

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040619\
 Data File : VX008731.D
 Acq On : 06 Apr 2019 19:22
 Operator : JC/SP
 Sample : K2295-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY074MW061-190404

Quant Time: Apr 08 01:56:52 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	207114	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	342146	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	294975	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	123578	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	142102	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
35) Dibromofluoromethane	5.50	113	102712	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	
50) Toluene-d8	8.71	98	430017	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
62) 4-Bromofluorobenzene	11.13	95	142096	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	

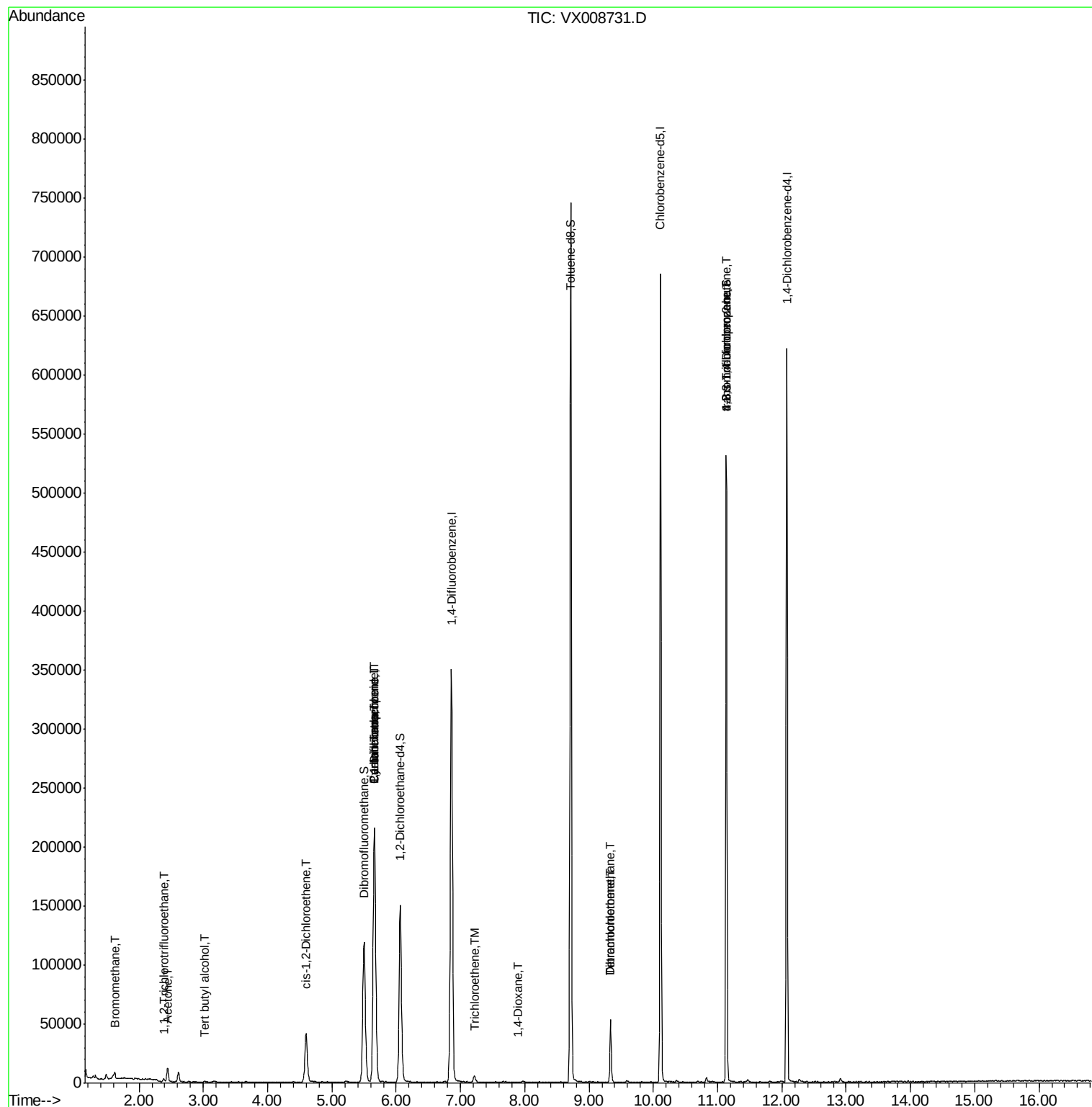
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2479	Below Cal		97
5) Bromomethane	1.62	94	192	2.002 ug/l #		65
6) Chloroethane	1.75	64	1680	Below Cal #		78
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1152	0.502 ug/l		98
11) Tert butyl alcohol	3.02	59	259	0.366 ug/l #		72
16) Acetone	2.44	43	13080	7.518 ug/l		98
17) Carbon Disulfide	2.58	76	341	Below Cal #		75
27) cis-1,2-Dichloroethene	4.60	96	25446	8.545 ug/l		89
28) Bromochloromethane	5.06	49	43	Below Cal #		22
31) Cyclohexane	5.66	56	4770	0.914 ug/l #		1
36) 1,1-Dichloropropene	5.66	75	16753	4.479 ug/l #		50
38) Carbon Tetrachloride	5.66	117	20091	6.490 ug/l #		18
44) Trichloroethene	7.21	130	1944	0.749 ug/l		90
49) 1,4-Dioxane	7.89	88	20	0.270 ug/l #		19
60) Dibromochloromethane	9.34	129	9475	3.813 ug/l #		11
64) Tetrachloroethene	9.34	164	9946	4.551 ug/l		94
76) 1,2,3-Trichloropropane	11.13	75	72160	21.256 ug/l #		33
81) trans-1,4-Dichloro-2-buten	11.13	75	72160	58.593 ug/l #		9

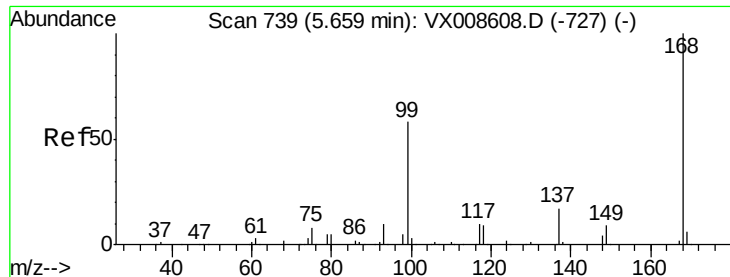
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008731.D

Acq: 06 Apr 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

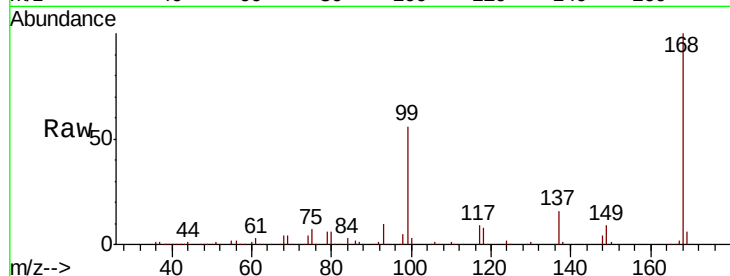
KY074MW061-190404

Tot Ion:168 Resp: 207114

Ion Ratio Lower Upper

168 100

99 55.6 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

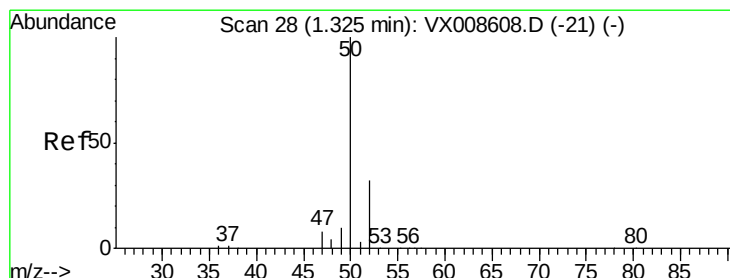
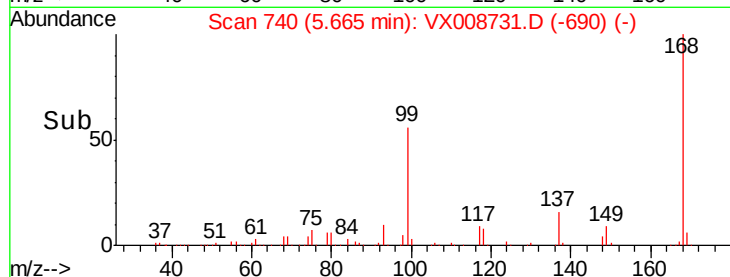
60000

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: VX008731.D

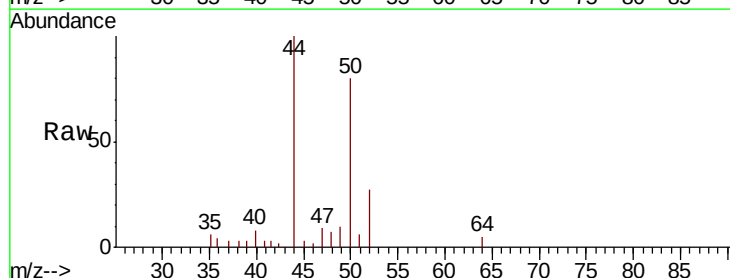
Acq: 06 Apr 2019 19:22

Tgt Ion: 50 Resp: 2479

Ion Ratio Lower Upper

50 100

52 34.2 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

2500

2000

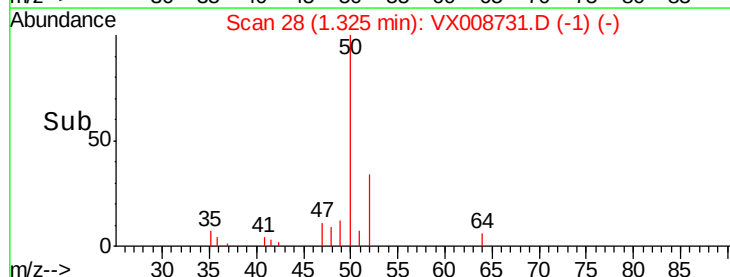
1500

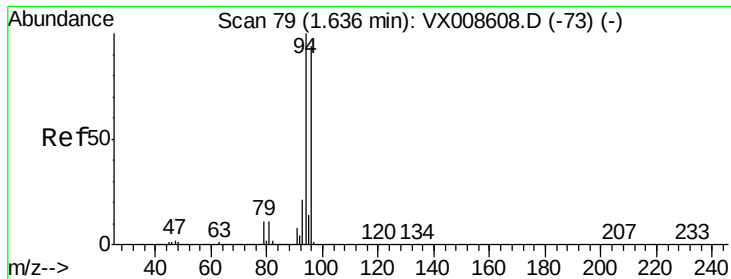
1000

500

0

Time--> 1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: 2.002 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.01 min

Lab File: VX008731.D

Acq: 06 Apr 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

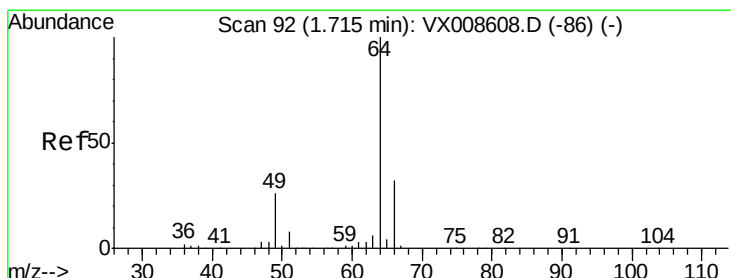
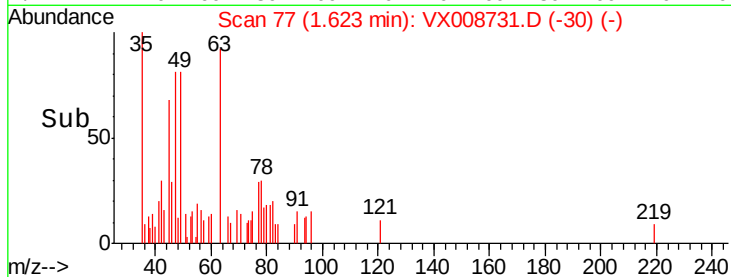
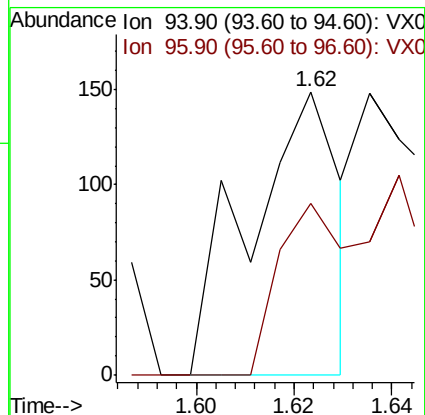
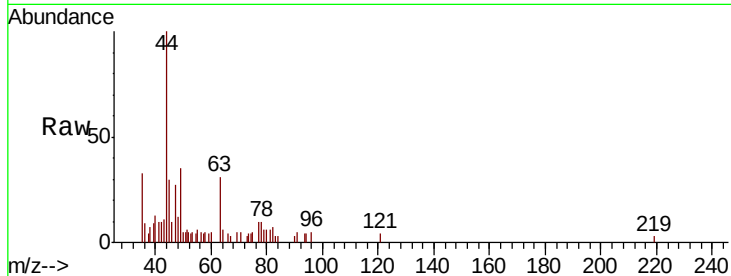
KY074MW061-190404

Tot Ion: 94 Resp: 192

Ion Ratio Lower Upper

94 100

96 60.4 75.2 112.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX008731.D

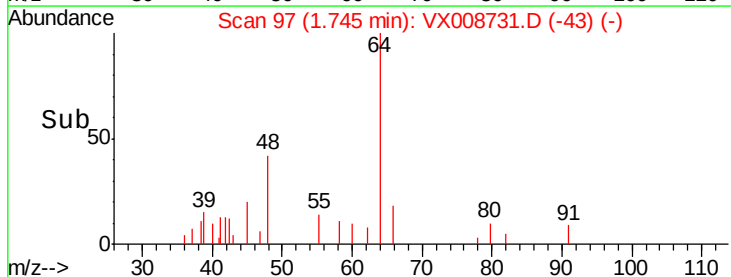
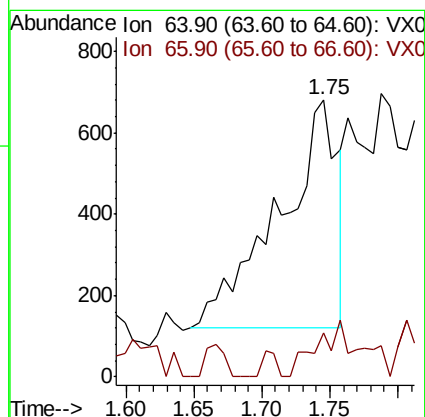
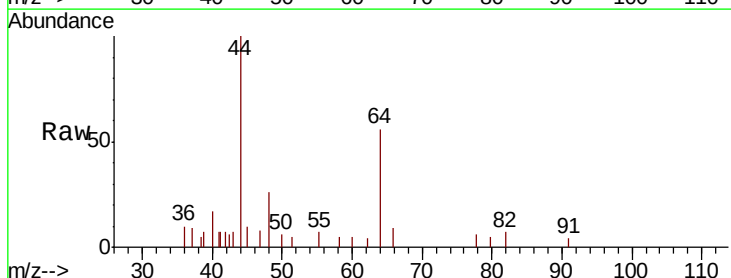
Acq: 06 Apr 2019 19:22

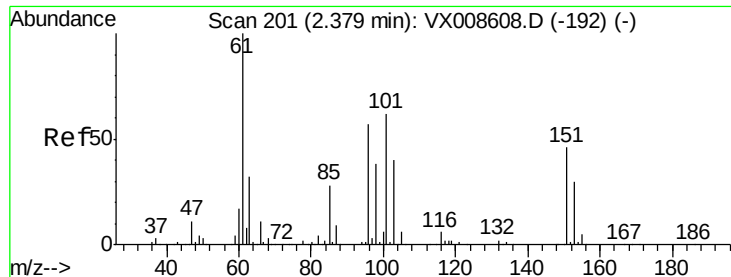
Tgt Ion: 64 Resp: 1680

Ion Ratio Lower Upper

64 100

66 19.4 25.4 38.0#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.502 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX008731.D

Acq: 06 Apr 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

KY074MW061-190404

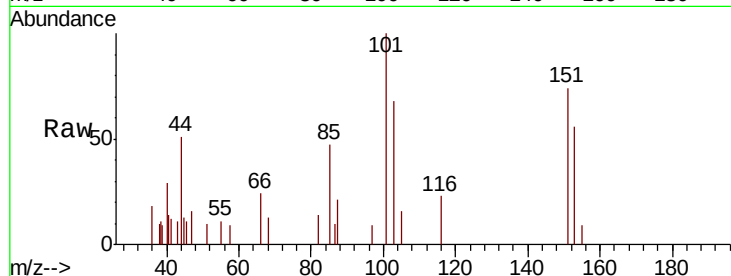
Tot Ion:101 Resp: 1152

Ion Ratio Lower Upper

101 100

85 45.6 36.0 54.0

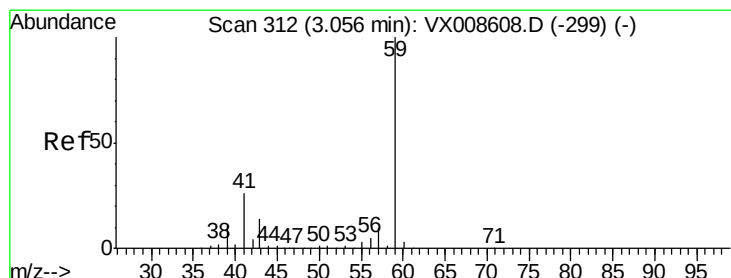
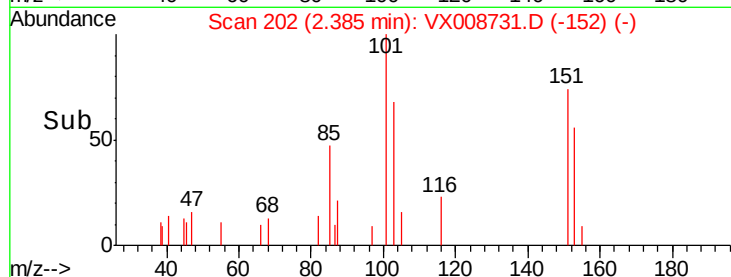
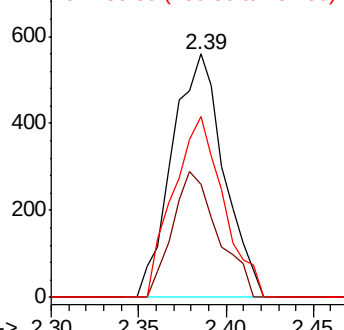
151 72.0 59.9 89.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.366 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.04 min

Lab File: VX008731.D

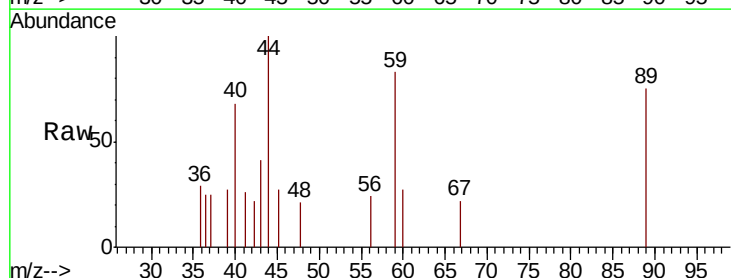
Acq: 06 Apr 2019 19:22

Tgt Ion: 59 Resp: 259

Ion Ratio Lower Upper

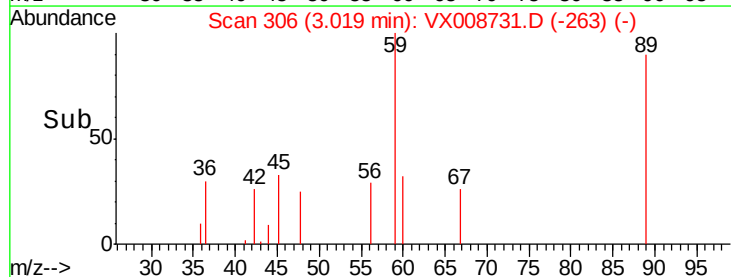
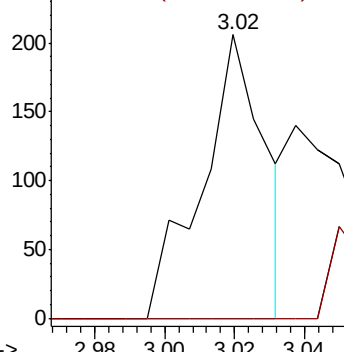
59 100

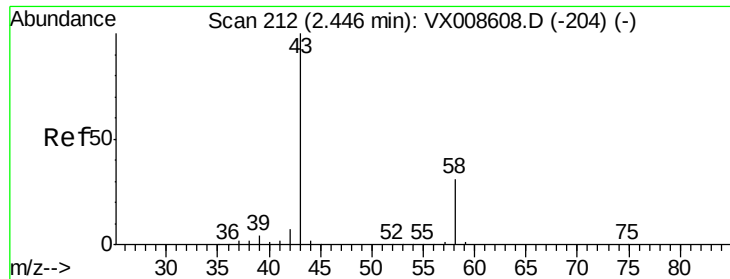
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 7.518 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008731.D

Acq: 06 Apr 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

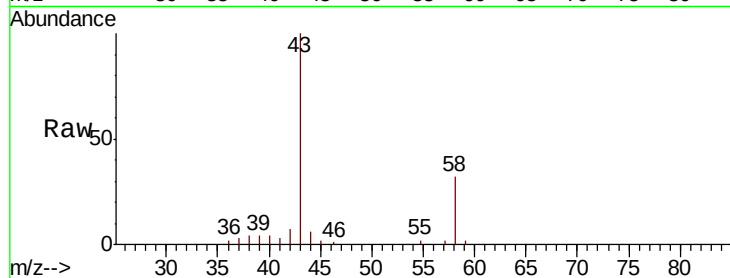
KY074MW061-190404

Tot Ion: 43 Resp: 13080

Ion Ratio Lower Upper

43 100

58 32.3 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

8000

6000

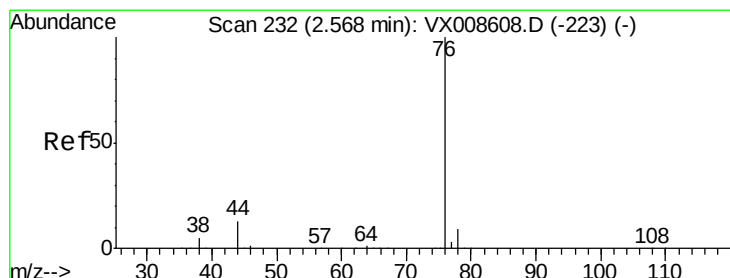
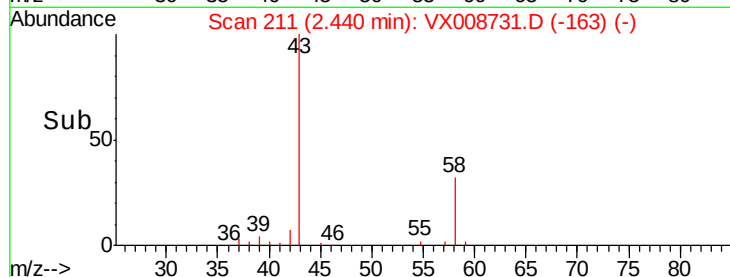
4000

2000

0

Time-->

2.35 2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX008731.D

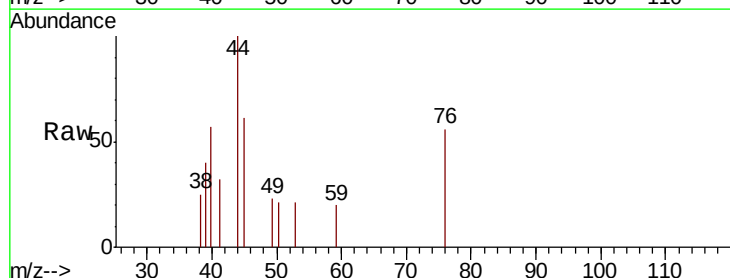
Acq: 06 Apr 2019 19:22

Tgt Ion: 76 Resp: 341

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.58

150

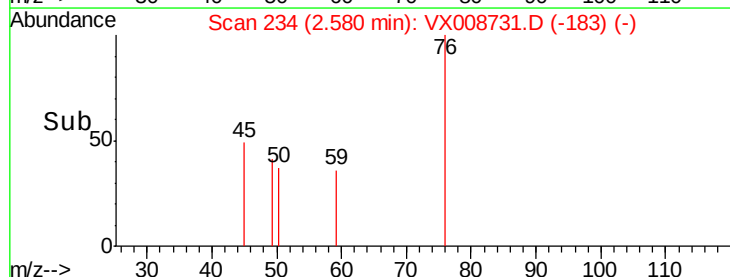
100

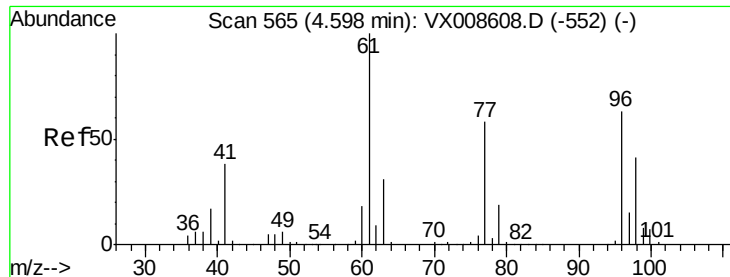
50

0

Time-->

2.50 2.55 2.60



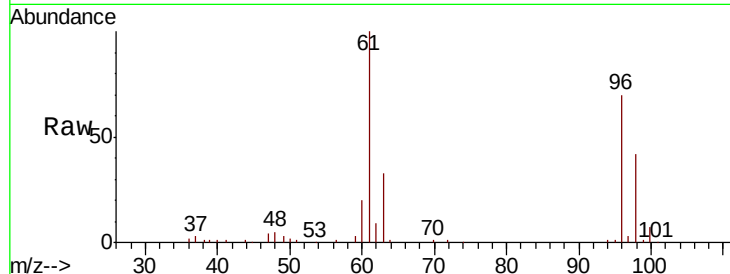


#27

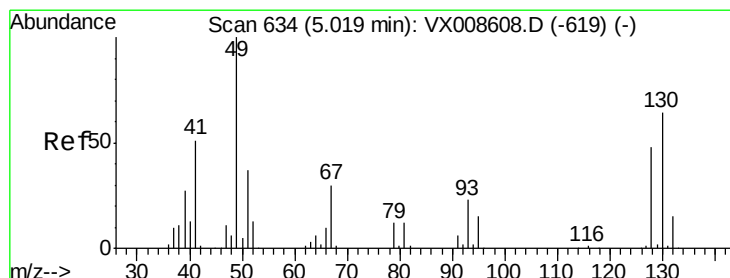
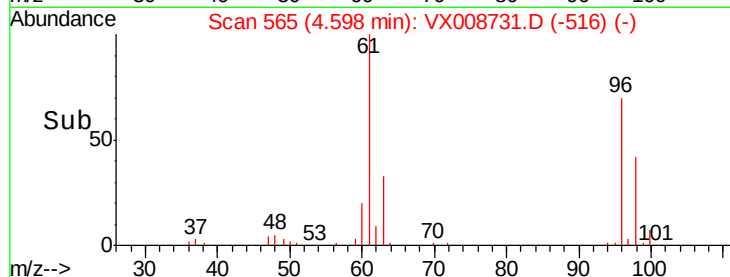
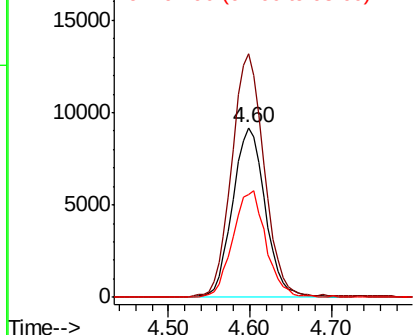
cis-1,2-Dichloroethene
 Concen: 8.545 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX008731.D
 Acq: 06 Apr 2019 19:22

Instrument :
 MSVOA_X
 ClientSampleId :
 KY074MW061-190404

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.0	0.0	327.6
98	63.4	0.0	128.6



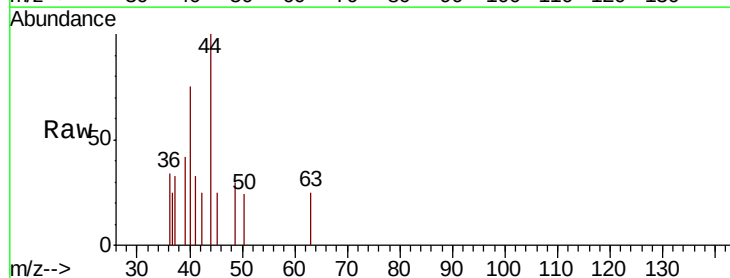
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



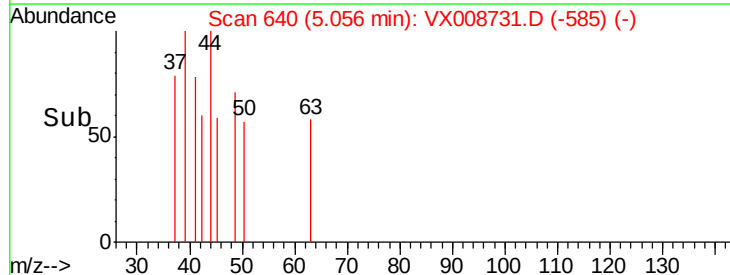
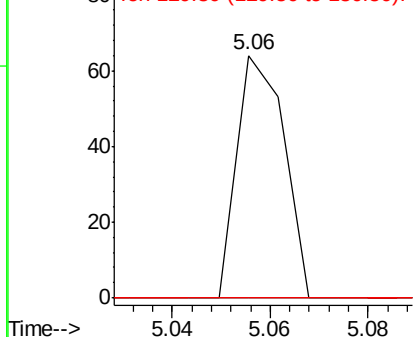
#28

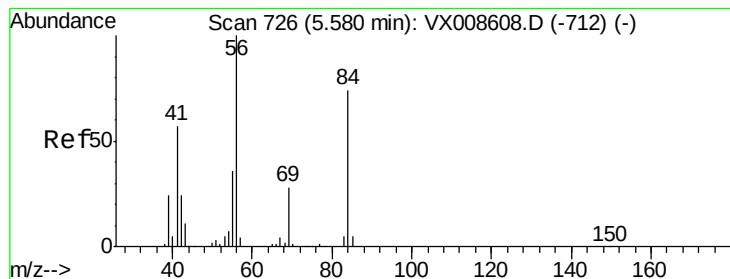
Bromochloromethane
 Concen: Below Cal
 RT: 5.06 min Scan# 640
 Delta R.T. 0.04 min
 Lab File: VX008731.D
 Acq: 06 Apr 2019 19:22

Tgt 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: 0.914 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008731.D

Acq: 06 Apr 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

KY074MW061-190404

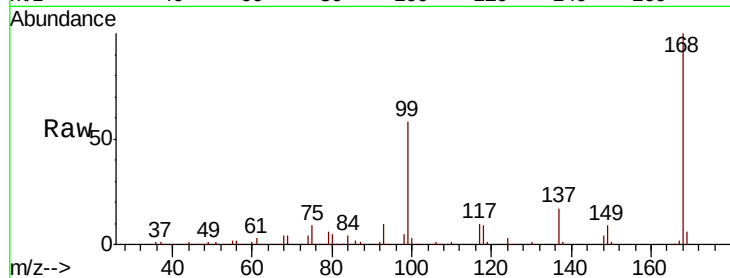
Tot Ion: 56 Resp: 4770

Ion Ratio Lower Upper

56 100

69 173.2 22.6 33.8#

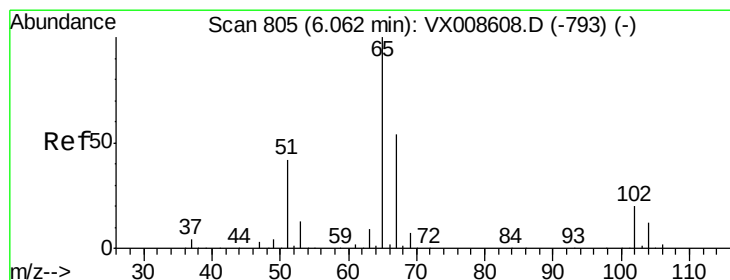
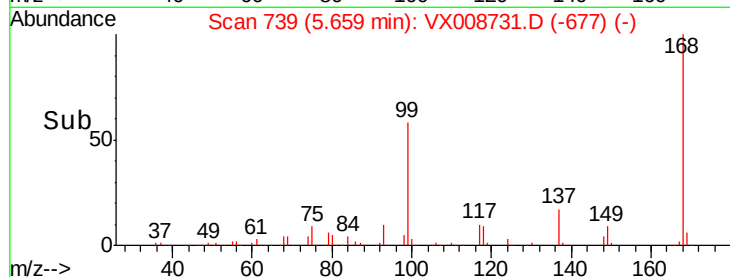
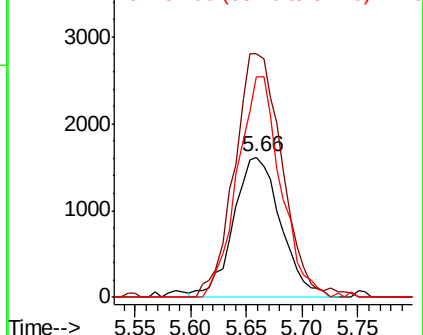
84 157.6 59.3 88.9#



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: 47.040 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008731.D

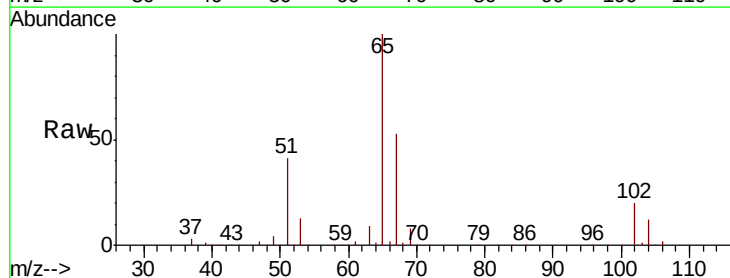
Acq: 06 Apr 2019 19:22

Tgt Ion: 65 Resp: 142102

Ion Ratio Lower Upper

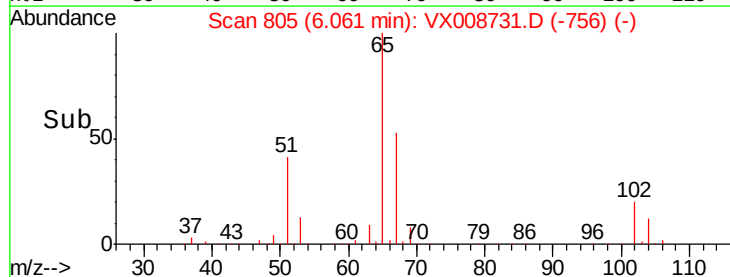
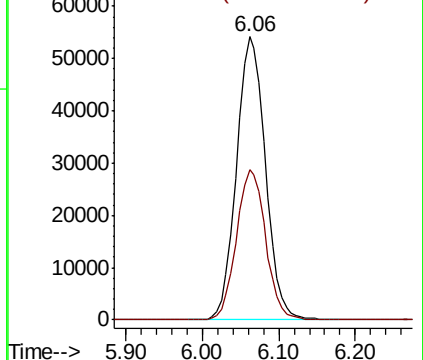
65 100

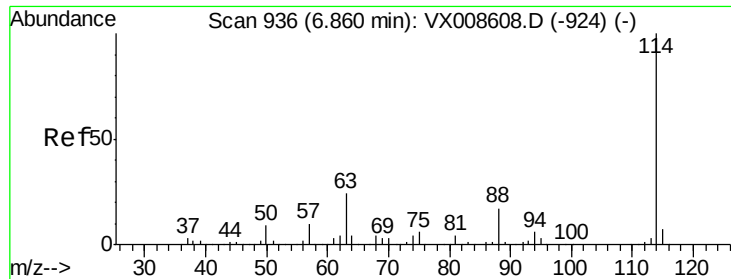
67 53.6 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

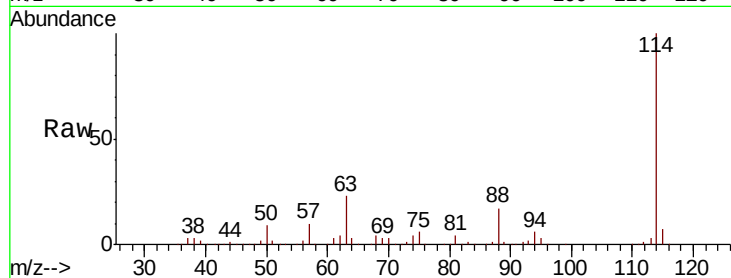




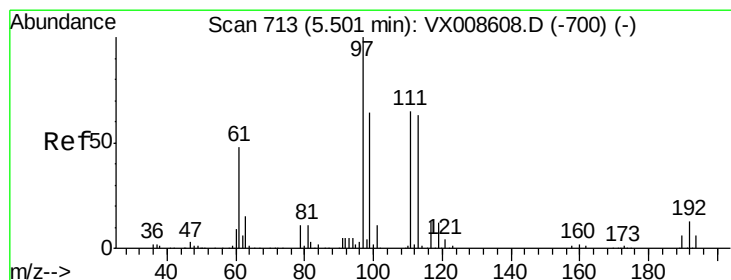
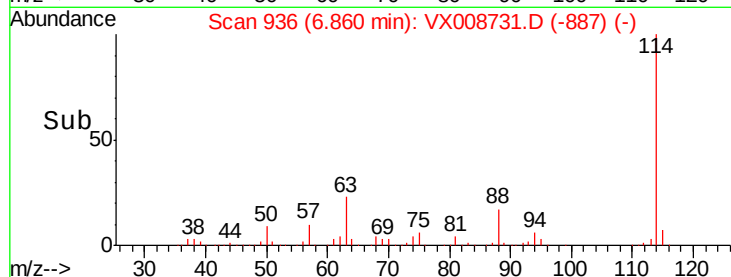
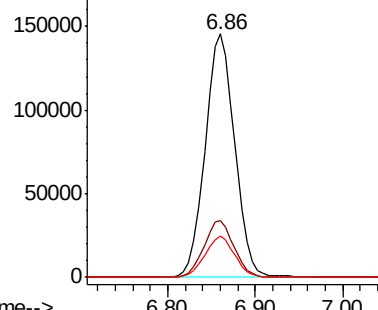
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX008731.D
Acq: 06 Apr 2019 19:22

Instrument :
MSVOA_X
ClientSampleId :
KY074MW061-190404

Tot Ion:114 Resp: 342146
Ion Ratio Lower Upper
114 100
63 23.4 0.0 47.2
88 17.1 0.0 34.0

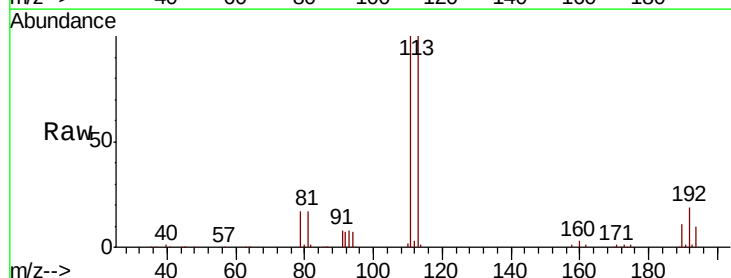


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

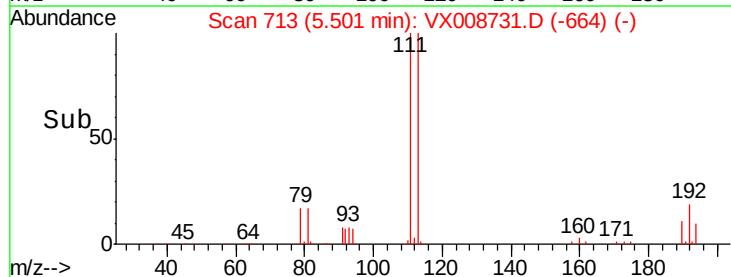
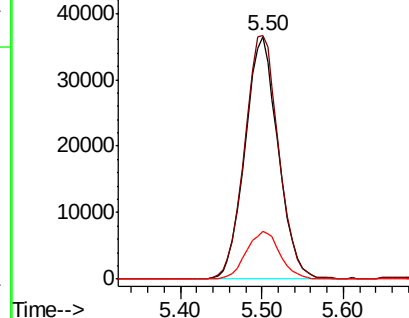


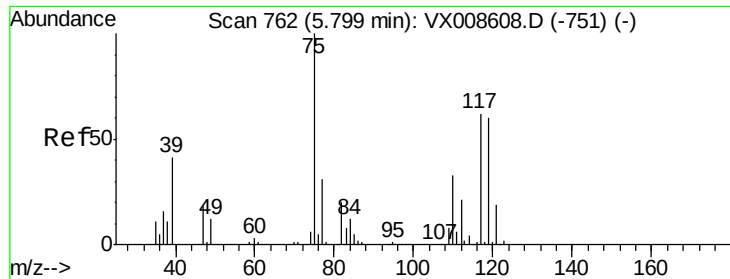
#35
Dibromofluoromethane
Concen: 46.953 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX008731.D
Acq: 06 Apr 2019 19:22

Tgt Ion:113 Resp: 102712
Ion Ratio Lower Upper
113 100
111 103.4 83.4 125.2
192 20.1 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

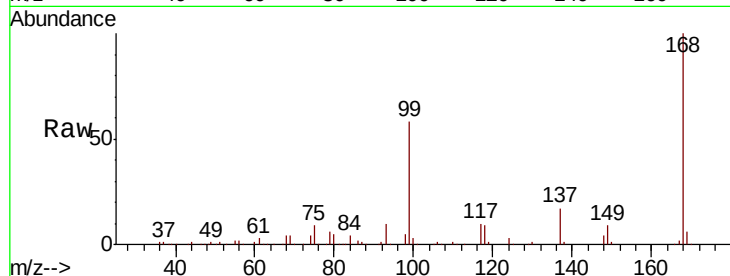




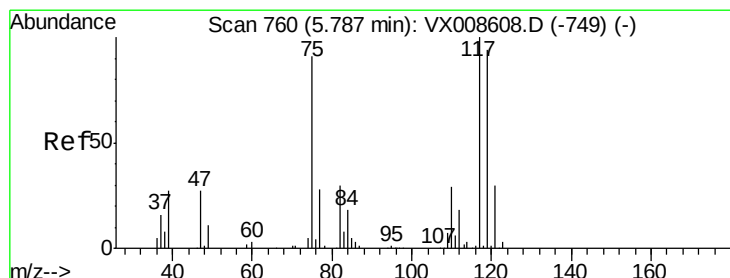
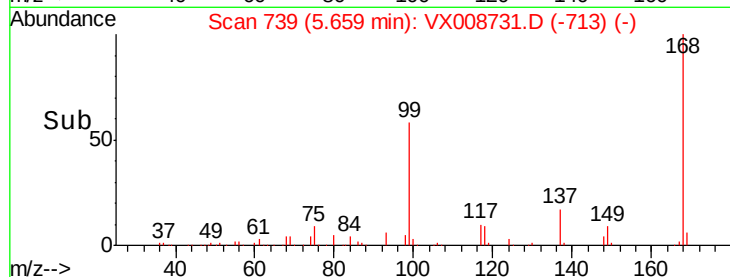
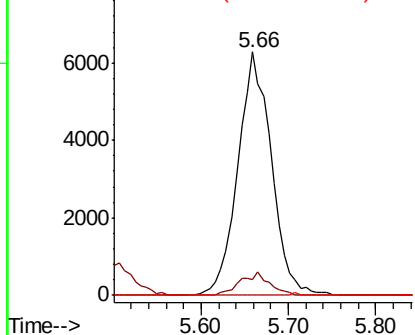
#36
 1,1-Dichloropropene
 Concen: 4.479 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008731.D
 Acq: 06 Apr 2019 19:22

Instrument :
 MSVOA_X
 ClientSampleId :
 KY074MW061-190404

Tot Ion	75	Resp	16753
Ion Ratio	100		
Lower		16.4	
Upper		49.2#	
77	0.0	24.7	37.1#

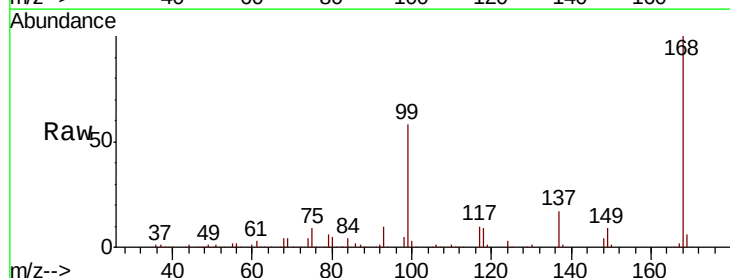


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

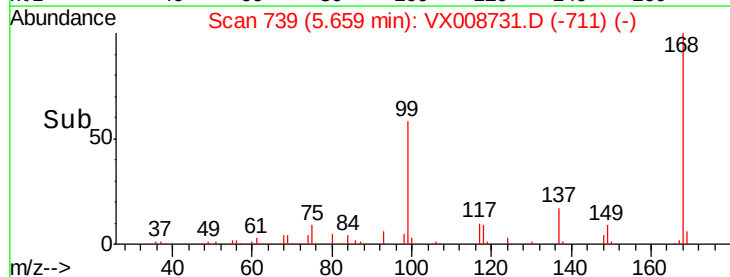
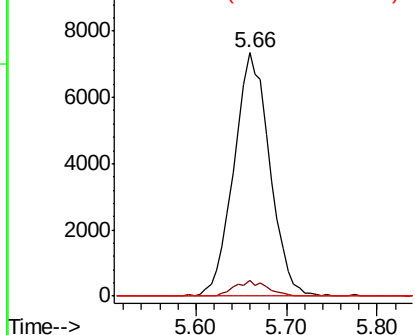


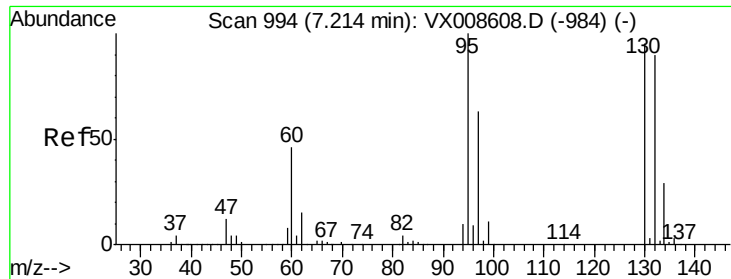
#38
 Carbon Tetrachloride
 Concen: 6.490 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008731.D
 Acq: 06 Apr 2019 19:22

Tgt Ion	117	Resp	20091
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower		75.0	
Upper		112.6#	
119	6.7	24.3	36.5#



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





#44

Trichloroethene

Concen: 0.749 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008731.D

Acq: 06 Apr 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

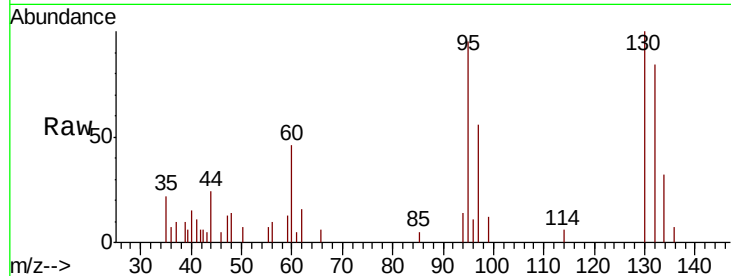
KY074MW061-190404

Tot Ion:130 Resp: 1944

Ion Ratio Lower Upper

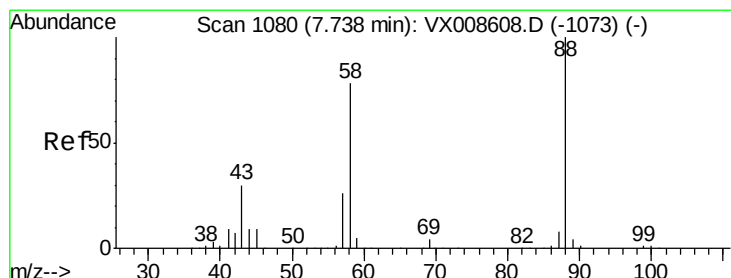
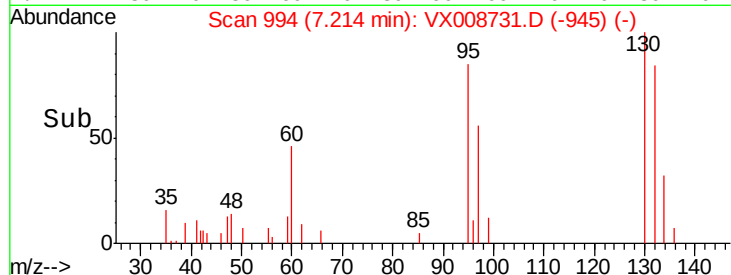
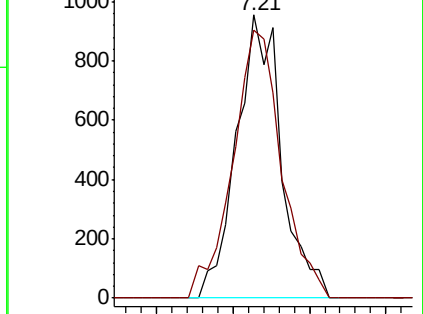
130 100

95 94.8 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.270 ug/l

RT: 7.89 min Scan# 1105

Delta R.T. 0.15 min

Lab File: VX008731.D

Acq: 06 Apr 2019 19:22

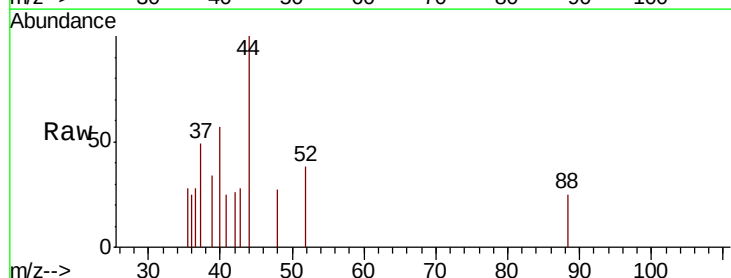
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 0.0 28.6 43.0#

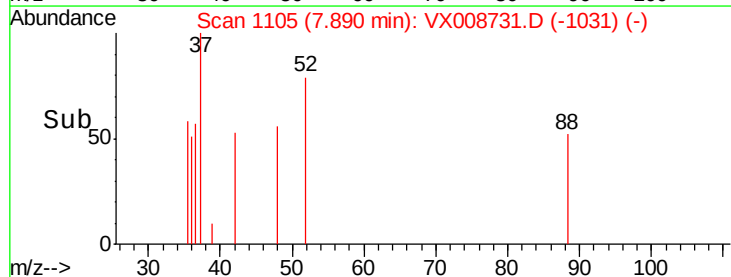
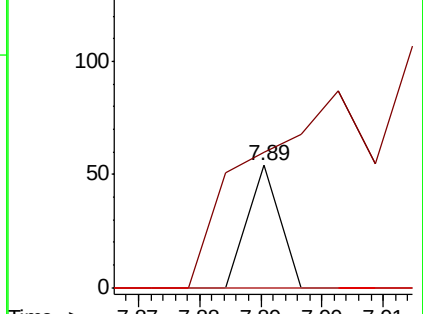
58 0.0 62.2 93.2#

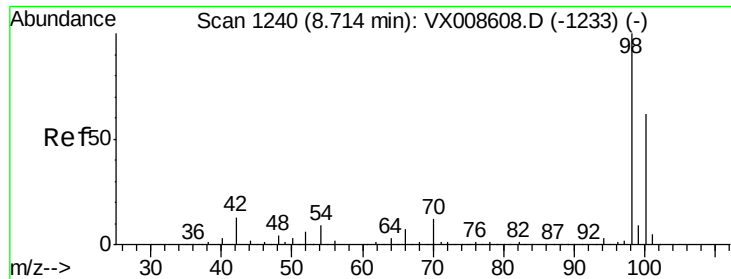


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

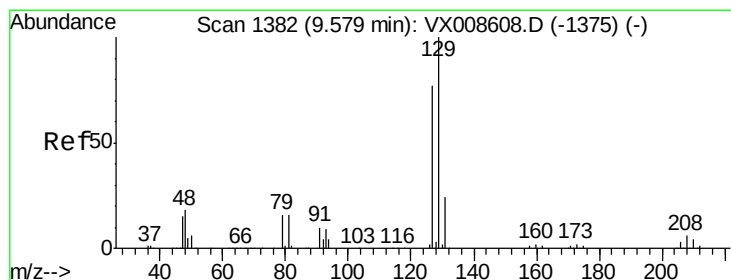
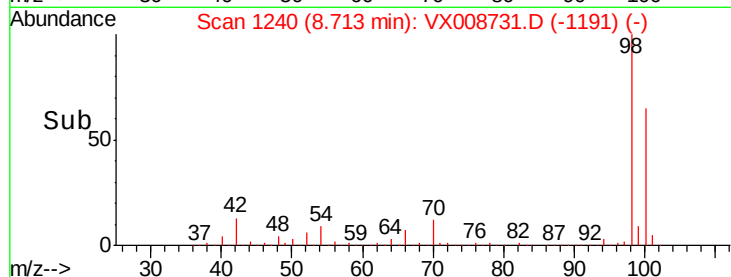
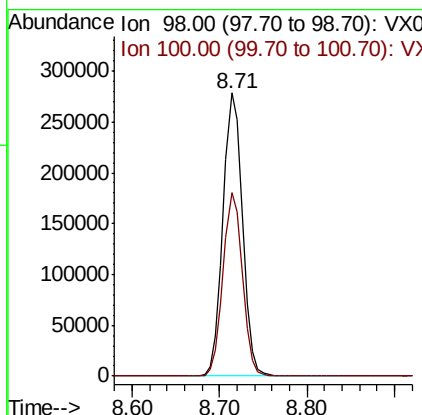
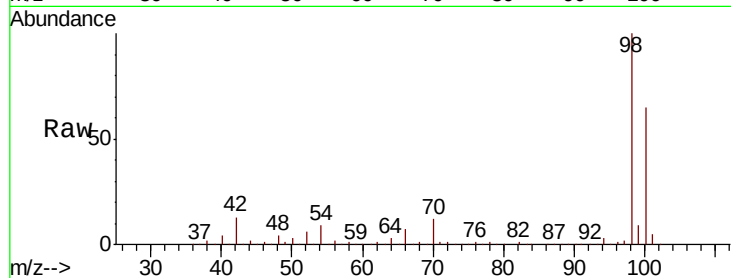




#50
Toluene-d8
Concen: 49.369 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008731.D
Acq: 06 Apr 2019 19:22

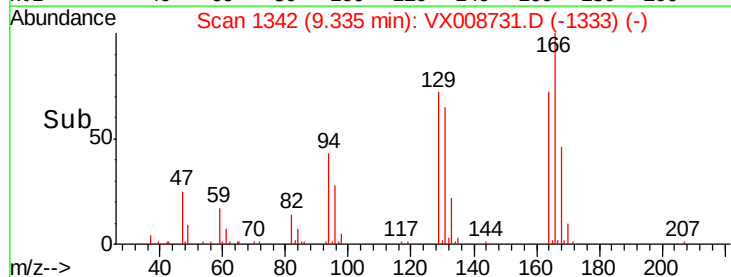
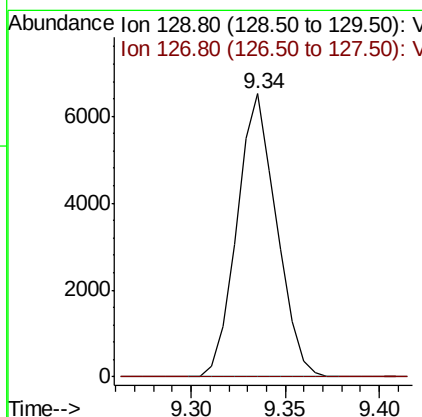
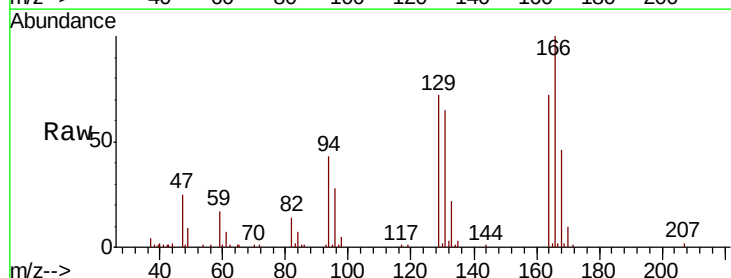
Instrument :
MSVOA_X
ClientSampleId :
KY074MW061-190404

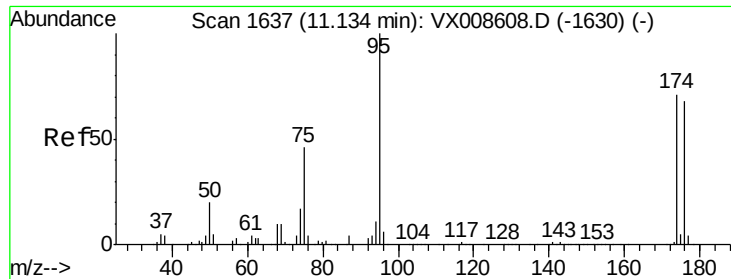
Tot Ion: 98 Resp: 430017
Ion Ratio Lower Upper
98 100
100 64.2 51.4 77.0



#60
Dibromochloromethane
Concen: 3.813 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX008731.D
Acq: 06 Apr 2019 19:22

Tgt Ion: 129 Resp: 9475
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 46.004 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008731.D

Acq: 06 Apr 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

KY074MW061-190404

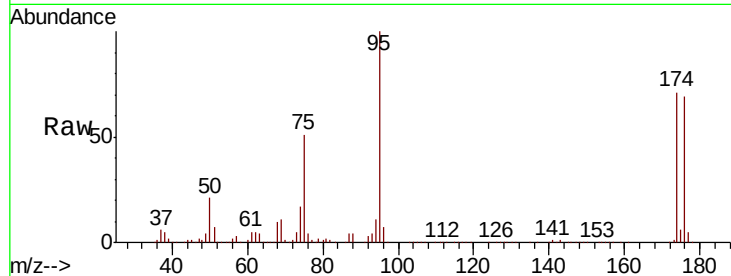
Tot Ion: 95 Resp: 142096

Ion Ratio Lower Upper

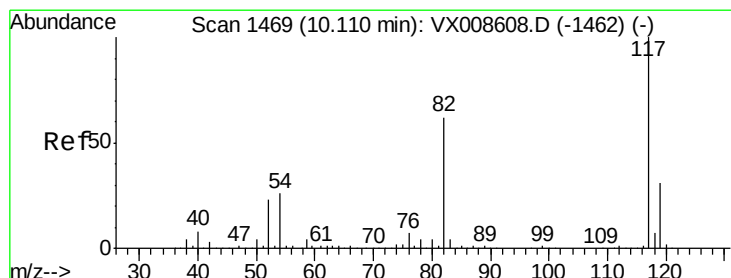
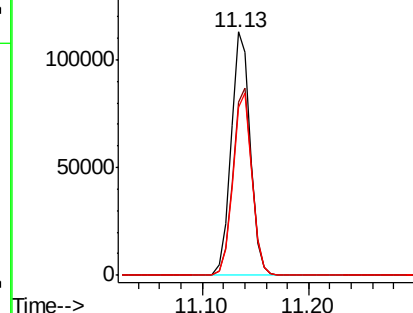
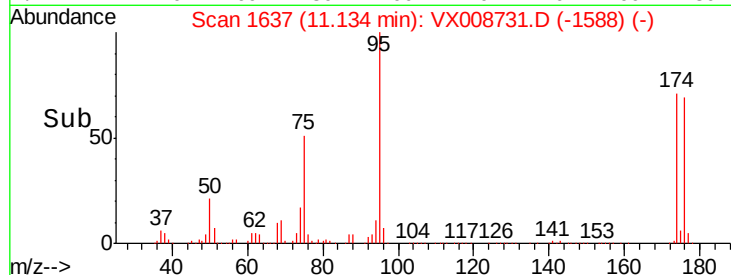
95 100

174 77.0 0.0 151.8

176 74.5 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008731.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008731.D

Acq: 06 Apr 2019 19:22

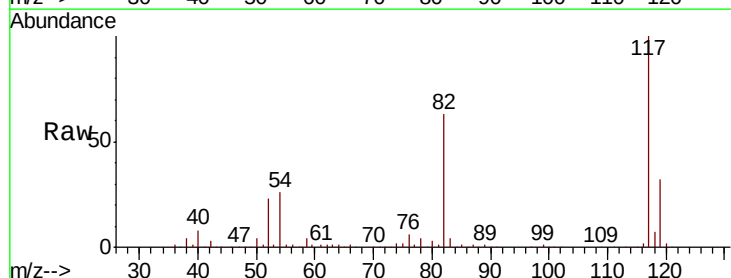
Tgt Ion: 117 Resp: 294975

Ion Ratio Lower Upper

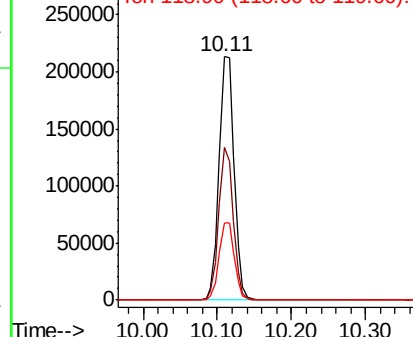
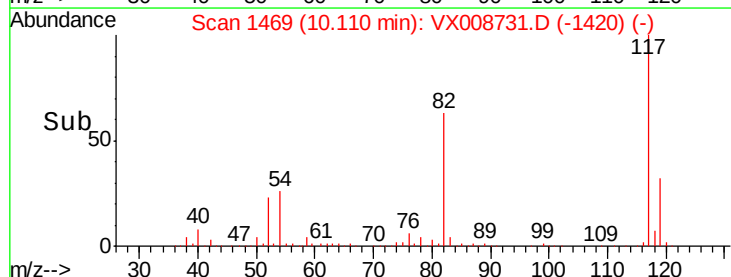
117 100

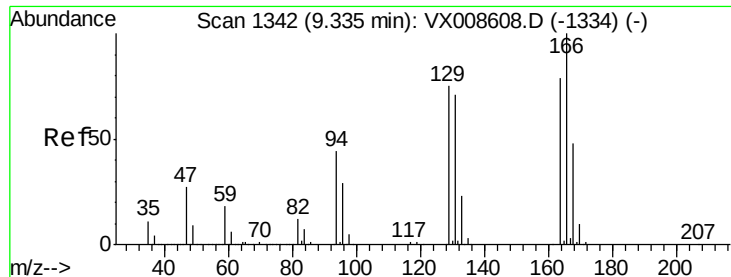
82 62.6 49.6 74.4

119 31.9 25.0 37.4



Abundance Ion 116.90 (116.60 to 117.60): VX008731.D (-1420) (-)

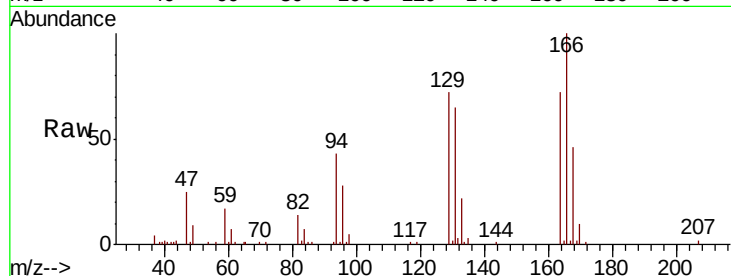




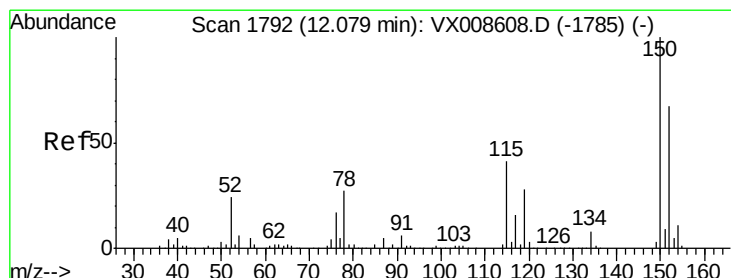
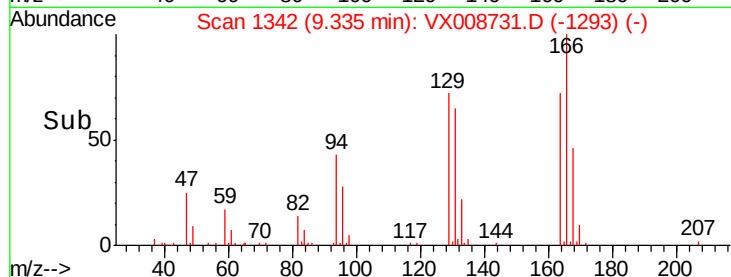
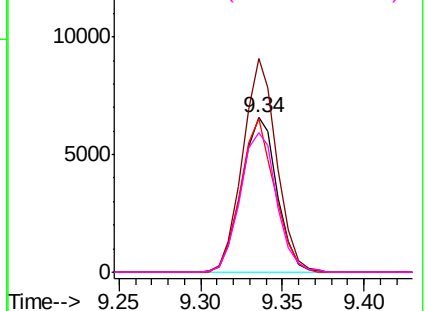
#64
Tetrachloroethene
Concen: 4.551 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008731.D
Acq: 06 Apr 2019 19:22

Instrument :
MSVOA_X
ClientSampleId :
KY074MW061-190404

Tot Ion:	164	Resp:	9946
Ion	Ratio	Lower	Upper
164	100		
166	138.1	101.0	151.6
129	99.2	75.8	113.8
131	89.9	71.8	107.8

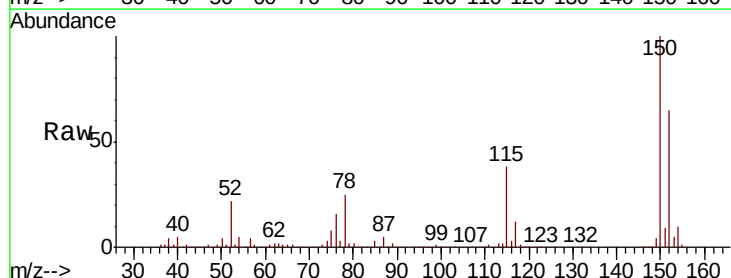


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

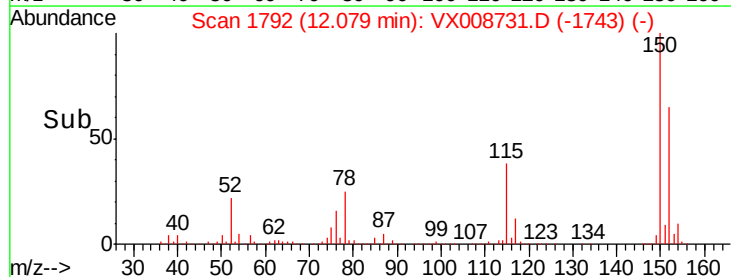
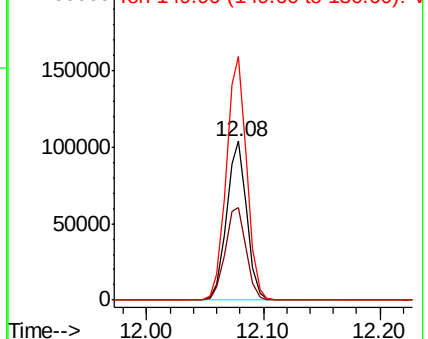


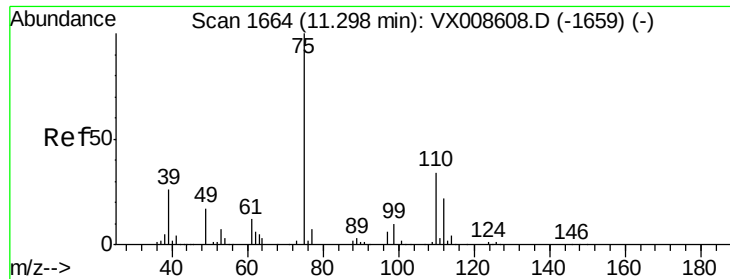
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008731.D
Acq: 06 Apr 2019 19:22

Tgt Ion:	152	Resp:	123578
Ion	Ratio	Lower	Upper
152	100		
115	60.6	43.5	130.5
150	155.4	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

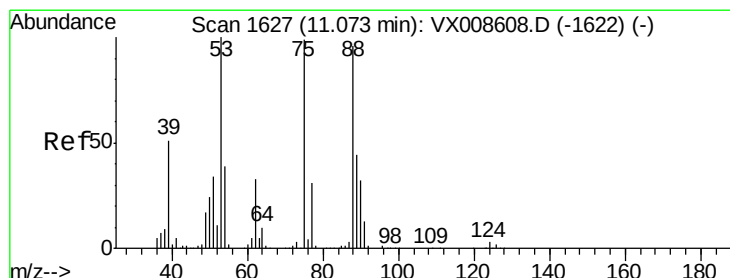
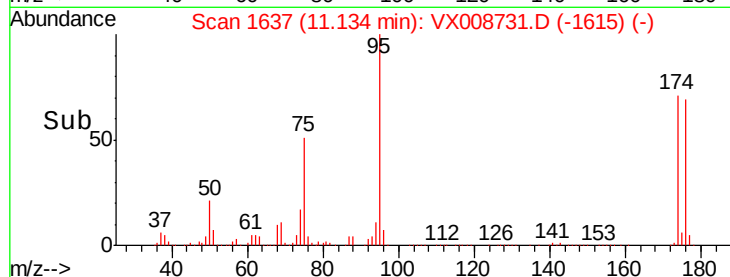
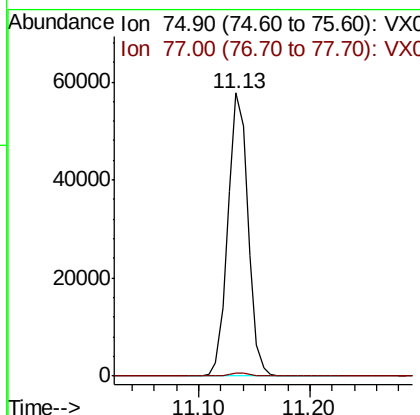
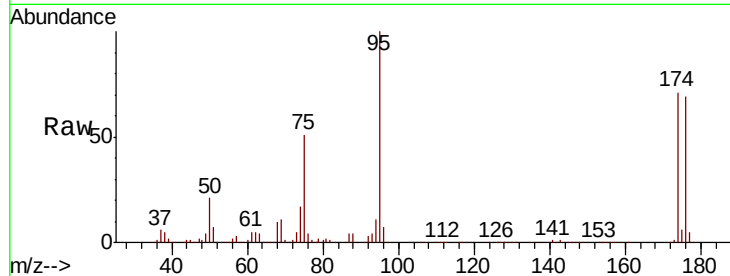




#76
 1,2,3-Trichloropropane
 Concen: 21.256 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008731.D
 Acq: 06 Apr 2019 19:22

Instrument :
 MSVOA_X
 ClientSampleId :
 KY074MW061-190404

Tot Ion: 75 Resp: 72160
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.3 66.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.593 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008731.D
 Acq: 06 Apr 2019 19:22

Tgt Ion: 75 Resp: 72160
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.3 121.9#
 89 0.0 35.6 53.4#

