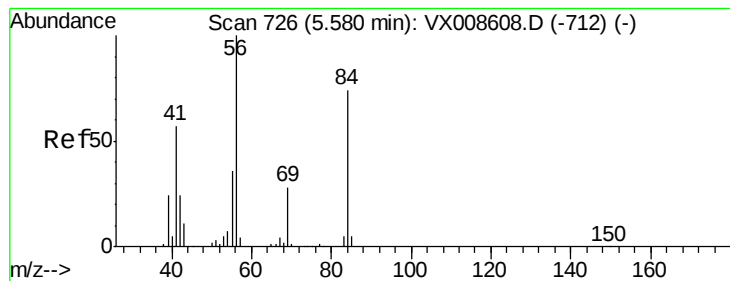
Bromochloromethane
 Concen: Below Cal
 RT: 5.02 min Scan# 634
 Delta R.T. -0.00 min
 Lab File: VX008813.D
 Acq: 10 Apr 2019 18:16

Tgt Ion: 49 Resp: 165
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.6
 130 0.0 49.3 73.9#



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





#31

Cyclohexane

Concen: 0.898 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008813.D

Acq: 10 Apr 2019 18:16

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-190409

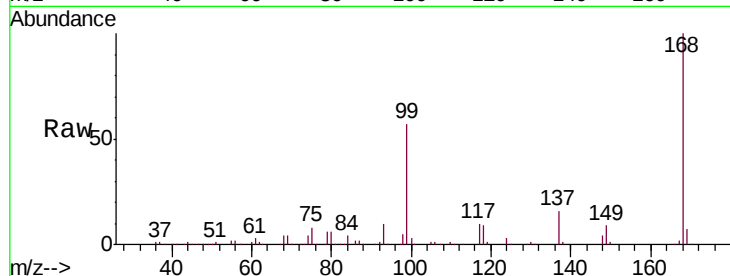
Tgt Ion: 56 Resp: 4679

Ion Ratio Lower Upper

56 100

69 177.3 22.6 33.8#

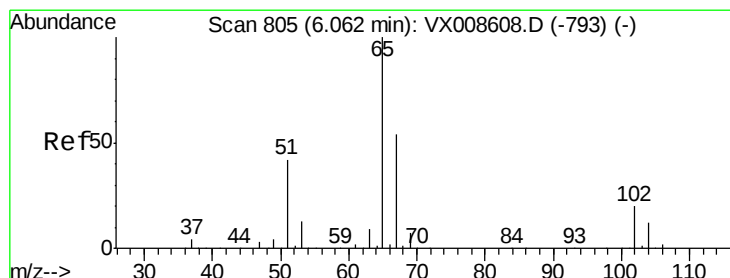
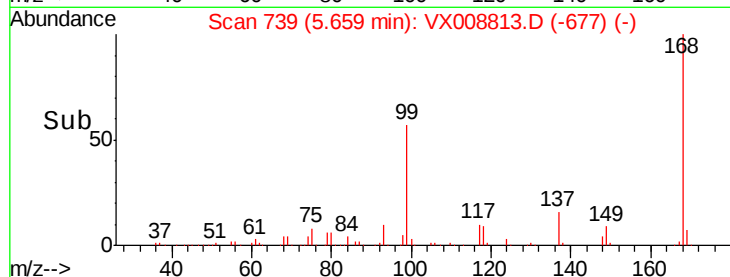
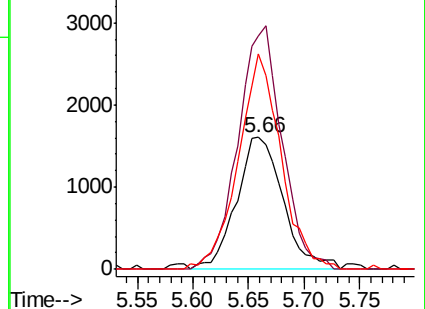
84 163.5 59.3 88.9#



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: 45.125 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008813.D

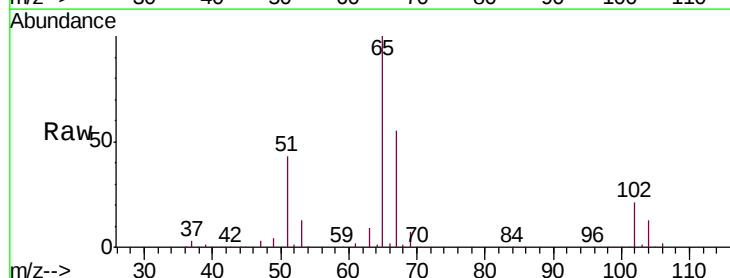
Acq: 10 Apr 2019 18:16

Tgt Ion: 65 Resp: 136041

Ion Ratio Lower Upper

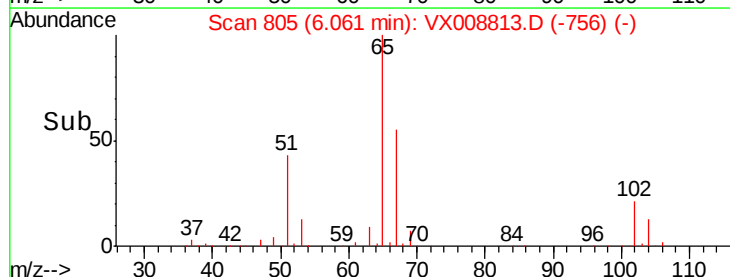
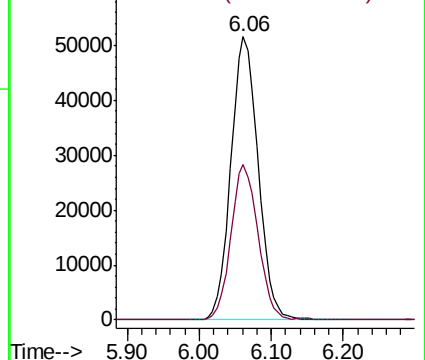
65 100

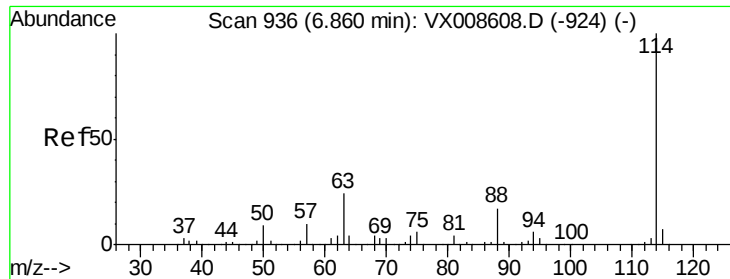
67 54.4 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

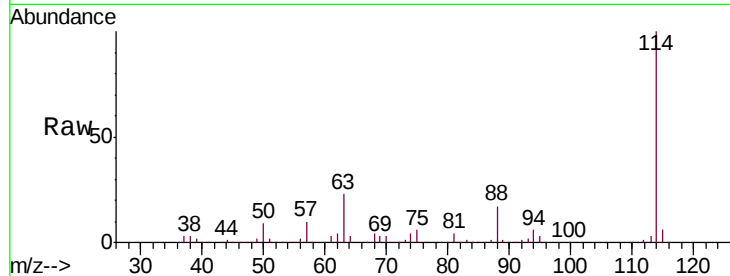




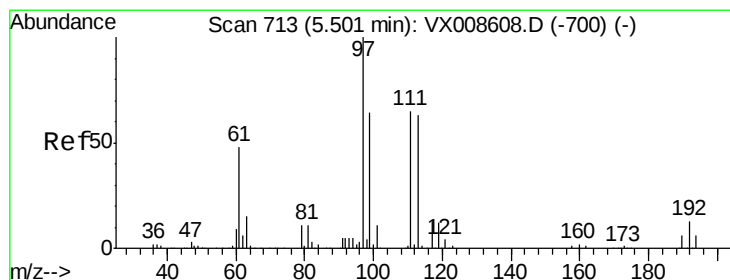
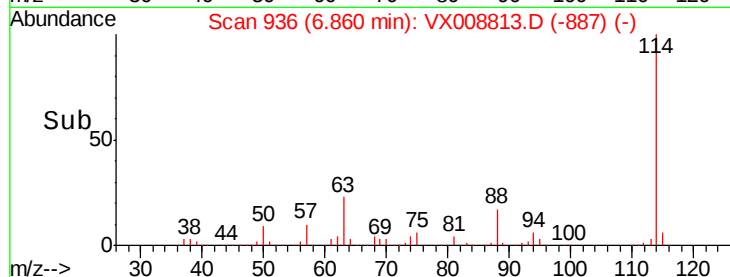
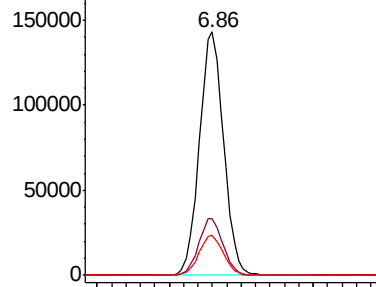
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008813.D
 Acq: 10 Apr 2019 18:16

Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-190409

Tgt Ion:	114	Resp:	335569
Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	47.2
88	16.7	0.0	34.0

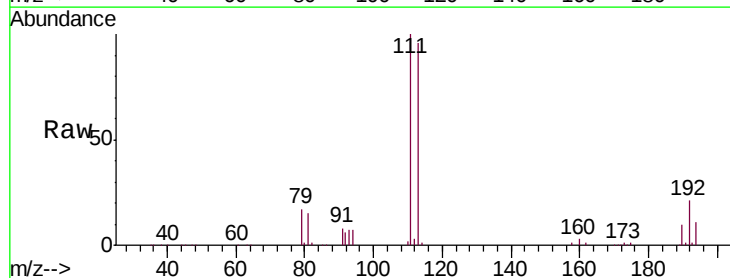


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

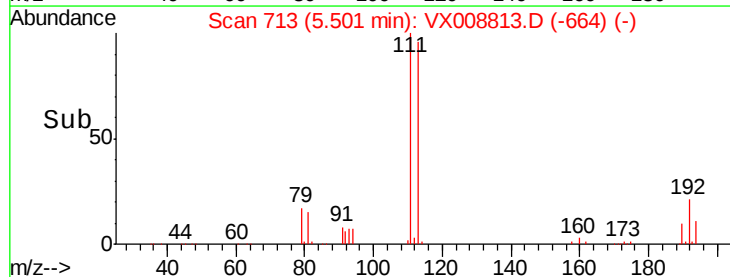
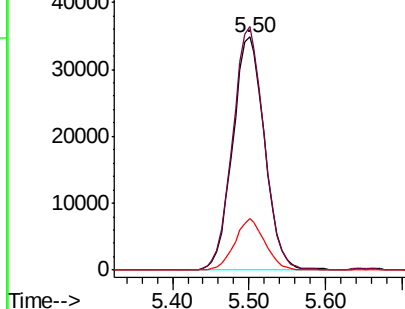


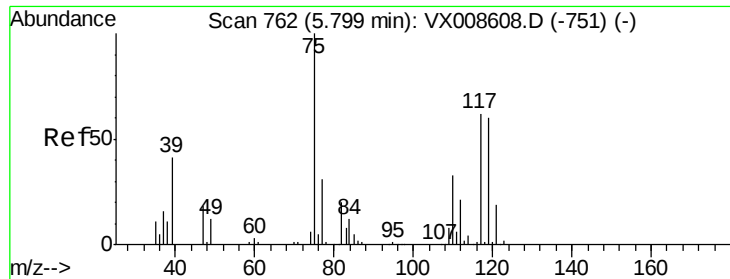
#35
 Dibromofluoromethane
 Concen: 46.954 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008813.D
 Acq: 10 Apr 2019 18:16

Tgt Ion:	113	Resp:	100740
Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.4	125.2
192	20.9	16.1	24.1



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

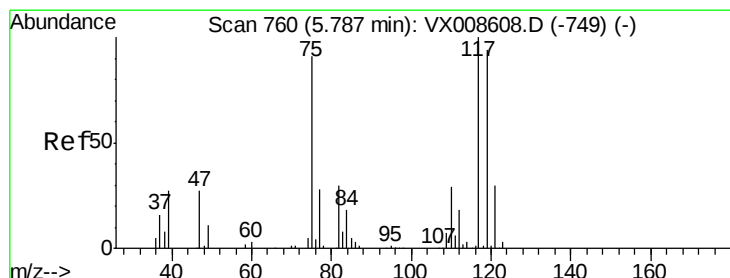
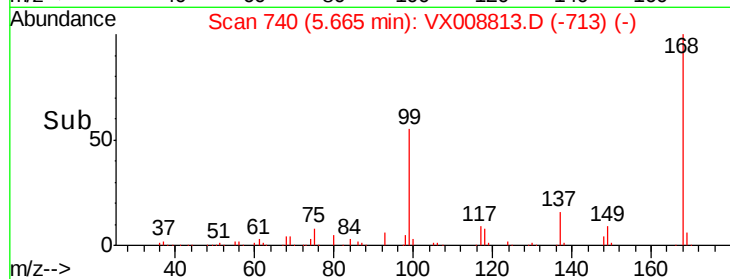
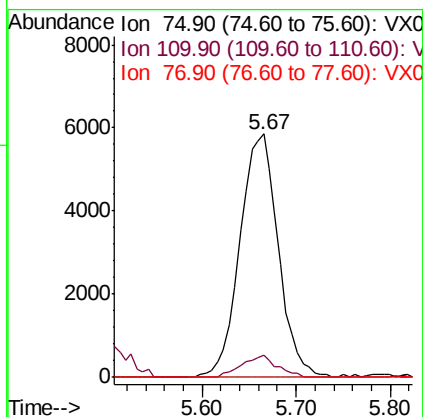
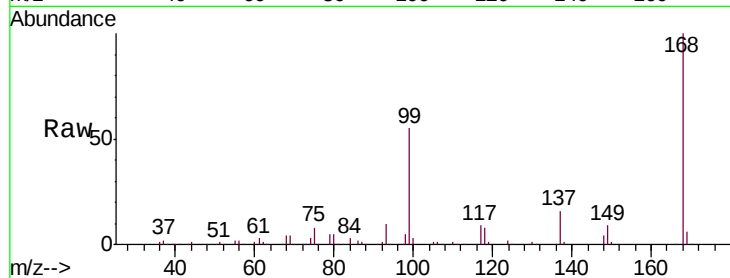




#36
 1,1-Dichloropropene
 Concen: 4.549 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008813.D
 Acq: 10 Apr 2019 18:16

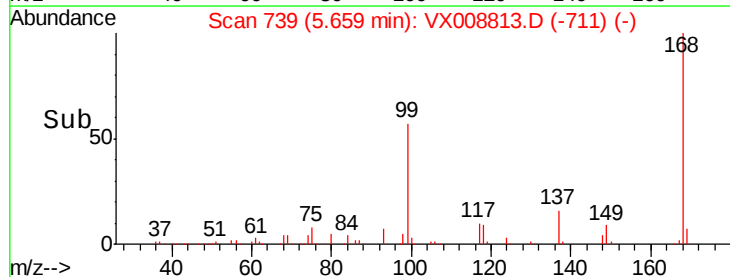
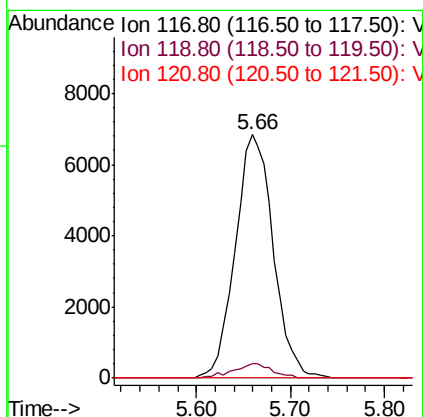
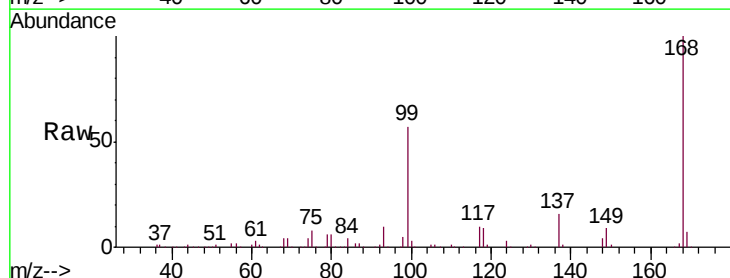
Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-190409

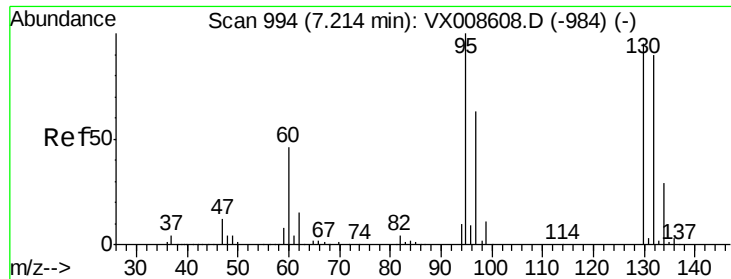
Tgt Ion: 75 Resp: 16686
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.4 49.2#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.338 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008813.D
 Acq: 10 Apr 2019 18:16

Tgt Ion: 117 Resp: 19243
 Ion Ratio Lower Upper
 117 100
 119 5.9 75.0 112.6#
 121 0.0 24.3 36.5#





#44

Trichloroethene

Concen: 1.329 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008813.D

Acq: 10 Apr 2019 18:16

Instrument :

MSVOA_X

ClientSampleId :

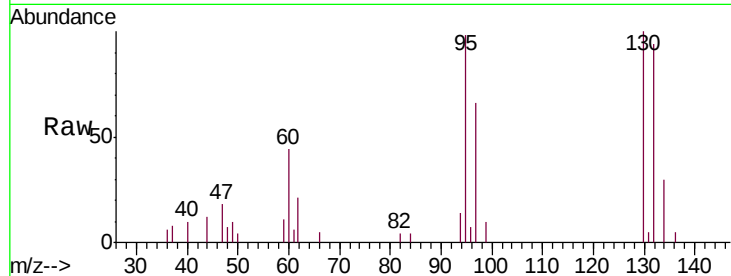
KY062MW139-190409

Tgt Ion:130 Resp: 3382

Ion Ratio Lower Upper

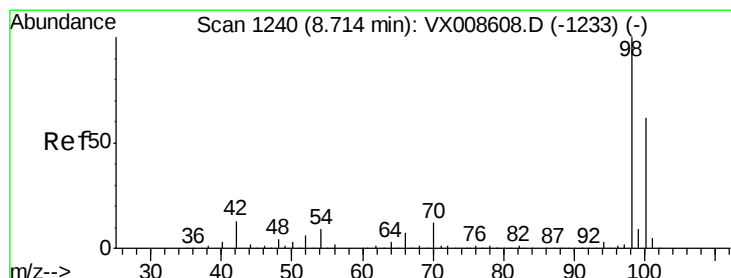
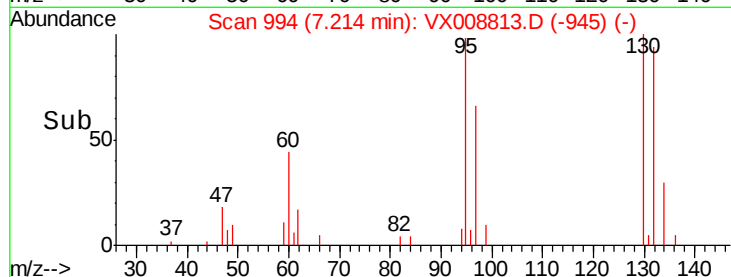
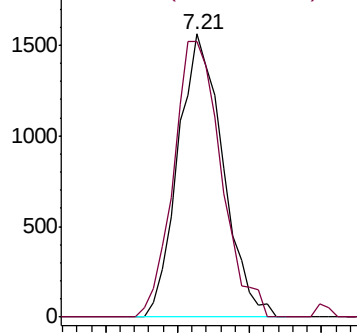
130 100

95 97.5 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.540 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008813.D

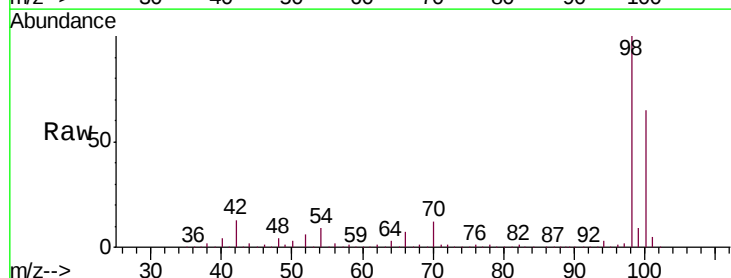
Acq: 10 Apr 2019 18:16

Tgt Ion: 98 Resp: 423210

Ion Ratio Lower Upper

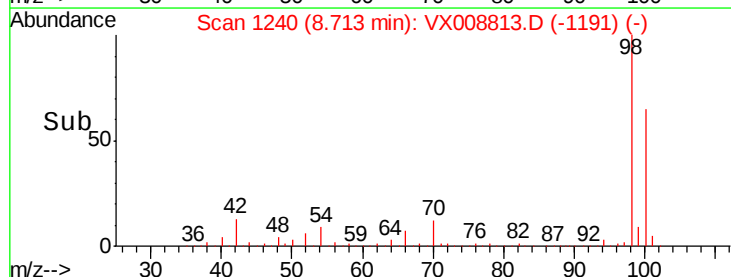
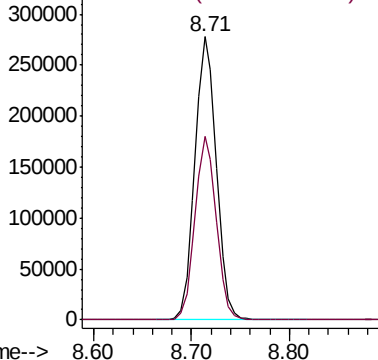
98 100

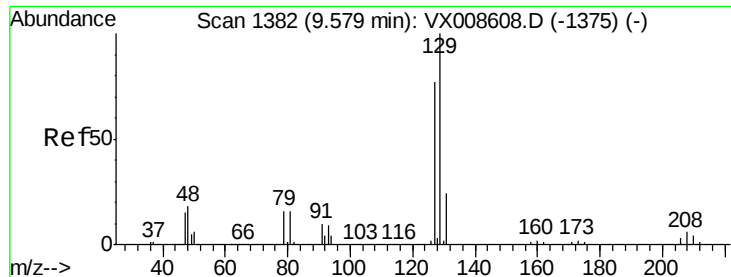
100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

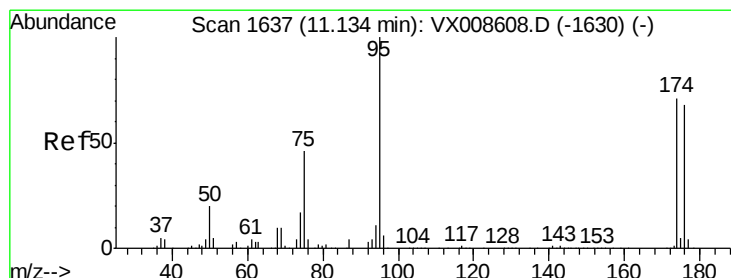
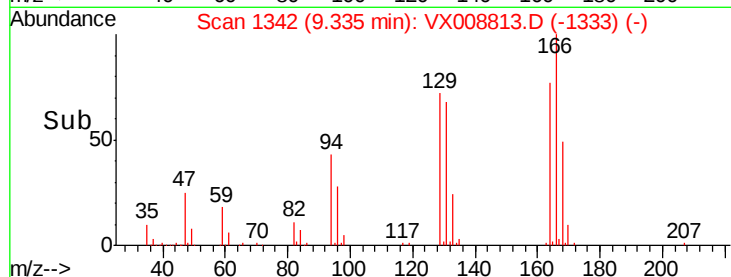
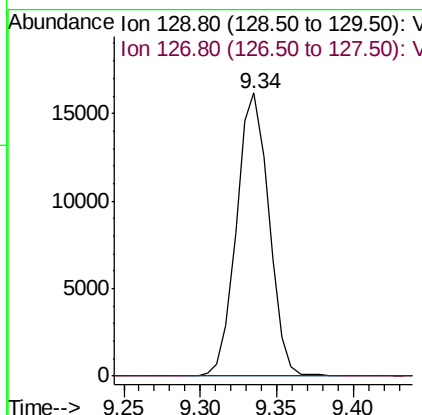
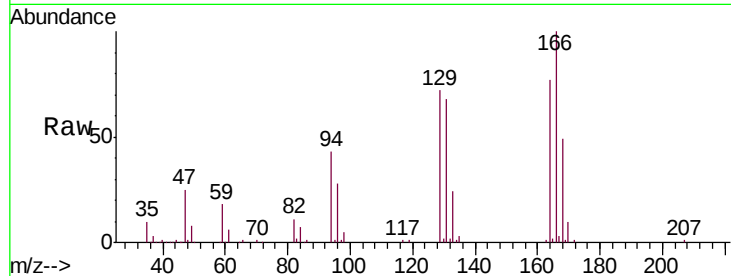




#60
 Dibromochloromethane
 Concen: 9.756 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX008813.D
 Acq: 10 Apr 2019 18:16

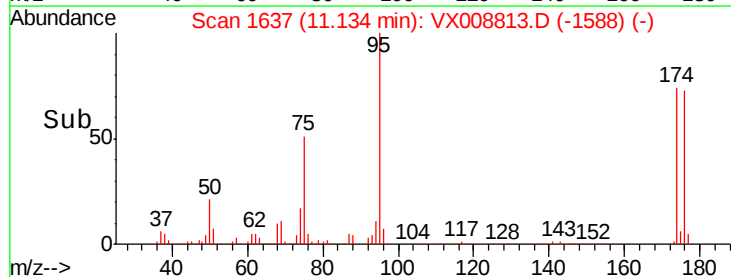
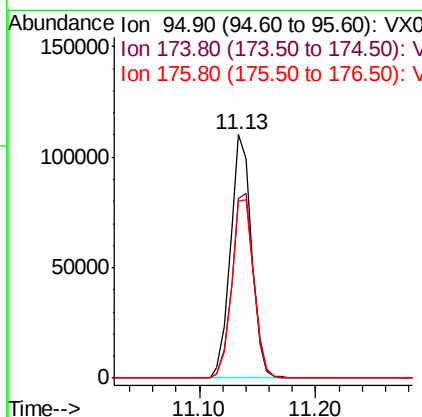
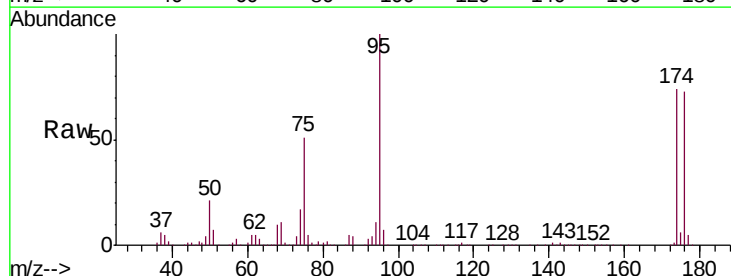
Instrument :
 MSVOA_X
 ClientSampleId :
 KY062MW139-190409

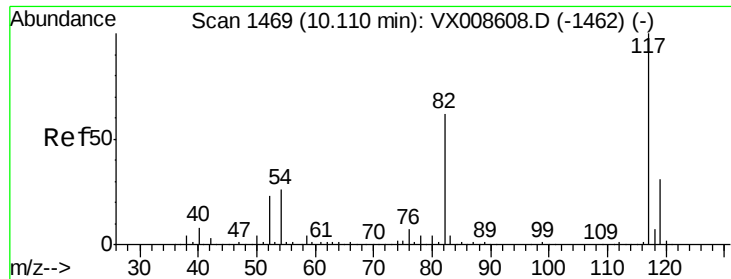
Tgt Ion: 129 Resp: 23775
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.3#



#62
 4-Bromofluorobenzene
 Concen: 45.818 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008813.D
 Acq: 10 Apr 2019 18:16

Tgt Ion: 95 Resp: 138802
 Ion Ratio Lower Upper
 95 100
 174 78.7 0.0 151.8
 176 76.5 0.0 145.8

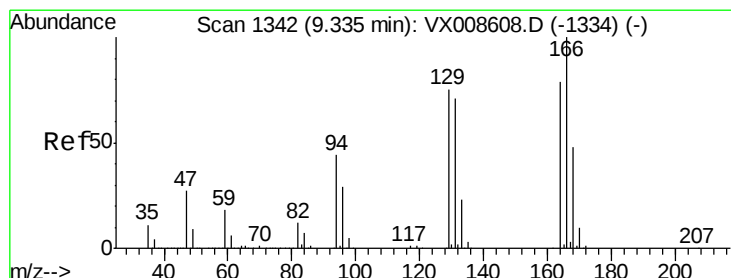
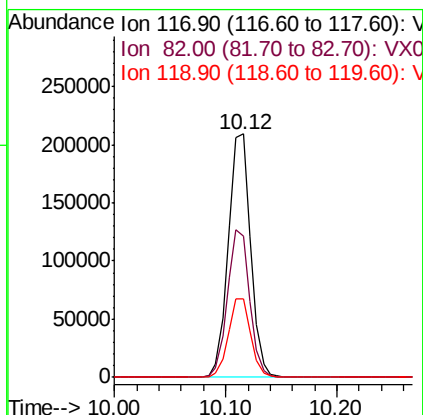
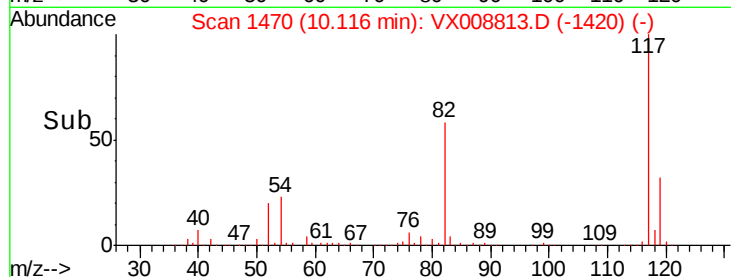
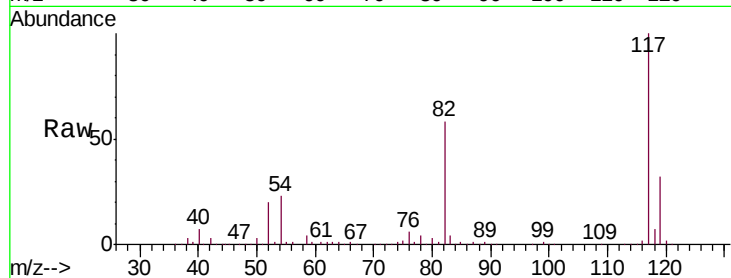




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008813.D
Acq: 10 Apr 2019 18:16

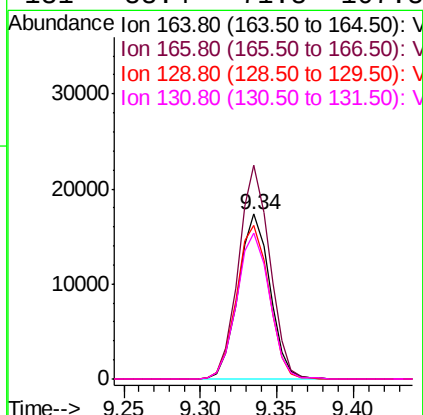
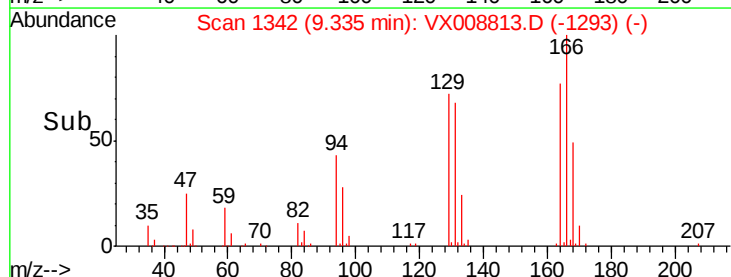
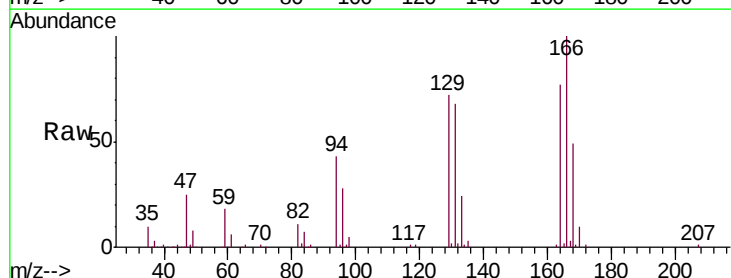
Instrument :
MSVOA_X
ClientSampleId :
KY062MW139-190409

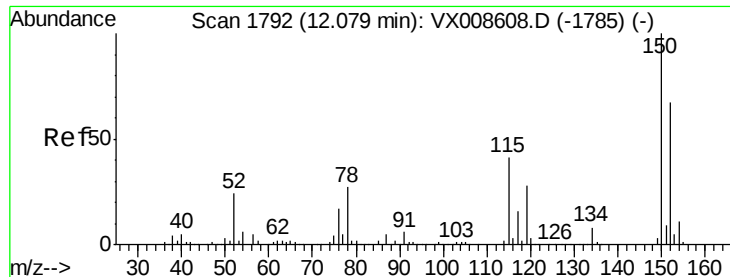
Tgt Ion:117 Resp: 290428
Ion Ratio Lower Upper
117 100
82 57.8 49.6 74.4
119 32.4 25.0 37.4



#64
Tetrachloroethene
Concen: 11.589 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008813.D
Acq: 10 Apr 2019 18:16

Tgt Ion:164 Resp: 24936
Ion Ratio Lower Upper
164 100
166 129.4 101.0 151.6
129 93.0 75.8 113.8
131 88.4 71.8 107.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008813.D

Acq: 10 Apr 2019 18:16

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-190409

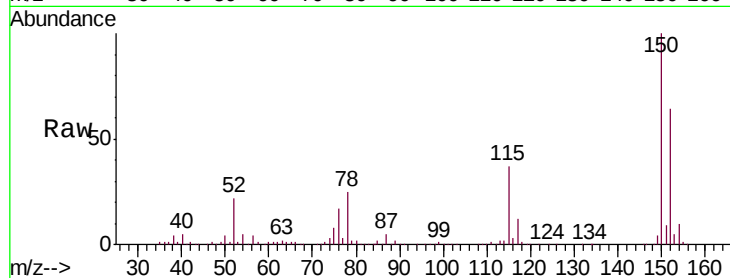
Tgt Ion:152 Resp: 122111

Ion Ratio Lower Upper

152 100

115 60.0 43.5 130.5

150 157.2 0.0 348.8



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

200000

150000

100000

50000

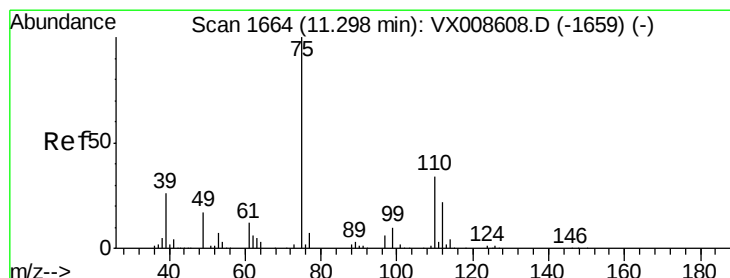
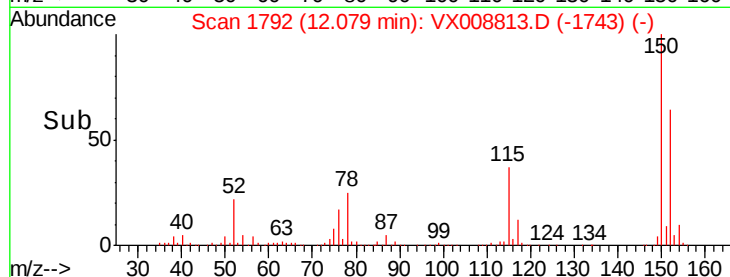
0

12.08

12.00

12.10

Time-->



#76

1,2,3-Trichloropropane

Concen: 20.982 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008813.D

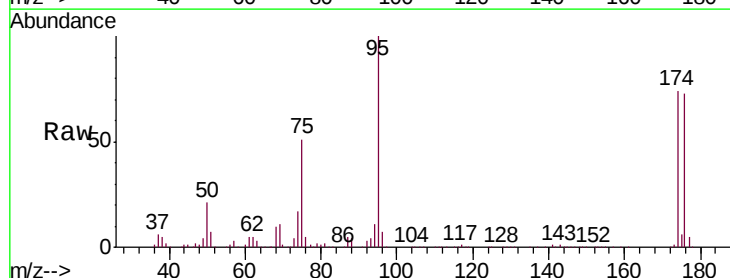
Acq: 10 Apr 2019 18:16

Tgt Ion: 75 Resp: 70384

Ion Ratio Lower Upper

75 100

77 1.2 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

60000

50000

40000

30000

20000

10000

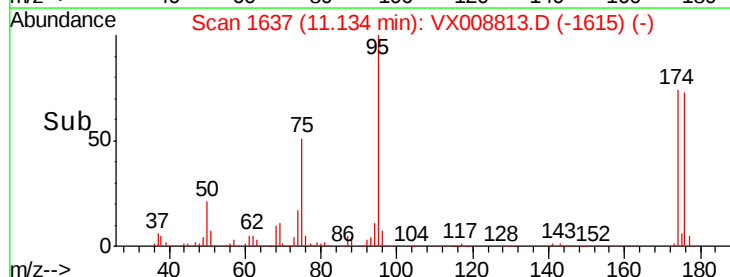
0

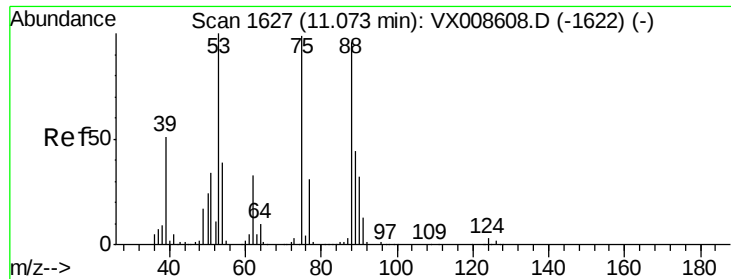
11.13

11.10

11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 57.838 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008813.D

Acq: 10 Apr 2019 18:16

Instrument :

MSVOA_X

ClientSampleId :

KY062MW139-190409

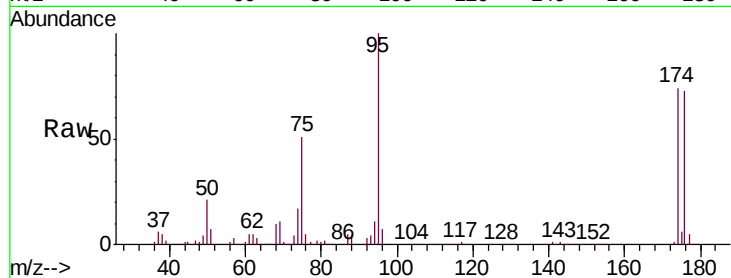
Tgt Ion: 75 Resp: 70384

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#



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

