

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111918\
 Data File : VX006097.D
 Acq On : 19 Nov 2018 17:54
 Operator : JC/MD
 Sample : J5964-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LR-RBR-200029

Quant Time: Nov 20 00:02:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	150509	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	215769	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	176763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	88285	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	80988	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
35) Dibromofluoromethane	5.50	113	68995	47.01	ug/l	0.00
Spiked Amount			Recovery	=	94.02%	
50) Toluene-d8	8.71	98	233585	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
62) 4-Bromofluorobenzene	11.14	95	82260	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.82	64	1063	0.996	ug/l #	42
11) Tert butyl alcohol	3.02	59	570	1.150	ug/l #	72
13) Acrolein	2.29	56	48	19.351	ug/l #	14
16) Acetone	2.45	43	5176	5.556	ug/l	93
18) Methyl Acetate	2.78	43	932	Below Cal		95
20) Methylene Chloride	2.86	84	7754	5.067	ug/l	94
25) 2-Butanone	4.71	43	814	0.556	ug/l #	51
29) Tetrahydrofuran	5.17	42	415	0.441	ug/l #	52
30) Chloroform	5.21	83	884	0.330	ug/l	97
31) Cyclohexane	5.66	56	2521	1.046	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	9691	4.659	ug/l #	49
38) Carbon Tetrachloride	5.67	117	13103	6.292	ug/l #	15
43) Isopropyl Acetate	6.46	43	7538	1.902	ug/l	98
44) Trichloroethene	7.21	130	383	0.249	ug/l	99
48) Methyl methacrylate	7.68	41	3857	2.167	ug/l #	16
51) 4-Methyl-2-Pentanone	8.62	43	32289	12.926	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	14870	7.083	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	3151	1.241	ug/l #	43
59) 2-Hexanone	9.54	43	45194	20.525	ug/l #	53
74) N-amyl acetate	10.90	43	112	1.289	ug/l #	2
76) 1,2,3-Trichloropropane	11.13	75	40130	22.323	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.51	105	1673	0.386	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.13	75	40130	71.148	ug/l #	9
95) Naphthalene	13.83	128	15503	3.561	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

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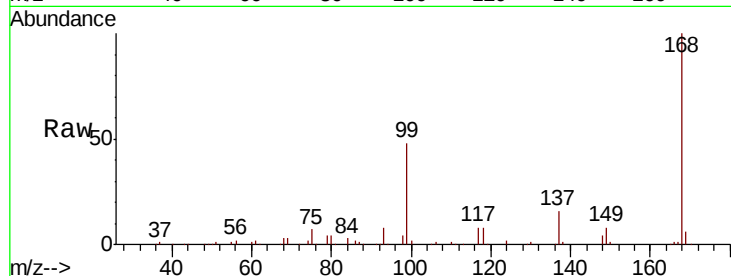
LR-RBR-200029

Tot Ion:168 Resp: 150509

Ion Ratio Lower Upper

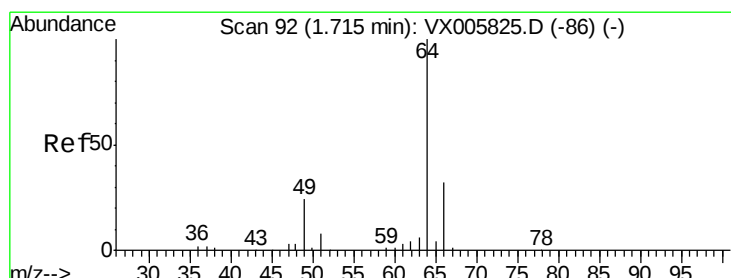
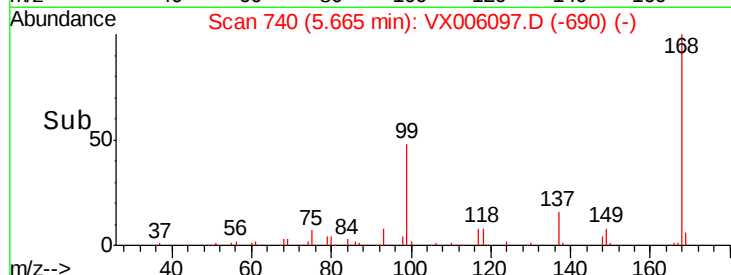
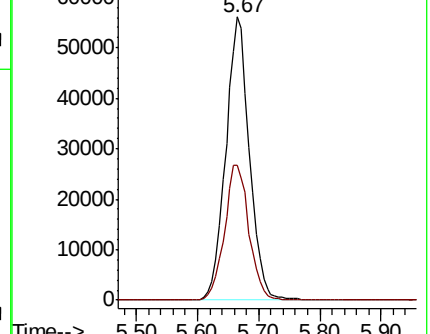
168 100

99 47.8 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 0.996 ug/l

RT: 1.82 min Scan# 110

Delta R.T. 0.11 min

Lab File: VX006097.D

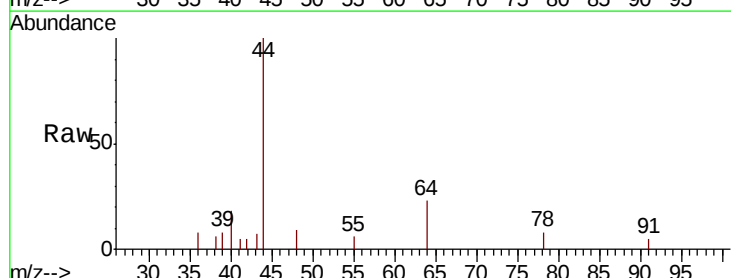
Acq: 19 Nov 2018 17:54

Tgt Ion: 64 Resp: 1063

Ion Ratio Lower Upper

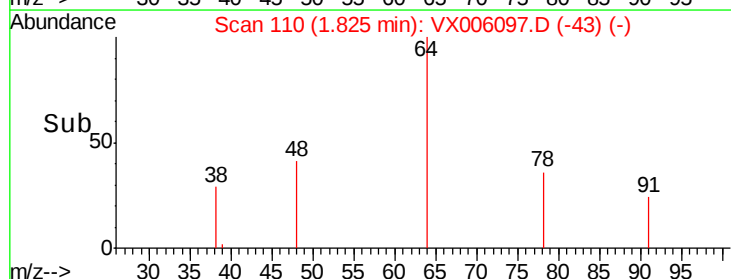
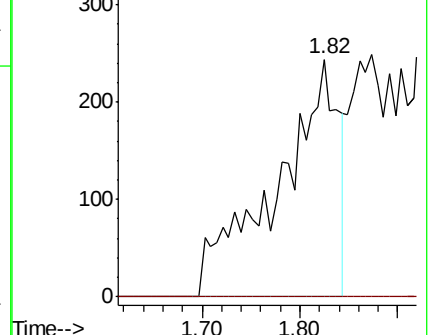
64 100

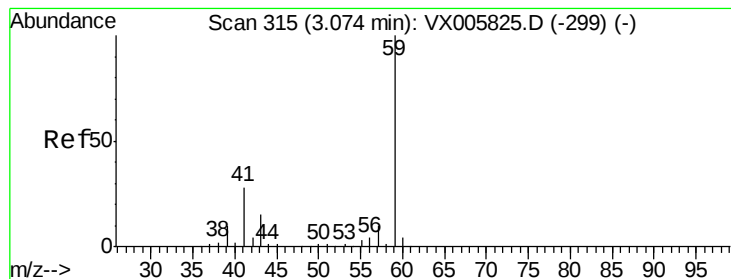
66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



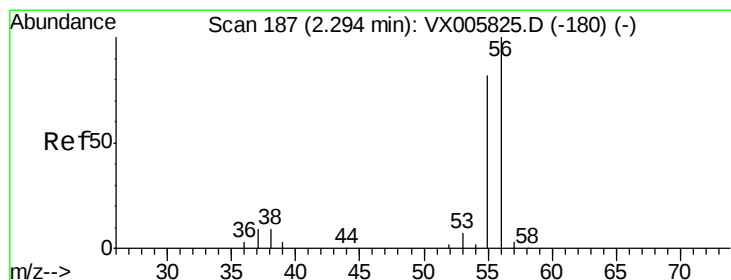
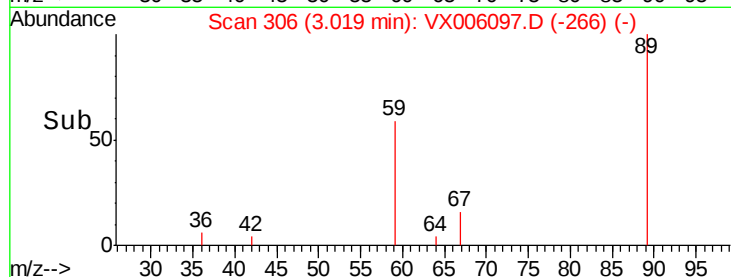
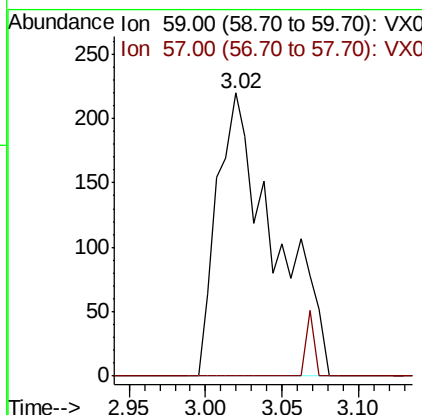
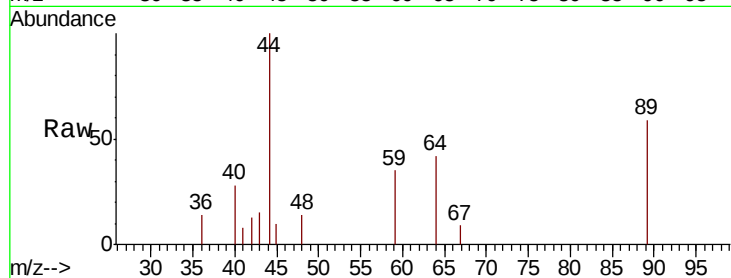


#11

Tert butyl alcohol
 Concen: 1.150 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.05 min
 Lab File: VX006097.D
 Acq: 19 Nov 2018 17:54

Instrument :
 MSVOA_X
 ClientSampleId :
 LR-RBR-200029

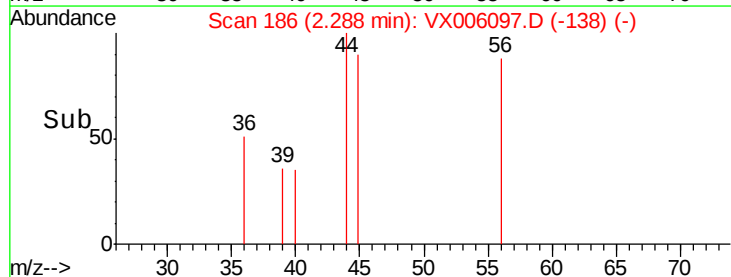
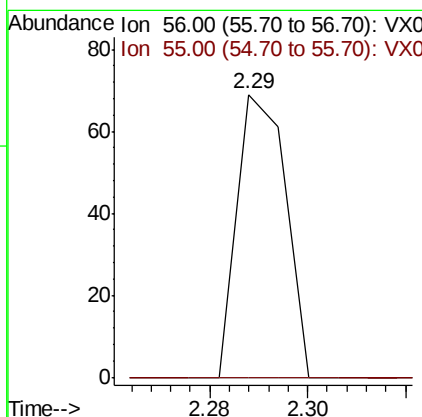
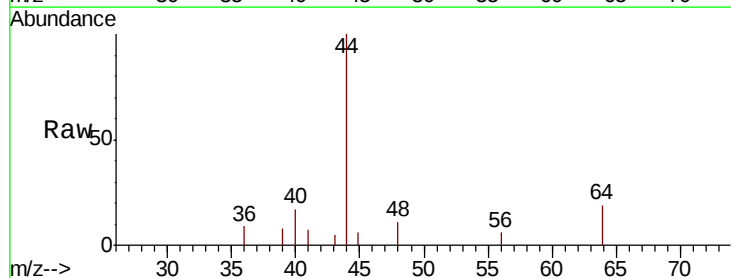
Tot Ion: 59 Resp: 570
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

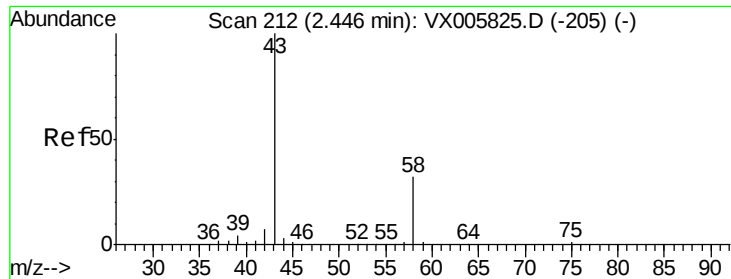


#13

Acrolein
 Concen: 19.351 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX006097.D
 Acq: 19 Nov 2018 17:54

Tgt Ion: 56 Resp: 48
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.3 85.9#





#16

Acetone

Concen: 5.556 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006097.D

Acq: 19 Nov 2018 17:54

Instrument :

MSVOA_X

ClientSampleId :

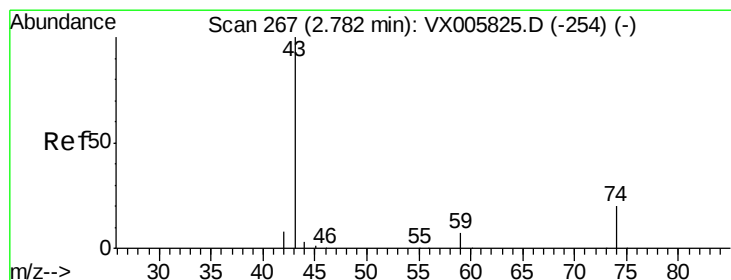
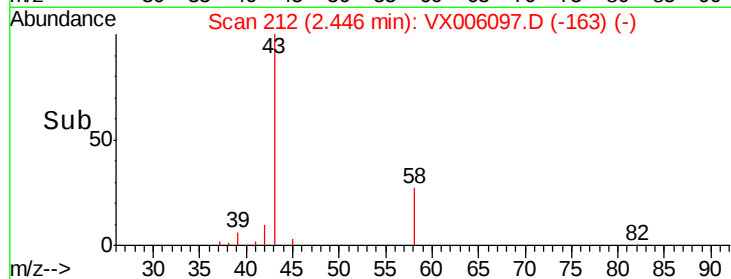
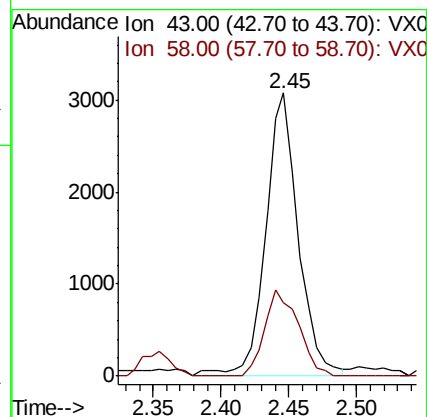
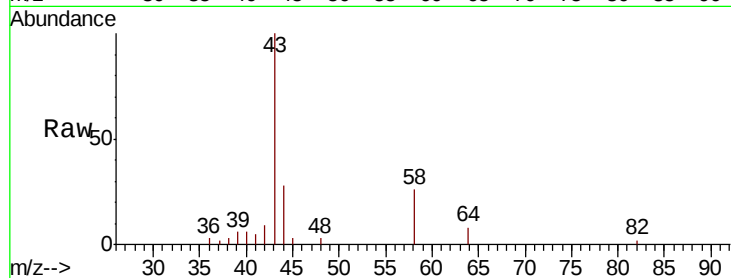
LR-RBR-200029

Tot Ion: 43 Resp: 5176

Ion Ratio Lower Upper

43 100

58 26.1 23.8 35.6



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX006097.D

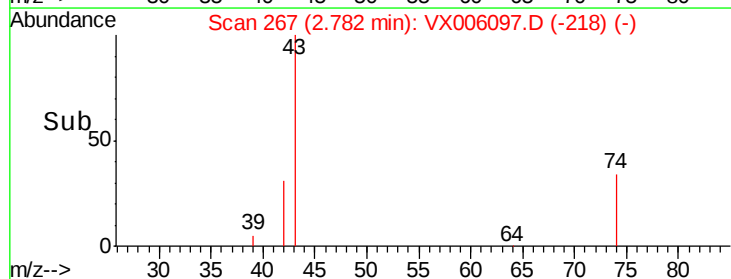
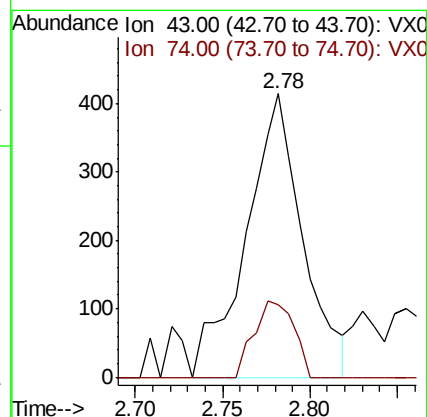
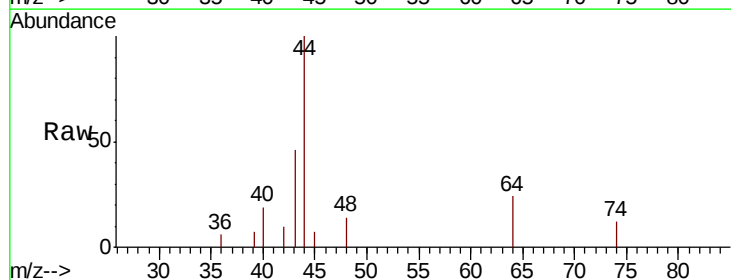
Acq: 19 Nov 2018 17:54

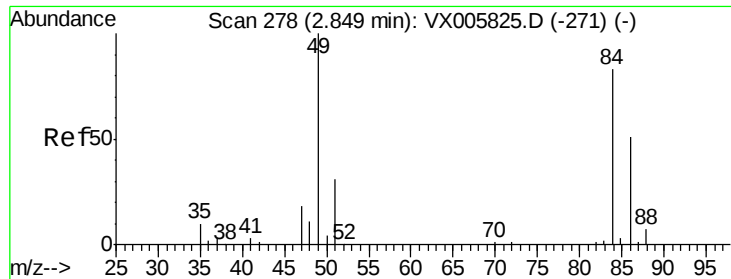
Tgt Ion: 43 Resp: 932

Ion Ratio Lower Upper

43 100

74 18.9 16.8 25.2

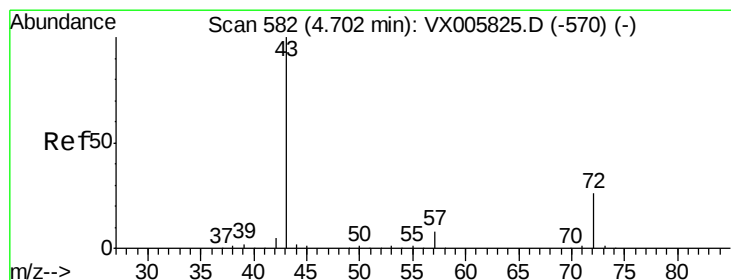
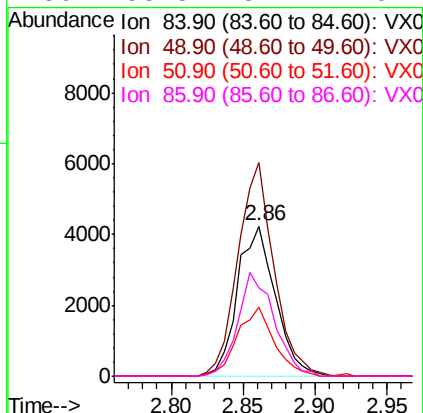
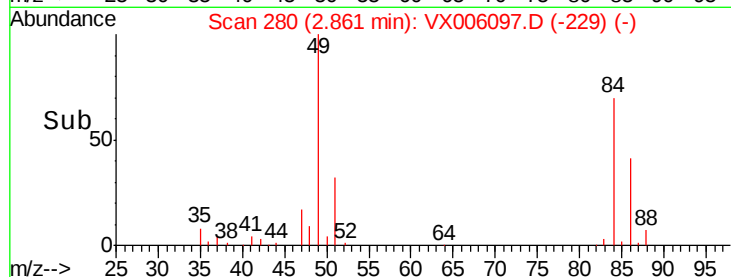
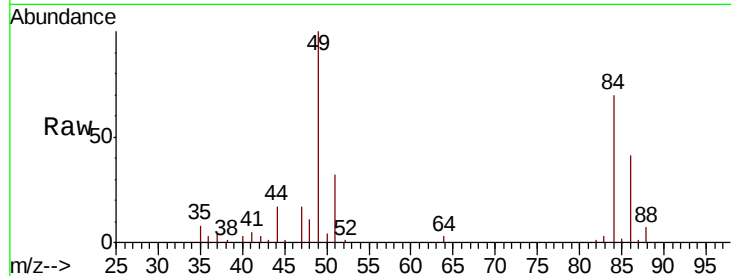




#20
Methvlene Chloride
Concen: 5.067 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

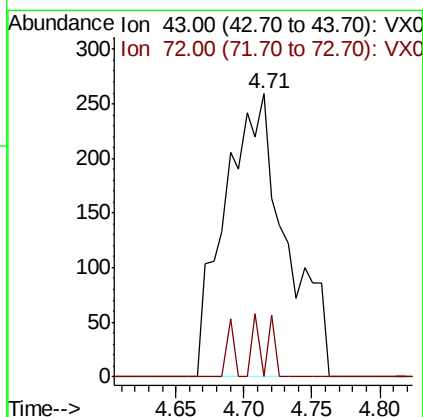
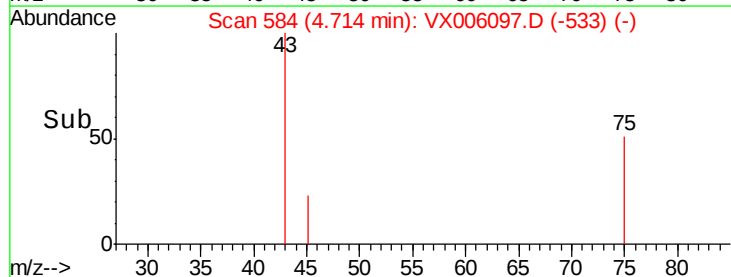
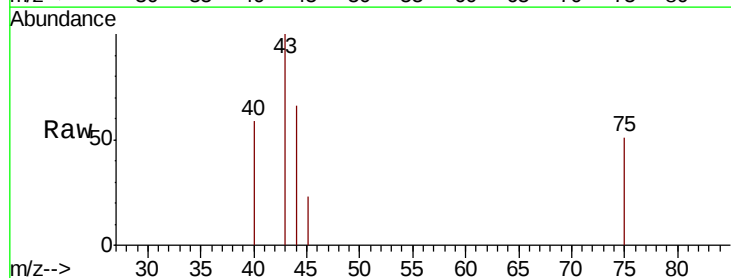
Instrument :
MSVOA_X
ClientSampleId :
LR-RBR-200029

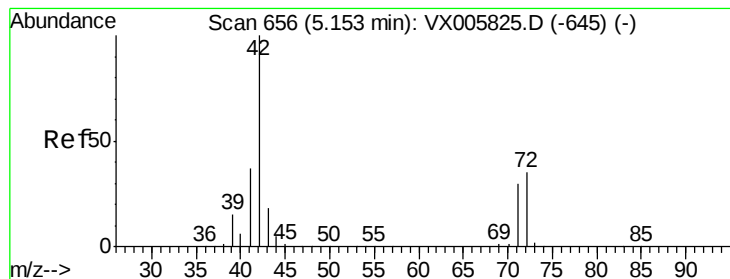
Tot Ion: 84 Resp: 7754
Ion Ratio Lower Upper
84 100
49 142.5 109.5 164.3
51 46.0 33.3 49.9
86 58.8 52.7 79.1



#25
2-Butanone
Concen: 0.556 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

Tgt Ion: 43 Resp: 814
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.441 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX006097.D

Acq: 19 Nov 2018 17:54

Instrument :

MSVOA_X

ClientSampleId :

LR-RBR-200029

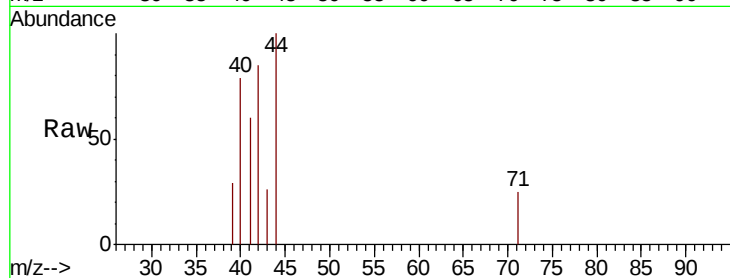
Tot Ion: 42 Resp: 415

Ion Ratio Lower Upper

42 100

72 9.6 32.0 48.0#

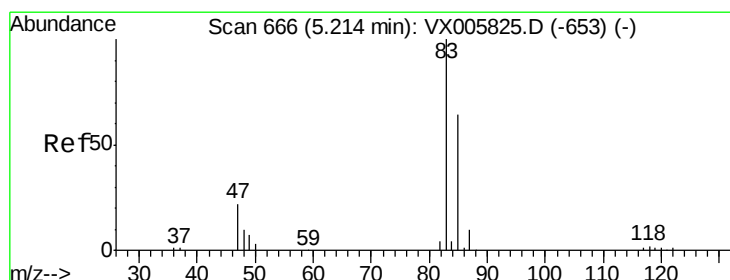
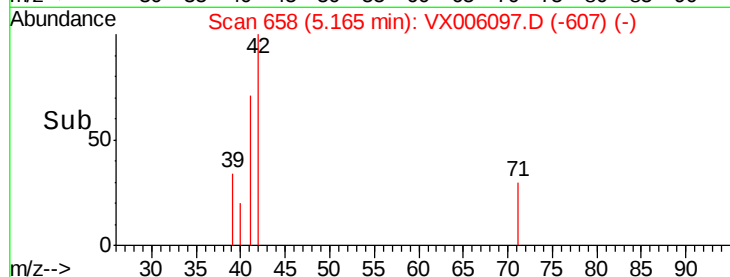
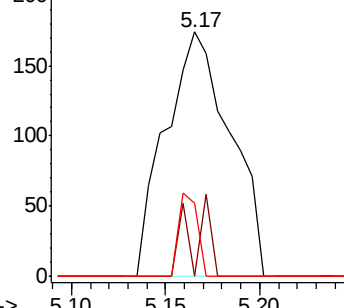
71 9.9 29.8 44.8#



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



#30

Chloroform

Concen: 0.330 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX006097.D

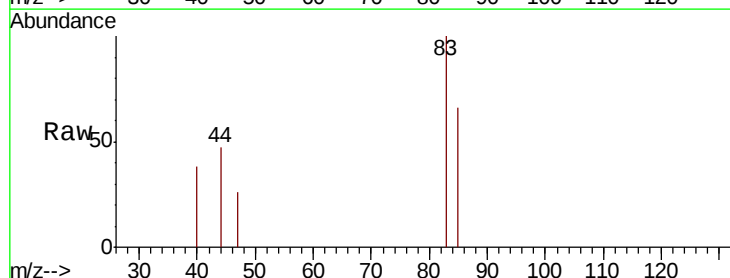
Acq: 19 Nov 2018 17:54

Tgt Ion: 83 Resp: 884

Ion Ratio Lower Upper

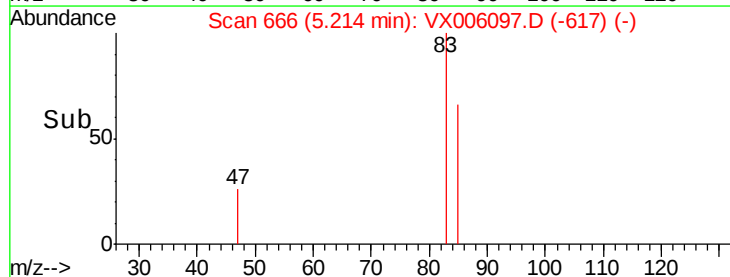
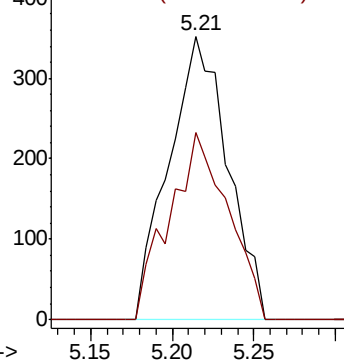
83 100

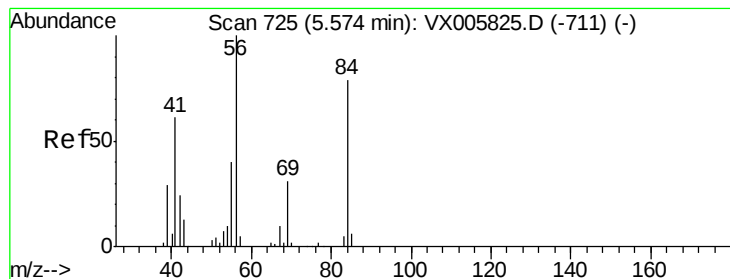
85 65.9 50.6 76.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.046 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX006097.D

Acq: 19 Nov 2018 17:54

Instrument :

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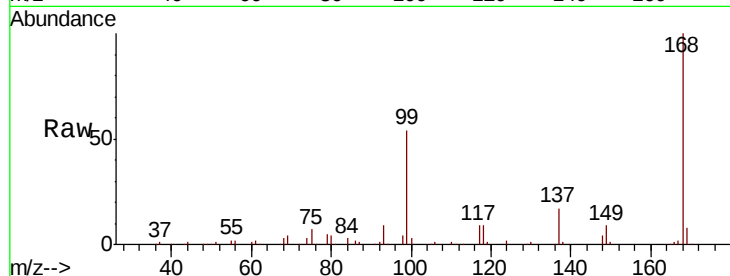
Tot Ion: 56 Resp: 2521

Ion Ratio Lower Upper

56 100

69 197.8 22.6 34.0#

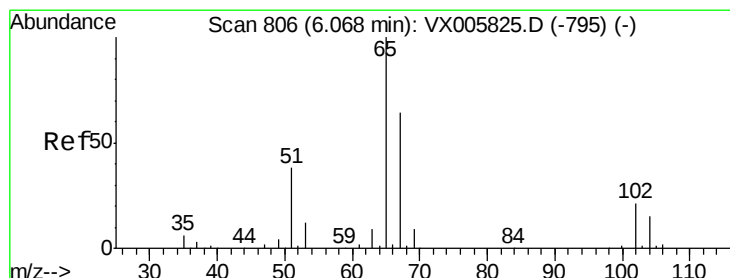
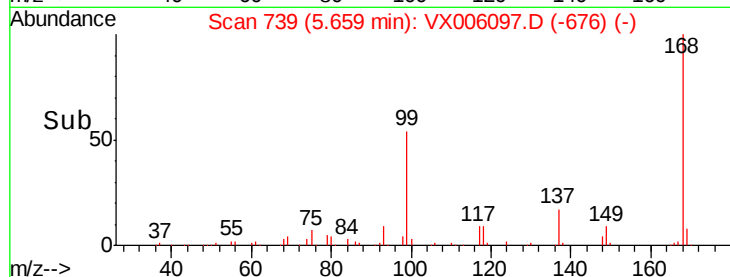
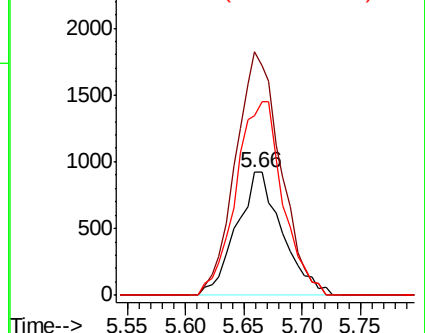
84 145.6 62.7 94.1#



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: 46.806 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX006097.D

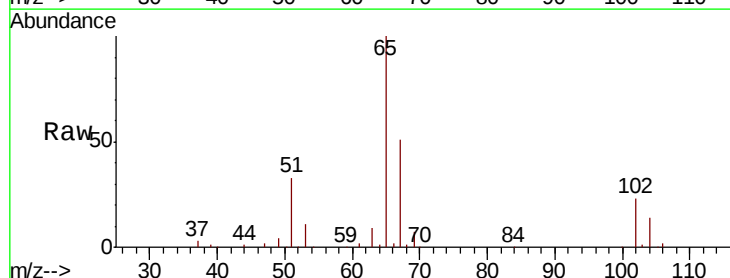
Acq: 19 Nov 2018 17:54

Tgt Ion: 65 Resp: 80988

Ion Ratio Lower Upper

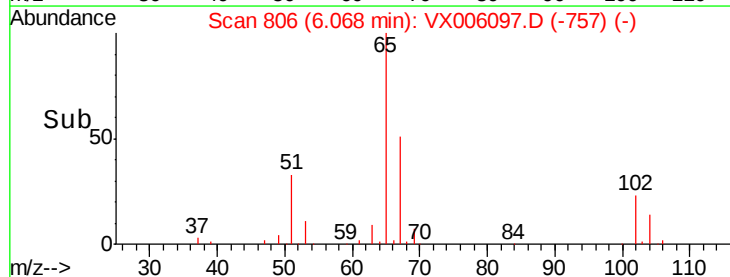
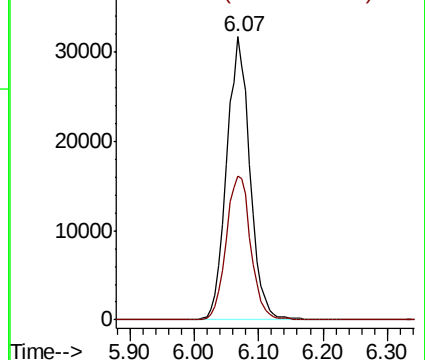
65 100

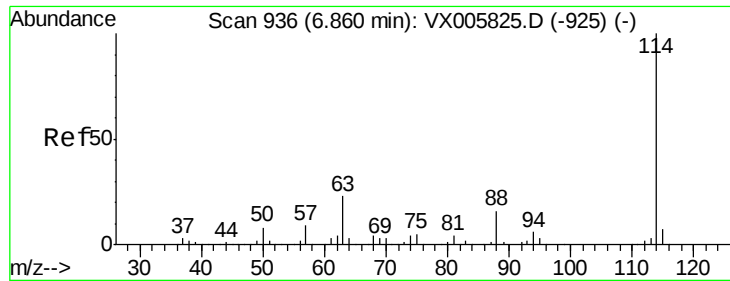
67 53.8 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

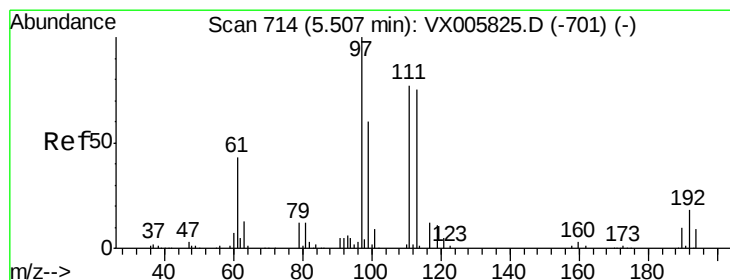
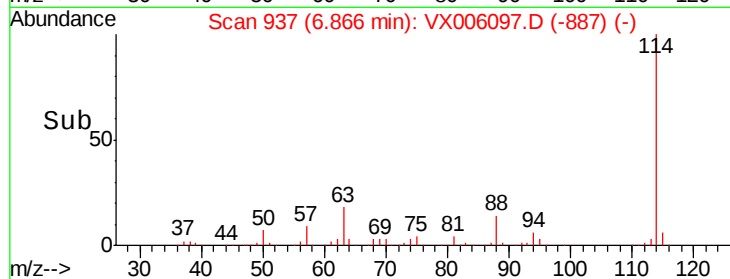
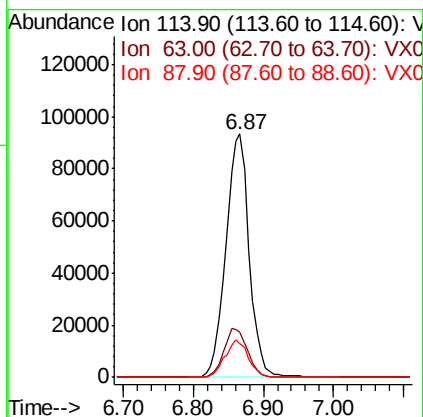
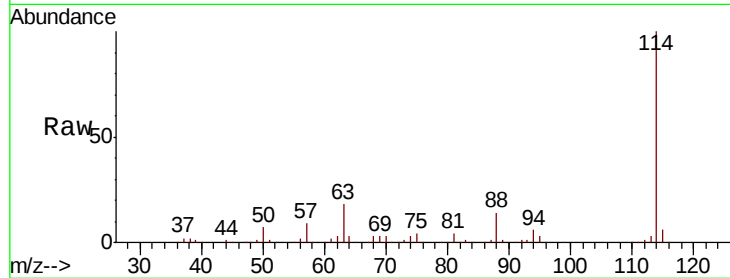




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.87 min Scan# 937
Delta R.T. 0.01 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

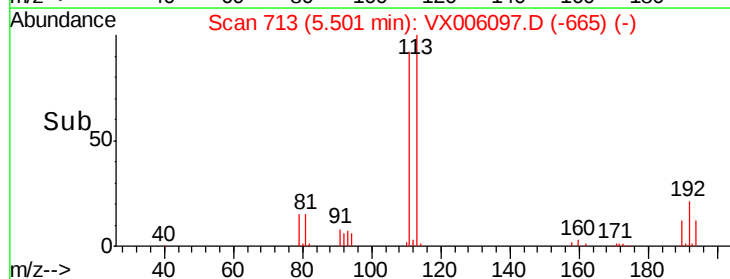
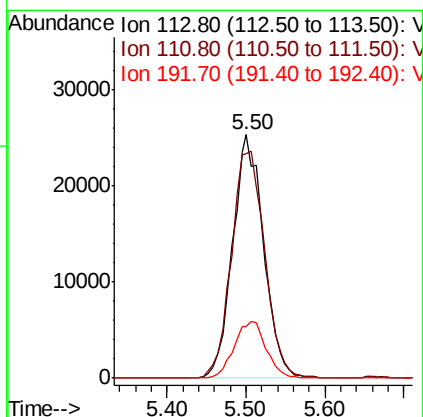
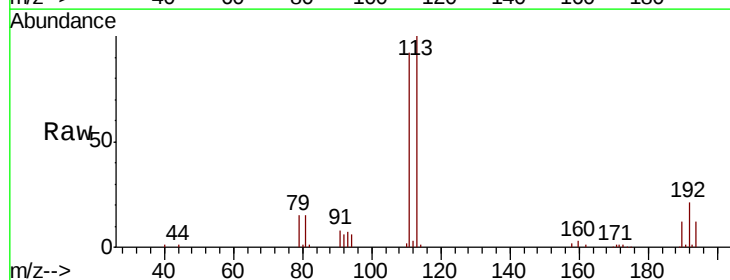
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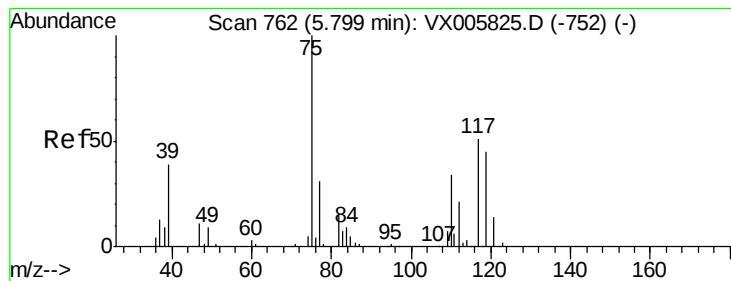
Tot Ion:114 Resp: 215769
Ion Ratio Lower Upper
114 100
63 18.5 0.0 42.8
88 13.6 0.0 31.2



#35
Dibromofluoromethane
Concen: 47.014 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.01 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

Tgt Ion:113 Resp: 68995
Ion Ratio Lower Upper
113 100
111 100.5 82.3 123.5
192 23.9 17.9 26.9





#36

1,1-Dichloropropene

Concen: 4.659 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006097.D

Acq: 19 Nov 2018 17:54

Instrument :

MSVOA_X

ClientSampleId :

LR-RBR-200029

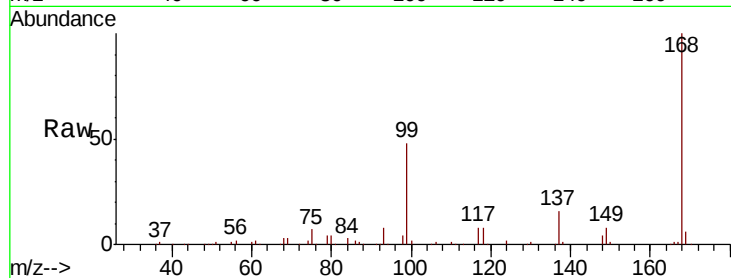
Tot Ion: 75 Resp: 9691

Ion Ratio Lower Upper

75 100

110 8.7 17.4 52.2#

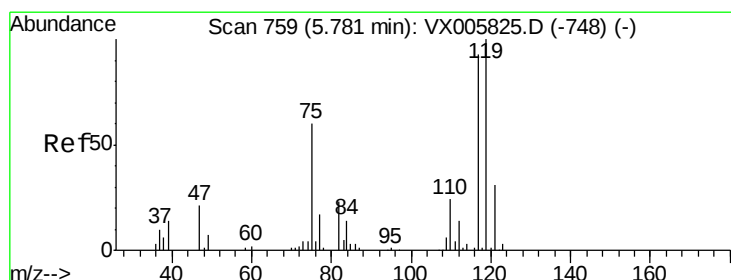
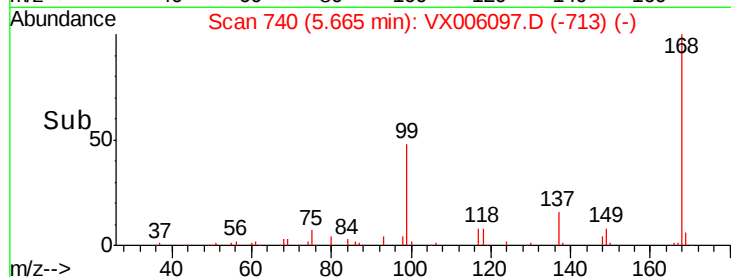
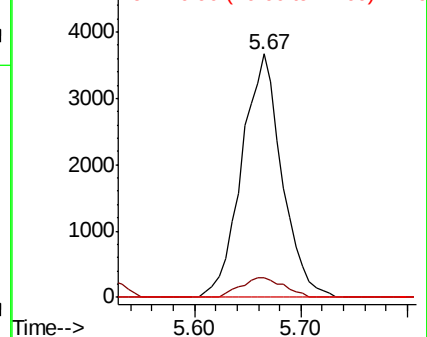
77 0.0 25.8 38.6#



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: 6.292 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006097.D

Acq: 19 Nov 2018 17:54

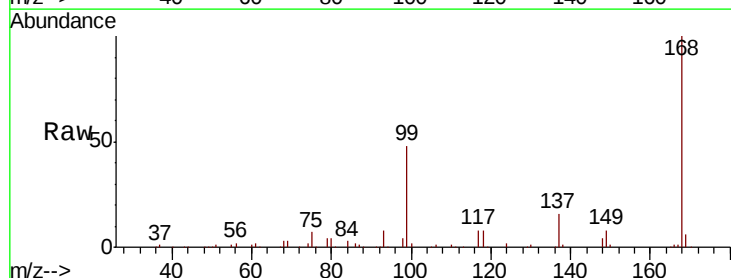
Tgt Ion: 117 Resp: 13103

Ion Ratio Lower Upper

117 100

119 4.6 78.1 117.1#

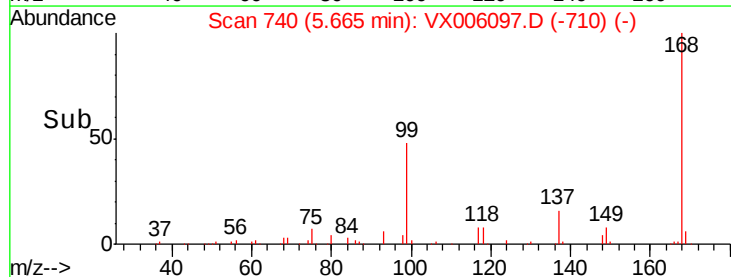
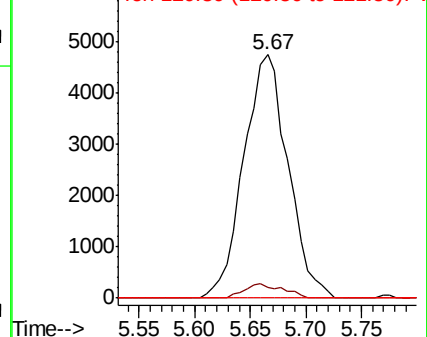
121 0.0 24.6 36.8#

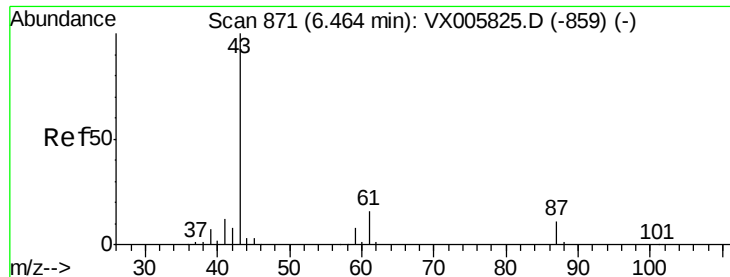


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



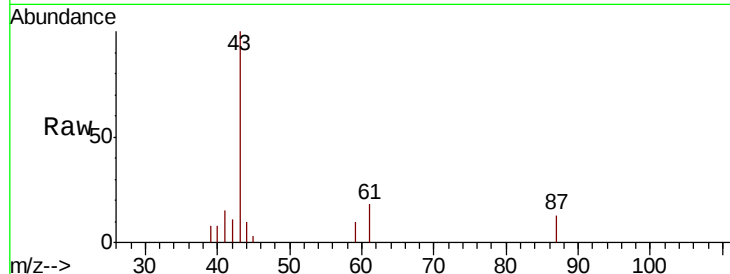


#43

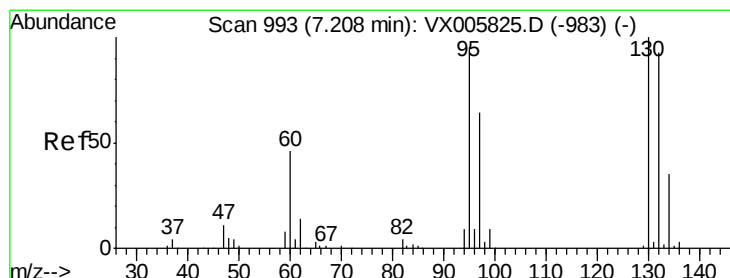
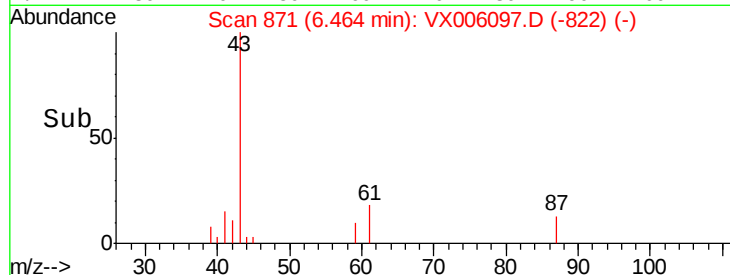
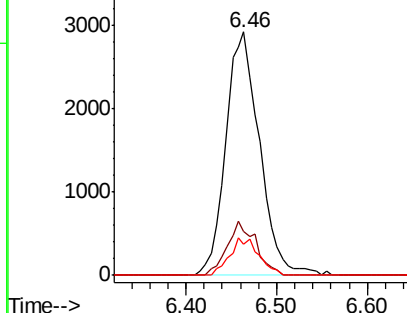
Isopropyl Acetate
 Concen: 1.902 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.00 min
 Lab File: VX006097.D
 Acq: 19 Nov 2018 17:54

Instrument :
 MSVOA_X
 ClientSampleId :
 LR-RBR-200029

Tot Ion: 43 Resp: 7538
 Ion Ratio Lower Upper
 43 100
 61 18.9 14.6 22.0
 87 13.1 9.6 14.4



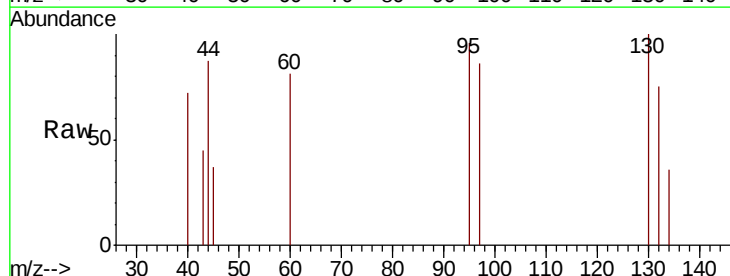
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



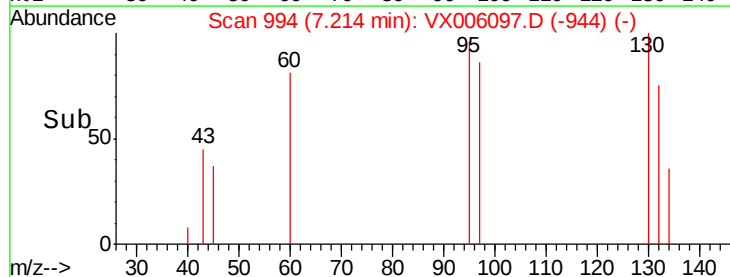
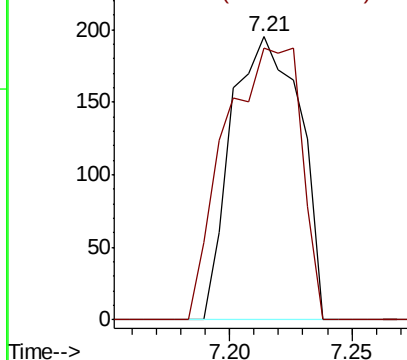
#44

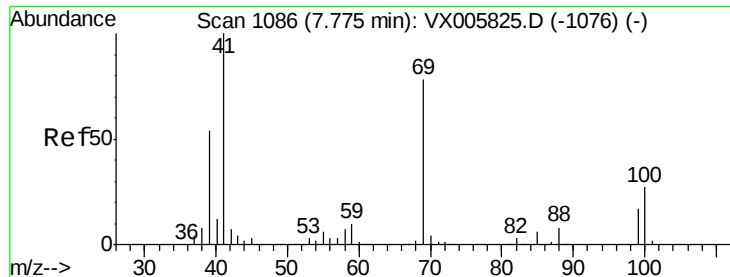
Trichloroethene
 Concen: 0.249 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VX006097.D
 Acq: 19 Nov 2018 17:54

Tgt Ion: 130 Resp: 383
 Ion Ratio Lower Upper
 130 100
 95 95.9 0.0 194.2



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

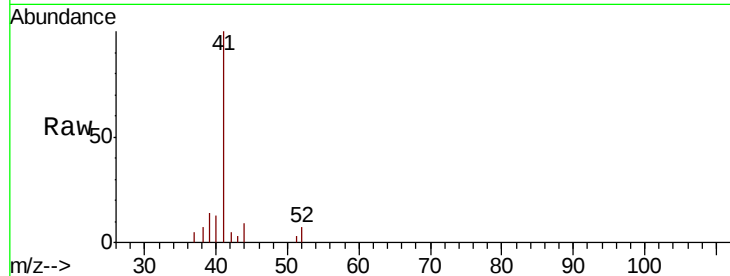




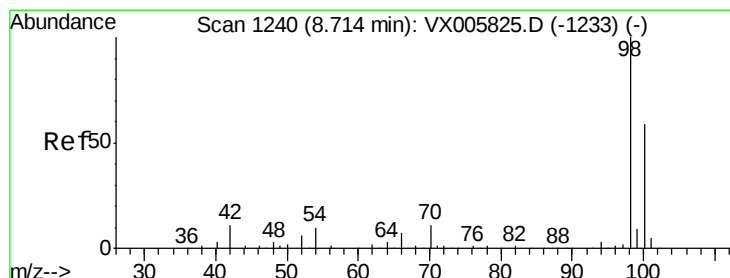
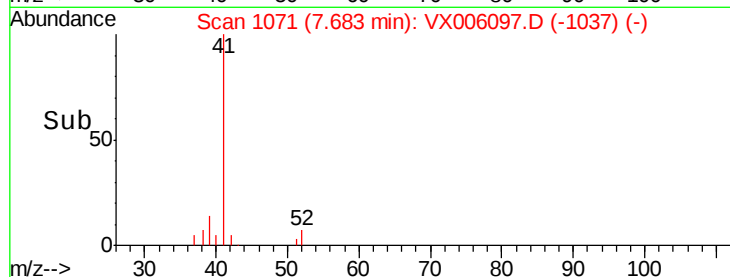
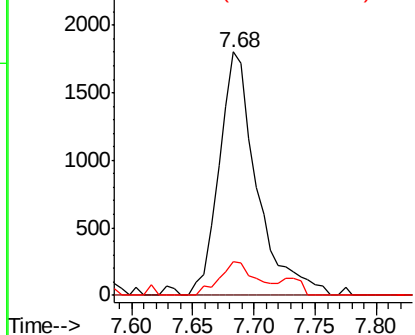
#48
Methvl methacrylate
Concen: 2.167 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

Instrument :
MSVOA_X
ClientSampleId :
LR-RBR-200029

Tot Ion: 41 Resp: 3857
Ion Ratio Lower Upper
41 100
69 0.0 63.2 94.8#
39 0.0 42.2 63.2#

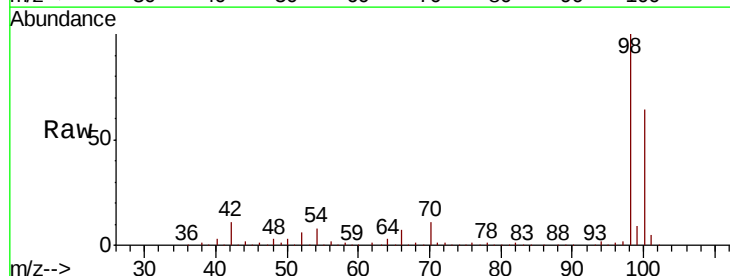


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

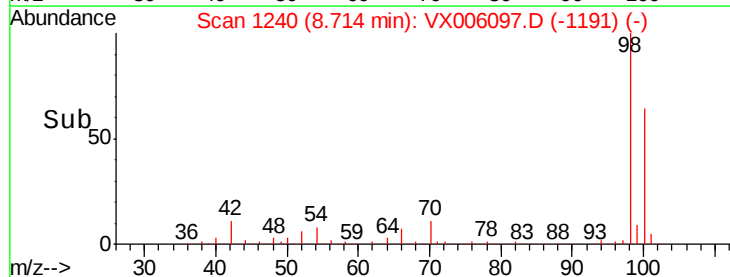
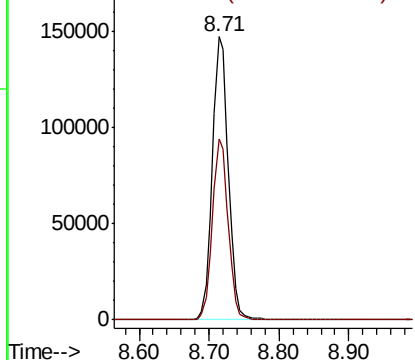


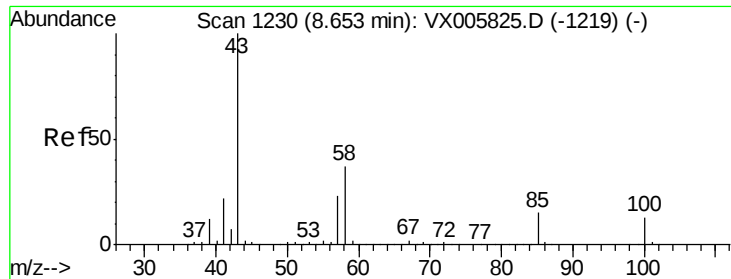
#50
Toluene-d8
Concen: 47.876 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

Tgt Ion: 98 Resp: 233585
Ion Ratio Lower Upper
98 100
100 63.4 51.3 76.9



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

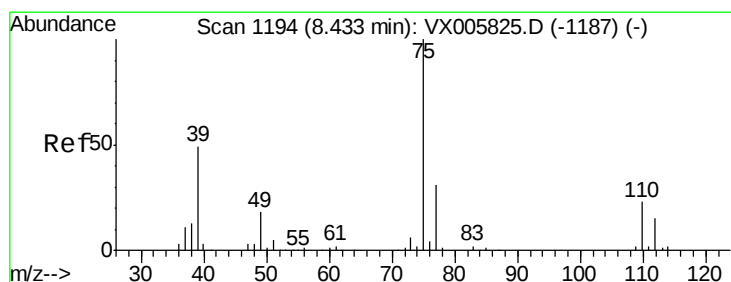
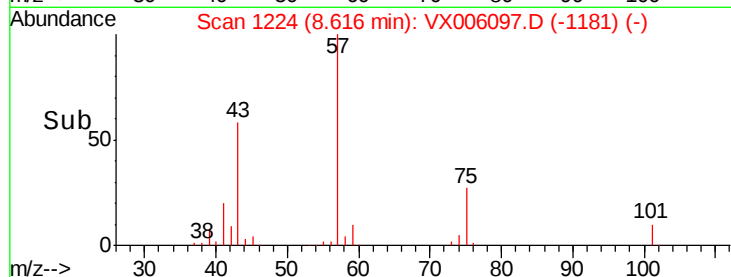
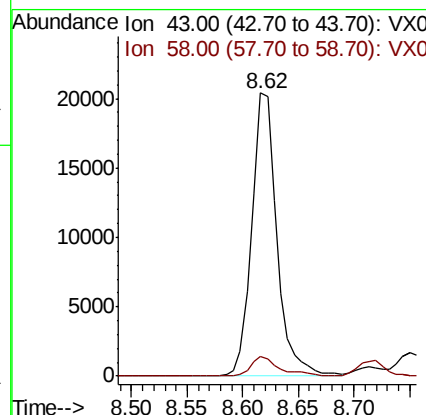
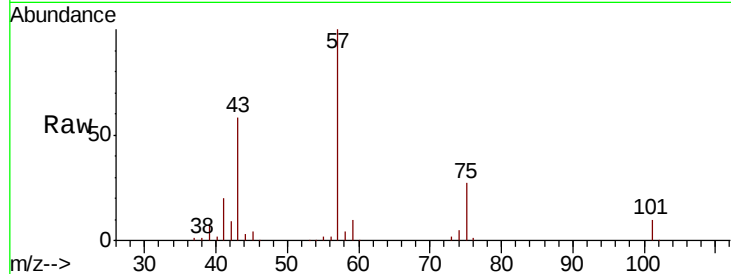




#51
4-Methyl-2-Pentanone
Concen: 12.926 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.04 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

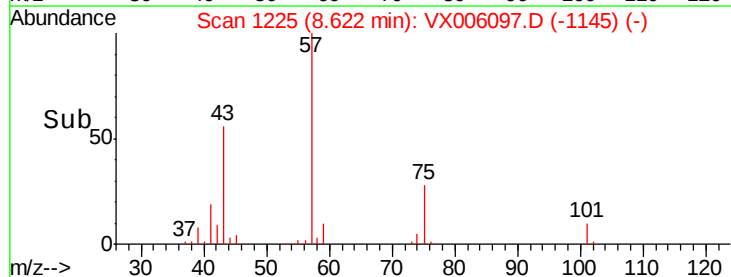
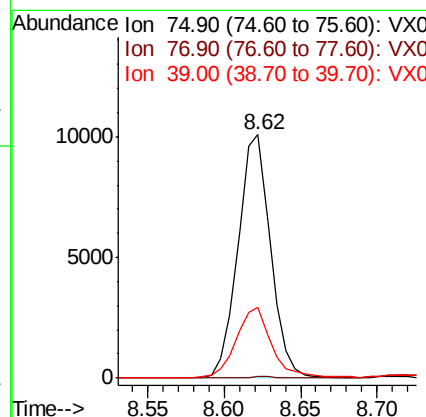
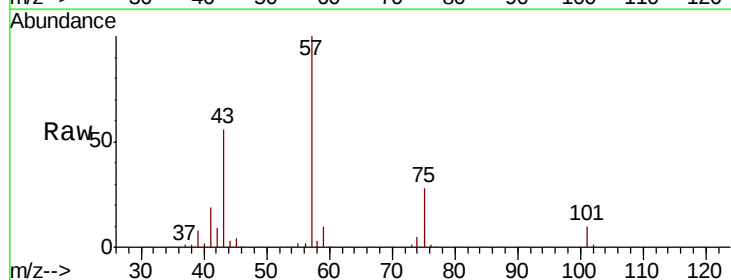
Instrument :
MSVOA_X
ClientSampleId :
LR-RBR-200029

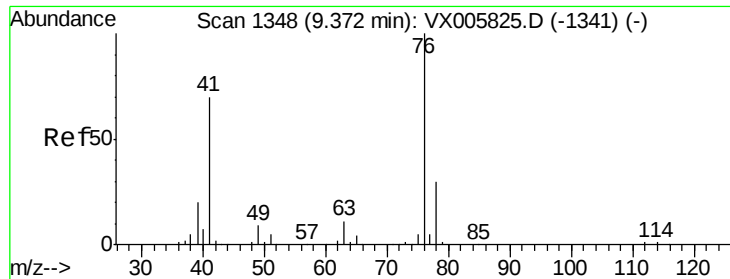
Tot Ion: 43 Resp: 32289
Ion Ratio Lower Upper
43 100
58 8.0 29.7 44.5#



#54
cis-1,3-Dichloropropene
Concen: 7.083 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. 0.19 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

Tgt Ion: 75 Resp: 14870
Ion Ratio Lower Upper
75 100
77 0.8 25.2 37.8#
39 29.3 38.2 57.2#





#57

1,3-Dichloropropane

Concen: 1.241 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006097.D

Acq: 19 Nov 2018 17:54

Instrument :

MSVOA_X

ClientSampleId :

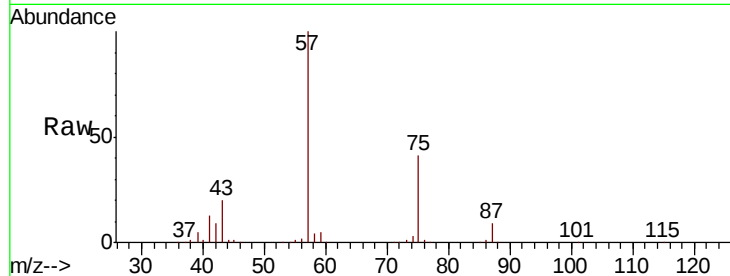
LR-RBR-200029

Tot Ion: 76 Resp: 3151

Ion Ratio Lower Upper

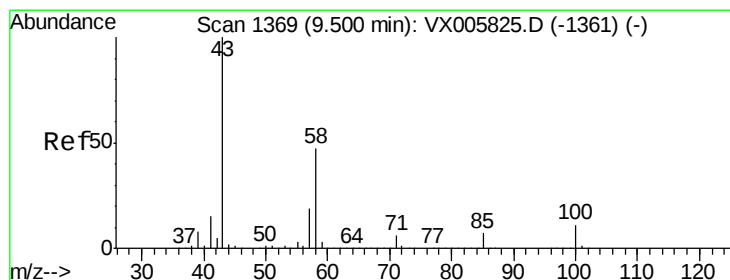
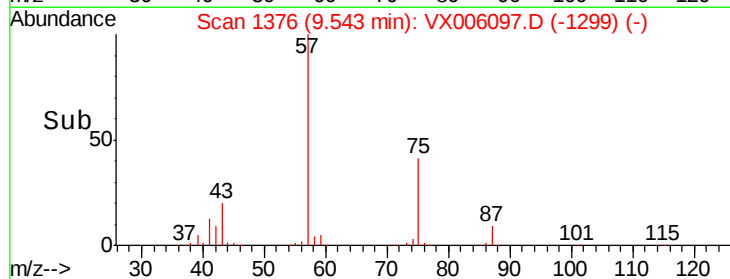
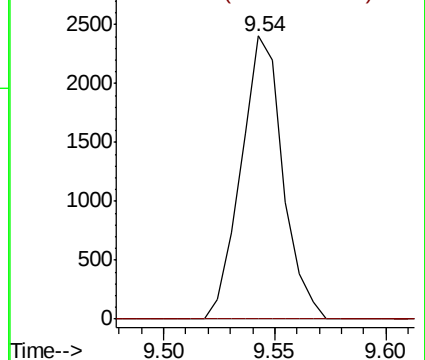
76 100

78 0.0 25.3 37.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 20.525 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VX006097.D

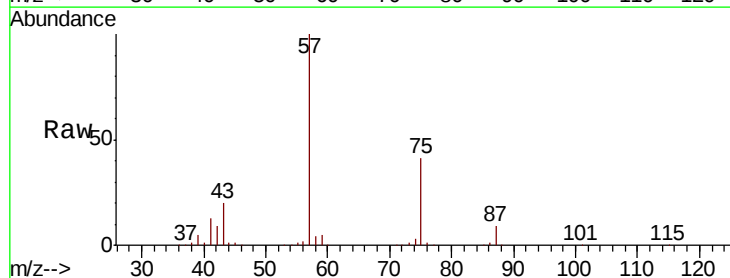
Acq: 19 Nov 2018 17:54

Tgt Ion: 43 Resp: 45194

Ion Ratio Lower Upper

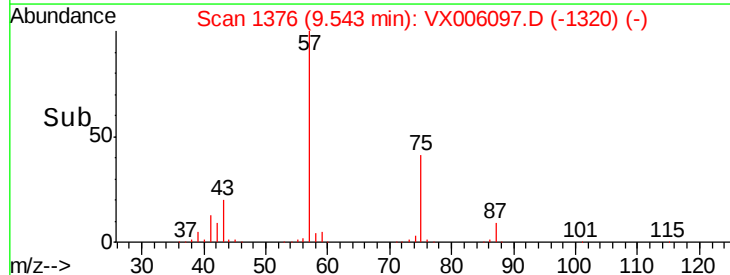
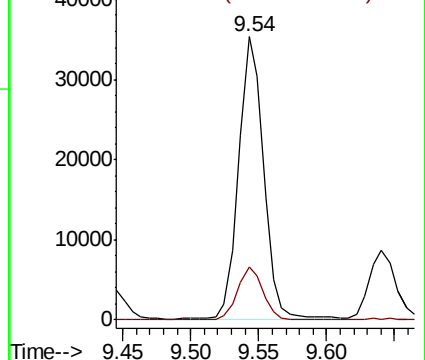
43 100

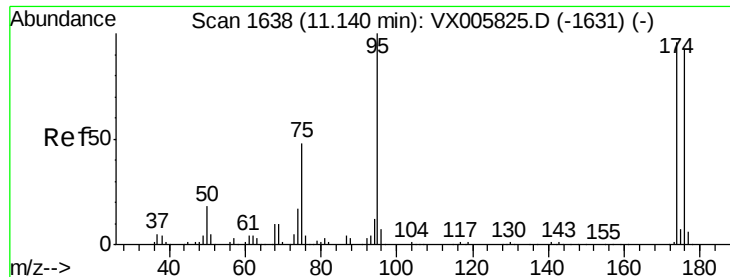
58 19.1 25.9 77.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

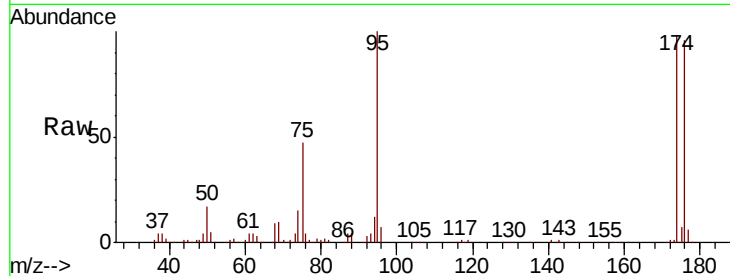




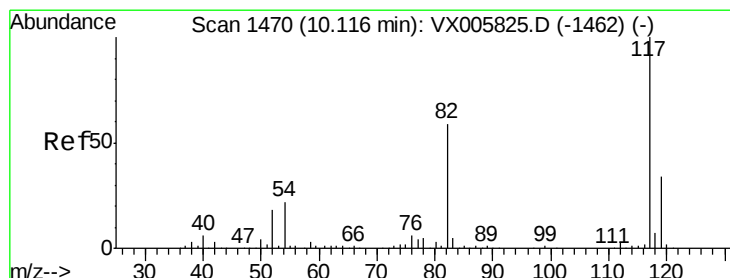
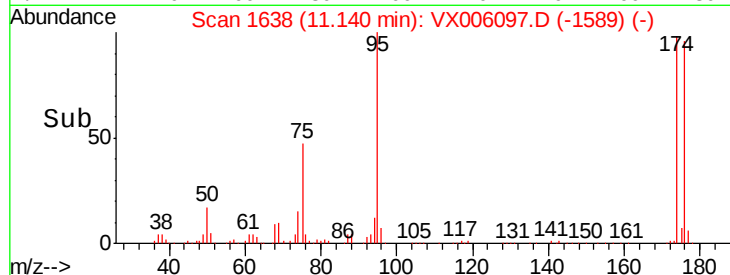
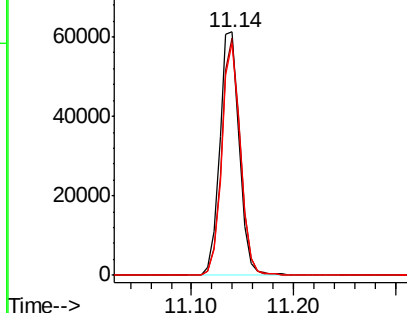
#62
4-Bromofluorobenzene
Concen: 46.894 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

Instrument :
MSVOA_X
ClientSampleId :
LR-RBR-200029

Tot Ion: 95 Resp: 82260
Ion Ratio Lower Upper
95 100
174 92.5 0.0 184.4
176 90.3 0.0 177.4

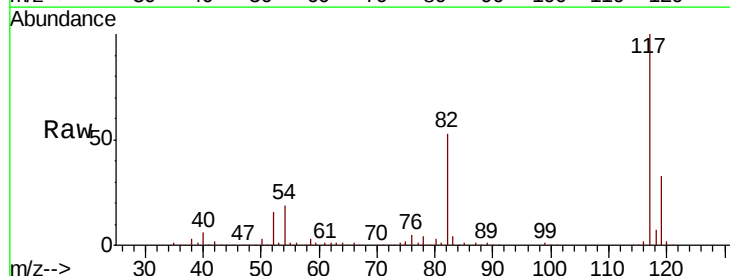


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

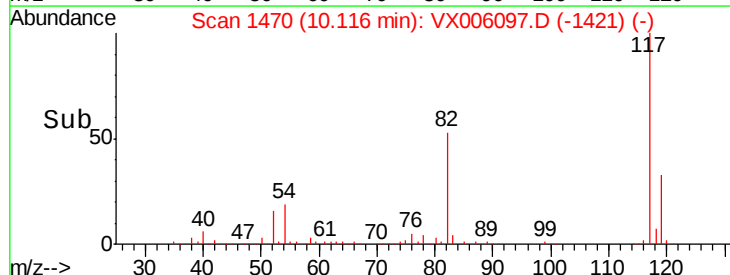
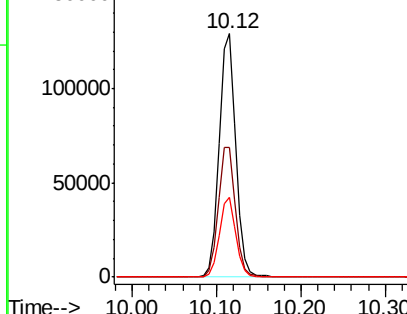


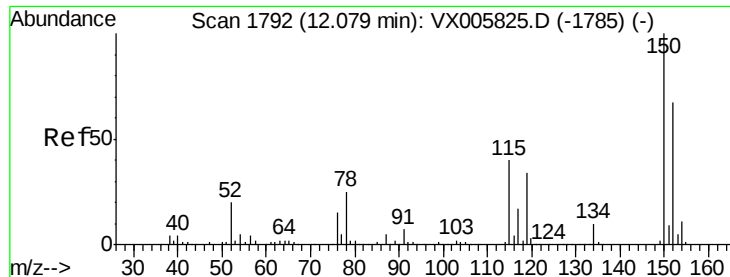
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

Tgt Ion: 117 Resp: 176763
Ion Ratio Lower Upper
117 100
82 53.1 44.1 66.1
119 32.6 26.2 39.2



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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006097.D

Acq: 19 Nov 2018 17:54

Instrument :

MSVOA_X

ClientSampleId :

LR-RBR-200029

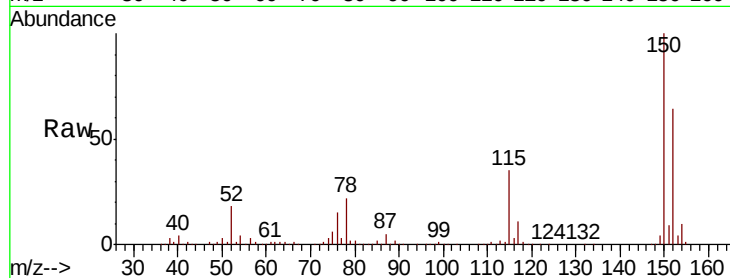
Tot Ion:152 Resp: 88285

Ion Ratio Lower Upper

152 100

115 55.5 39.4 118.1

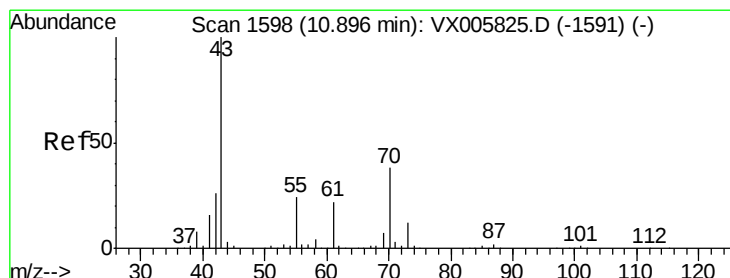
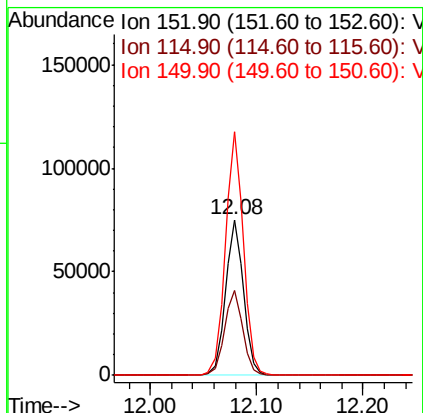
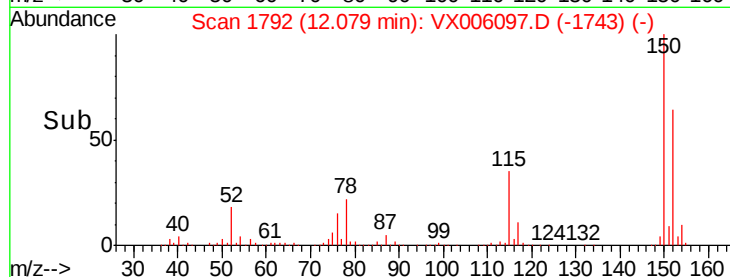
150 156.9 0.0 346.4



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



#74

N-ethyl acetate

Concen: 1.289 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. 0.01 min

Lab File: VX006097.D

Acq: 19 Nov 2018 17:54

Tgt Ion: 43 Resp: 112

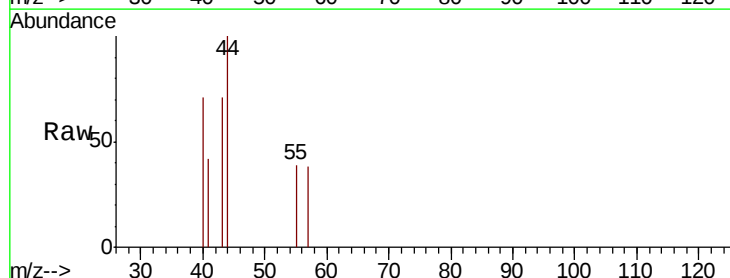
Ion Ratio Lower Upper

43 100

70 0.0 31.6 47.4#

55 124.1 19.7 29.5#

61 0.0 18.3 27.5#

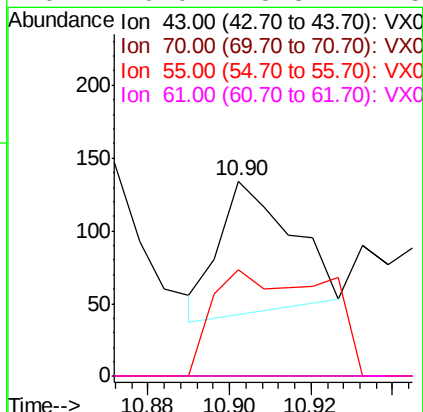
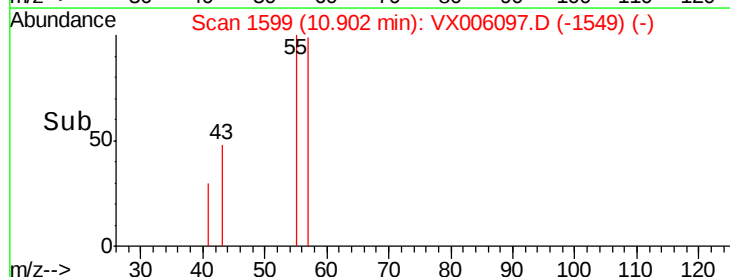


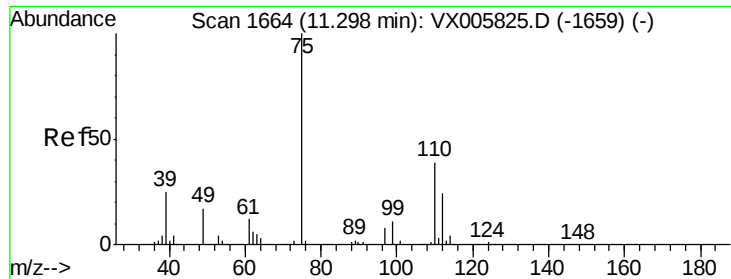
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

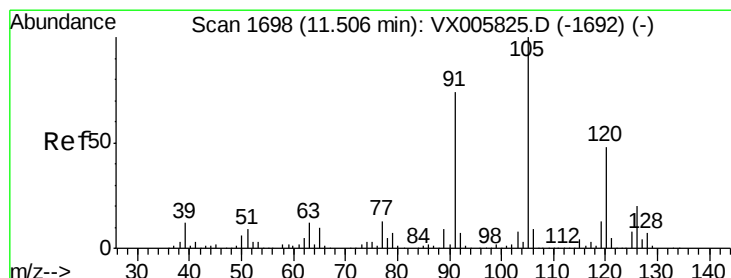
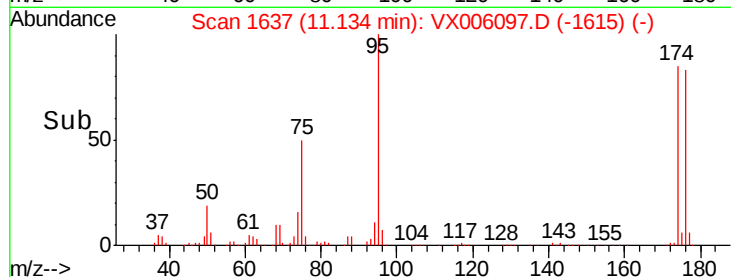
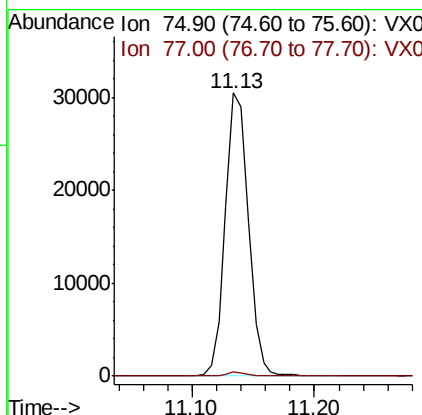
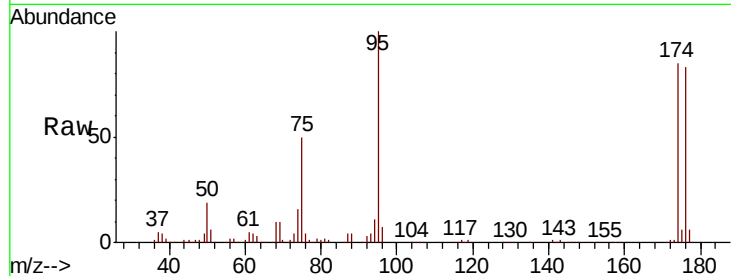




#76
 1,2,3-Trichloropropane
 Concen: 22.323 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006097.D
 Acq: 19 Nov 2018 17:54

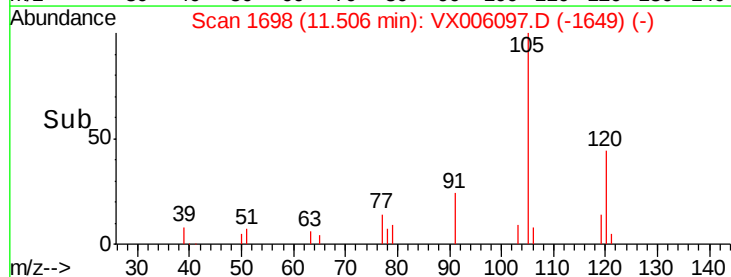
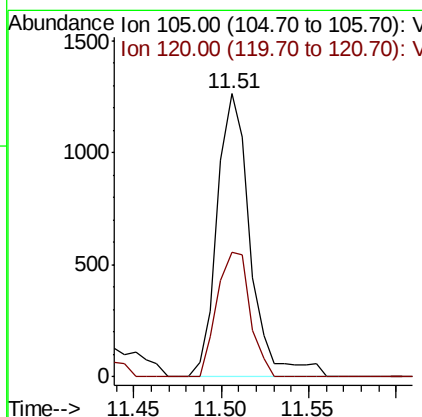
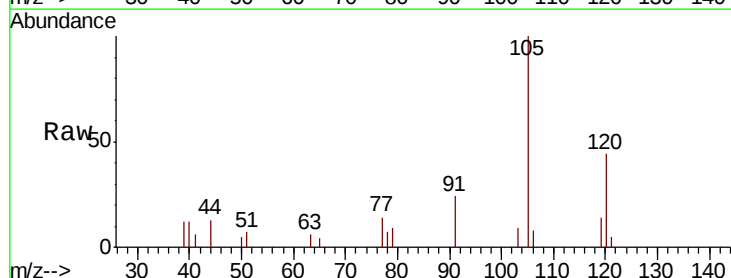
Instrument :
 MSVOA_X
 ClientSampleId :
 LR-RBR-200029

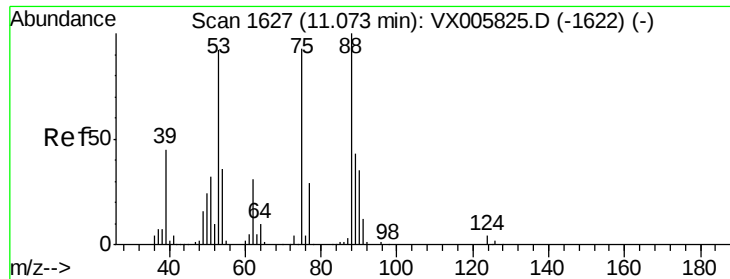
Tot Ion: 75 Resp: 40130
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.5 61.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.386 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX006097.D
 Acq: 19 Nov 2018 17:54

Tgt Ion: 105 Resp: 1673
 Ion Ratio Lower Upper
 105 100
 120 43.8 24.1 72.2

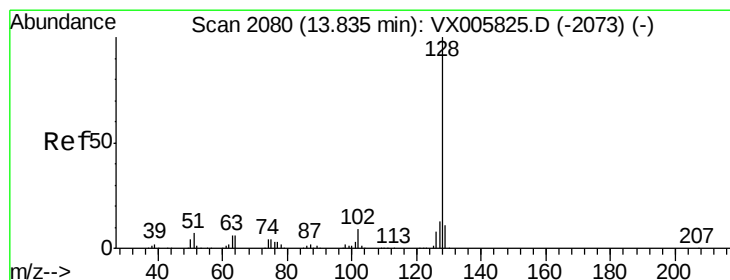
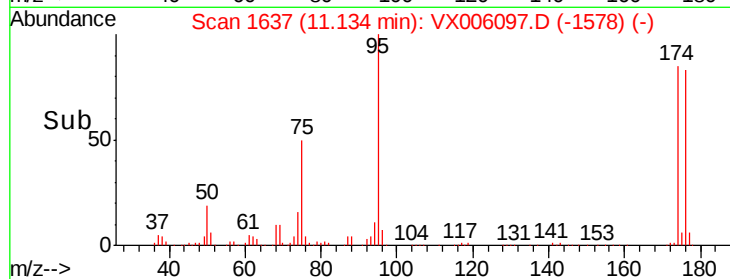
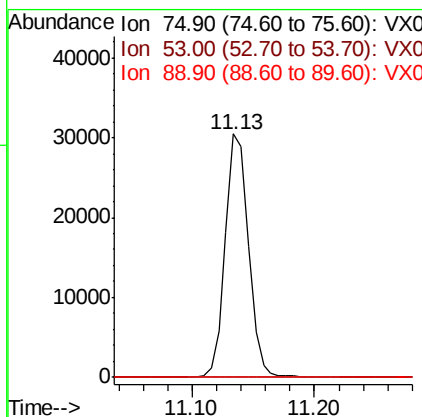
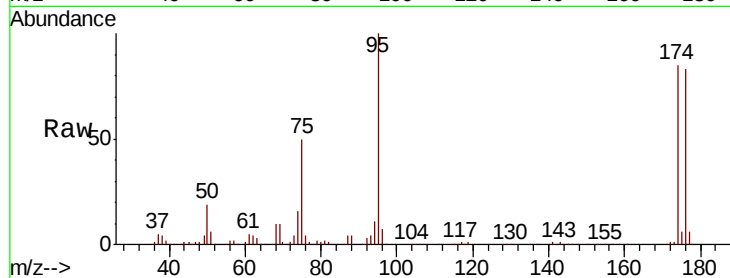




#81
trans-1,4-Dichloro-2-butene
Concen: 71.148 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

Instrument :
MSVOA_X
ClientSampleId :
LR-RBR-200029

Tot Ion: 75 Resp: 40130
Ion Ratio Lower Upper
75 100
53 0.0 80.2 120.2#
89 0.0 39.8 59.8#



#95
Naphthalene
Concen: 3.561 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX006097.D
Acq: 19 Nov 2018 17:54

Tgt Ion: 128 Resp: 15503
Ion Ratio Lower Upper
128 100
127 13.8 10.4 15.6
129 11.2 8.7 13.1

