

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040619\
 Data File : VX008722.D
 Acq On : 06 Apr 2019 15:51
 Operator : JC/SP
 Sample : K2295-01 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY036MW026-190403DL

Quant Time: Apr 08 01:54:50 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	5.66	168	196875	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	328922	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	279119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	117433	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	136263	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	
35) Dibromofluoromethane	5.50	113	98276	46.73	ug/l	0.00
Spiked Amount			Recovery	=	93.46%	
50) Toluene-d8	8.71	98	406973	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
62) 4-Bromofluorobenzene	11.13	95	134198	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	

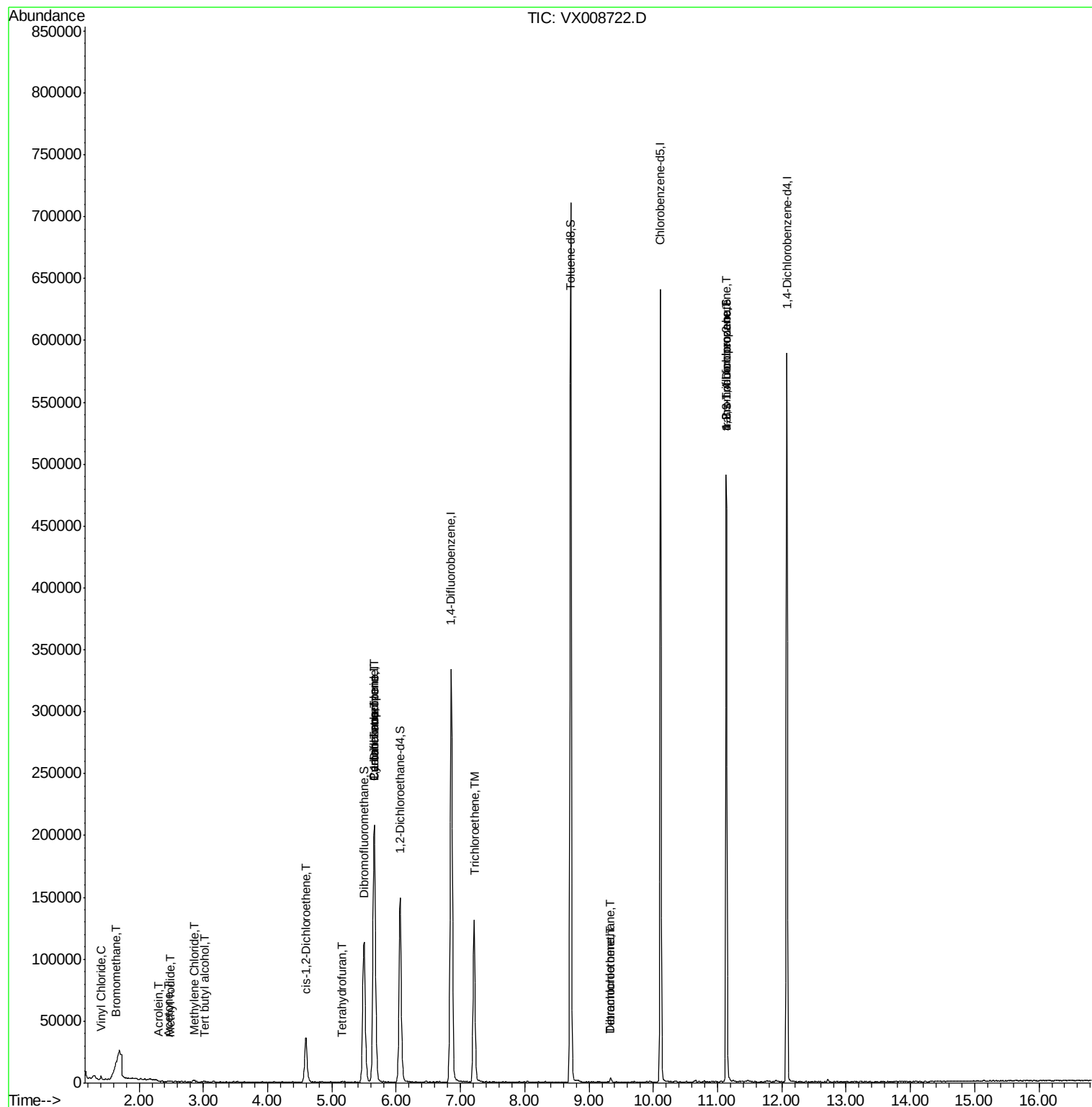
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	547	Below Cal	#	83
4) Vinyl Chloride	1.40	62	2075	0.677	ug/l	97
5) Bromomethane	1.64	94	724	2.347	ug/l #	38
6) Chloroethane	1.70	64	38	Below Cal	#	1
10) Methyl Iodide	2.49	142	228	4.109	ug/l #	42
11) Tert butyl alcohol	3.01	59	474	0.705	ug/l #	87
13) Acrolein	2.31	56	95	0.285	ug/l #	62
16) Acetone	2.46	43	806	0.487	ug/l	91
17) Carbon Disulfide	2.56	76	464	Below Cal	#	59
20) Methylene Chloride	2.85	84	657	0.237	ug/l #	89
27) cis-1,2-Dichloroethene	4.60	96	21849	7.719	ug/l	91
28) Bromochloromethane	5.02	49	19	Below Cal	#	22
29) Tetrahydrofuran	5.17	42	664	0.383	ug/l #	47
31) Cyclohexane	5.65	56	4371	0.881	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15931	4.431	ug/l #	51
38) Carbon Tetrachloride	5.66	117	19073	6.409	ug/l #	16
44) Trichloroethene	7.21	130	50815	20.369	ug/l	97
60) Dibromochloromethane	9.33	129	601	0.252	ug/l #	11
64) Tetrachloroethene	9.33	164	526	0.254	ug/l #	81
76) 1,2,3-Trichloropropane	11.13	75	67670	20.976	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	67670	57.823	ug/l #	9

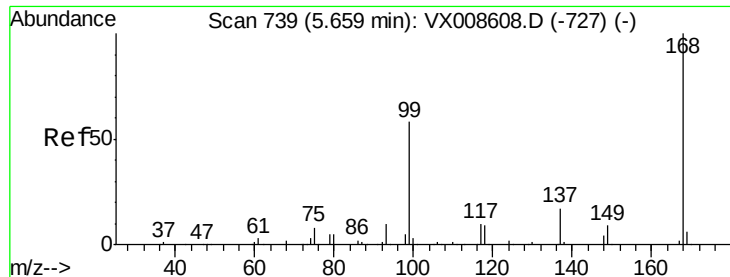
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

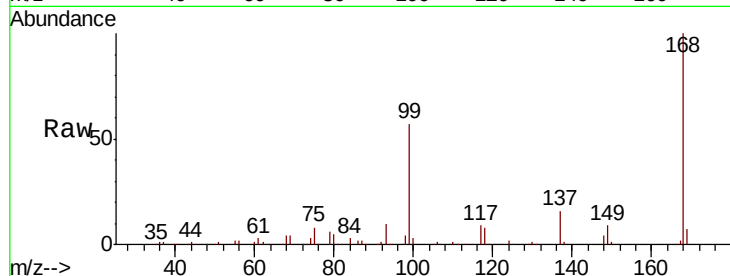
KY036MW026-190403DL

Tot Ion:168 Resp: 196875

Ion Ratio Lower Upper

168 100

99 57.2 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

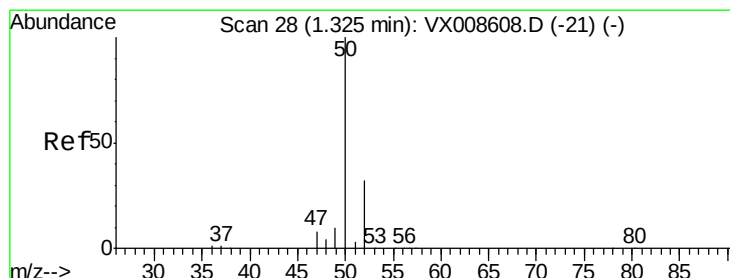
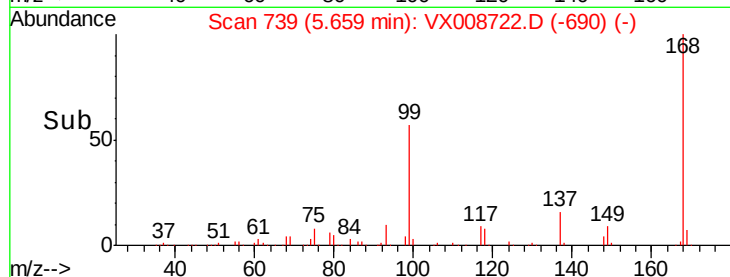
40000

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: VX008722.D

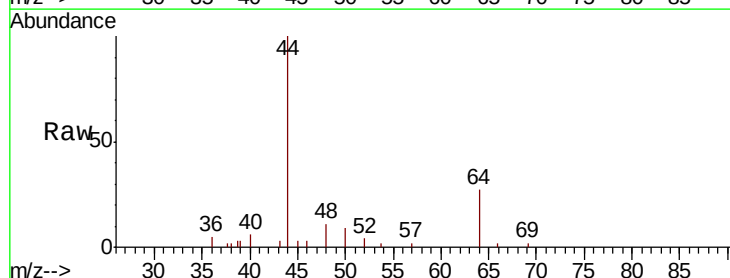
Acq: 06 Apr 2019 15:51

Tgt Ion: 50 Resp: 547

Ion Ratio Lower Upper

50 100

52 41.7 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

250

200

150

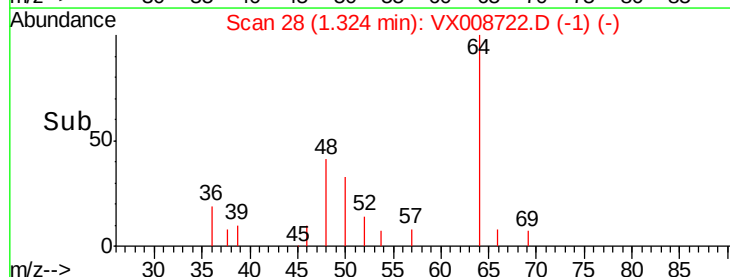
100

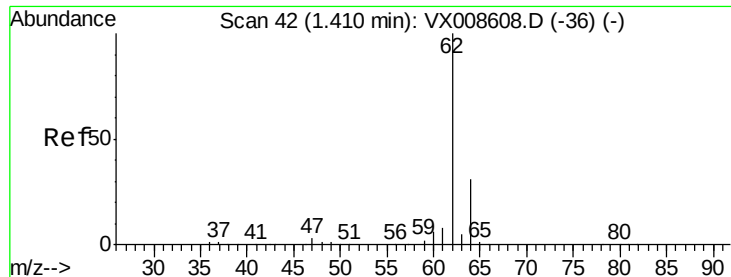
50

0

Time-->

1.25 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 0.677 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

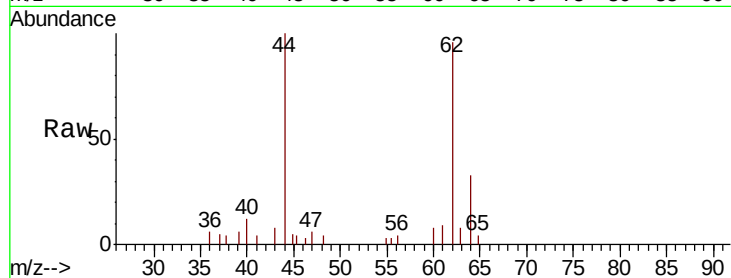
KY036MW026-190403DL

Tot Ion: 62 Resp: 2075

Ion Ratio Lower Upper

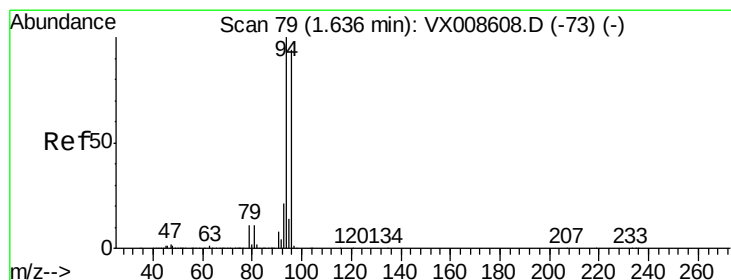
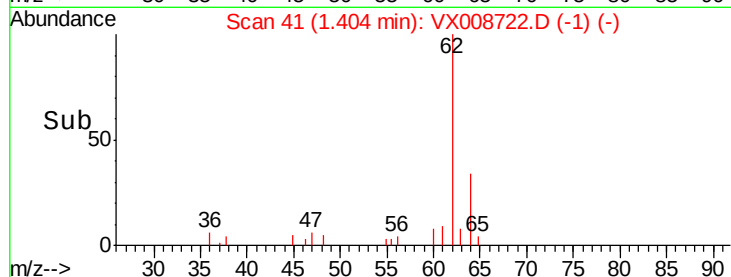
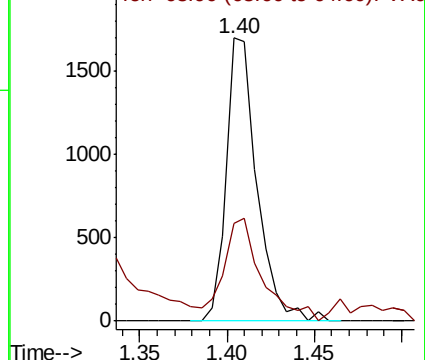
62 100

64 29.3 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 2.347 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008722.D

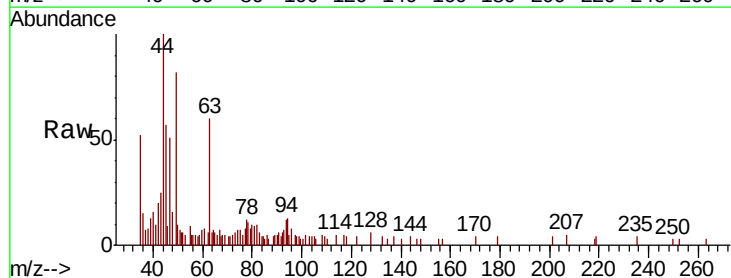
Acq: 06 Apr 2019 15:51

Tgt Ion: 94 Resp: 724

Ion Ratio Lower Upper

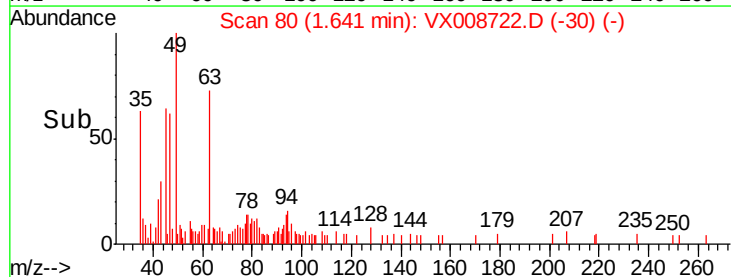
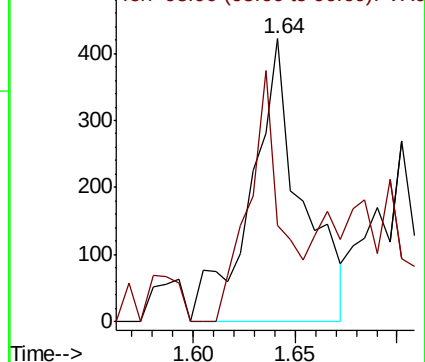
94 100

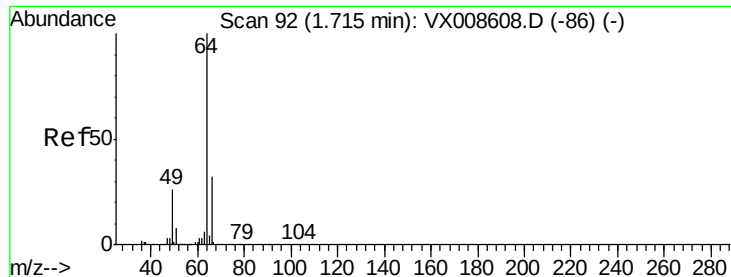
96 33.9 75.2 112.8#



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: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

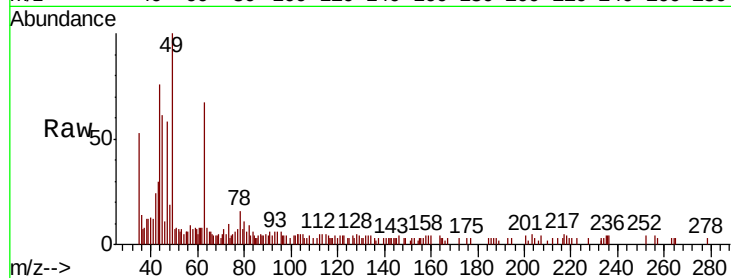
KY036MW026-190403DL

Tot Ion: 64 Resp: 38

Ion Ratio Lower Upper

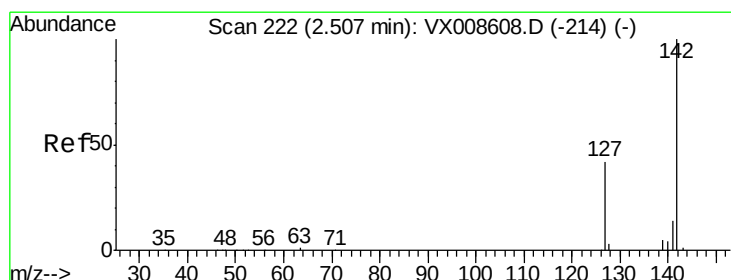
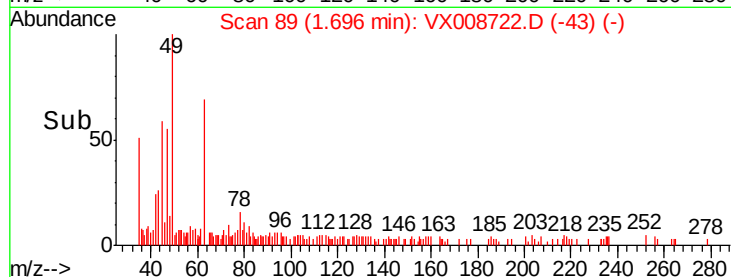
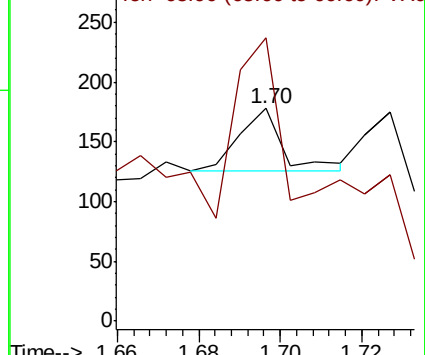
64 100

66 228.8 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: 4.109 ug/l

RT: 2.49 min Scan# 219

Delta R.T. -0.02 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

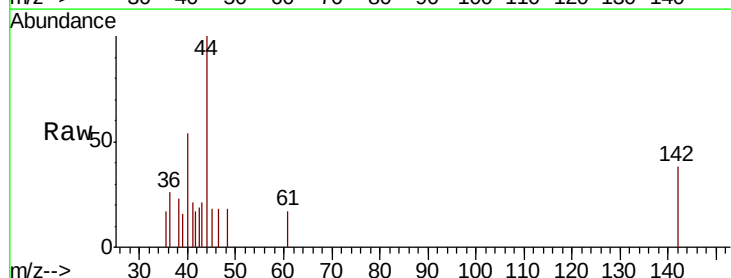
Tgt Ion: 142 Resp: 228

Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

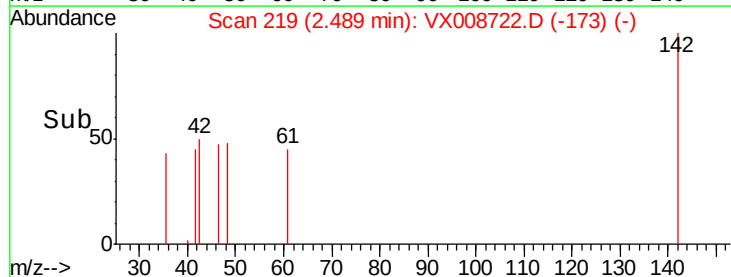
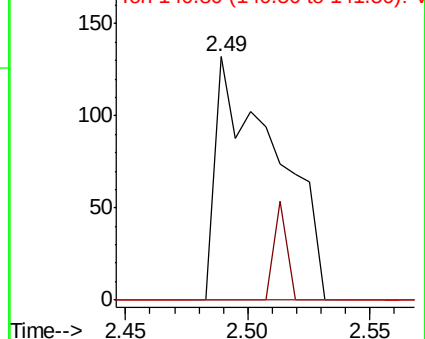
141 0.0 11.4 17.2#

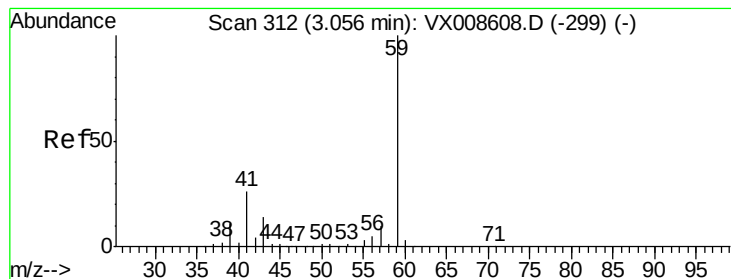


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



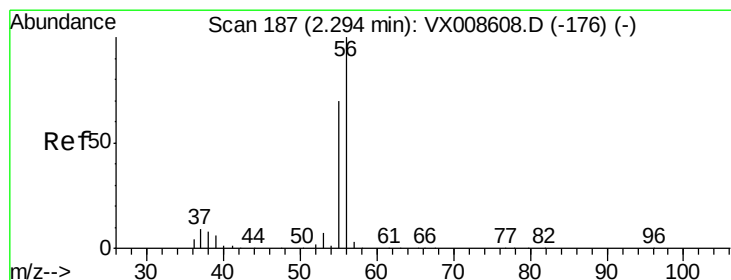
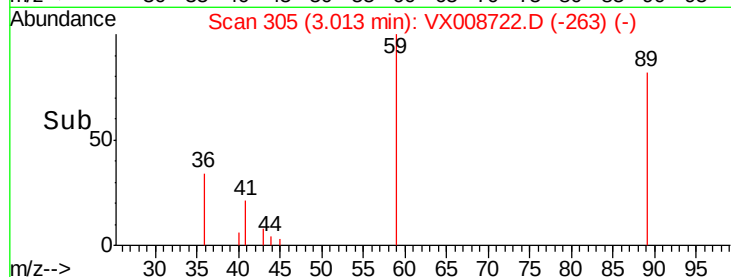
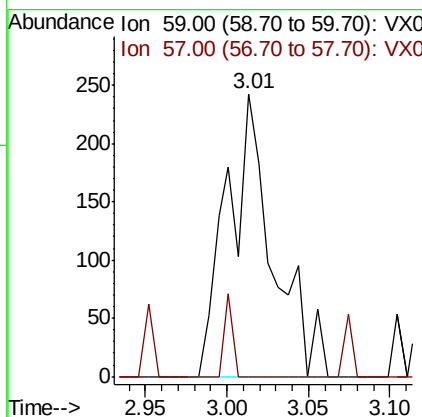
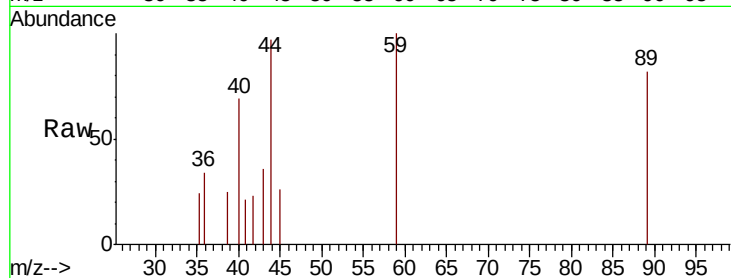


#11

Tert butyl alcohol
 Concen: 0.705 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.04 min
 Lab File: VX008722.D
 Acq: 06 Apr 2019 15:51

Instrument :
 MSVOA_X
 ClientSampleId :
 KY036MW026-190403DL

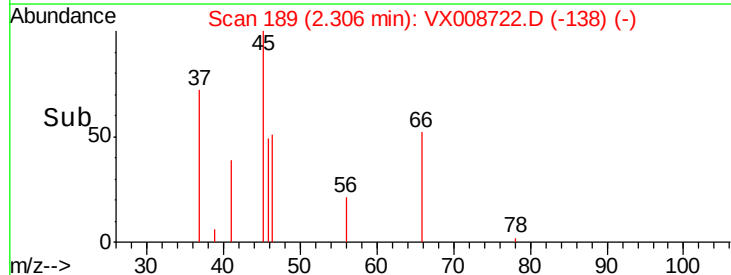
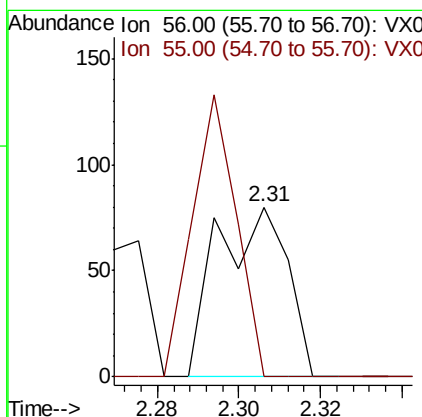
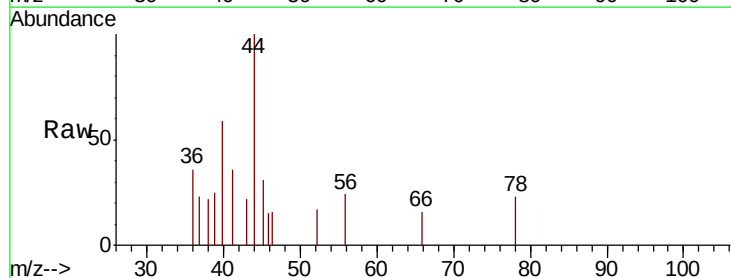
Tot Ion: 59 Resp: 474
 Ion Ratio Lower Upper
 59 100
 57 5.5 8.3 12.5#

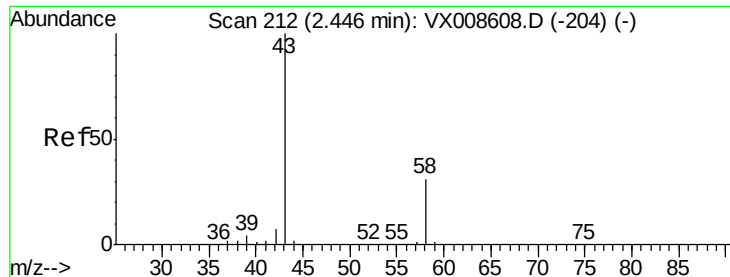


#13

Acrolein
 Concen: 0.285 ug/l
 RT: 2.31 min Scan# 189
 Delta R.T. 0.01 min
 Lab File: VX008722.D
 Acq: 06 Apr 2019 15:51

Tgt Ion: 56 Resp: 95
 Ion Ratio Lower Upper
 56 100
 55 104.2 58.0 87.0#





#16

Acetone

Concen: 0.487 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

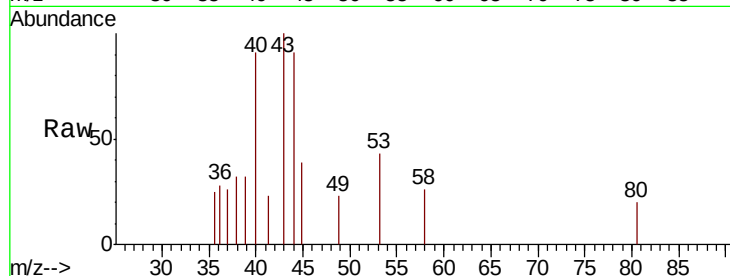
KY036MW026-190403DL

Tot Ion: 43 Resp: 806

Ion Ratio Lower Upper

43 100

58 25.8 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.46

250

200

150

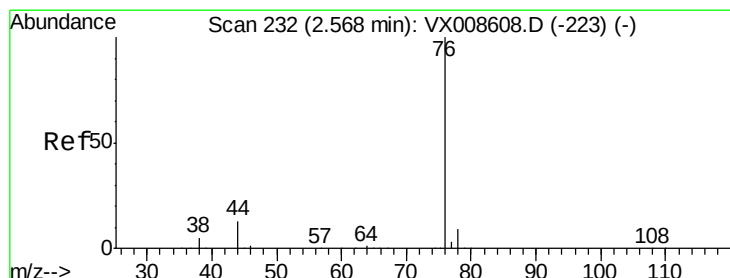
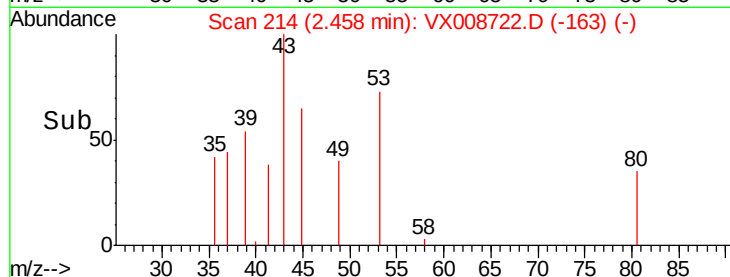
100

50

0

Time-->

2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.56 min Scan# 230

Delta R.T. -0.01 min

Lab File: VX008722.D

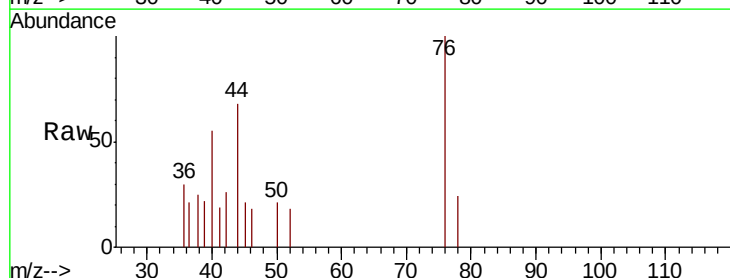
Acq: 06 Apr 2019 15:51

Tgt Ion: 76 Resp: 464

Ion Ratio Lower Upper

76 100

78 23.5 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

300

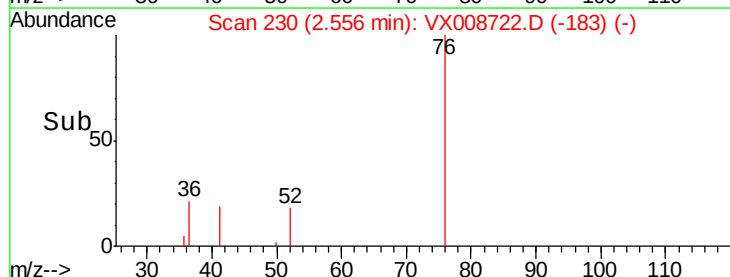
200

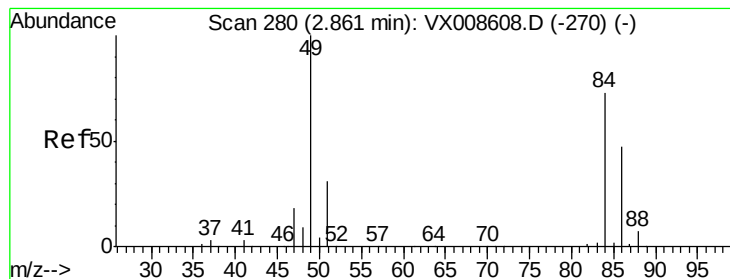
100

0

Time-->

2.50 2.55 2.60





#20

Methvlene Chloride

Concen: 0.237 ug/l

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

KY036MW026-190403DL

Tot Ion: 84 Resp: 657

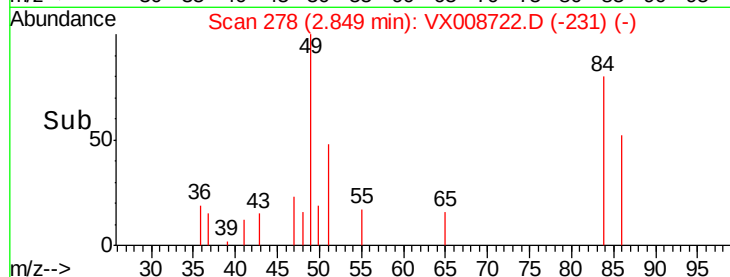
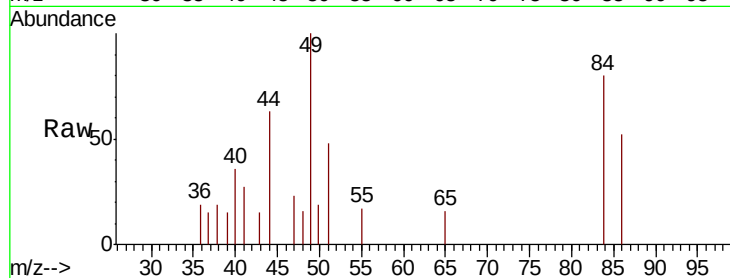
Ion Ratio Lower Upper

84 100

49 124.9 109.7 164.5

51 59.5 33.6 50.4#

86 64.5 51.4 77.2

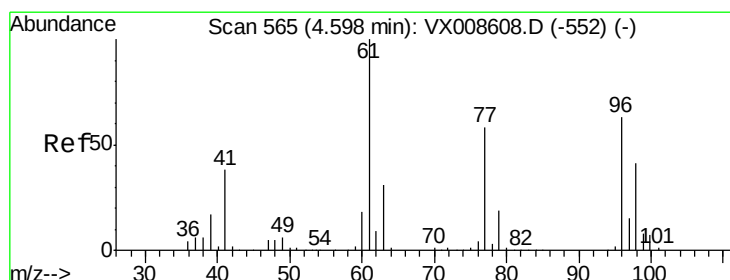
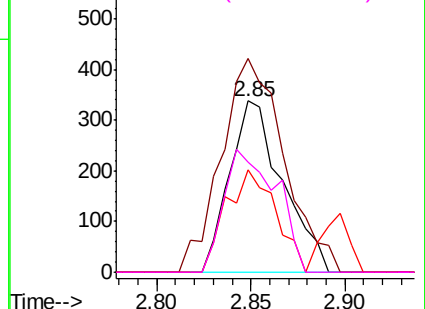


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 7.719 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

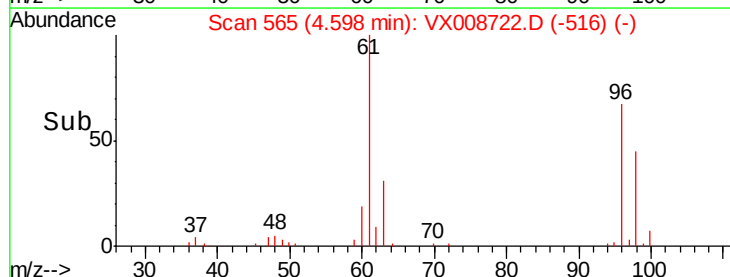
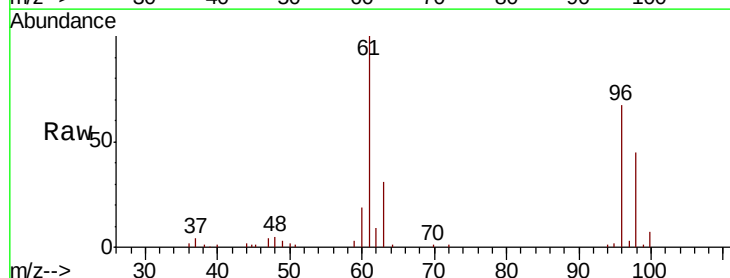
Tgt Ion: 96 Resp: 21849

Ion Ratio Lower Upper

96 100

61 147.8 0.0 327.6

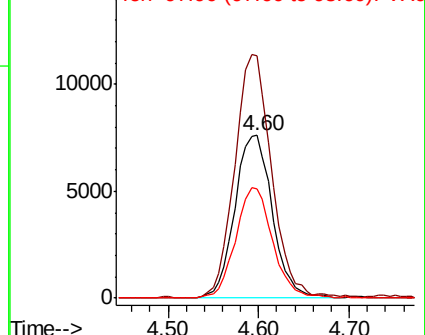
98 66.5 0.0 128.6

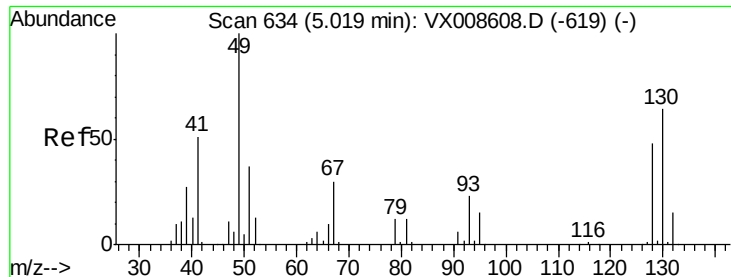


Abundance Ion 95.90 (95.60 to 96.60): VX0

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: VX008722.D

Acq: 06 Apr 2019 15:51

Instrument :

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ClientSampleId :

KY036MW026-190403DL

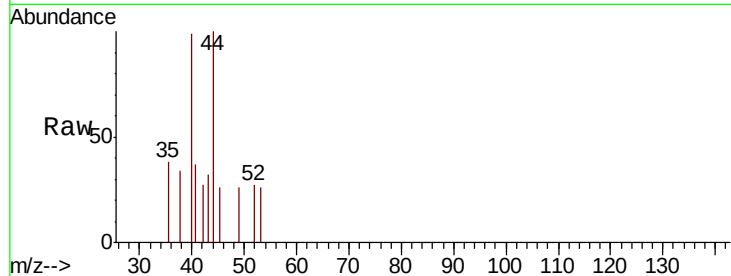
Tot Ion: 49 Resp: 19

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

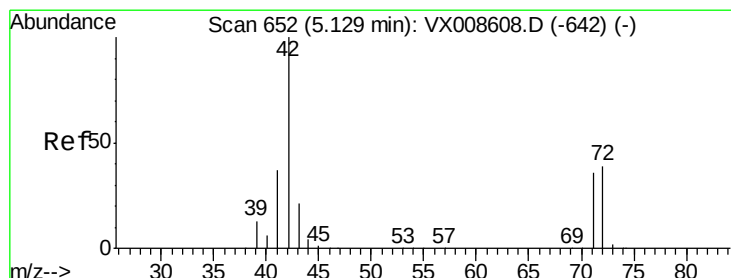
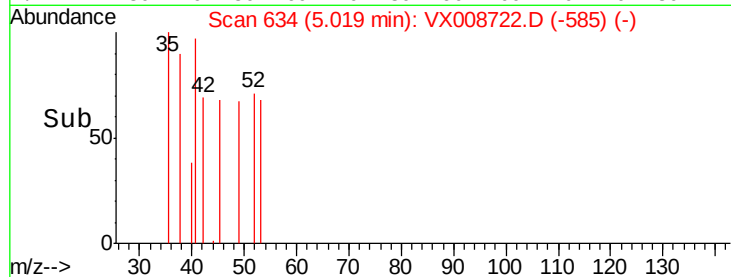
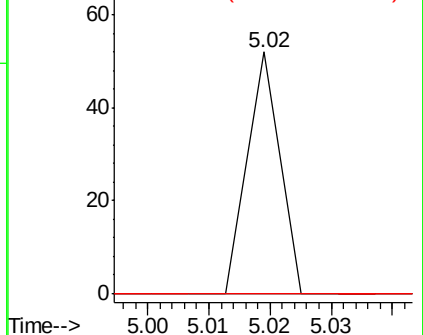
130 0.0 49.3 73.9#



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



#29

Tetrahydrofuran

Concen: 0.383 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.04 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

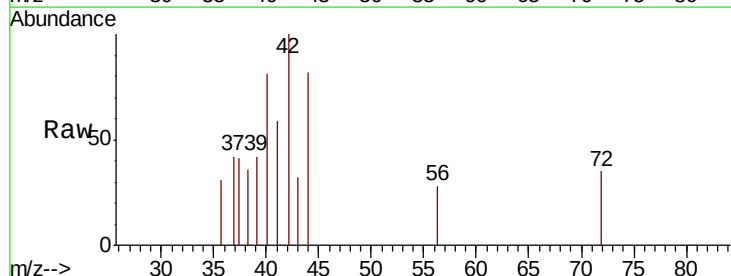
Tgt Ion: 42 Resp: 664

Ion Ratio Lower Upper

42 100

72 10.7 30.5 45.7#

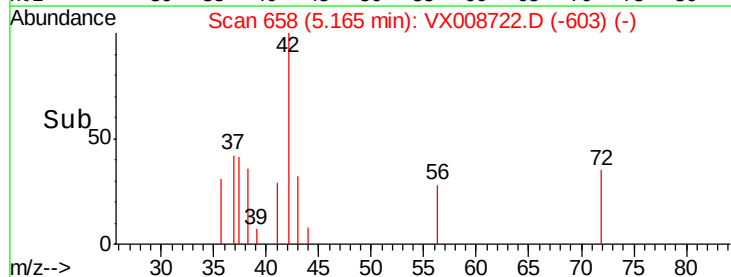
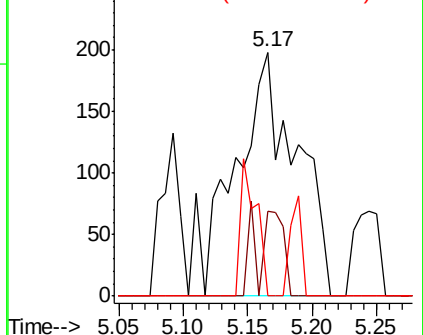
71 0.0 28.6 43.0#

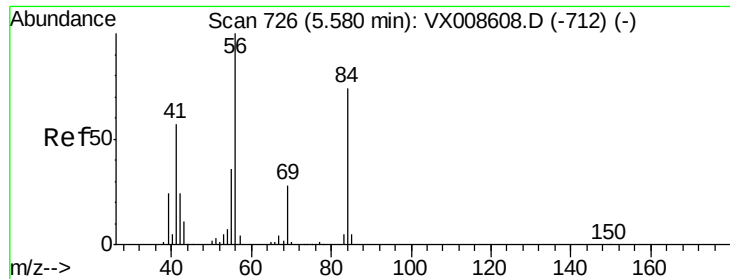


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

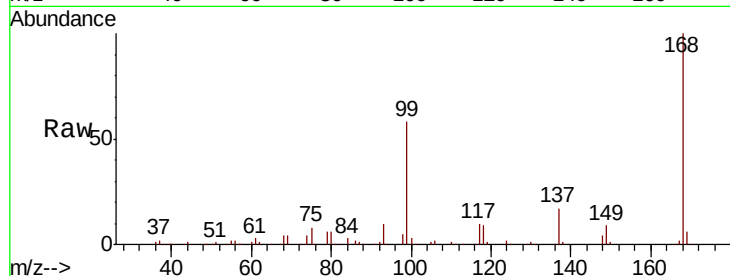




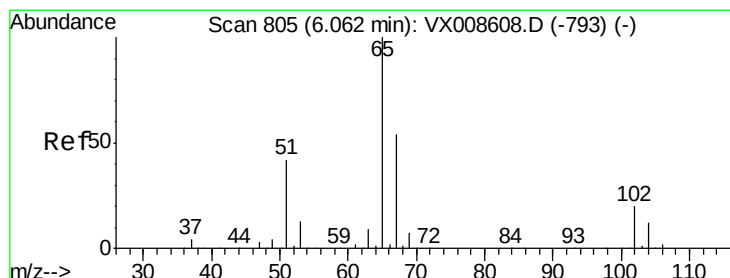
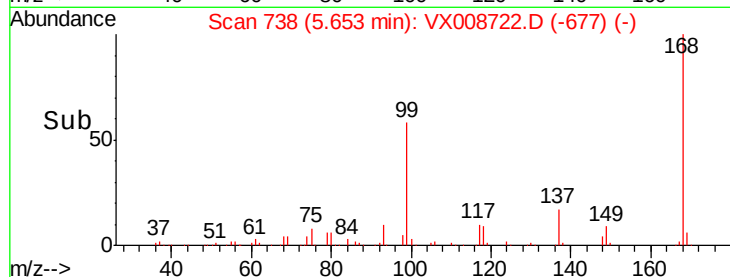
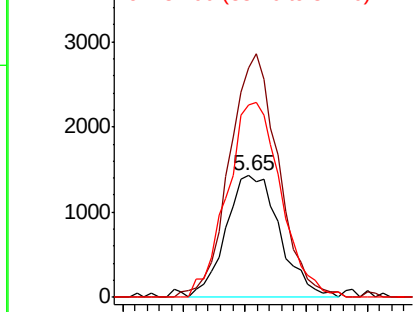
#31
Cyclohexane
Concen: 0.881 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX008722.D
Acq: 06 Apr 2019 15:51

Instrument :
MSVOA_X
ClientSampleId :
KY036MW026-190403DL

Tot Ion: 56 Resp: 4371
Ion Ratio Lower Upper
56 100
69 184.1 22.6 33.8#
84 158.2 59.3 88.9#

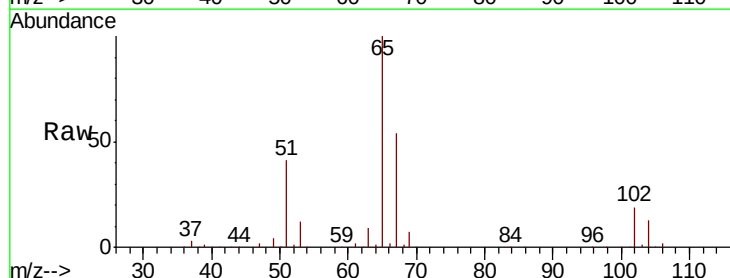


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

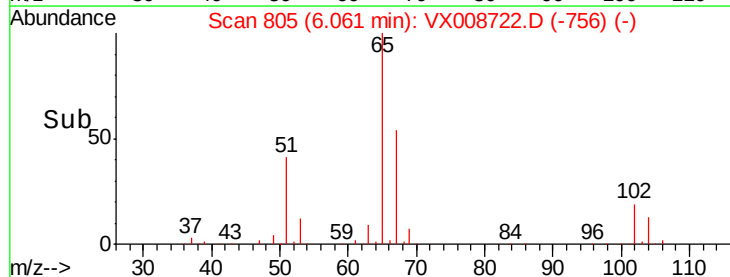
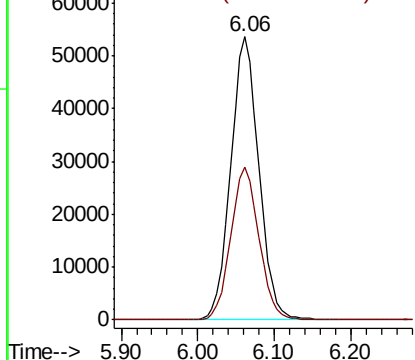


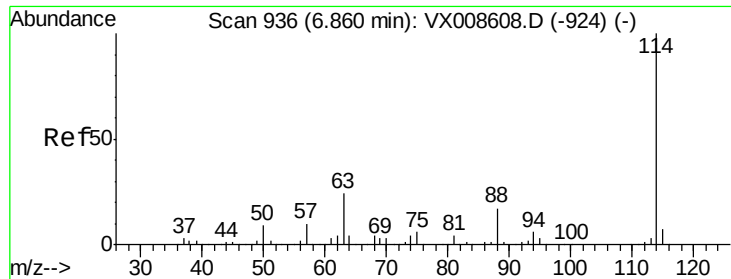
#33
1,2-Dichloroethane-d4
Concen: 47.453 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008722.D
Acq: 06 Apr 2019 15:51

Tgt Ion: 65 Resp: 136263
Ion Ratio Lower Upper
65 100
67 54.3 0.0 107.2



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

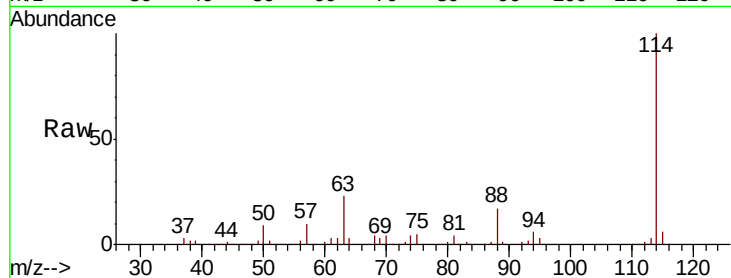




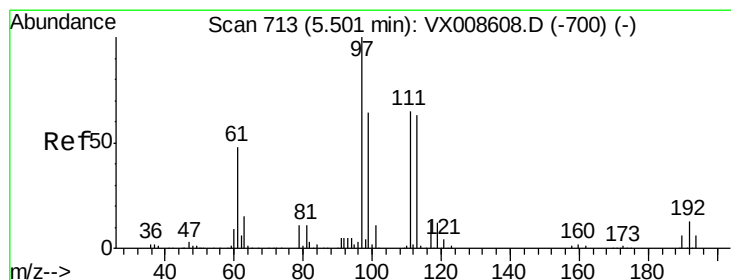
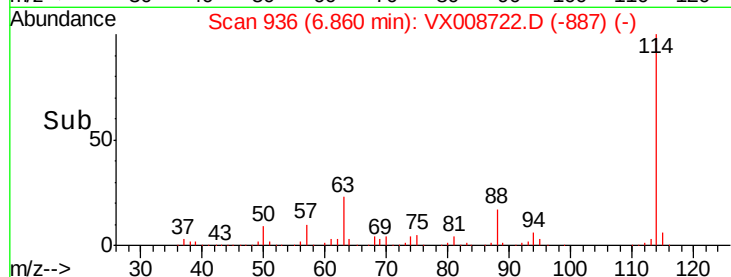
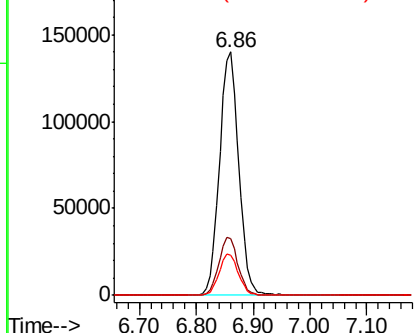
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX008722.D
Acq: 06 Apr 2019 15:51

Instrument :
MSVOA_X
ClientSampleId :
KY036MW026-190403DL

Tot Ion:114 Resp: 328922
Ion Ratio Lower Upper
114 100
63 23.2 0.0 47.2
88 16.6 0.0 34.0

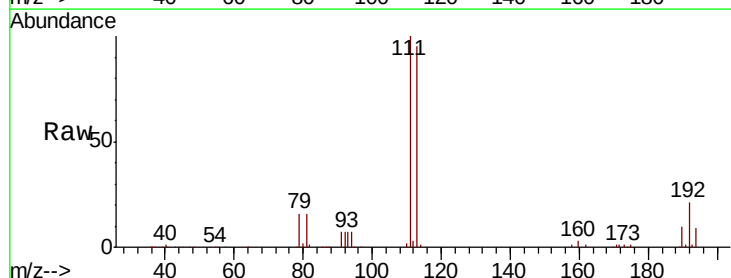


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

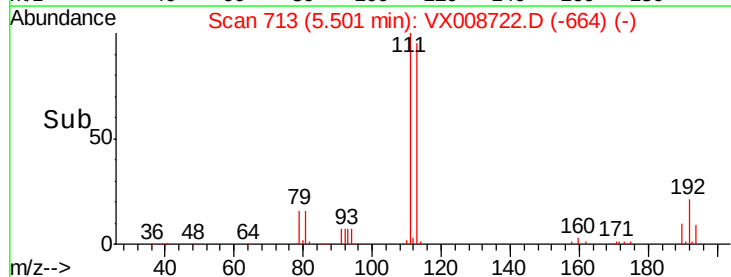
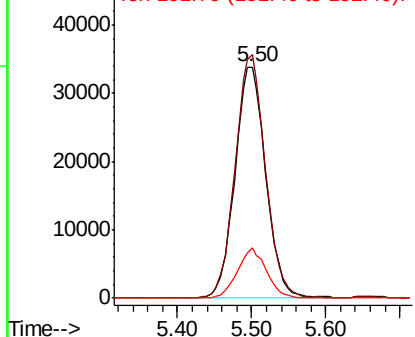


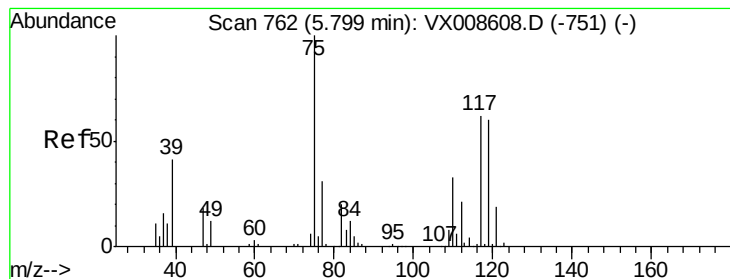
#35
Dibromofluoromethane
Concen: 46.731 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX008722.D
Acq: 06 Apr 2019 15:51

Tgt Ion:113 Resp: 98276
Ion Ratio Lower Upper
113 100
111 103.4 83.4 125.2
192 20.3 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: 4.431 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

KY036MW026-190403DL

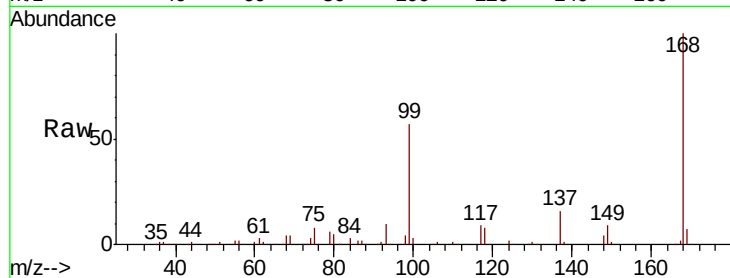
Tot Ion: 75 Resp: 15931

Ion Ratio Lower Upper

75 100

110 9.3 16.4 49.2#

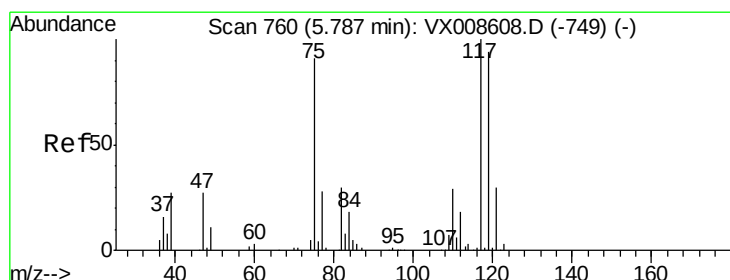
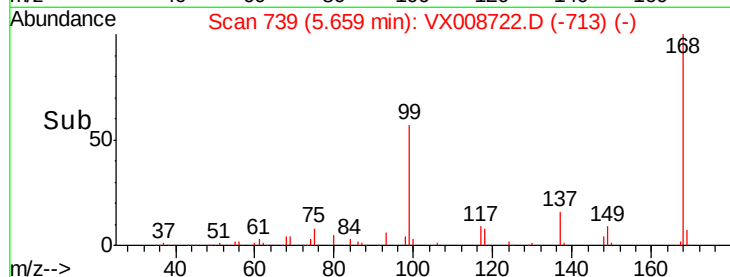
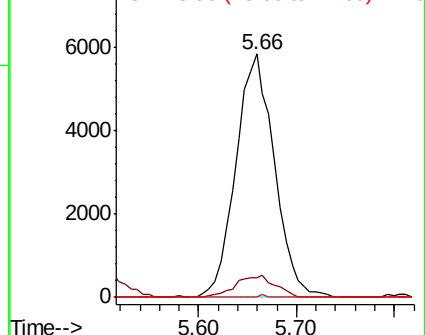
77 0.1 24.7 37.1#



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: 6.409 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

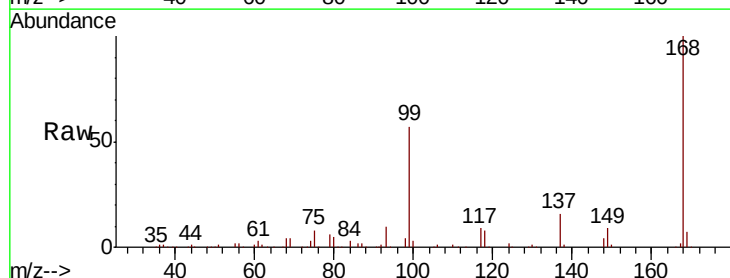
Tgt Ion: 117 Resp: 19073

Ion Ratio Lower Upper

117 100

119 4.3 75.0 112.6#

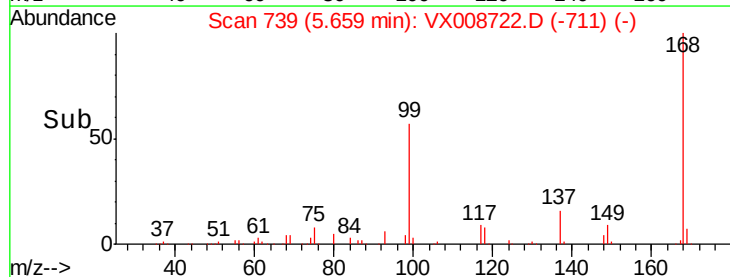
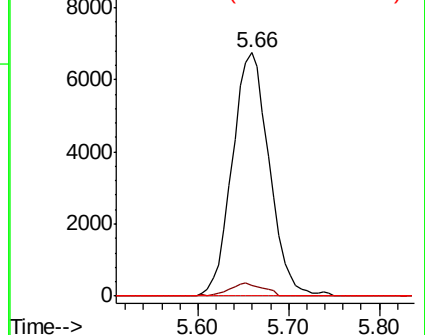
121 0.0 24.3 36.5#

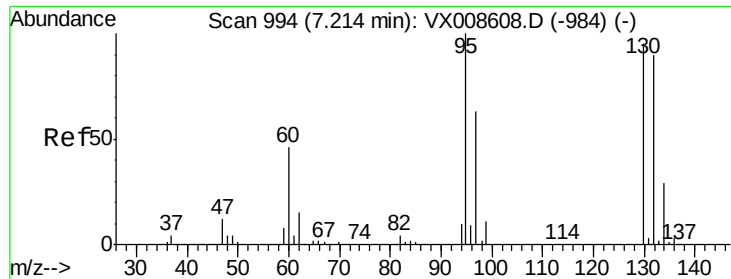


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 20.369 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

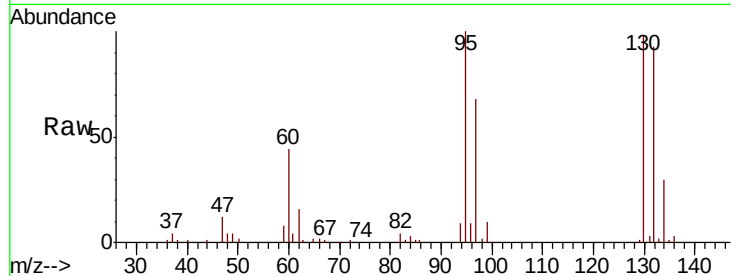
KY036MW026-190403DL

Tot Ion:130 Resp: 50815

Ion Ratio Lower Upper

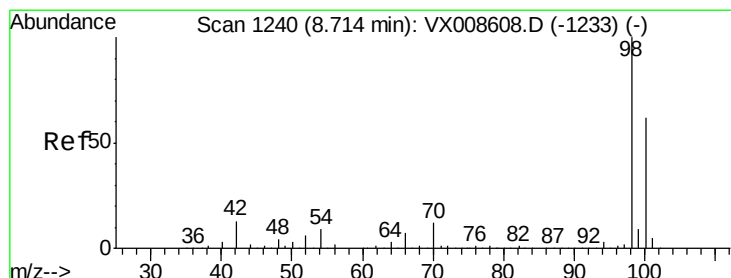
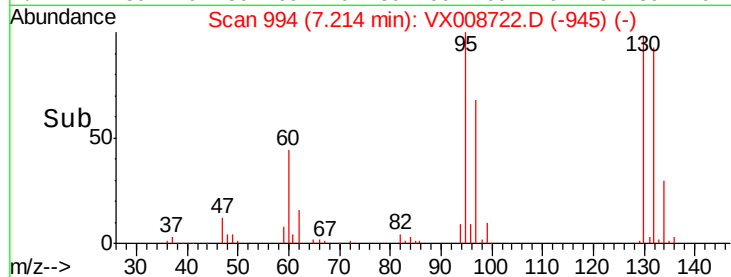
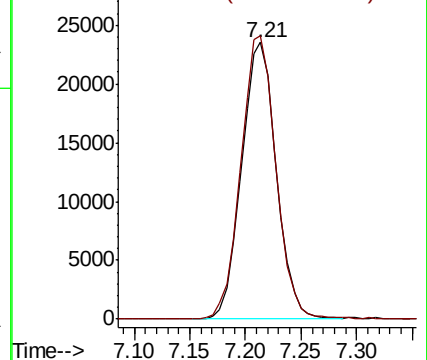
130 100

95 102.2 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: 48.602 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008722.D

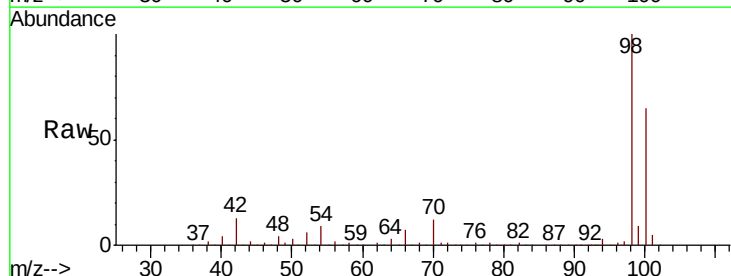
Acq: 06 Apr 2019 15:51

Tgt Ion: 98 Resp: 406973

Ion Ratio Lower Upper

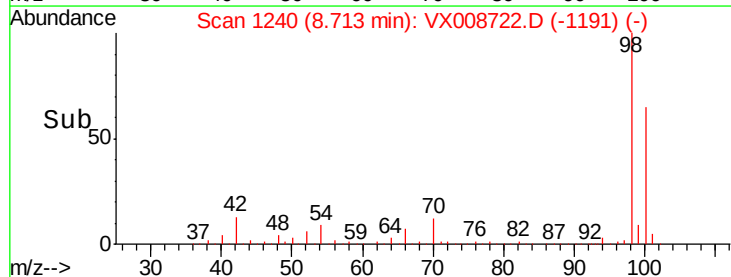
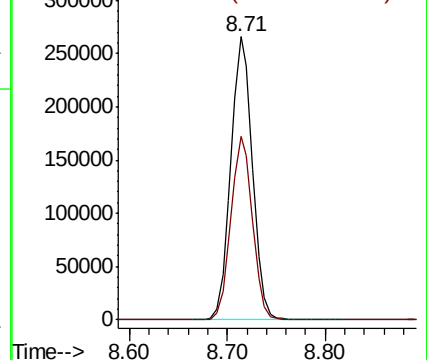
98 100

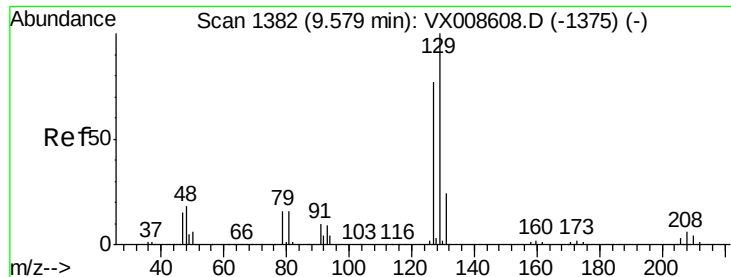
100 64.7 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

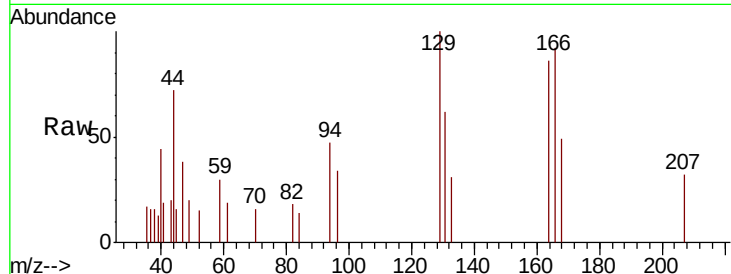




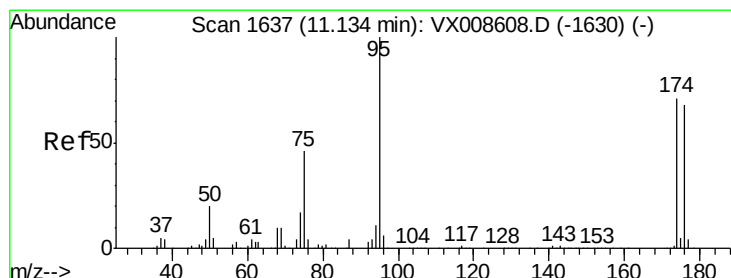
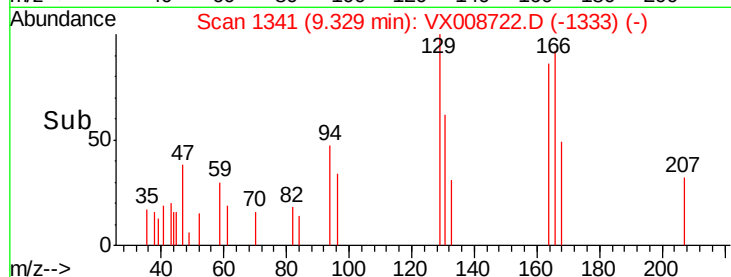
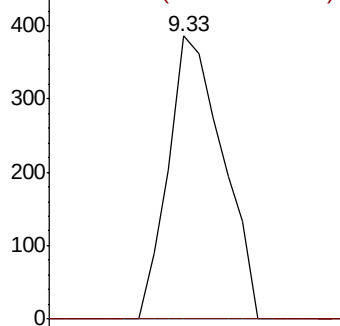
#60
 Dibromochloromethane
 Concen: 0.252 ug/l
 RT: 9.33 min Scan# 1341
 Delta R.T. -0.25 min
 Lab File: VX008722.D
 Acq: 06 Apr 2019 15:51

Instrument :
 MSVOA_X
 ClientSampleId :
 KY036MW026-190403DL

Tot Ion:129 Resp: 601
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.3#

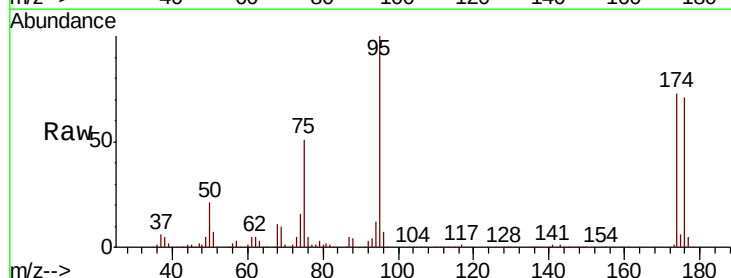


Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V

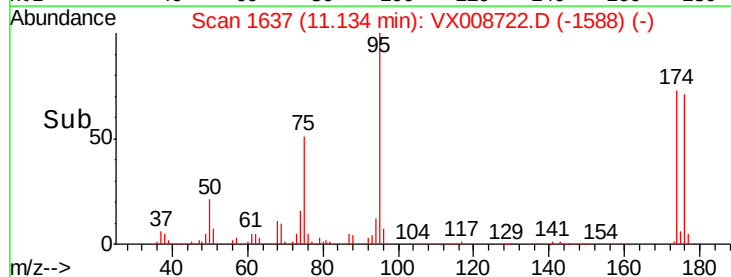
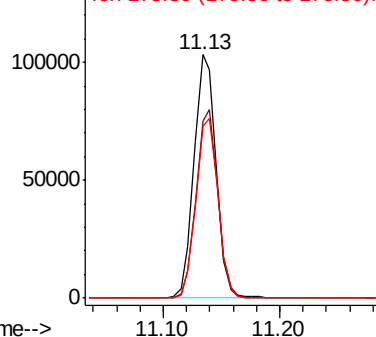


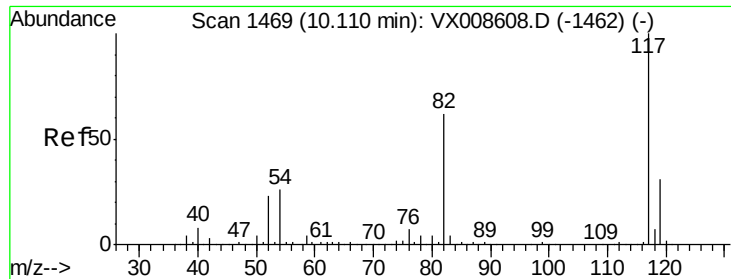
#62
 4-Bromofluorobenzene
 Concen: 45.194 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008722.D
 Acq: 06 Apr 2019 15:51

Tgt Ion: 95 Resp: 134198
 Ion Ratio Lower Upper
 95 100
 174 76.7 0.0 151.8
 176 74.7 0.0 145.8



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

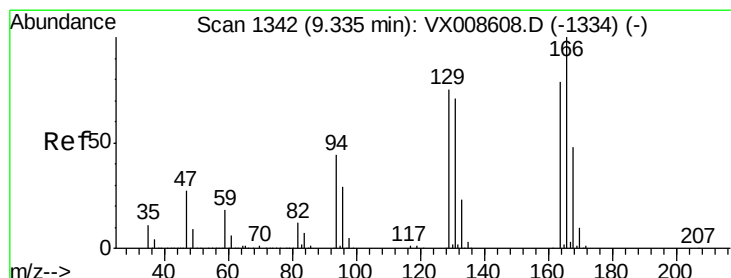
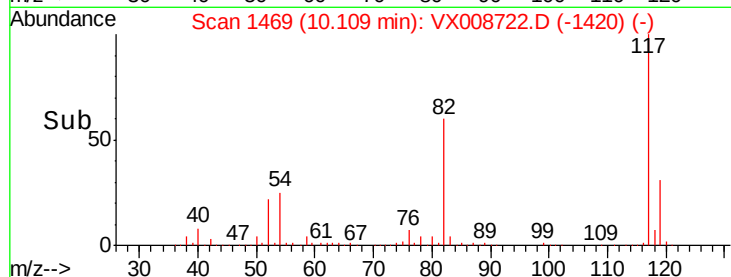
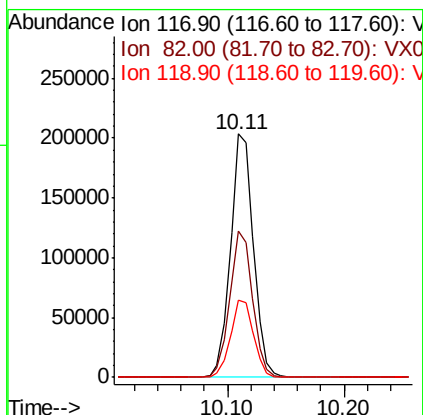
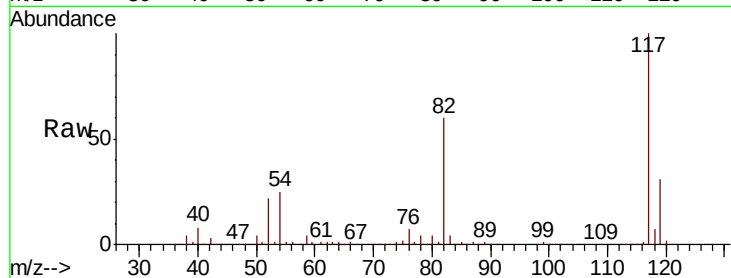




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008722.D
Acq: 06 Apr 2019 15:51

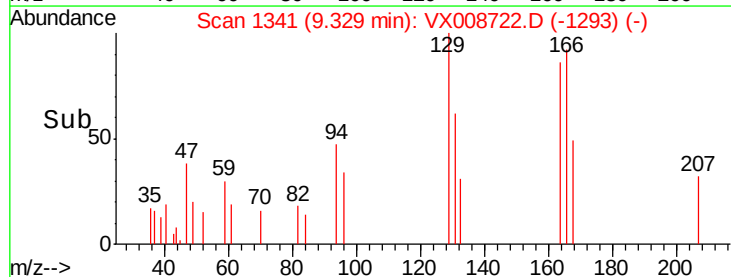
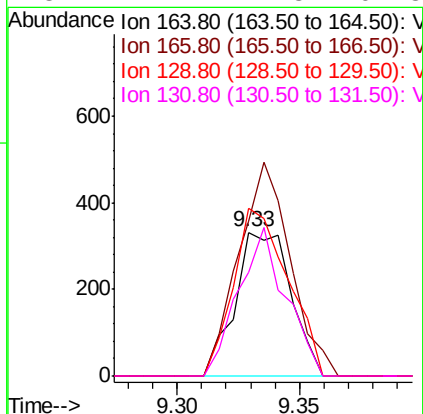
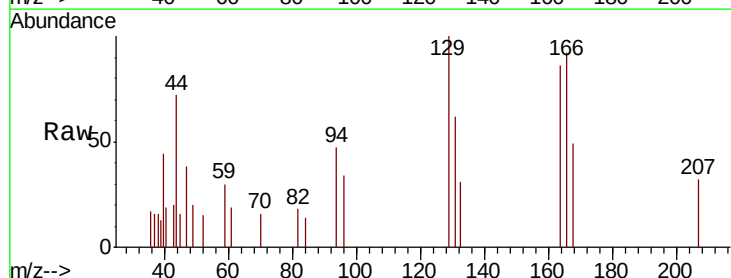
Instrument :
MSVOA_X
ClientSampleId :
KY036MW026-190403DL

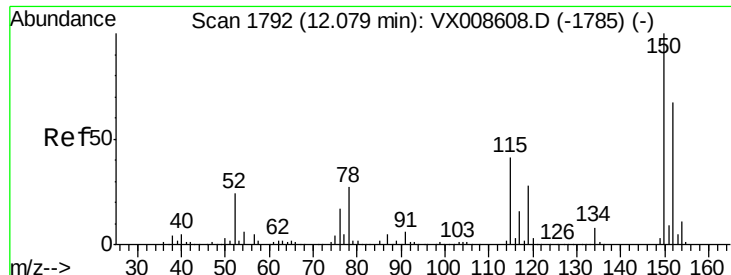
Tot Ion:117 Resp: 279119
Ion Ratio Lower Upper
117 100
82 60.0 49.6 74.4
119 31.5 25.0 37.4



#64
Tetrachloroethene
Concen: 0.254 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VX008722.D
Acq: 06 Apr 2019 15:51

Tgt Ion:164 Resp: 526
Ion Ratio Lower Upper
164 100
166 107.5 101.0 151.6
129 116.3 75.8 113.8#
131 71.7 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: VX008722.D

Acq: 06 Apr 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

KY036MW026-190403DL

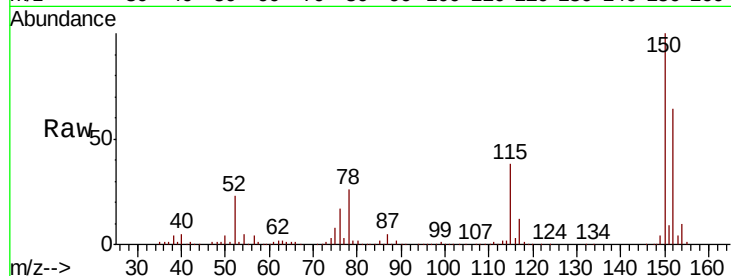
Tot Ion:152 Resp: 117433

Ion Ratio Lower Upper

152 100

115 60.6 43.5 130.5

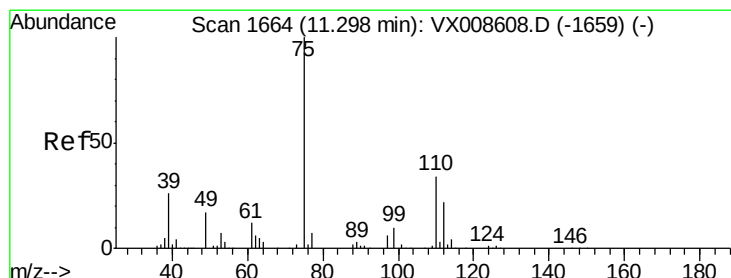
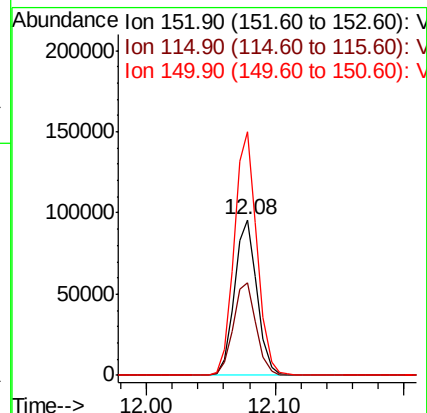
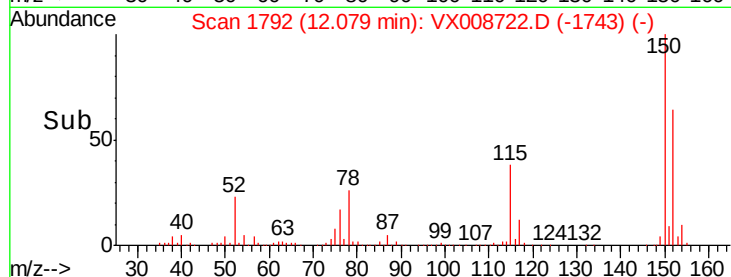
150 157.9 0.0 348.8



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: 20.976 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008722.D

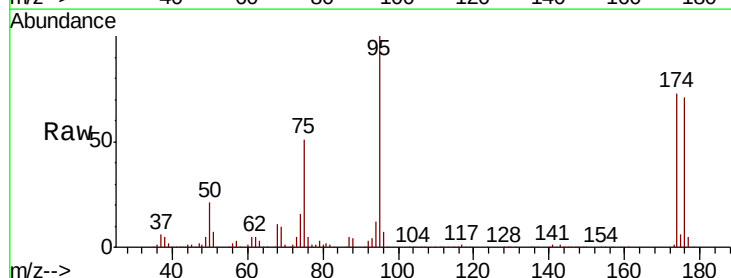
Acq: 06 Apr 2019 15:51

Tgt Ion: 75 Resp: 67670

Ion Ratio Lower Upper

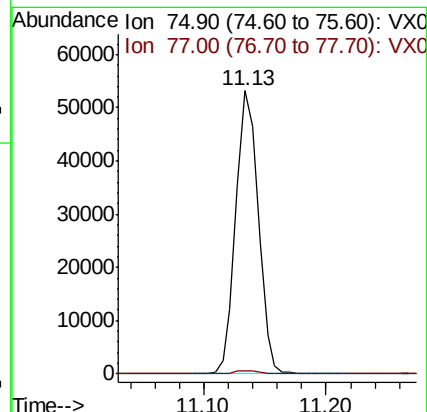
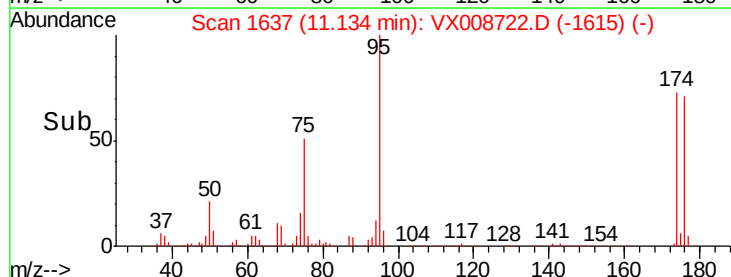
75 100

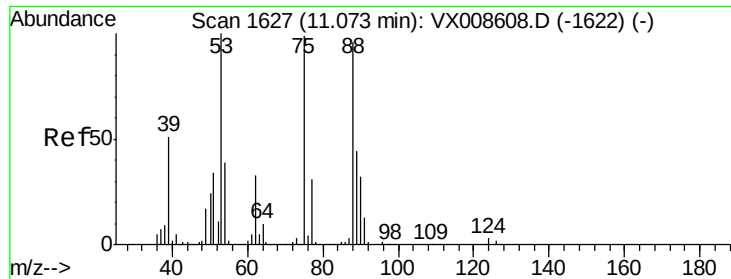
77 1.3 22.3 66.8#



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: 57.823 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008722.D

Acq: 06 Apr 2019 15:51

Instrument :

MSVOA_X

ClientSampleId :

KY036MW026-190403DL

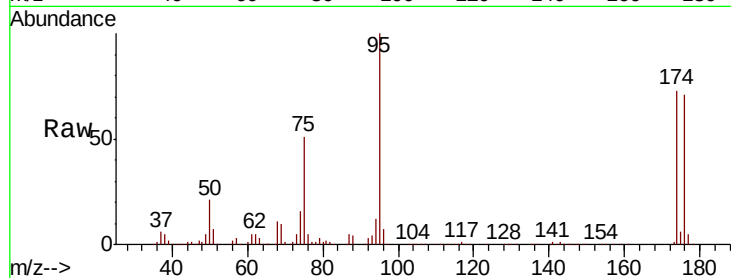
Tot Ion: 75 Resp: 67670

Ion Ratio Lower Upper

75 100

53 0.0 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

