

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052319\
 Data File : VX009870.D
 Acq On : 23 May 2019 19:48
 Operator : JC/SP
 Sample : K3000-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 24 03:54:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	177172	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	284352	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	255596	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112386	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	118358	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
35) Dibromofluoromethane	5.50	113	85880	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
50) Toluene-d8	8.71	98	358558	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
62) 4-Bromofluorobenzene	11.13	95	124145	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	

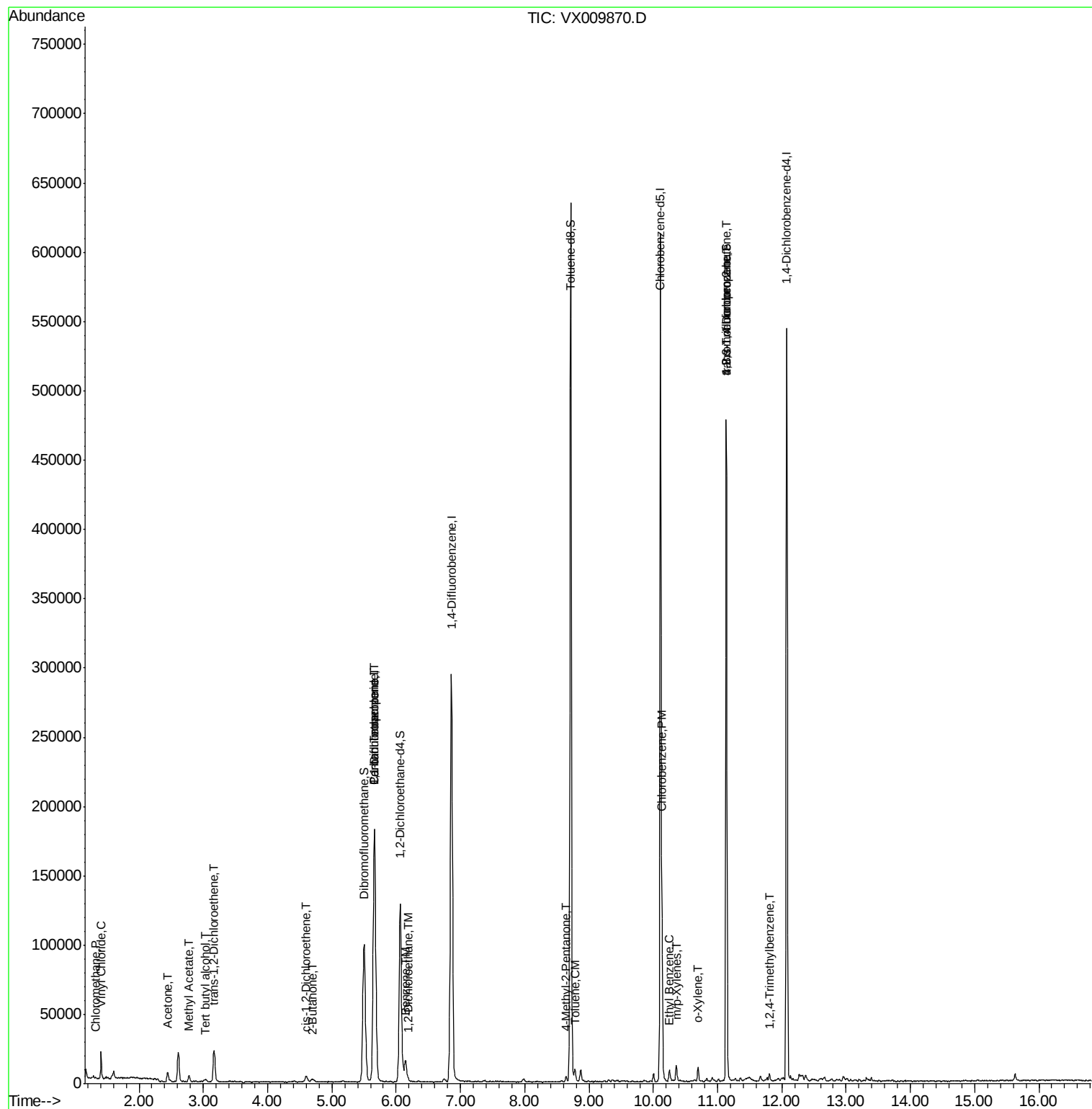
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	827	0.371	ug/l	96
4) Vinyl Chloride	1.41	62	13057	6.007	ug/l	98
11) Tert butyl alcohol	3.04	59	1947	3.478	ug/l	96
16) Acetone	2.45	43	7474	5.755	ug/l	97
18) Methyl Acetate	2.78	43	5659	1.832	ug/l	99
21) trans-1,2-Dichloroethene	3.17	96	9219	5.114	ug/l	94
25) 2-Butanone	4.69	43	1626	0.806	ug/l #	87
27) cis-1,2-Dichloroethene	4.60	96	2305	1.071	ug/l	94
28) Bromochloromethane	5.00	49	85	Below Cal	#	20
36) 1,1-Dichloropropene	5.67	75	13971	5.287	ug/l #	51
38) Carbon Tetrachloride	5.67	117	16655	6.937	ug/l #	16
40) Benzene	6.15	78	17310	2.117	ug/l	97
42) 1,2-Dichloroethane	6.19	62	786	0.268	ug/l	91
51) 4-Methyl-2-Pentanone	8.64	43	2655	0.690	ug/l #	85
52) Toluene	8.78	92	1513	0.304	ug/l	91
65) Chlorobenzene	10.13	112	38569	7.543	ug/l	97
67) Ethyl Benzene	10.25	91	4750	0.505	ug/l	99
68) m/p-Xylenes	10.36	106	2416	0.703	ug/l	95
69) o-Xylene	10.69	106	2147	0.633	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	64816	24.863	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64816	63.615	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	1915	0.277	ug/l	91

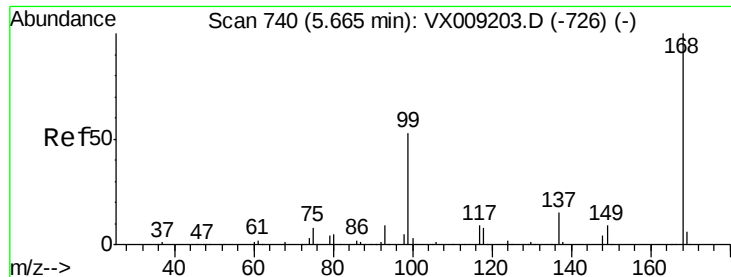
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009870.D

Acq: 23 May 2019 19:48

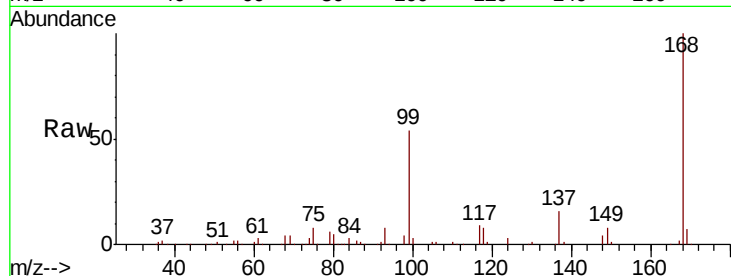
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 177172

Ion Ratio Lower Upper

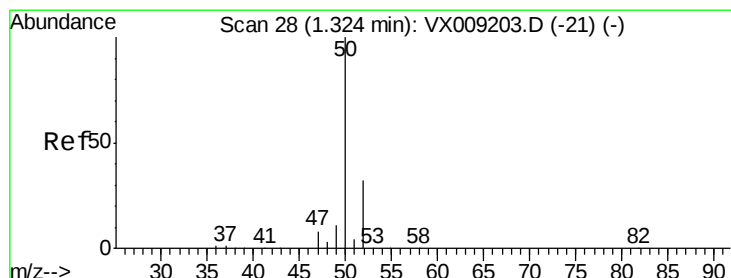
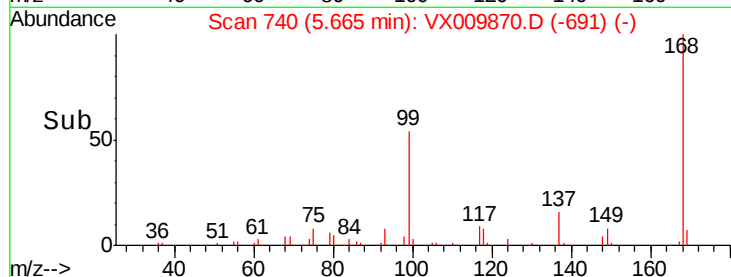
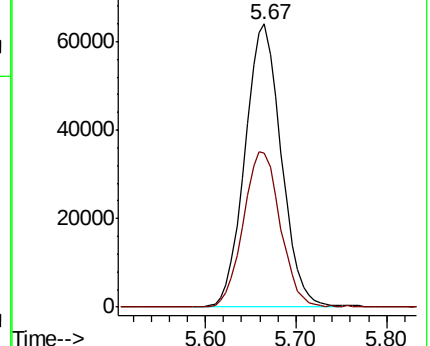
168 100

99 54.3 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.371 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009870.D

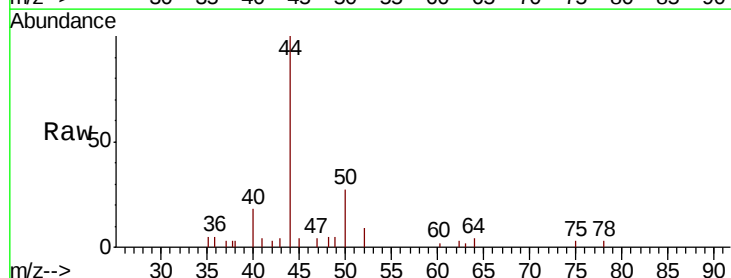
Acq: 23 May 2019 19:48

Tgt Ion: 50 Resp: 827

Ion Ratio Lower Upper

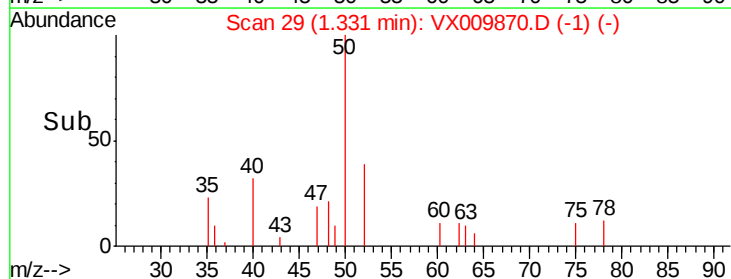
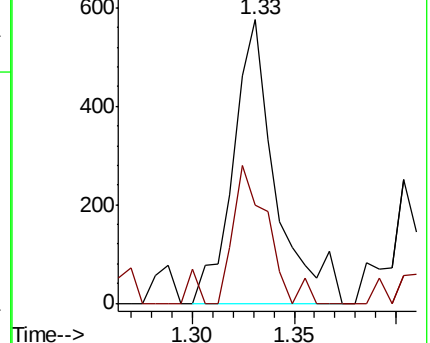
50 100

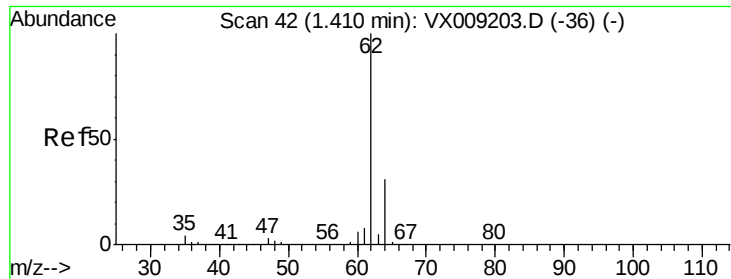
52 34.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 6.007 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009870.D

Acq: 23 May 2019 19:48

Instrument :

MSVOA_X

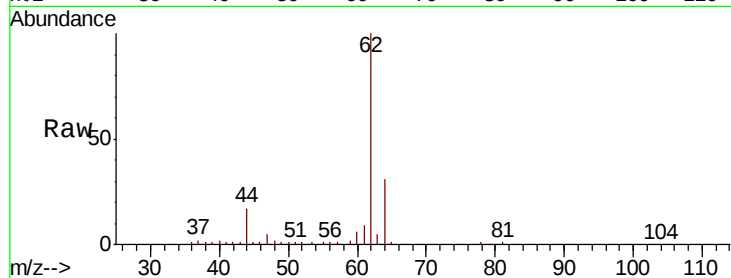
ClientSampleId :

Tot Ion: 62 Resp: 13057

Ion Ratio Lower Upper

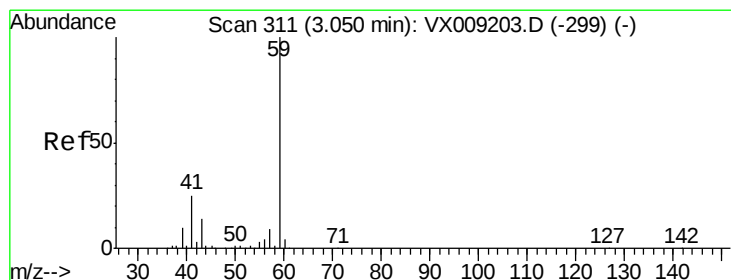
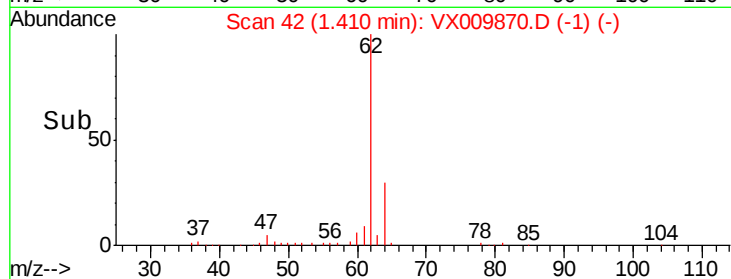
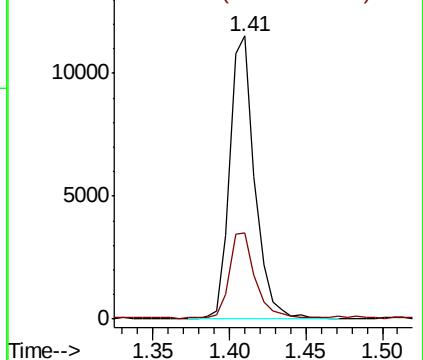
62 100

64 29.8 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 3.478 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX009870.D

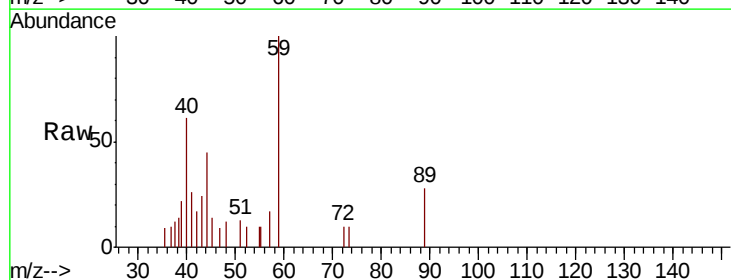
Acq: 23 May 2019 19:48

Tgt Ion: 59 Resp: 1947

Ion Ratio Lower Upper

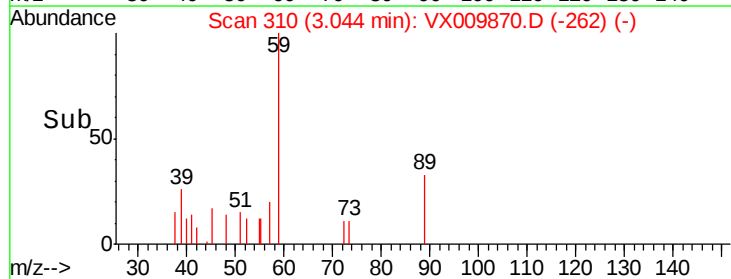
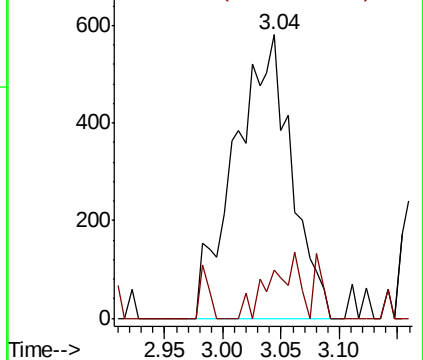
59 100

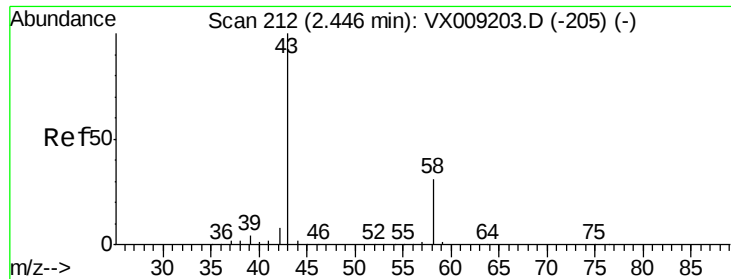
57 11.9 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 5.755 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009870.D

Acq: 23 May 2019 19:48

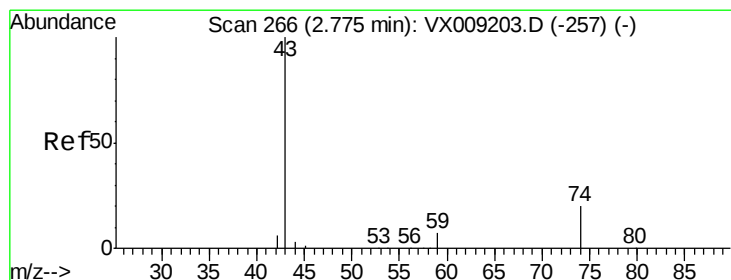
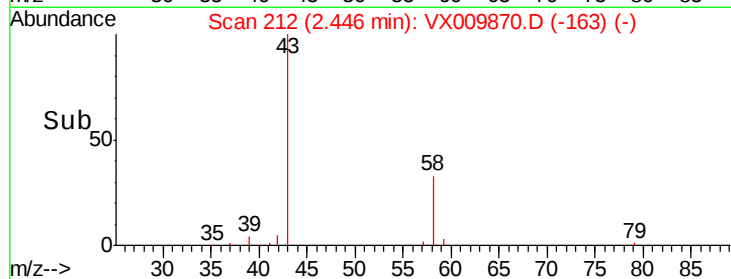
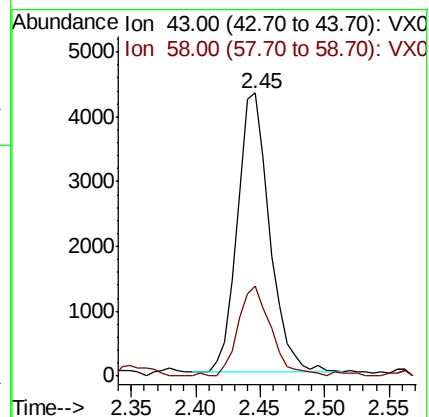
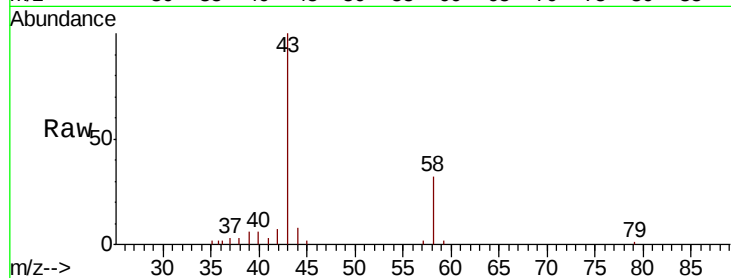
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 7474

Ion Ratio Lower Upper

43 100

58 32.5 24.9 37.3



#18

Methyl Acetate

Concen: 1.832 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX009870.D

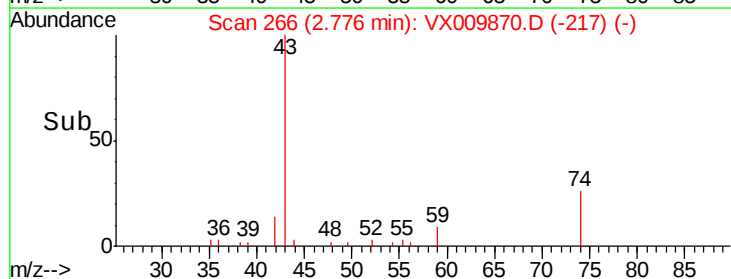
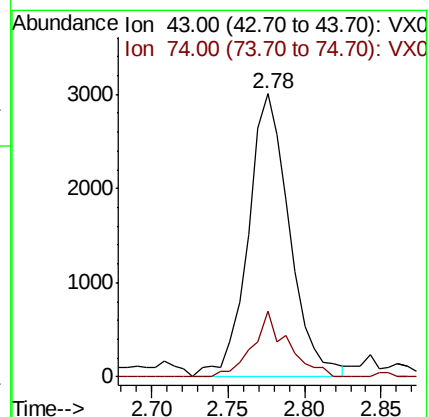
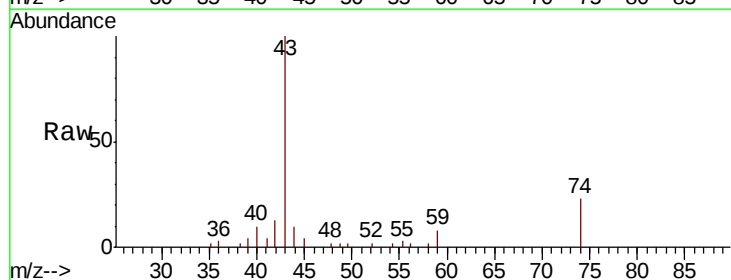
Acq: 23 May 2019 19:48

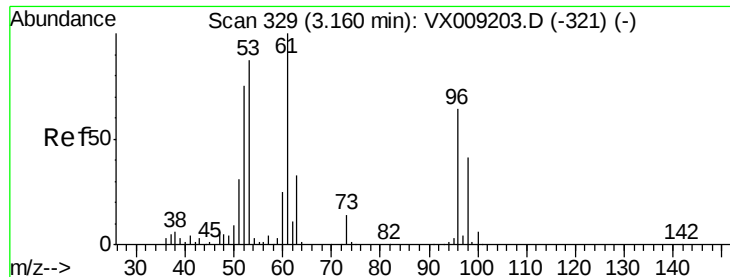
Tgt Ion: 43 Resp: 5659

Ion Ratio Lower Upper

43 100

74 19.7 16.2 24.4





#21

trans-1,2-Dichloroethene

Concen: 5.114 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX009870.D

Acq: 23 May 2019 19:48

Instrument :

MSVOA_X

ClientSampled :

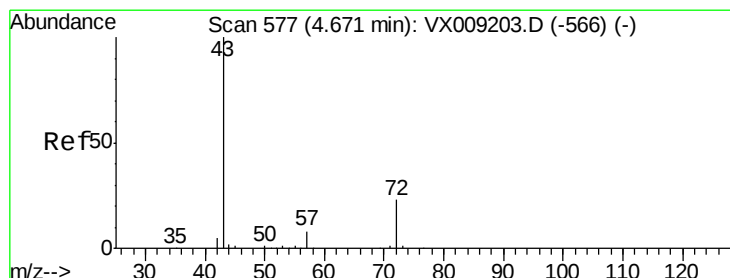
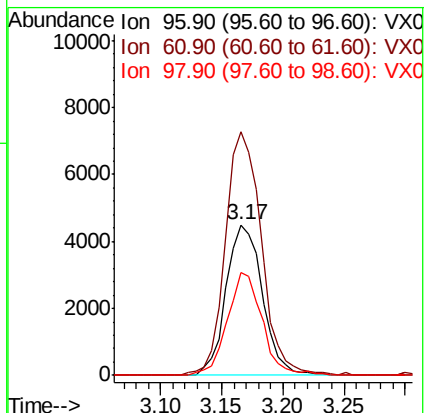
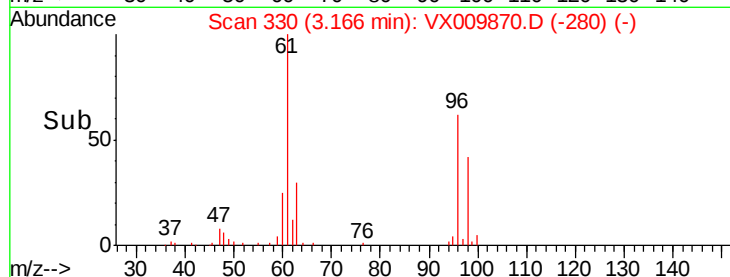
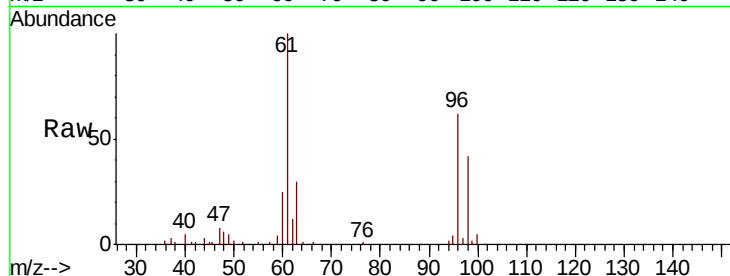
Tot Ion: 96 Resp: 9219

Ion Ratio Lower Upper

96 100

61 161.9 124.5 186.7

98 68.6 50.4 75.6



#25

2-Butanone

Concen: 0.806 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009870.D

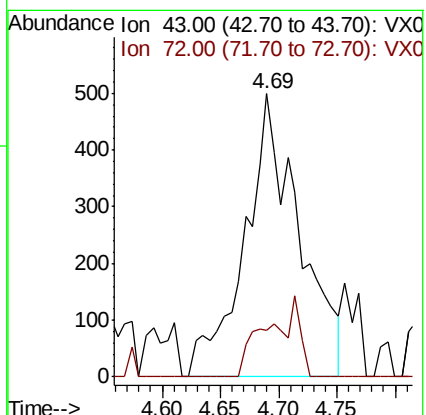
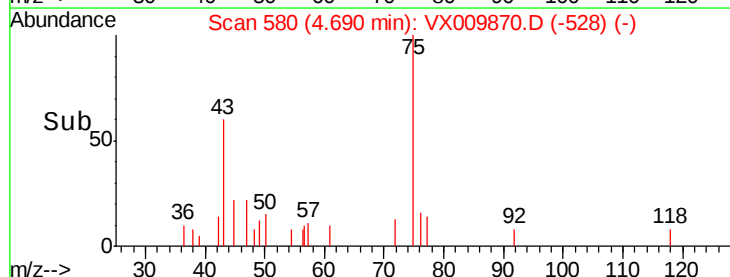
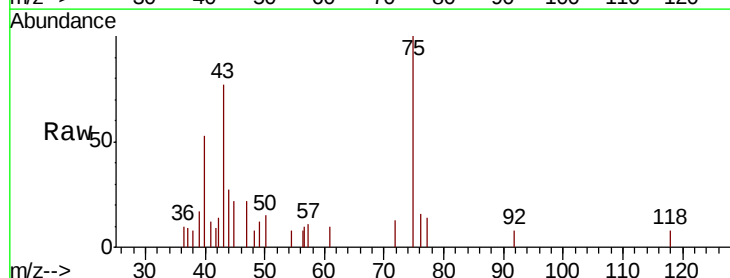
Acq: 23 May 2019 19:48

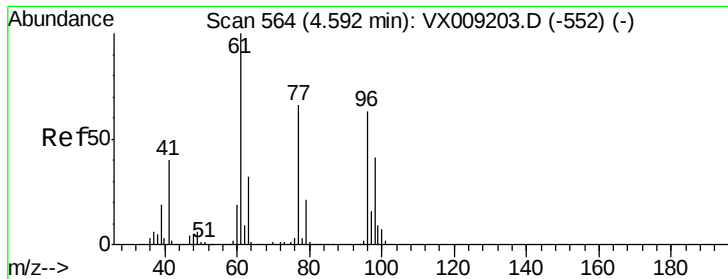
Tgt Ion: 43 Resp: 1626

Ion Ratio Lower Upper

43 100

72 16.6 18.2 27.2#



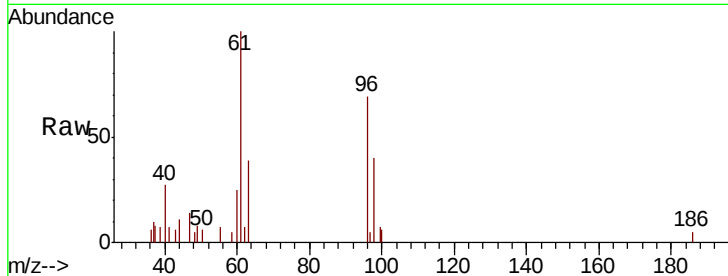


#27

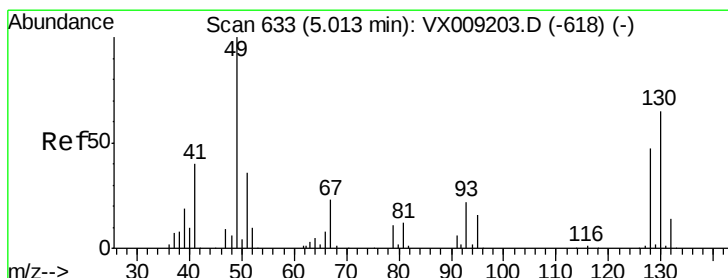
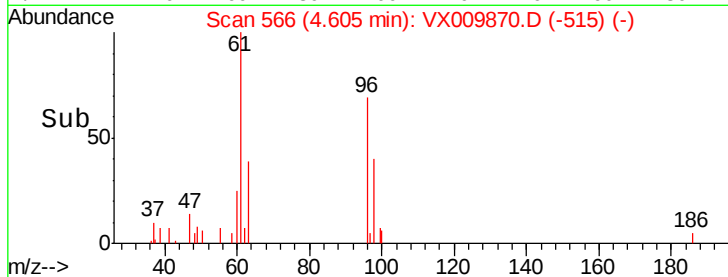
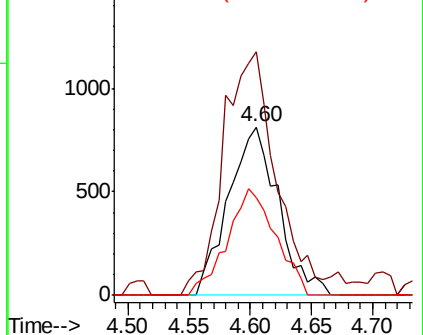
cis-1,2-Dichloroethene
Concen: 1.071 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX009870.D
Acq: 23 May 2019 19:48

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	152.7	0.0	324.0
98	61.0	0.0	130.4



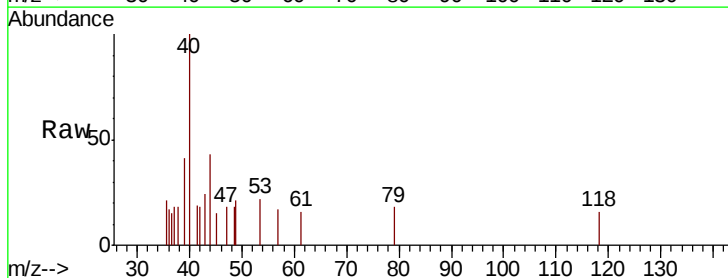
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



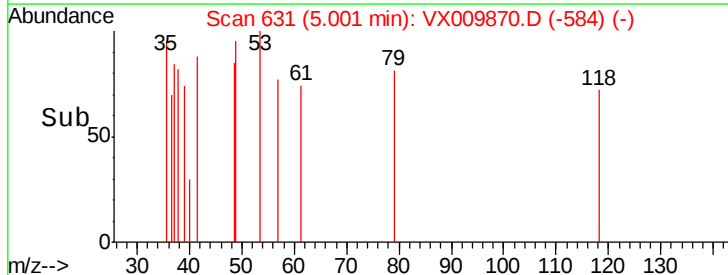
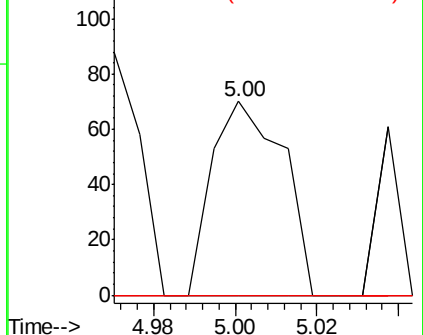
#28

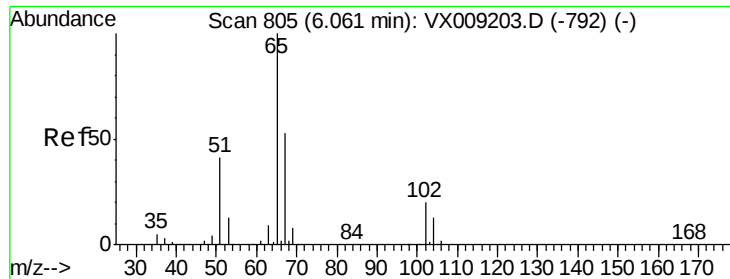
Bromochloromethane
Concen: Below Cal
RT: 5.00 min Scan# 631
Delta R.T. -0.01 min
Lab File: VX009870.D
Acq: 23 May 2019 19:48

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	51.2	76.8#



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





#33

1,2-Dichloroethane-d4

Concen: 48.936 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009870.D

Acq: 23 May 2019 19:48

Instrument :

MSVOA_X

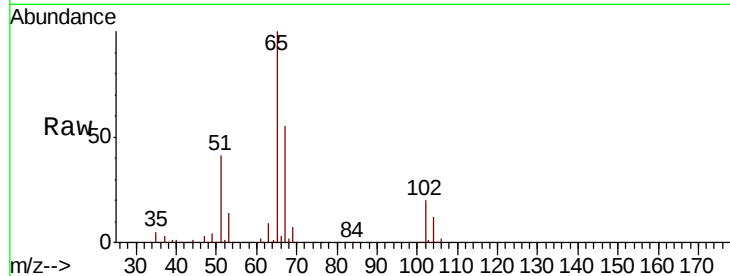
ClientSampled :

Tot Ion: 65 Resp: 118358

Ion Ratio Lower Upper

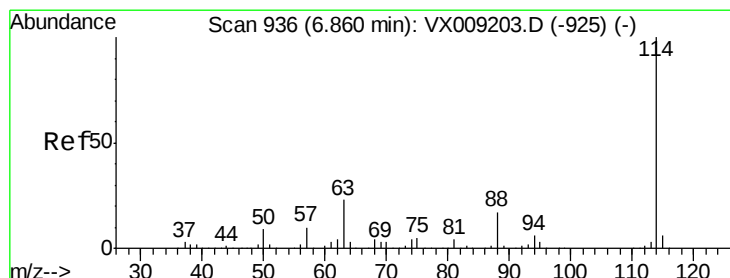
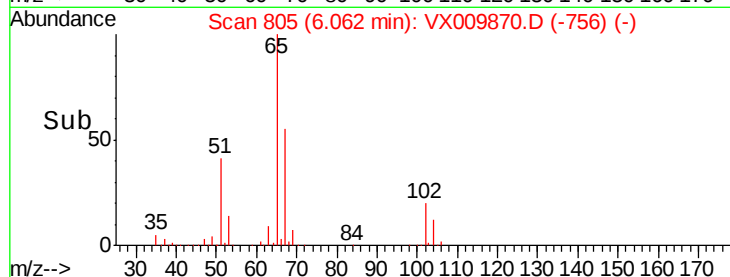
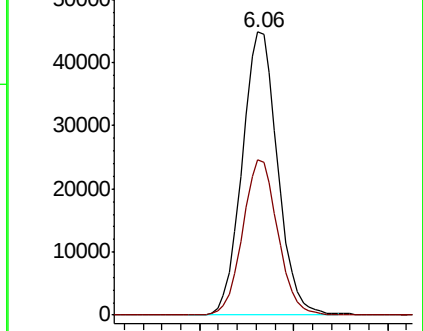
65 100

67 54.3 0.0 106.6



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: VX009870.D

Acq: 23 May 2019 19:48

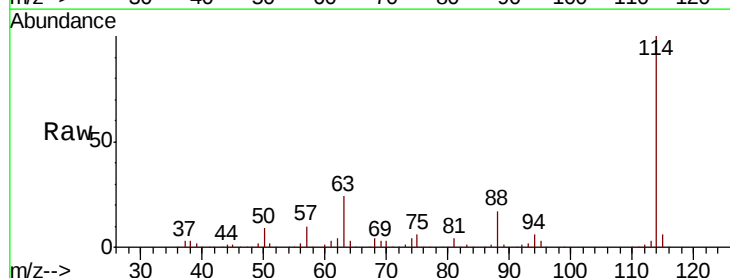
Tgt Ion: 114 Resp: 284352

Ion Ratio Lower Upper

114 100

63 24.1 0.0 45.6

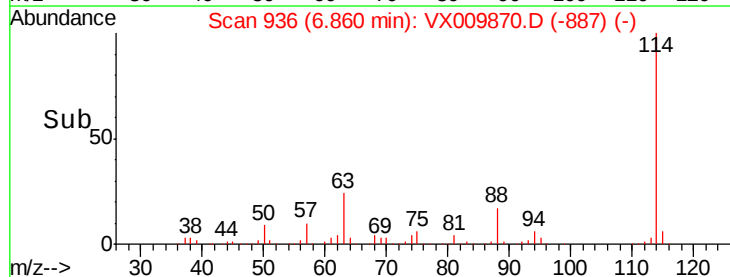
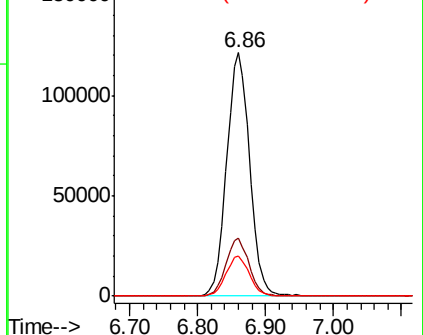
88 16.6 0.0 33.2

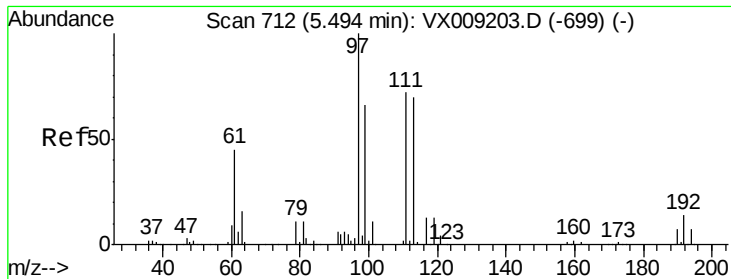


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

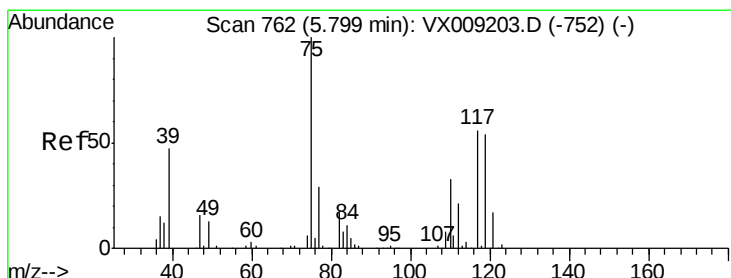
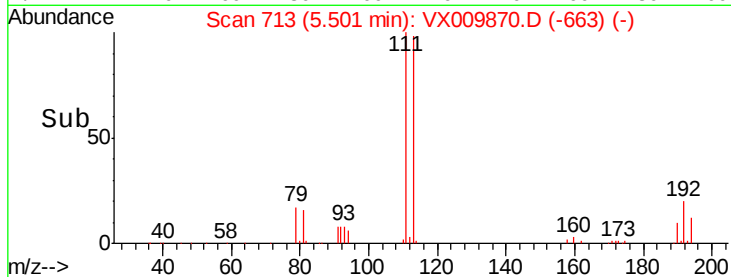
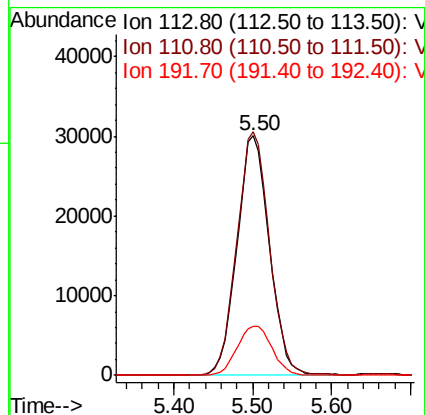
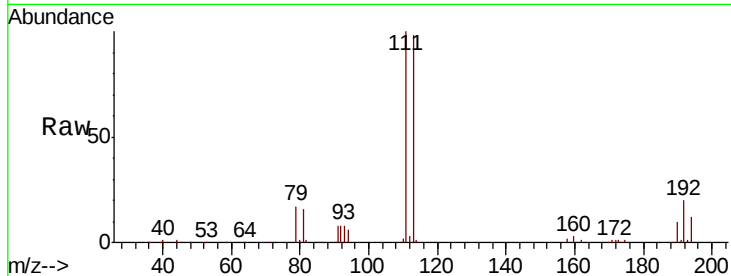




#35
 Dibromofluoromethane
 Concen: 48.043 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009870.D
 Acq: 23 May 2019 19:48

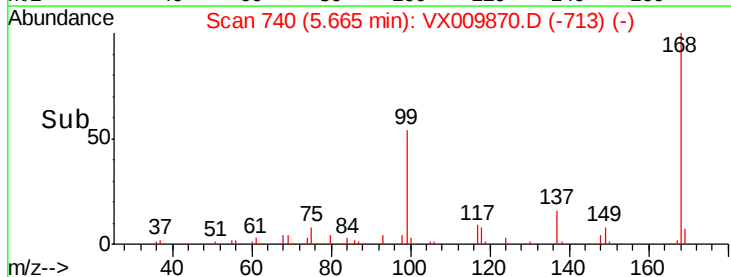
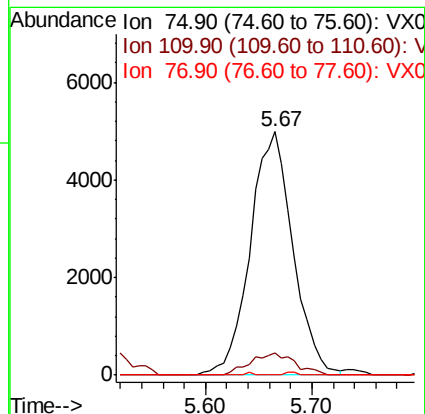
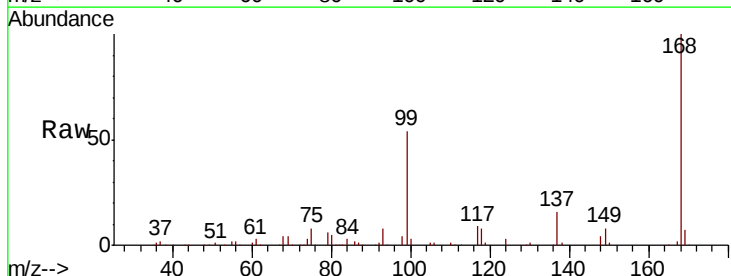
Instrument :
 MSVOA_X
 ClientSampleId :

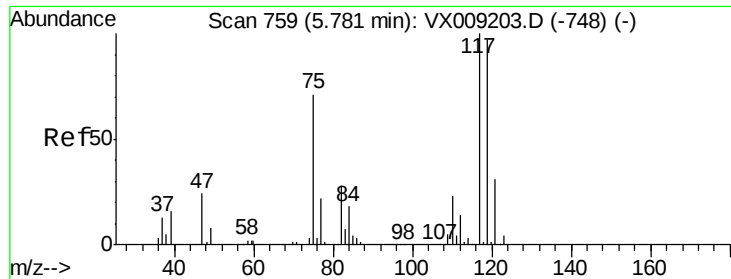
Tot Ion:113 Resp: 85880
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.8 124.2
 192 22.0 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.287 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009870.D
 Acq: 23 May 2019 19:48

Tgt Ion: 75 Resp: 13971
 Ion Ratio Lower Upper
 75 100
 110 9.4 16.9 50.6#
 77 0.4 24.8 37.2#

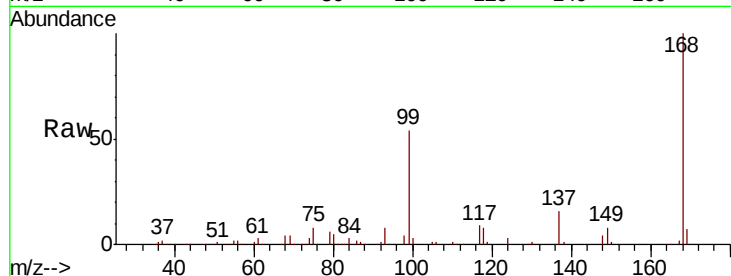




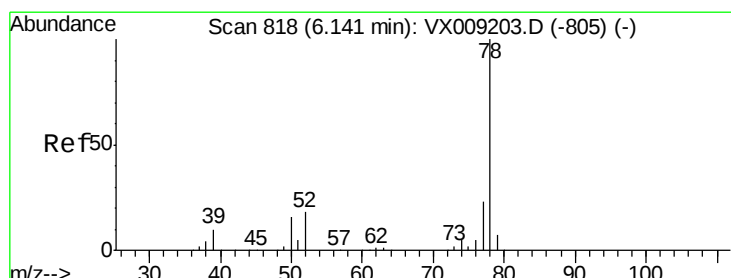
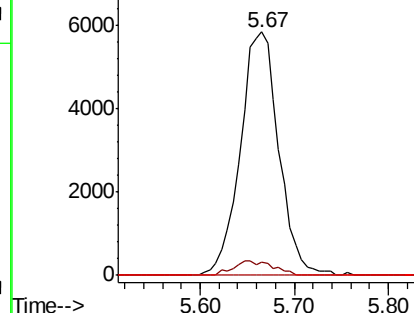
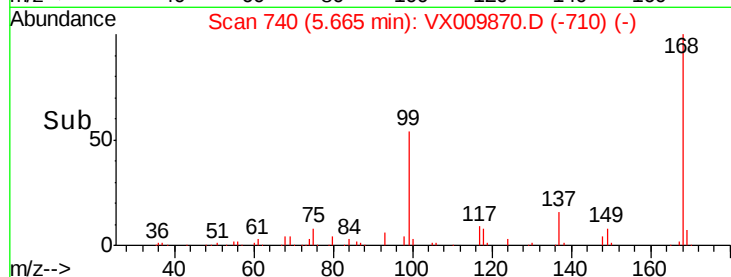
#38
Carbon Tetrachloride
Concen: 6.937 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009870.D
Acq: 23 May 2019 19:48

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 16655
Ion Ratio Lower Upper
117 100
119 5.6 77.5 116.3#
121 0.0 24.7 37.1#

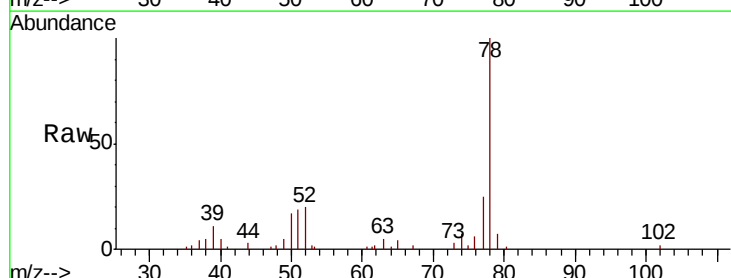


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

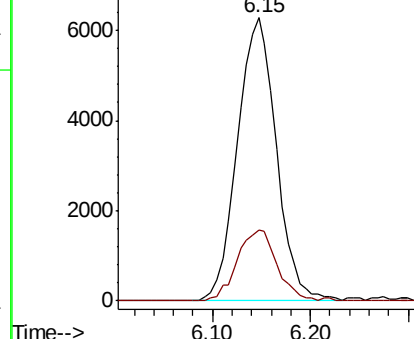
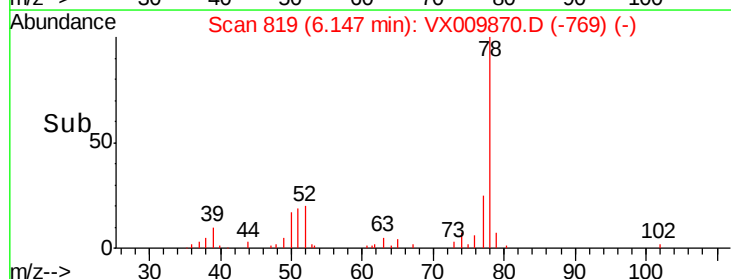


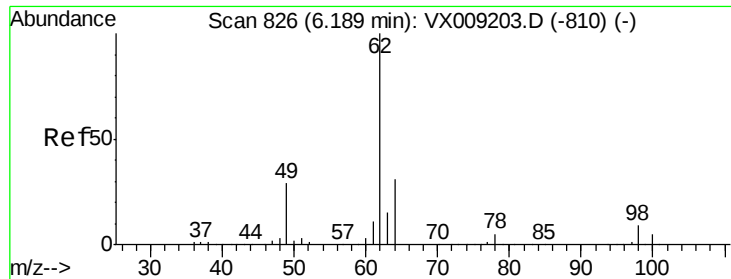
#40
Benzene
Concen: 2.117 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX009870.D
Acq: 23 May 2019 19:48

Tgt Ion: 78 Resp: 17310
Ion Ratio Lower Upper
78 100
77 25.1 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#42

1,2-Dichloroethane

Concen: 0.268 ug/l

RT: 6.19 min Scan# 826

Delta R.T. 0.00 min

Lab File: VX009870.D

Acq: 23 May 2019 19:48

Instrument :

MSVOA_X

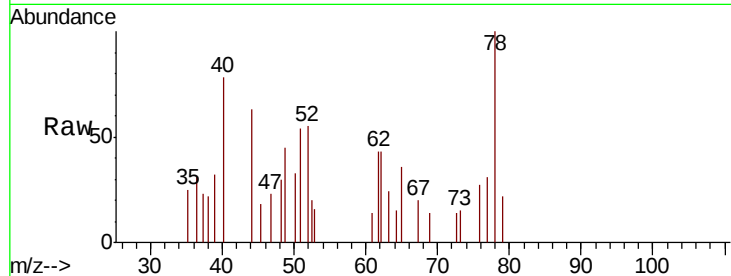
ClientSampled :

Tot Ion: 62 Resp: 786

Ion Ratio Lower Upper

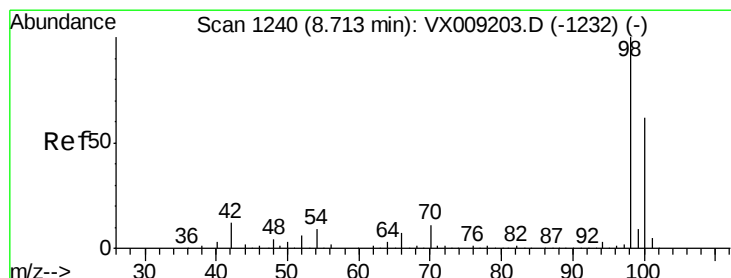
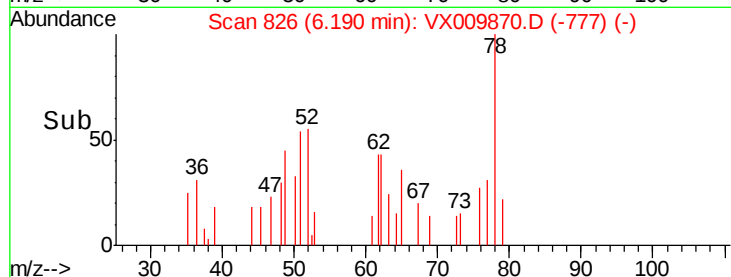
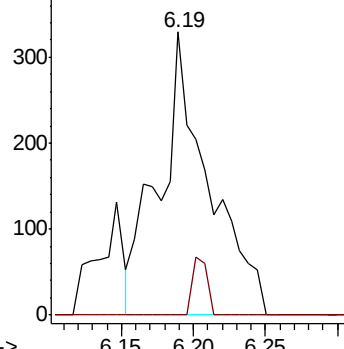
62 100

98 6.0 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#50

Toluene-d8

Concen: 49.684 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009870.D

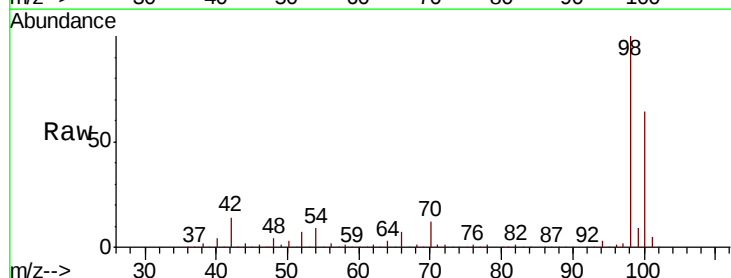
Acq: 23 May 2019 19:48

Tgt Ion: 98 Resp: 358558

Ion Ratio Lower Upper

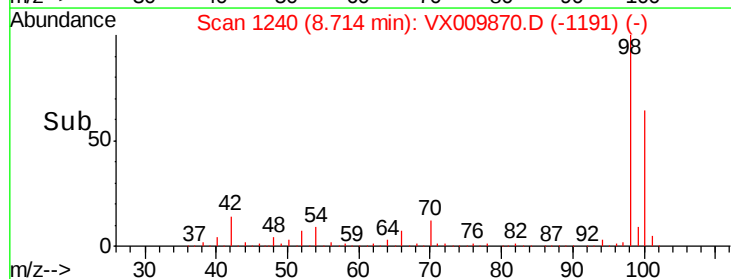
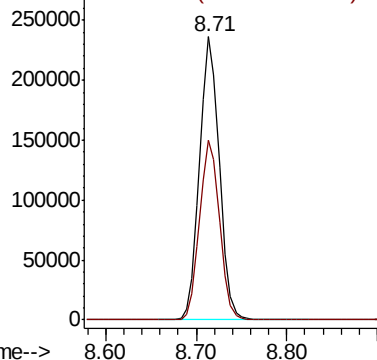
98 100

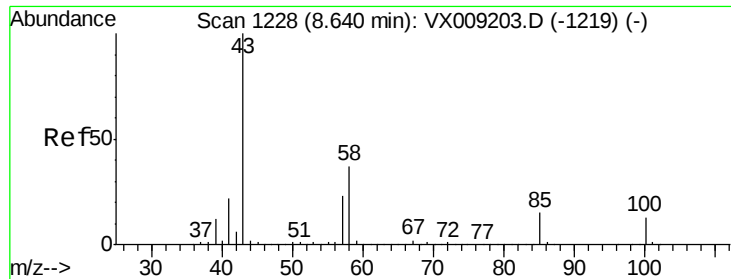
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.690 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX009870.D

Acq: 23 May 2019 19:48

Instrument :

MSVOA_X

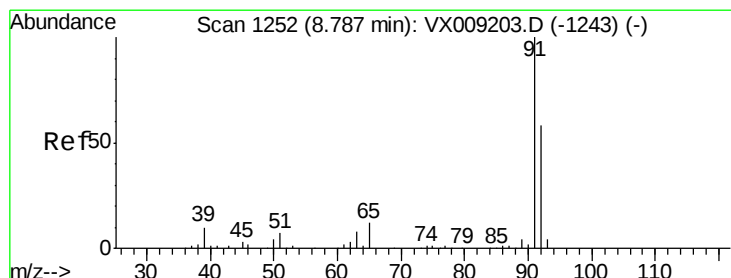
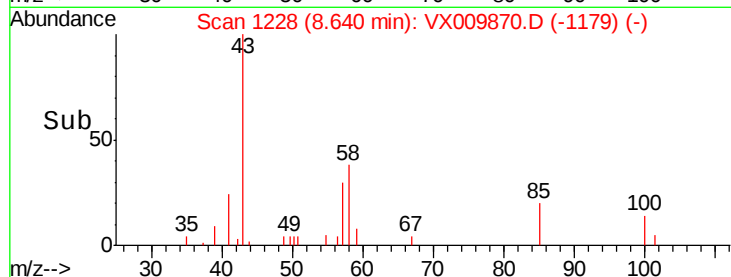
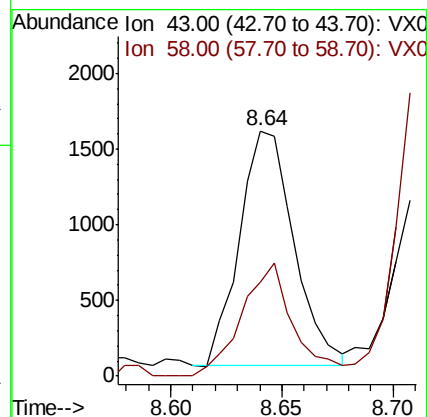
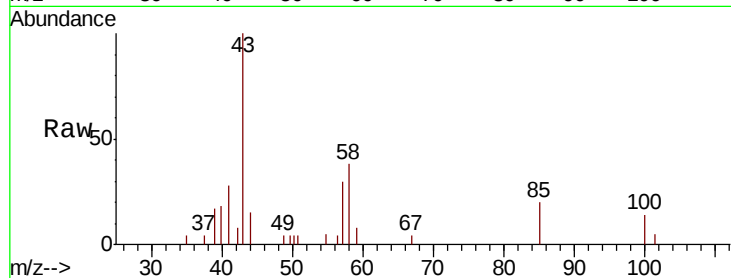
ClientSampleId :

Tot Ion: 43 Resp: 2655

Ion Ratio Lower Upper

43 100

58 45.8 29.5 44.3#



#52

Toluene

Concen: 0.304 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX009870.D

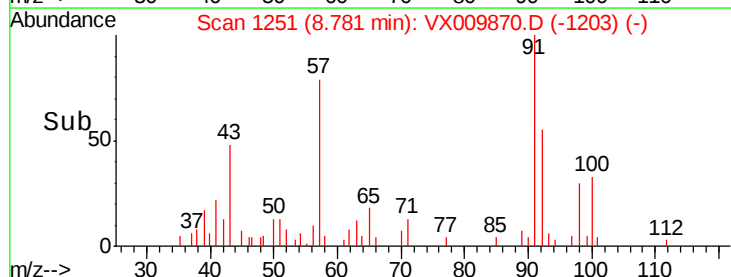
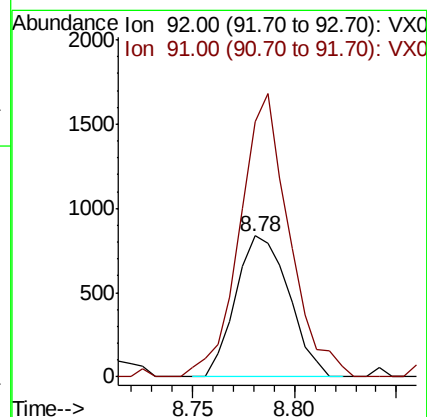
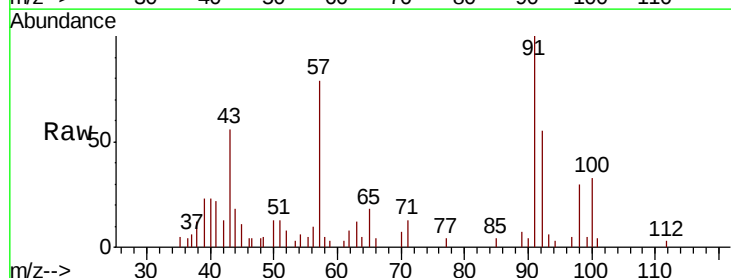
Acq: 23 May 2019 19:48

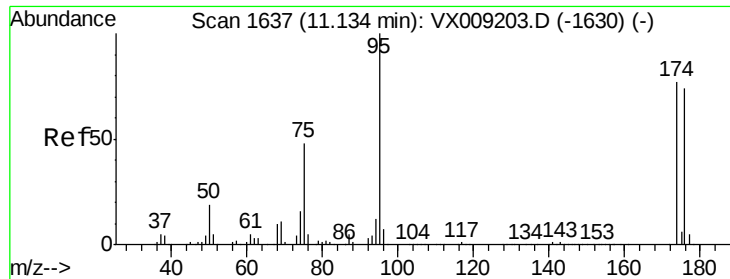
Tgt Ion: 92 Resp: 1513

Ion Ratio Lower Upper

92 100

91 186.6 138.8 208.2





#62

4-Bromofluorobenzene

Concen: 47.342 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009870.D

Acq: 23 May 2019 19:48

Instrument :

MSVOA_X

ClientSampleId :

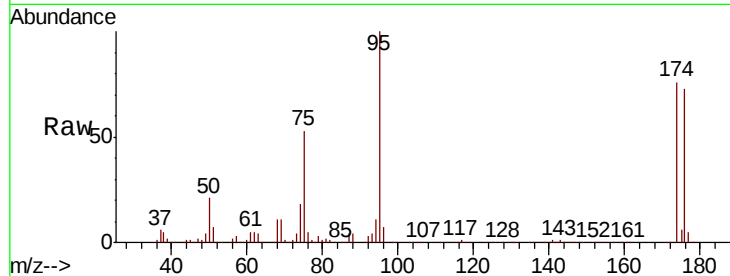
Tot Ion: 95 Resp: 124145

Ion Ratio Lower Upper

95 100

174 80.4 0.0 161.6

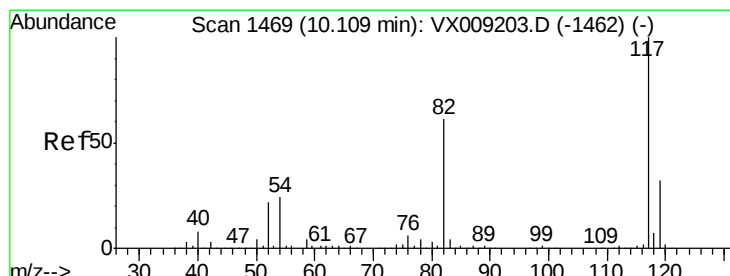
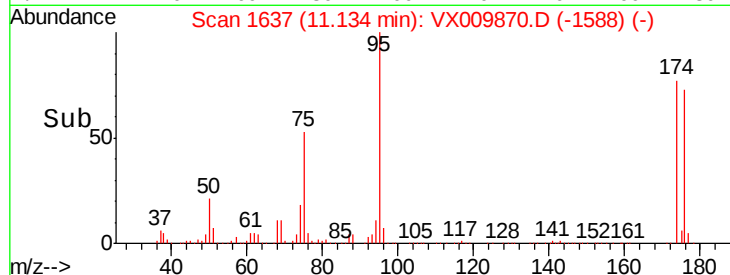
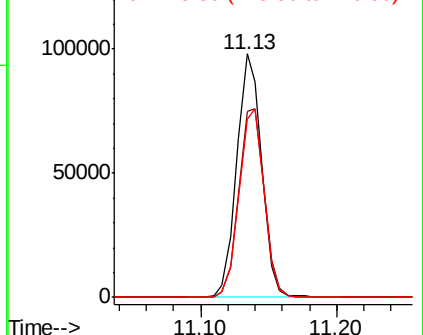
176 78.1 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009870.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009870.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009870.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009870.D

Acq: 23 May 2019 19:48

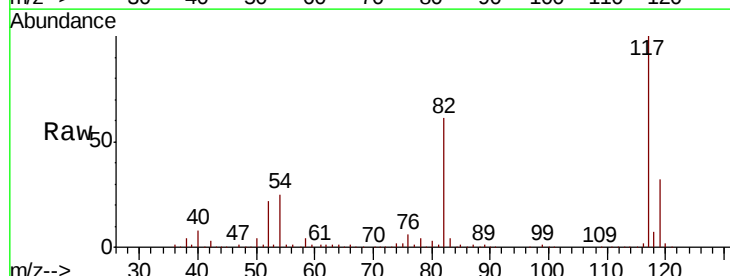
Tgt Ion: 117 Resp: 255596

Ion Ratio Lower Upper

117 100

82 60.7 48.8 73.2

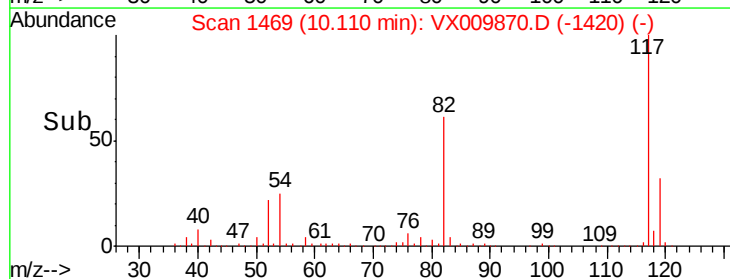
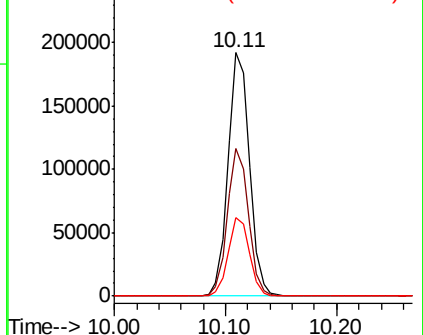
119 32.1 25.8 38.6

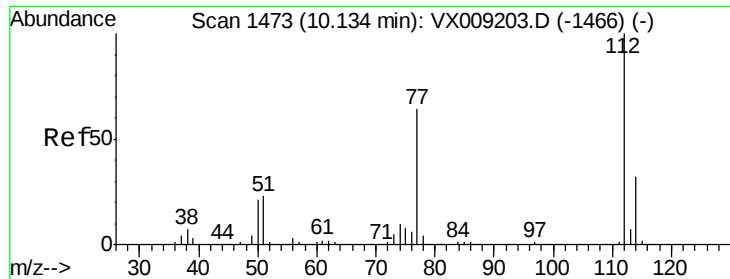


Abundance Ion 116.90 (116.60 to 117.60): VX009870.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009870.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009870.D (-1420) (-)

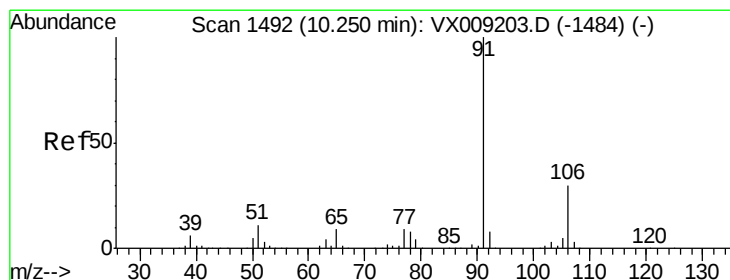
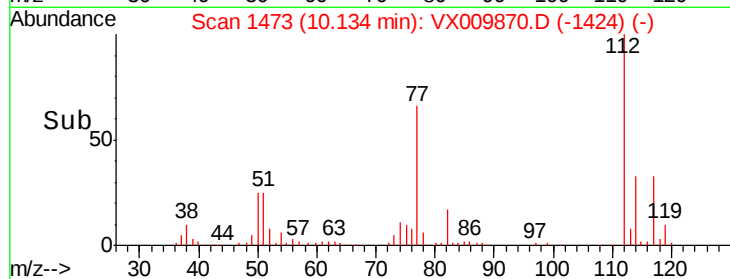
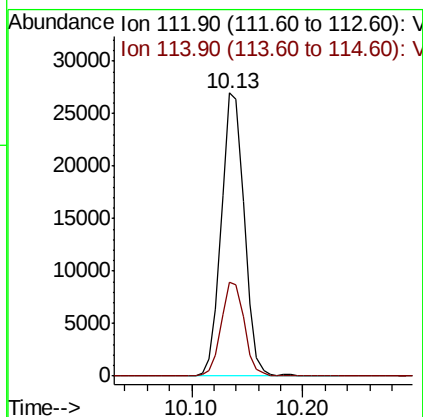
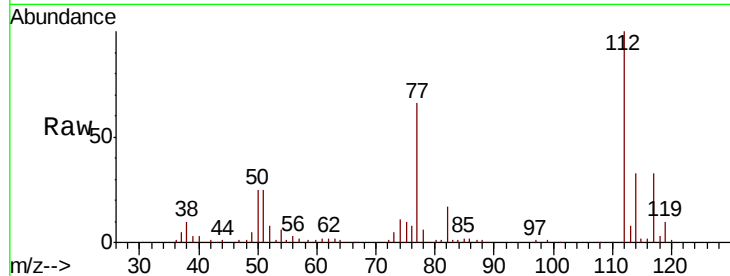




#65
Chlorobenzene
Concen: 7.543 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX009870.D
Acq: 23 May 2019 19:48

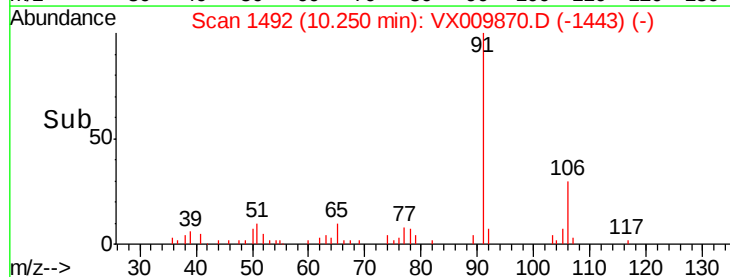
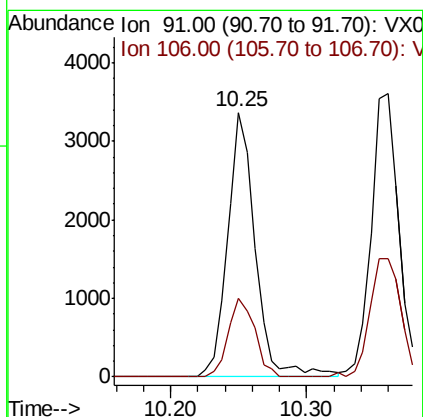
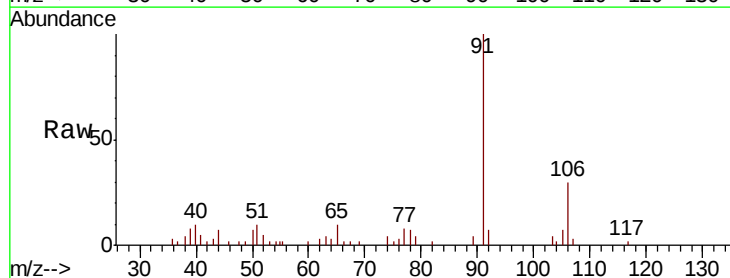
Instrument :
MSVOA_X
ClientSampleId :

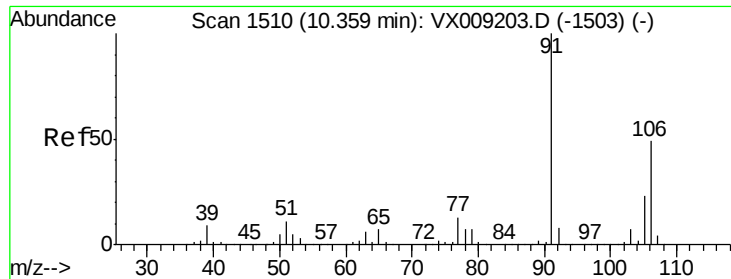
Tot Ion:112 Resp: 38569
Ion Ratio Lower Upper
112 100
114 33.3 25.5 38.3



#67
Ethyl Benzene
Concen: 0.505 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX009870.D
Acq: 23 May 2019 19:48

Tgt Ion: 91 Resp: 4750
Ion Ratio Lower Upper
91 100
106 29.5 24.0 36.0

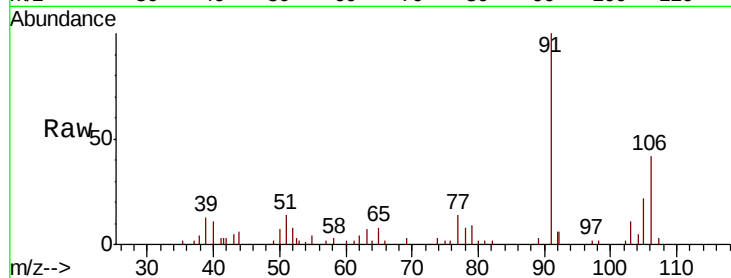




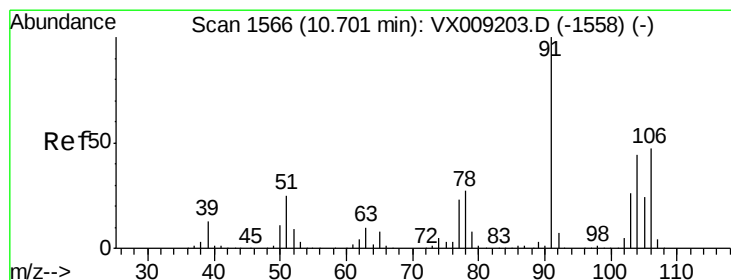
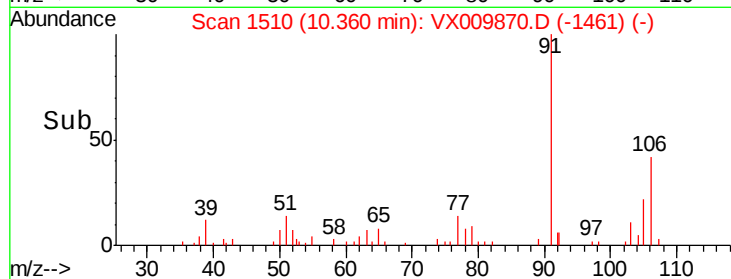
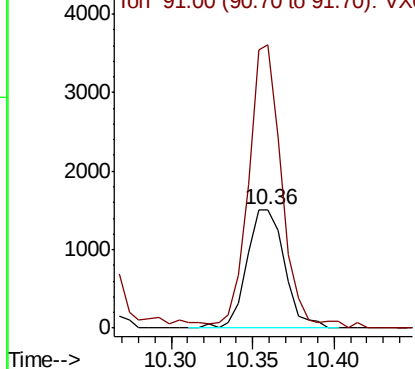
#68
m/p-Xylenes
Concen: 0.703 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX009870.D
Acq: 23 May 2019 19:48

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:106 Resp: 2416
Ion Ratio Lower Upper
106 100
91 212.9 164.0 246.0

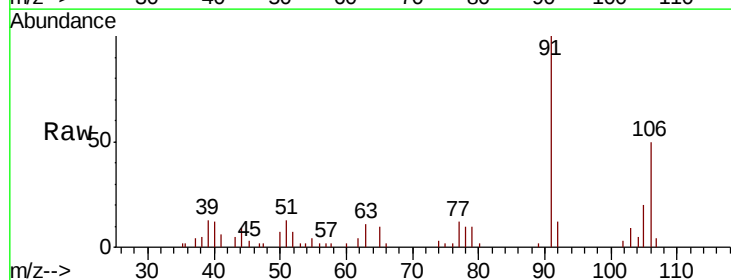


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

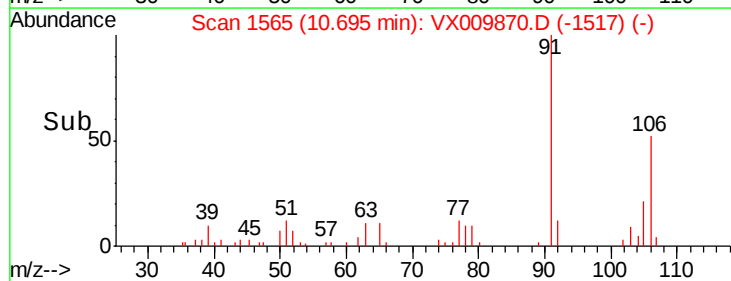
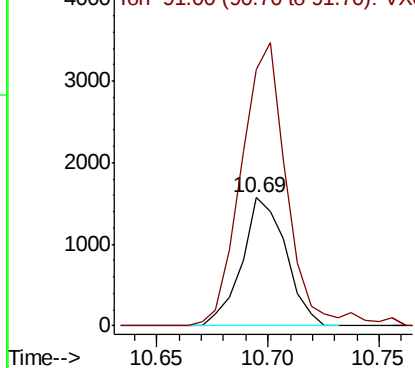


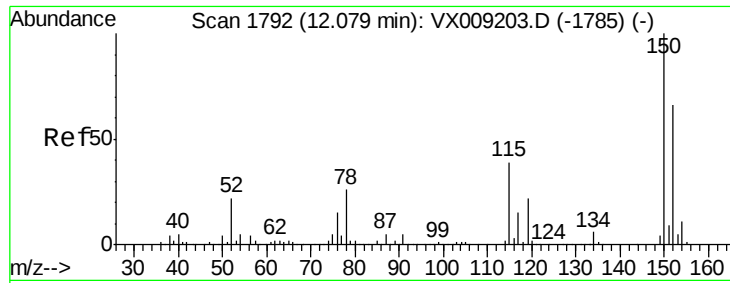
#69
o-Xylene
Concen: 0.633 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VX009870.D
Acq: 23 May 2019 19:48

Tgt Ion:106 Resp: 2147
Ion Ratio Lower Upper
106 100
91 232.3 109.5 328.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0



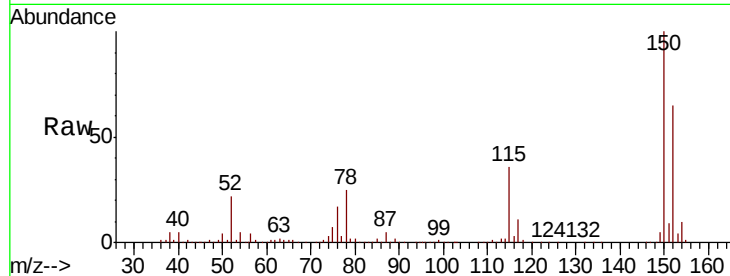


#72

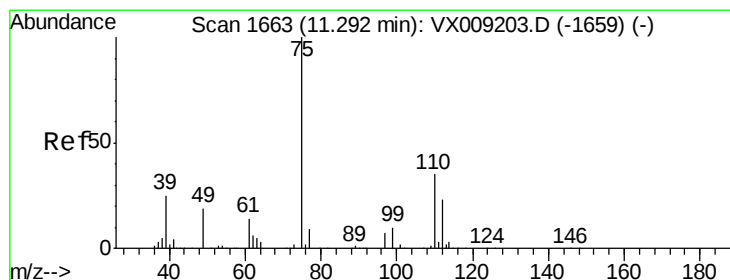
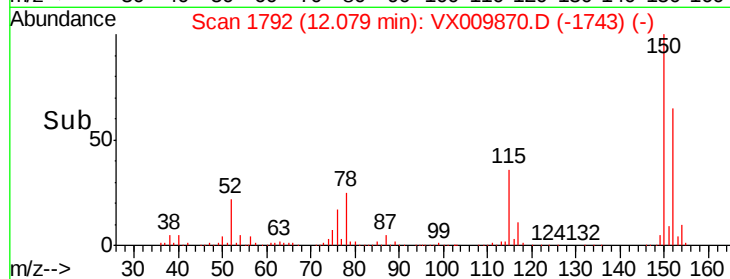
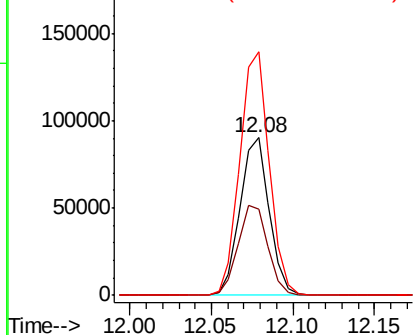
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009870.D
Acq: 23 May 2019 19:48

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 112386
Ion Ratio Lower Upper
152 100
115 58.9 41.2 123.6
150 156.8 0.0 346.4



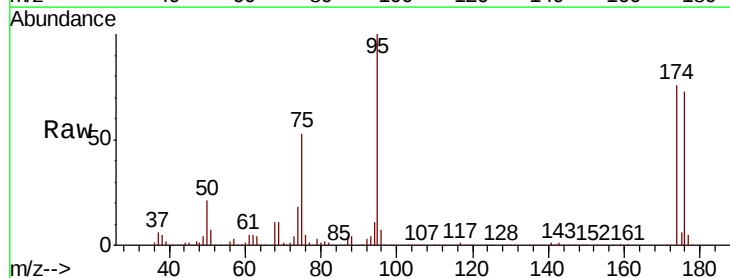
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



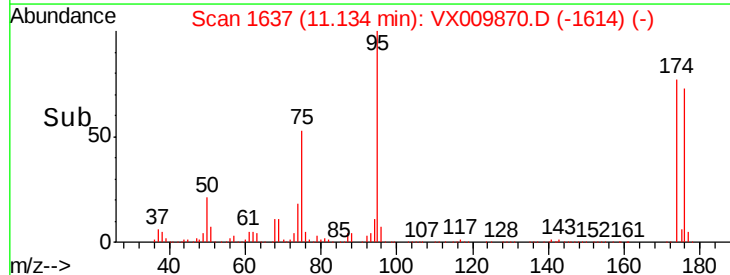
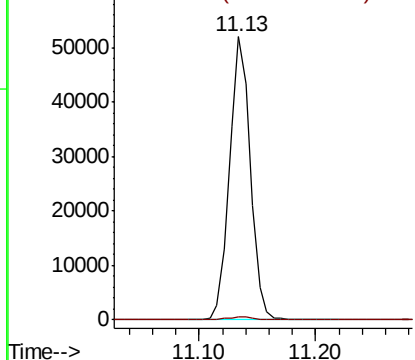
#76

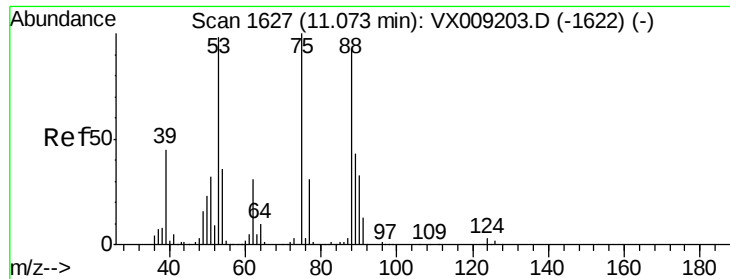
1,2,3-Trichloropropane
Concen: 24.863 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009870.D
Acq: 23 May 2019 19:48

Tgt Ion: 75 Resp: 64816
Ion Ratio Lower Upper
75 100
77 1.5 22.1 66.1#



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: 63.615 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009870.D

Acq: 23 May 2019 19:48

Instrument :

MSVOA_X

ClientSampleId :

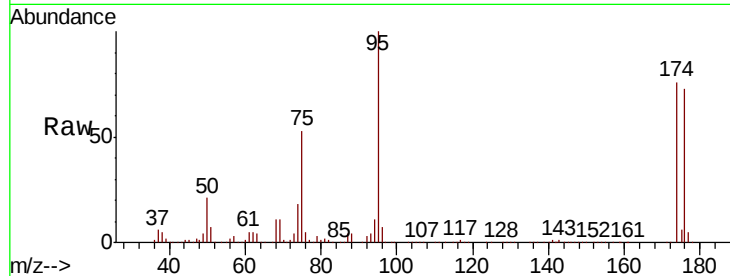
Tot Ion: 75 Resp: 64816

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

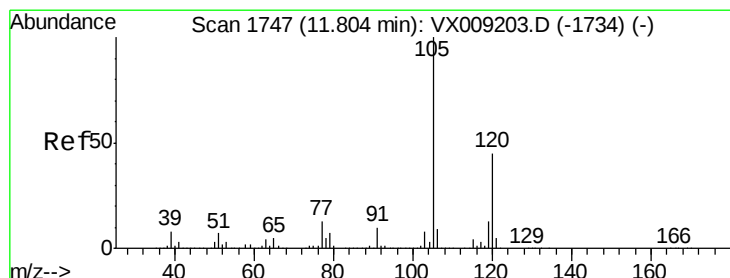
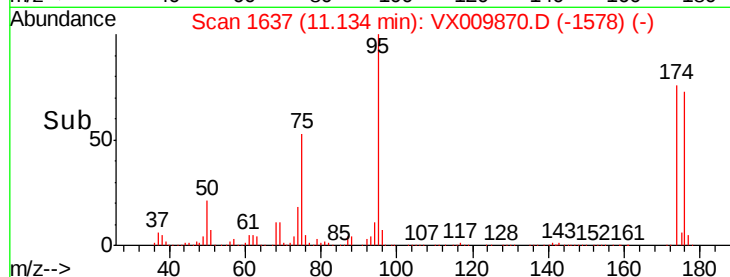
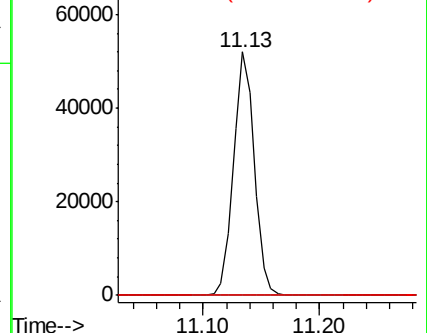
89 0.0 34.7 52.1#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.277 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX009870.D

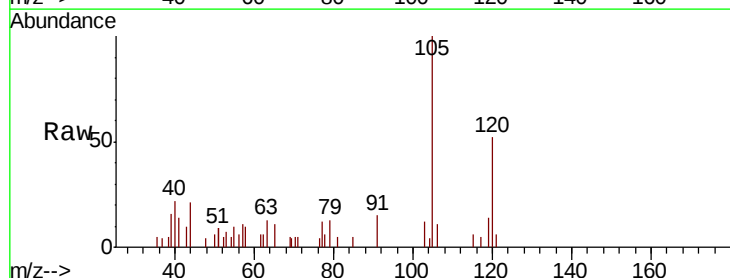
Acq: 23 May 2019 19:48

Tgt Ion:105 Resp: 1915

Ion Ratio Lower Upper

105 100

120 49.9 22.0 66.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

