

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071719\
 Data File : VX010934.D
 Acq On : 17 Jul 2019 14:33
 Operator : JC/SP
 Sample : K3856-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01-190716

Quant Time: Jul 18 02:29:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	216593	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	347068	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	320576	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	149348	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	116985	50.77	ug/l	0.00
Spiked Amount			Recovery	=	101.54%	
35) Dibromofluoromethane	5.50	113	107513	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
50) Toluene-d8	8.71	98	413242	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	11.13	95	145696	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	

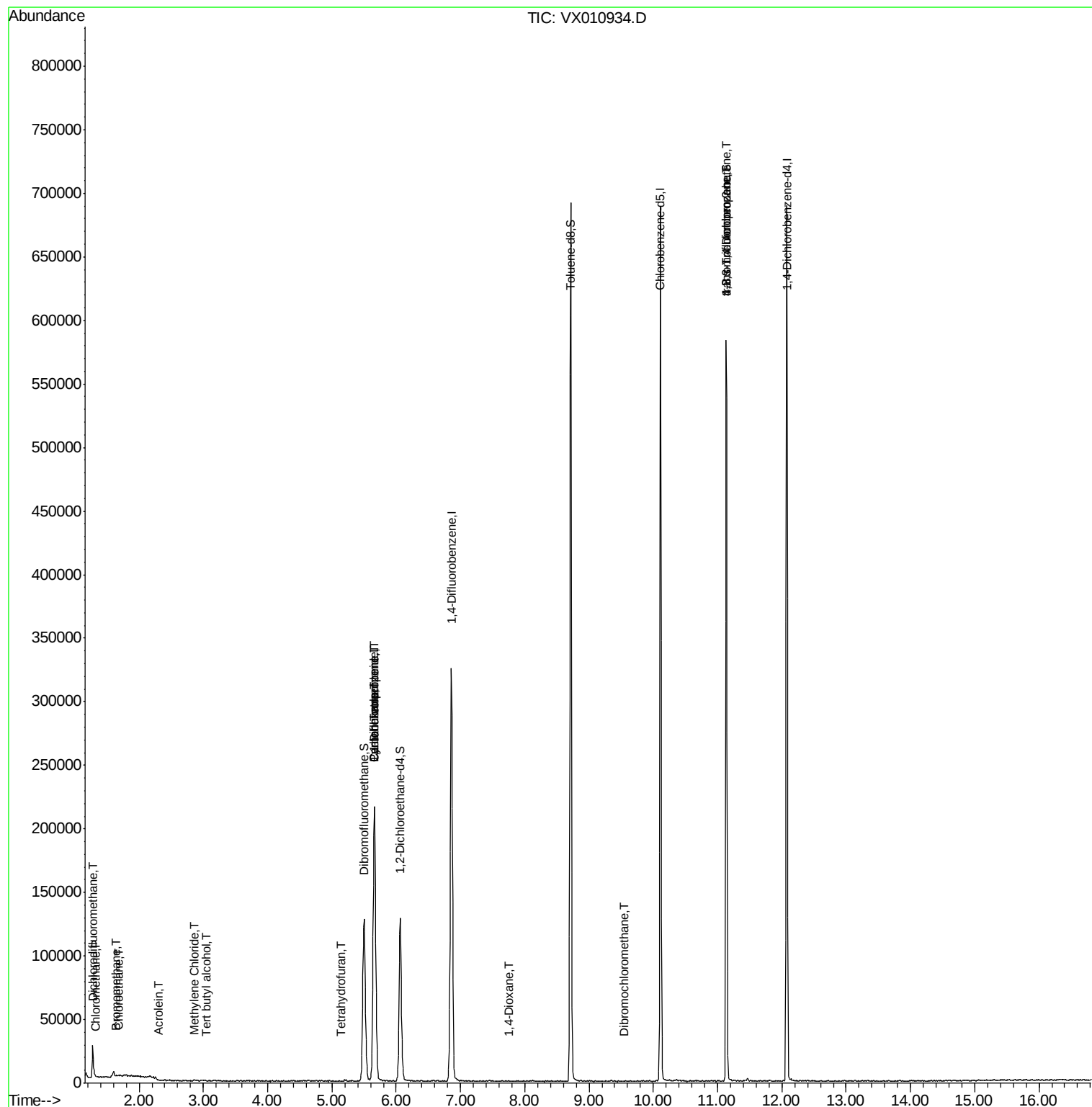
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.27	85	19	0.554	ug/l #	43
3) Chloromethane	1.33	50	496	0.249	ug/l #	54
5) Bromomethane	1.65	94	363	0.317	ug/l #	51
6) Chloroethane	1.69	64	361	0.280	ug/l #	41
11) Tert butyl alcohol	3.05	59	161	0.300	ug/l #	73
13) Acrolein	2.29	56	142	0.458	ug/l #	15
20) Methylene Chloride	2.86	84	505	0.229	ug/l #	54
29) Tetrahydrofuran	5.13	42	370	0.391	ug/l #	40
31) Cyclohexane	5.66	56	4053	1.295	ug/l #	27
36) 1,1-Dichloropropene	5.66	75	14447	5.068	ug/l #	49
38) Carbon Tetrachloride	5.66	117	20285	6.828	ug/l #	19
49) 1,4-Dioxane	7.76	88	20	0.306	ug/l #	27
60) Dibromochloromethane	9.55	129	19	2.534	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	72001	26.716	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	72001	66.278	ug/l #	11

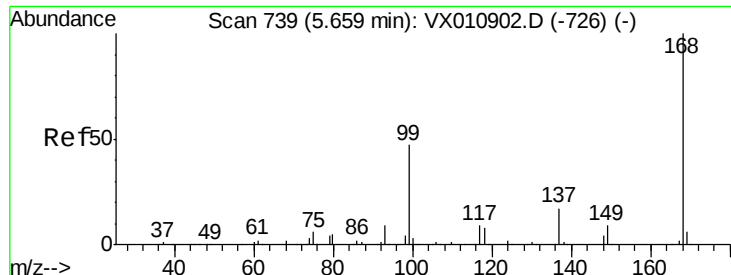
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 17 06:57:45 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX010934.D

Acq: 17 Jul 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

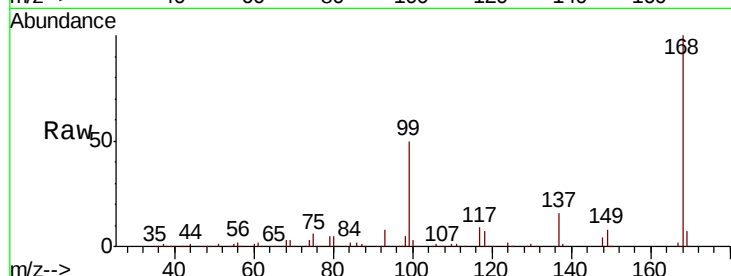
TB-01-190716

Tot Ion:168 Resp: 216593

Ion Ratio Lower Upper

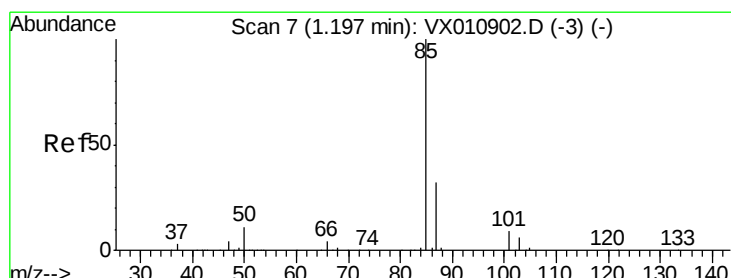
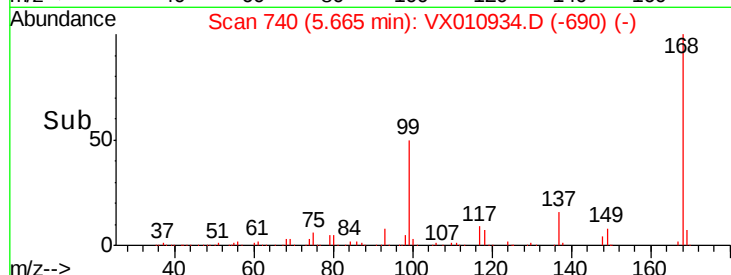
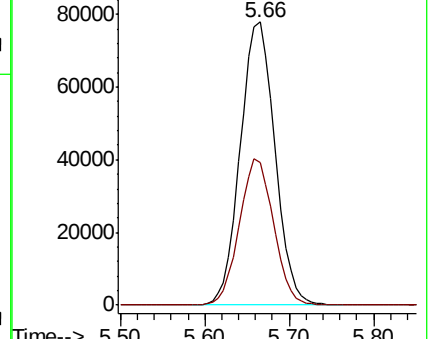
168 100

99 50.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.554 ug/l

RT: 1.27 min Scan# 19

Delta R.T. 0.07 min

Lab File: VX010934.D

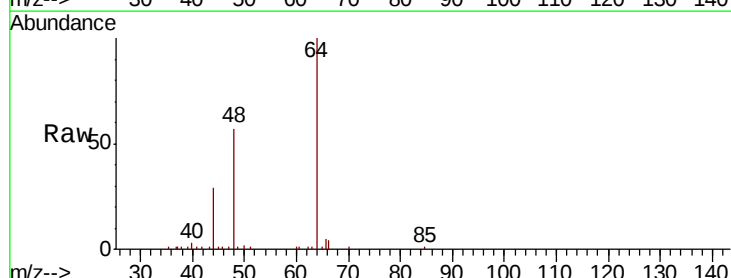
Acq: 17 Jul 2019 14:33

Tgt Ion: 85 Resp: 19

Ion Ratio Lower Upper

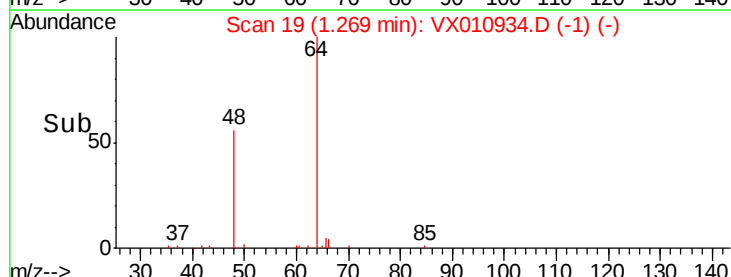
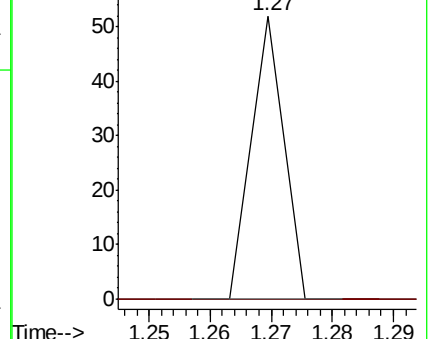
85 100

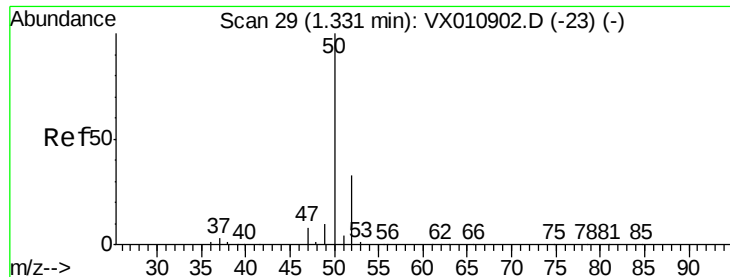
87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.249 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010934.D

Acq: 17 Jul 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

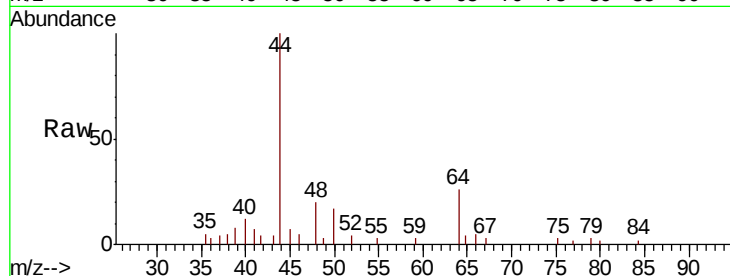
TB-01-190716

Tot Ion: 50 Resp: 496

Ion Ratio Lower Upper

50 100

52 7.3 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

400

300

200

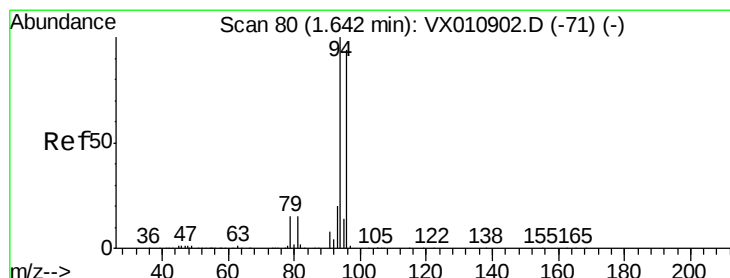
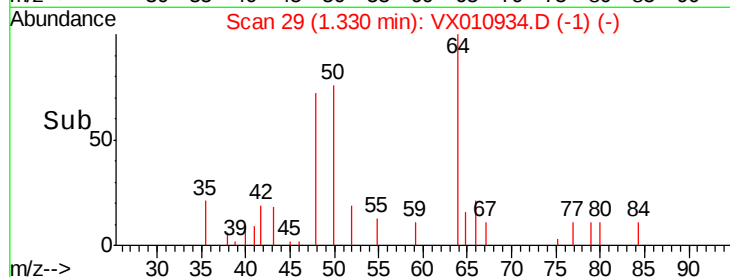
100

0

1.30

1.35

Time-->



#5

Bromomethane

Concen: 0.317 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010934.D

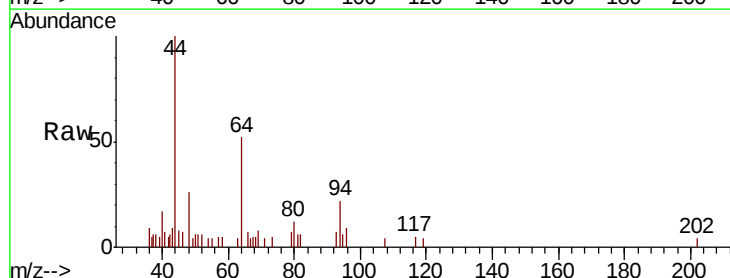
Acq: 17 Jul 2019 14:33

Tgt Ion: 94 Resp: 363

Ion Ratio Lower Upper

94 100

96 47.2 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

200

100

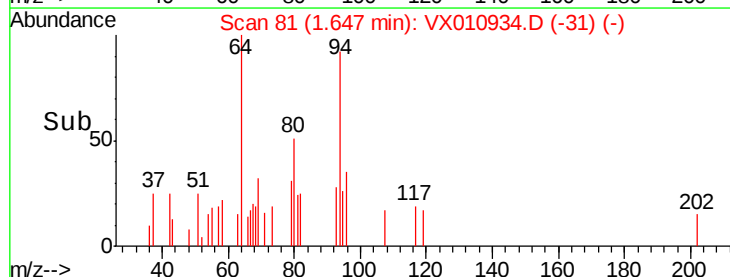
0

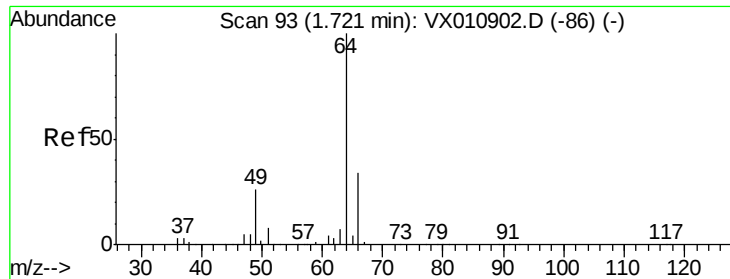
1.60

1.65

1.70

Time-->





#6

Chloroethane

Concen: 0.280 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.03 min

Lab File: VX010934.D

Acq: 17 Jul 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

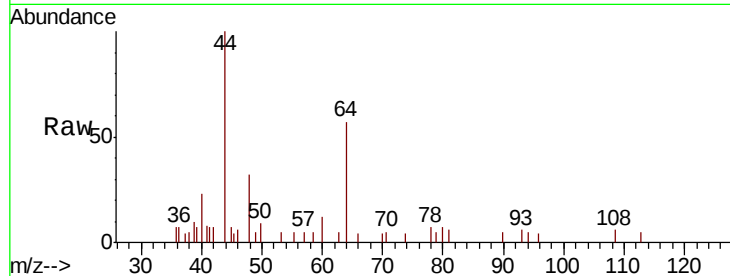
TB-01-190716

Tot Ion: 64 Resp: 361

Ion Ratio Lower Upper

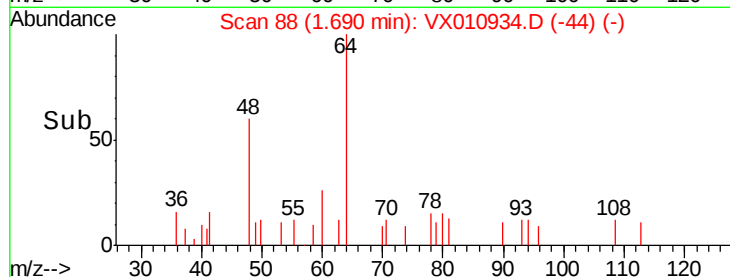
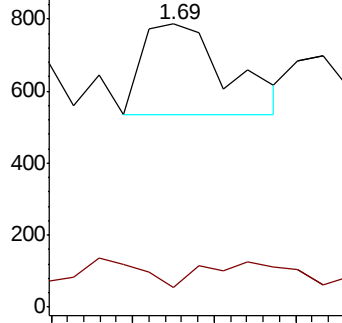
64 100

66 0.0 27.0 40.6#

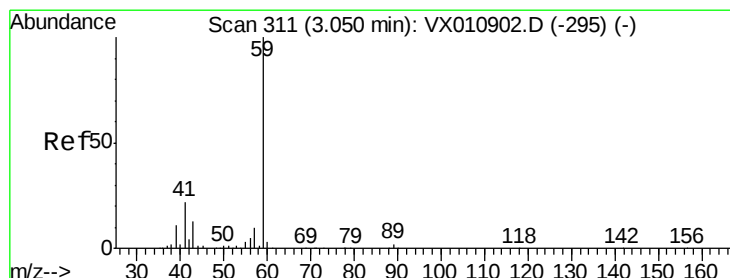


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#11

Tert butyl alcohol

Concen: 0.300 ug/l

RT: 3.05 min Scan# 311

Delta R.T. -0.00 min

Lab File: VX010934.D

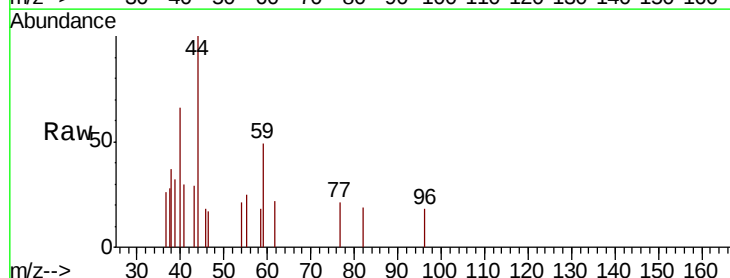
Acq: 17 Jul 2019 14:33

Tgt Ion: 59 Resp: 161

Ion Ratio Lower Upper

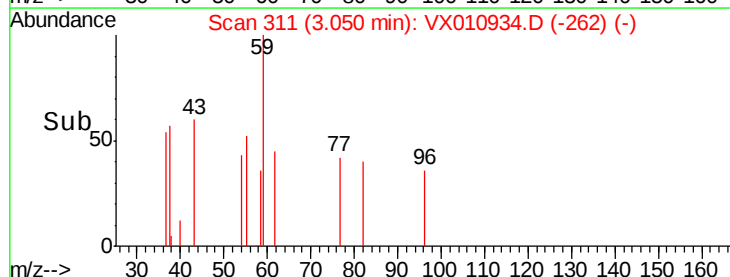
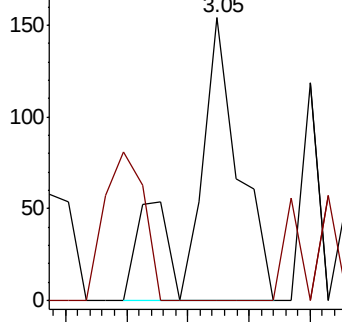
59 100

57 0.0 7.9 11.9#

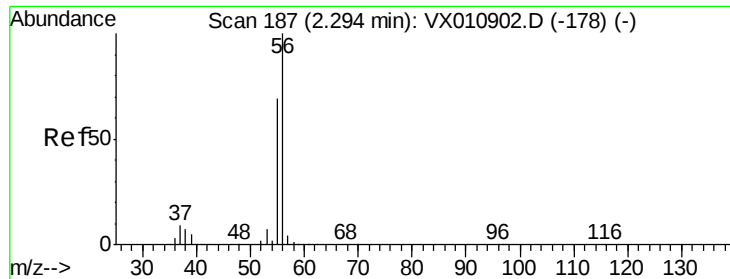


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#13

Acrolein

Concen: 0.458 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX010934.D

Acq: 17 Jul 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

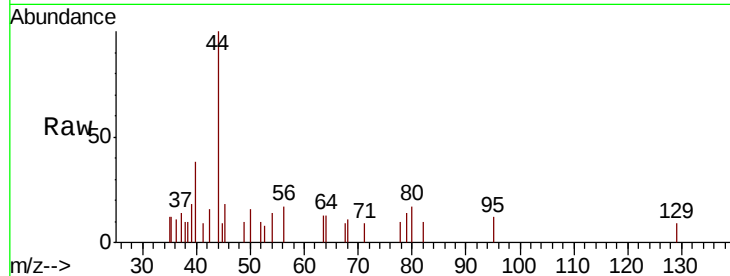
TB-01-190716

Tot Ion: 56 Resp: 142

Ion Ratio Lower Upper

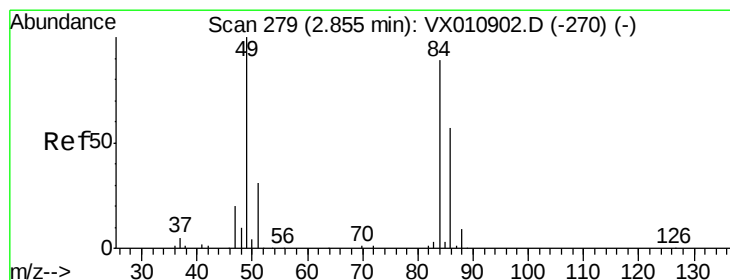
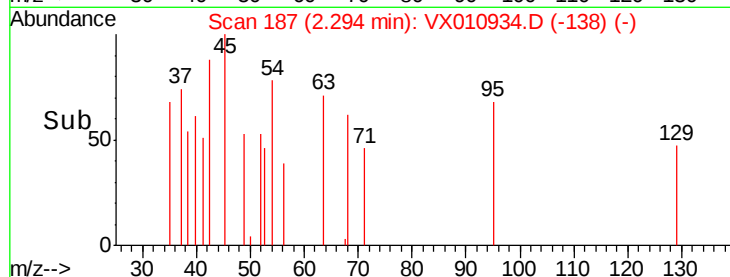
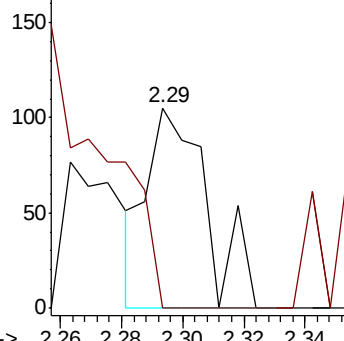
56 100

55 0.0 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#20

Methylene Chloride

Concen: 0.229 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX010934.D

Acq: 17 Jul 2019 14:33

Tgt Ion: 84 Resp: 505

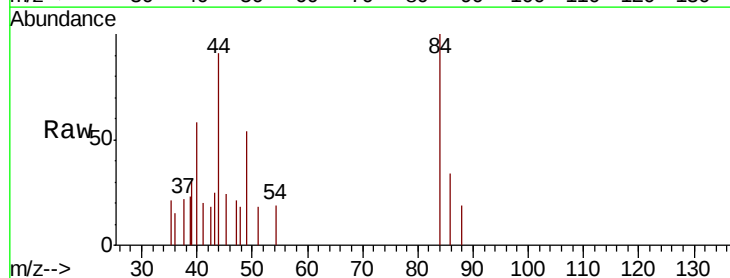
Ion Ratio Lower Upper

84 100

49 54.0 89.9 134.9#

51 18.1 27.8 41.6#

86 34.0 51.8 77.6#

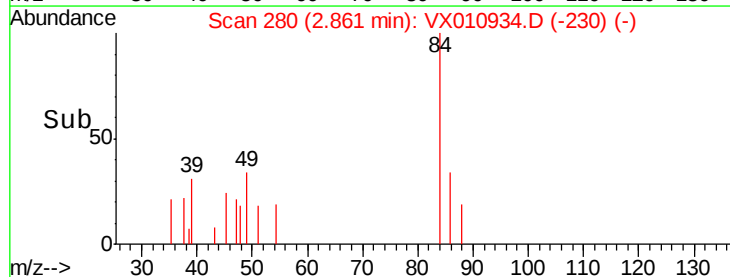
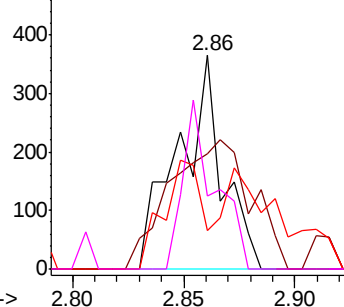


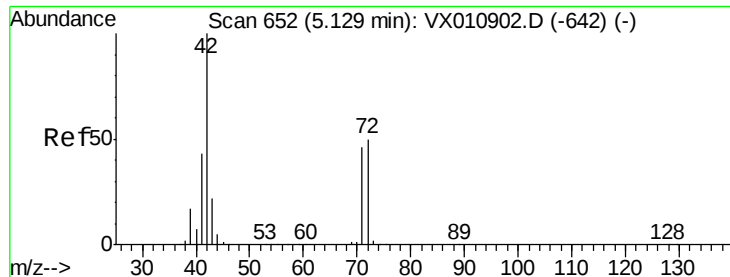
Abundance Ion 83.90 (83.60 to 84.60): VX0

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

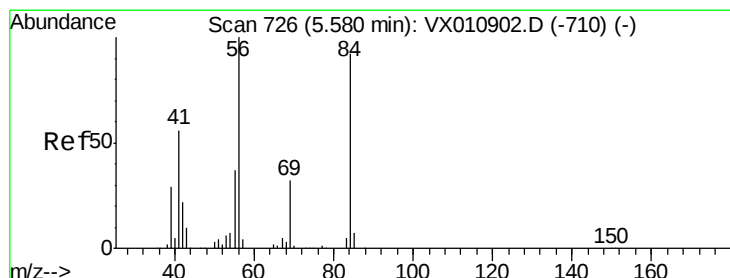
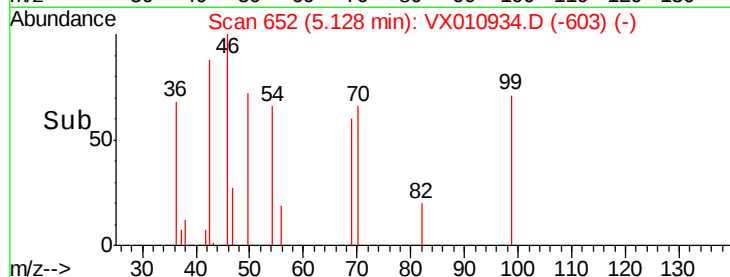
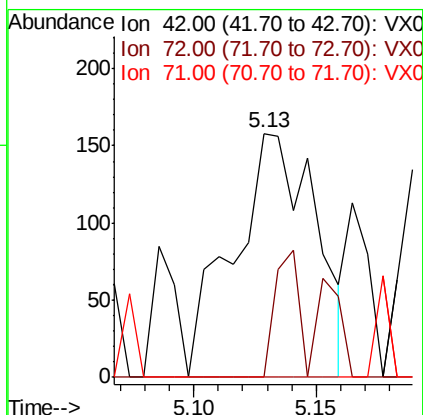
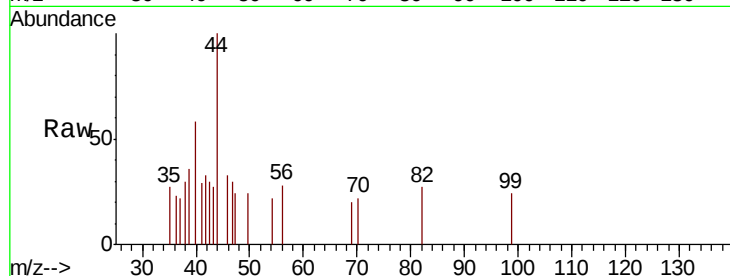




#29
Tetrahydrofuran
Concen: 0.391 ug/l
RT: 5.13 min Scan# 652
Delta R.T. -0.00 min
Lab File: VX010934.D
Acq: 17 Jul 2019 14:33

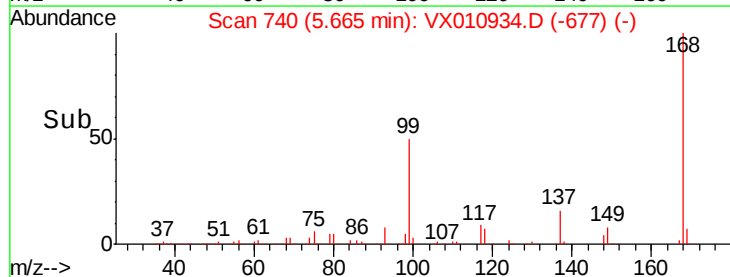
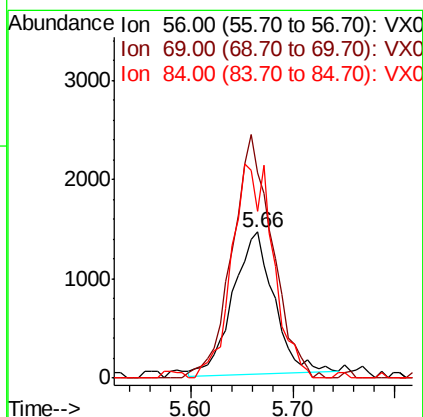
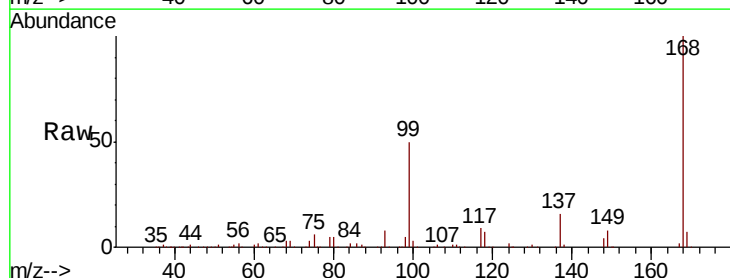
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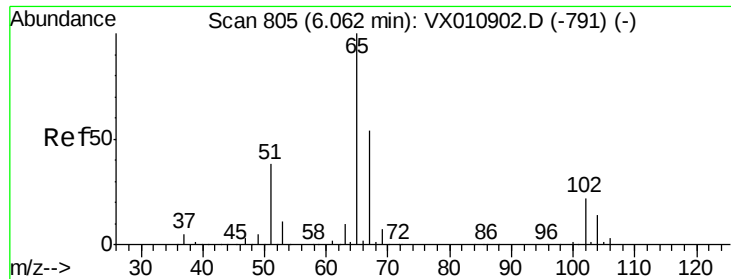
Tot Ion: 42 Resp: 370
Ion Ratio Lower Upper
42 100
72 15.1 39.8 59.8#
71 0.0 37.0 55.4#



#31
Cyclohexane
Concen: 1.295 ug/l
RT: 5.66 min Scan# 740
Delta R.T. 0.08 min
Lab File: VX010934.D
Acq: 17 Jul 2019 14:33

Tgt Ion: 56 Resp: 4053
Ion Ratio Lower Upper
56 100
69 146.2 25.8 38.8#
84 118.9 73.8 110.6#

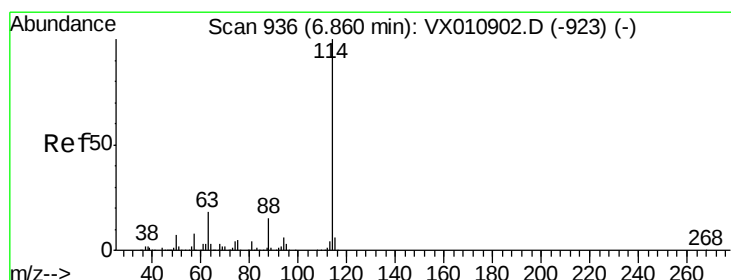
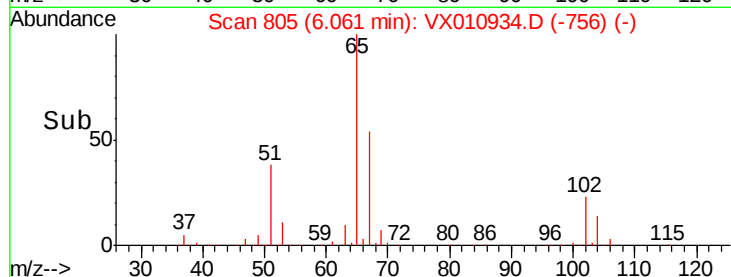
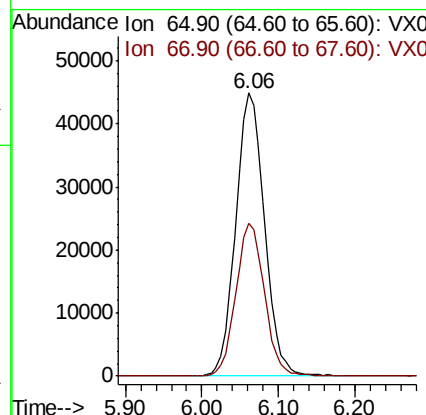
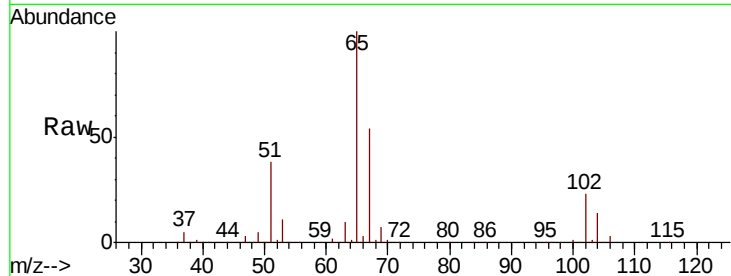




#33
 1,2-Dichloroethane-d4
 Concen: 50.770 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX010934.D
 Acq: 17 Jul 2019 14:33

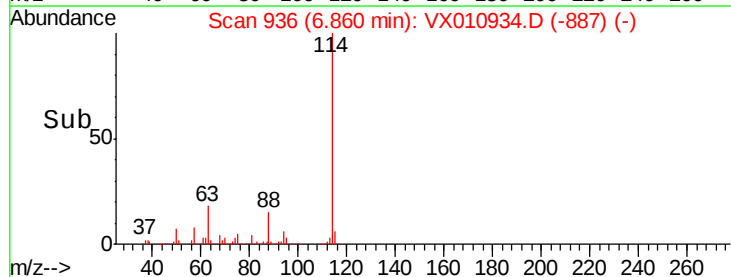
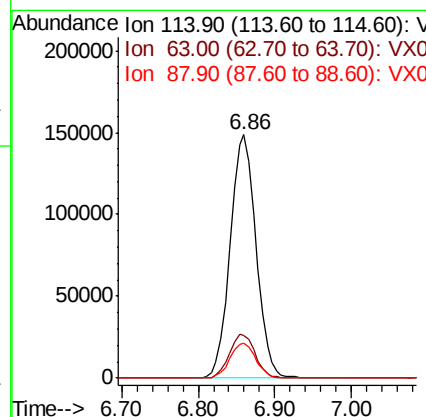
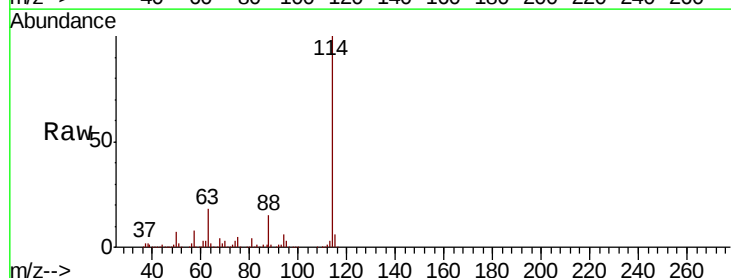
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 MSVOA_X
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 TB-01-190716

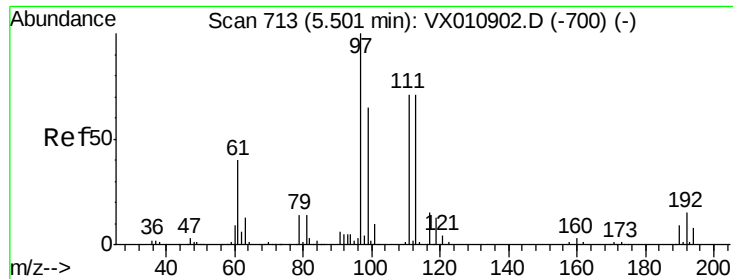
Tot Ion: 65 Resp: 116985
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX010934.D
 Acq: 17 Jul 2019 14:33

Tgt Ion: 114 Resp: 347068
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 35.6
 88 14.6 0.0 29.8

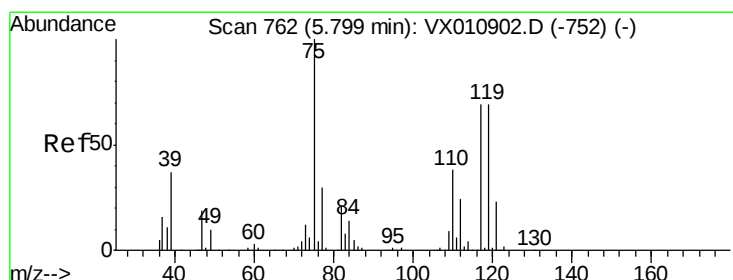
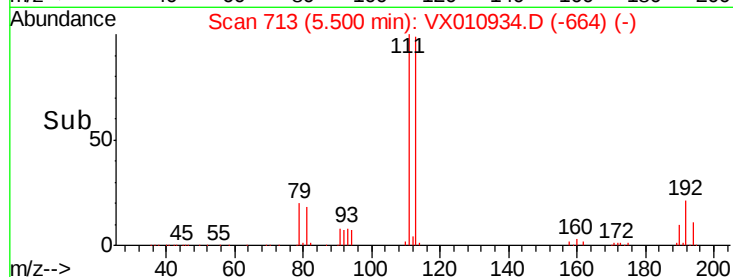
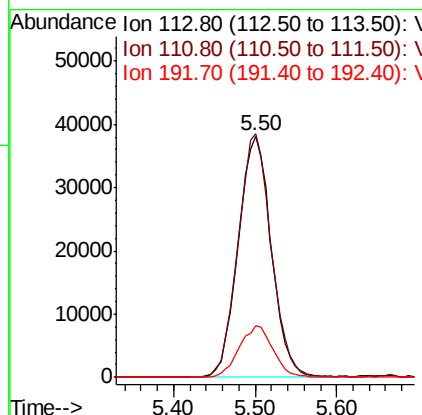
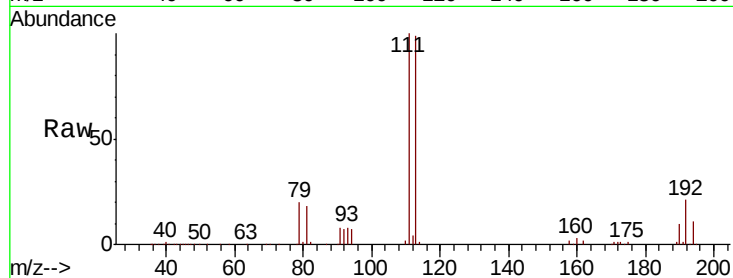




#35
Dibromofluoromethane
Concen: 48.805 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX010934.D
Acq: 17 Jul 2019 14:33

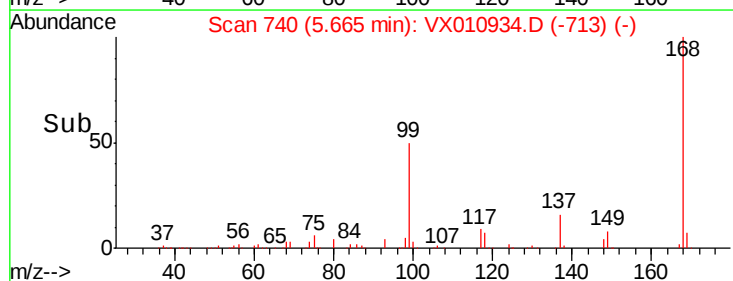
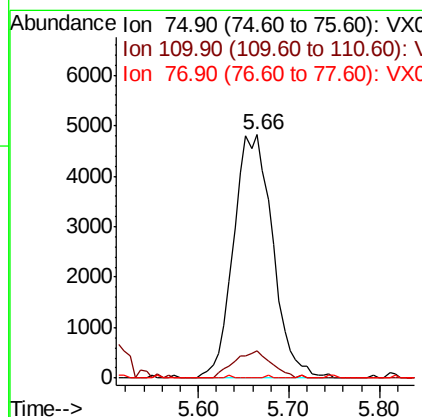
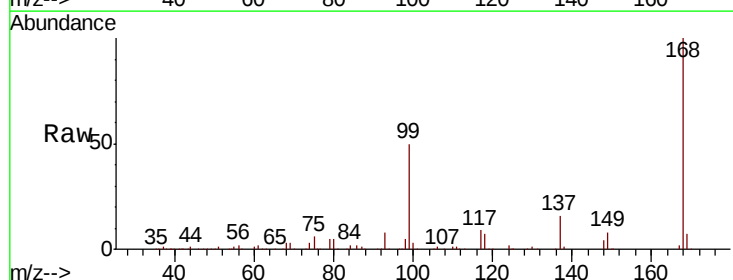
Instrument :
MSVOA_X
ClientSampleId :
TB-01-190716

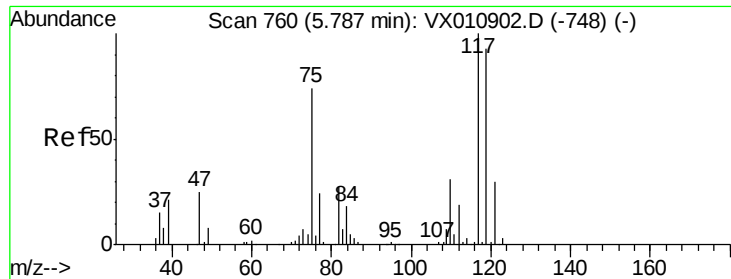
Tot Ion:113 Resp: 107513
Ion Ratio Lower Upper
113 100
111 100.8 82.3 123.5
192 21.8 17.4 26.2



#36
1,1-Dichloropropene
Concen: 5.068 ug/l
RT: 5.66 min Scan# 740
Delta R.T. -0.13 min
Lab File: VX010934.D
Acq: 17 Jul 2019 14:33

Tgt Ion: 75 Resp: 14447
Ion Ratio Lower Upper
75 100
110 10.7 19.9 59.7#
77 0.1 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.828 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010934.D

Acq: 17 Jul 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190716

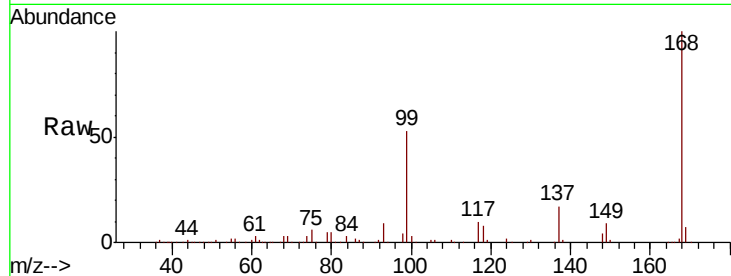
Tot Ion:117 Resp: 20285

Ion Ratio Lower Upper

117 100

119 6.8 74.2 111.2#

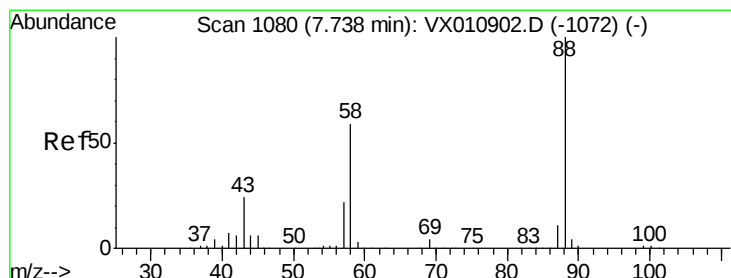
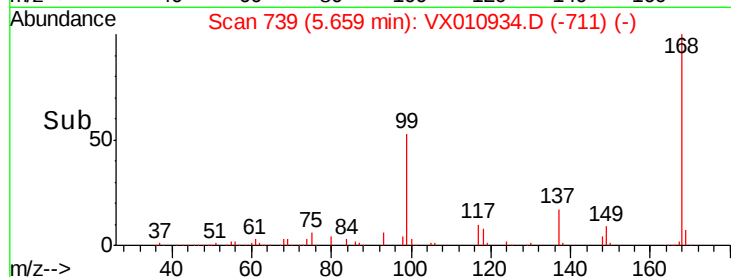
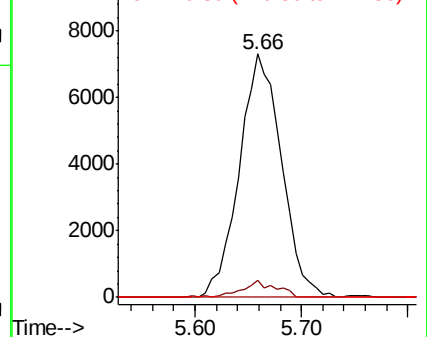
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 0.306 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VX010934.D

Acq: 17 Jul 2019 14:33

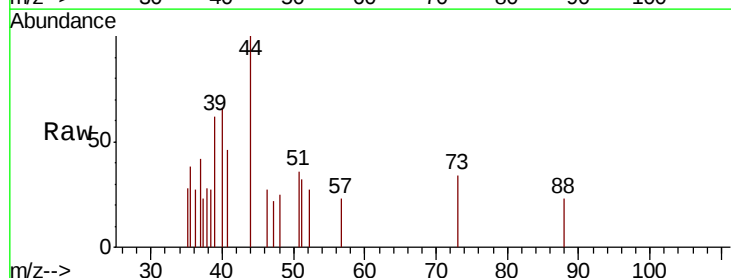
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 95.0 22.9 34.3#

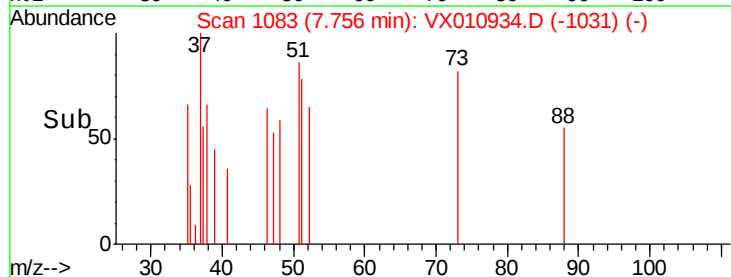
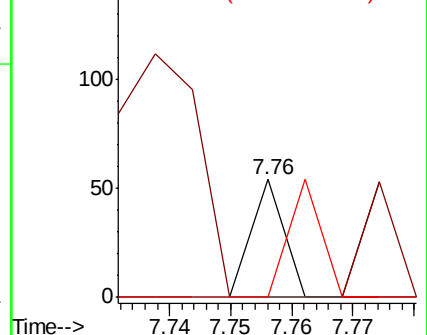
58 100.0 49.8 74.8#

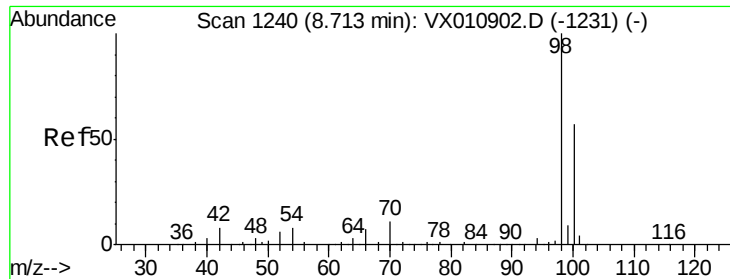


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.015 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010934.D

Acq: 17 Jul 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

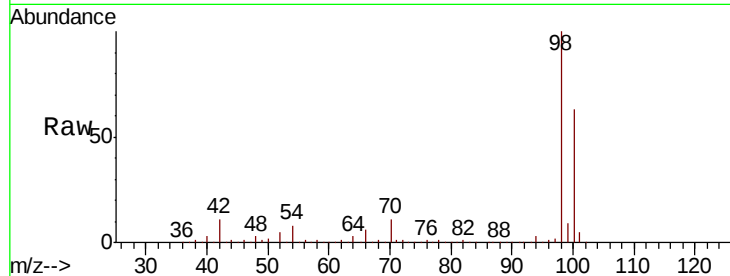
TB-01-190716

Tot Ion: 98 Resp: 413242

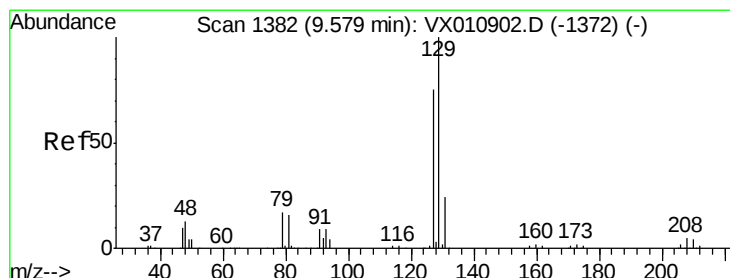
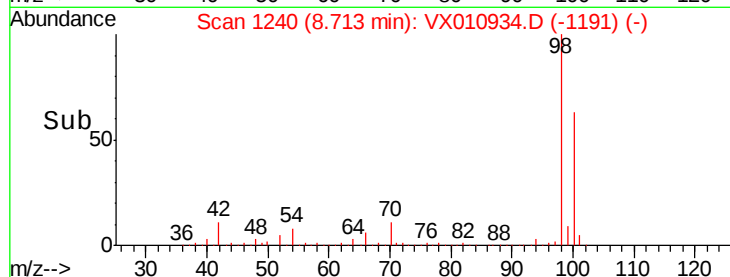
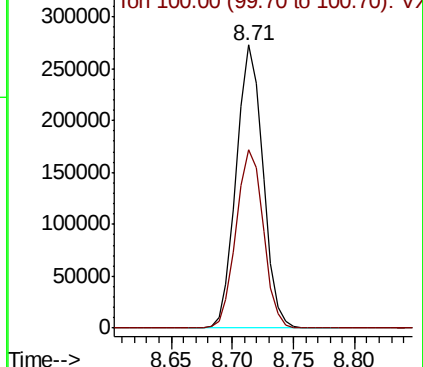
Ion Ratio Lower Upper

98 100

100 64.4 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX010902.D (-1231) (-)



#60

Dibromochloromethane

Concen: 2.534 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. -0.03 min

Lab File: VX010934.D

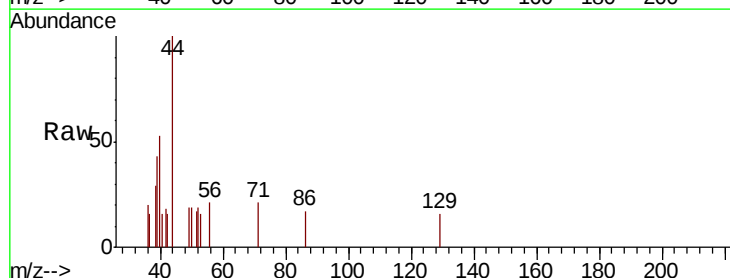
Acq: 17 Jul 2019 14:33

Tgt Ion: 129 Resp: 19

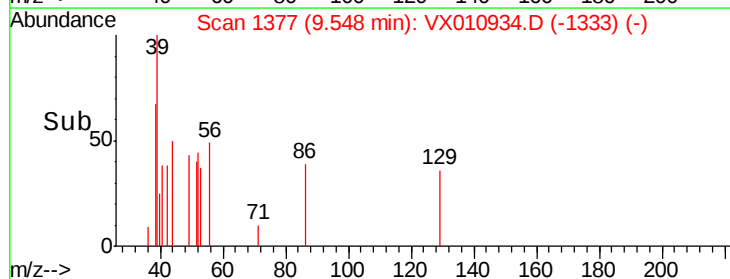
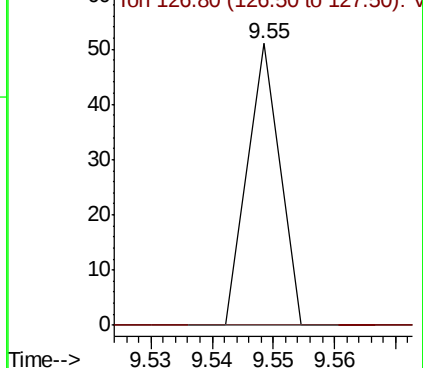
Ion Ratio Lower Upper

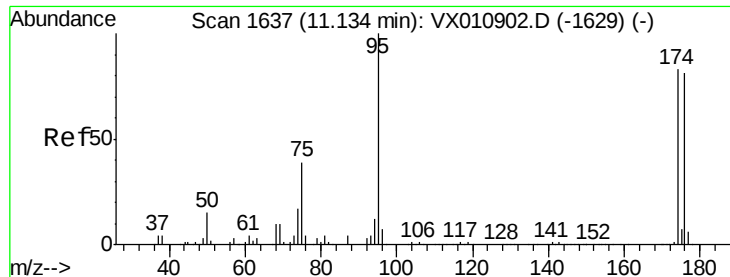
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VX010902.D (-1372) (-)





#62

4-Bromofluorobenzene

Concen: 47.974 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010934.D

Acq: 17 Jul 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190716

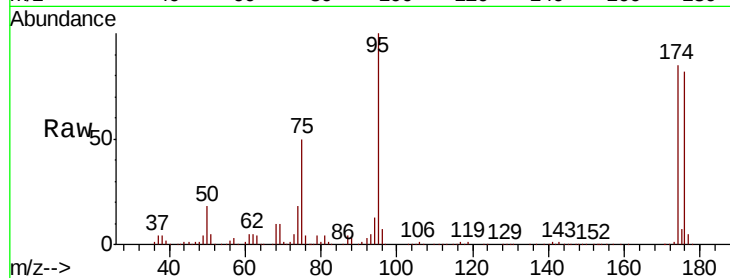
Tot Ion: 95 Resp: 145696

Ion Ratio Lower Upper

95 100

174 91.5 0.0 180.6

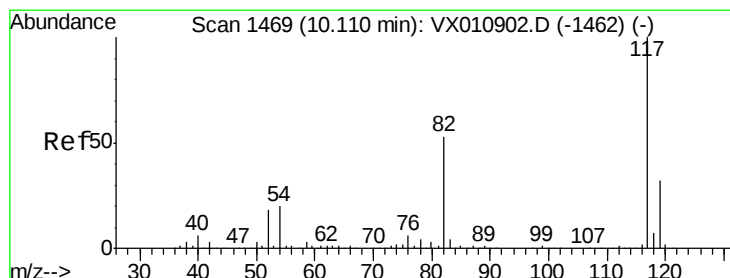
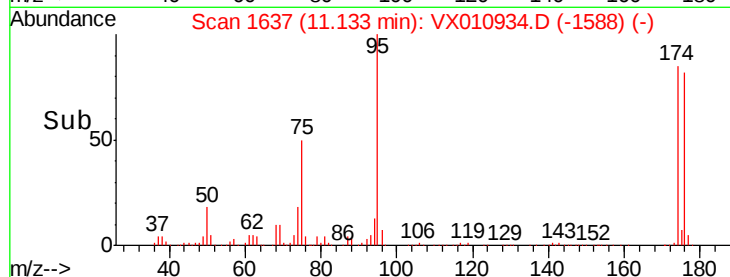
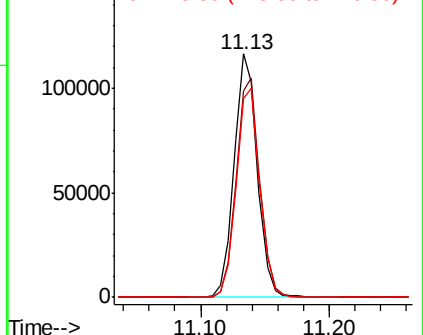
176 87.5 0.0 173.8



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: VX010934.D

Acq: 17 Jul 2019 14:33

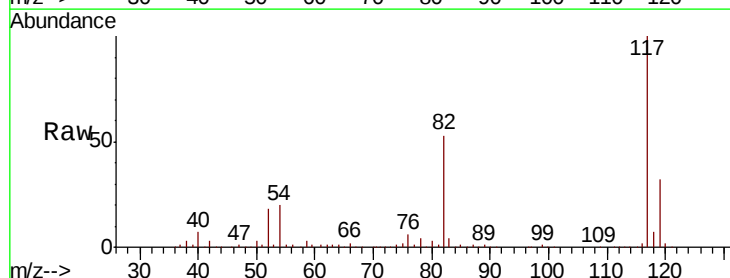
Tgt Ion: 117 Resp: 320576

Ion Ratio Lower Upper

117 100

82 53.4 42.6 63.8

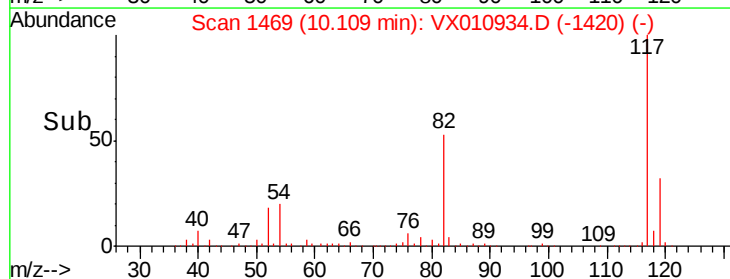
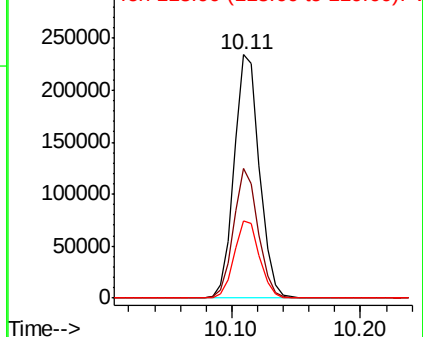
119 31.6 25.9 38.9

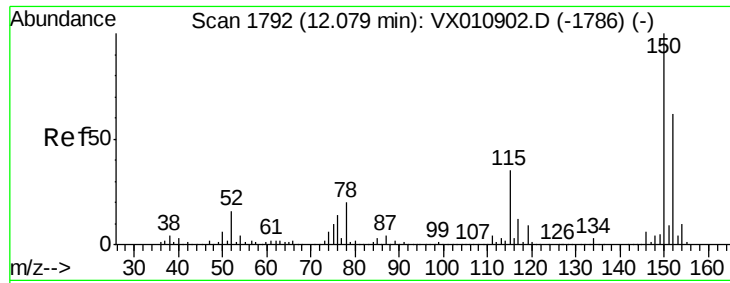


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX010934.D

Acq: 17 Jul 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190716

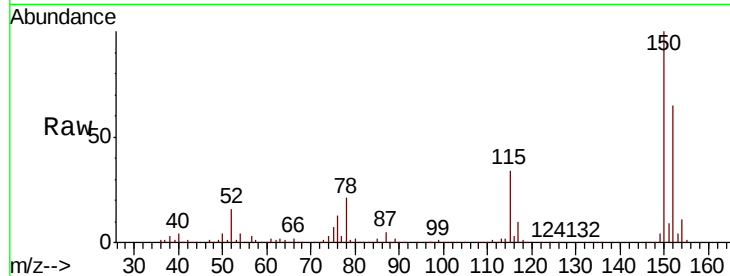
Tot Ion:152 Resp: 149348

Ion Ratio Lower Upper

152 100

115 55.4 39.7 119.1

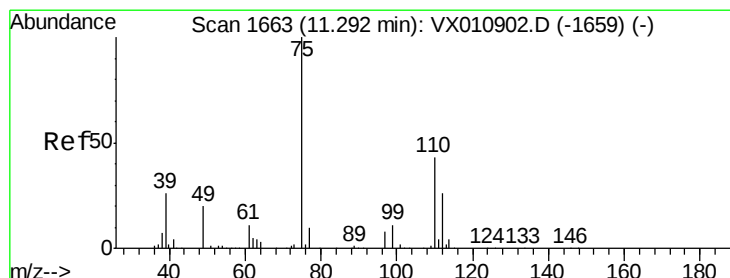
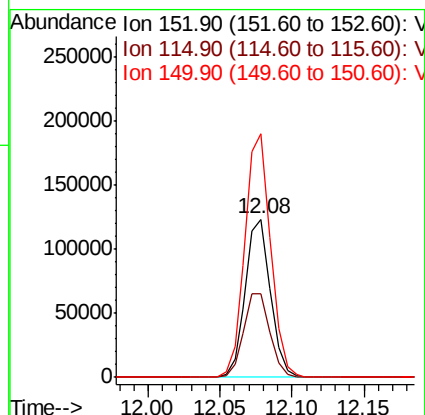
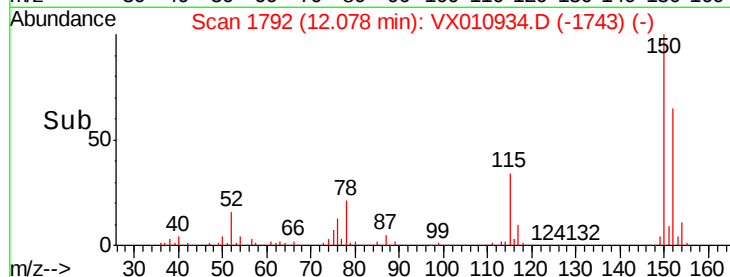
150 157.0 0.0 345.6



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: 26.716 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010934.D

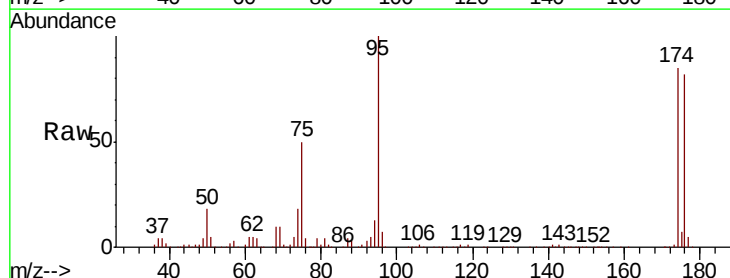
Acq: 17 Jul 2019 14:33

Tgt Ion: 75 Resp: 72001

Ion Ratio Lower Upper

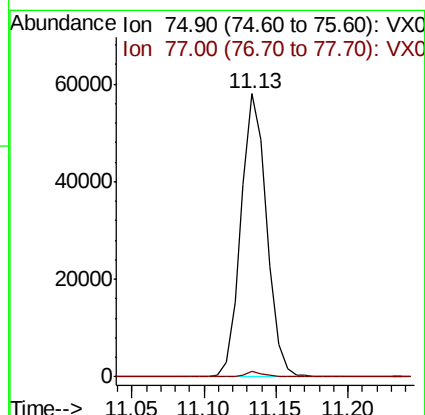
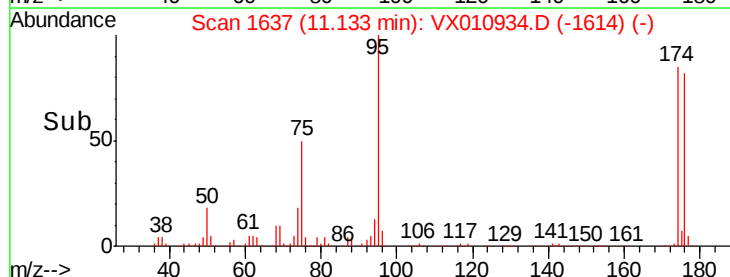
75 100

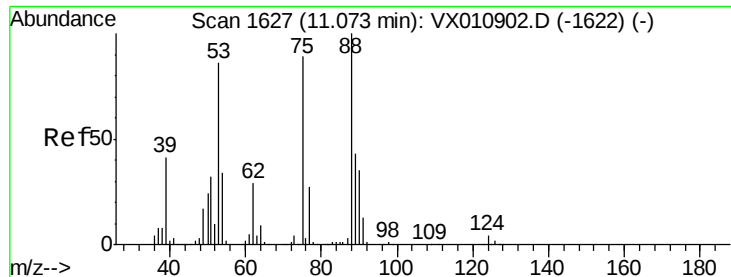
77 1.5 21.3 64.0#



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: 66.278 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010934.D

Acq: 17 Jul 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

TB-01-190716

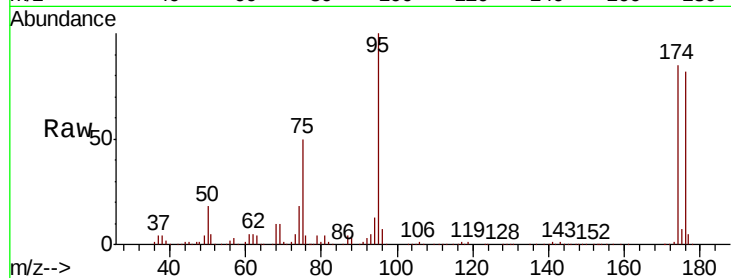
Tot Ion: 75 Resp: 72001

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#



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

