

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009694.D
 Acq On : 18 May 2019 05:06
 Operator : JC/SP
 Sample : K2901-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-15E_R2

Quant Time: May 18 06:27:13 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	167893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	265248	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	231461	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	92656	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	113014	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
35) Dibromofluoromethane	5.50	113	82207	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
50) Toluene-d8	8.71	98	334648	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	11.13	95	105646	43.19	ug/l	0.00
Spiked Amount			Recovery	=	86.38%	

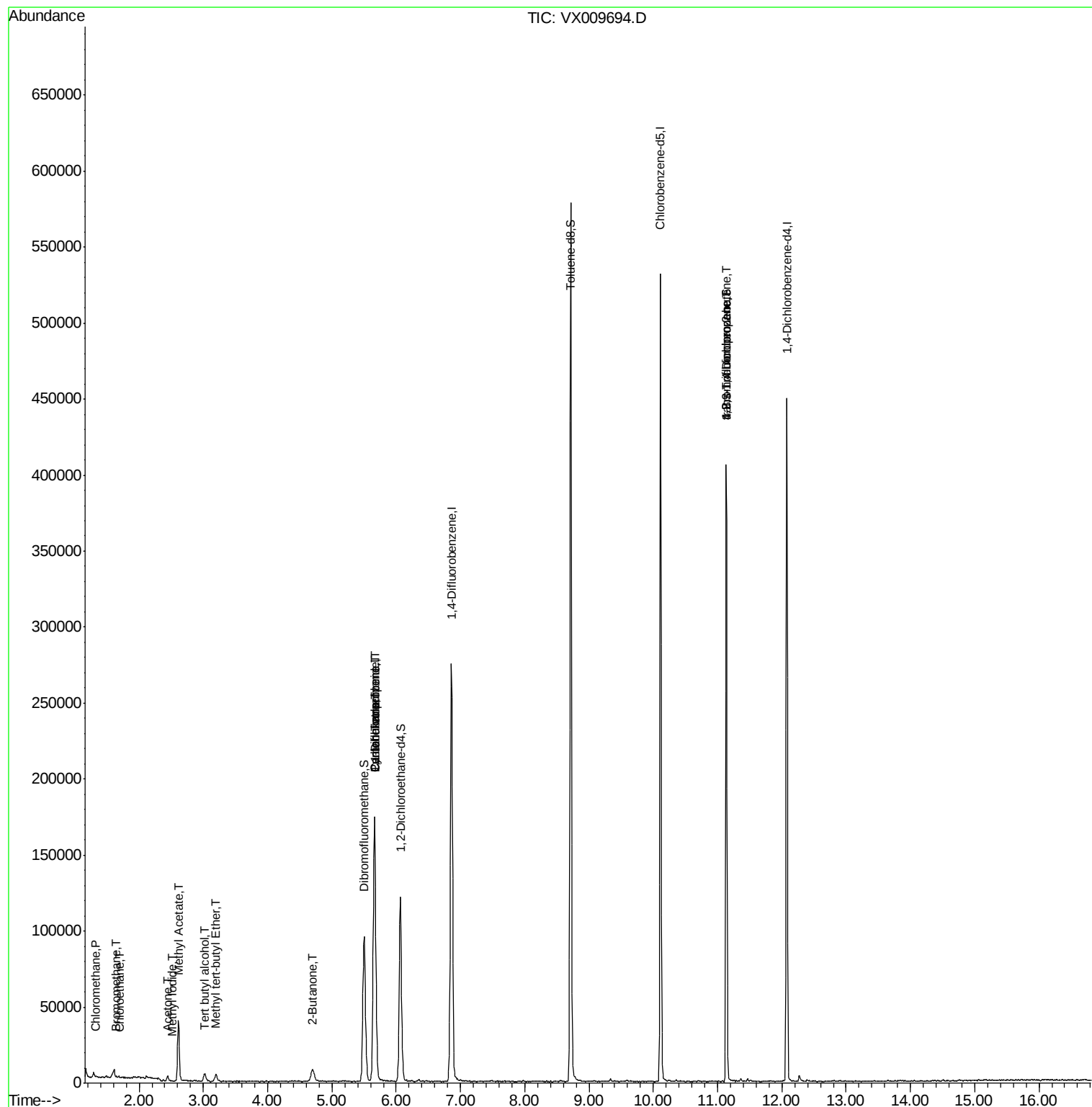
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	472	0.223	ug/l #	87
5) Bromomethane	1.65	94	525	0.425	ug/l #	74
6) Chloroethane	1.71	64	265	0.200	ug/l #	43
10) Methyl Iodide	2.51	142	360	4.773	ug/l #	78
11) Tert butyl alcohol	3.03	59	3466	6.533	ug/l #	90
16) Acetone	2.45	43	3890	3.161	ug/l	91
18) Methyl Acetate	2.61	43	10511	3.591	ug/l #	56
19) Methyl tert-butyl Ether	3.20	73	5066	0.828	ug/l	99
25) 2-Butanone	4.70	43	959	0.501	ug/l #	53
28) Bromochloromethane	5.01	49	25	Below Cal	#	20
31) Cyclohexane	5.66	56	3981	1.175	ug/l #	6
36) 1,1-Dichloropropene	5.66	75	13314	5.401	ug/l #	51
38) Carbon Tetrachloride	5.67	117	15984	7.137	ug/l #	16
76) 1,2,3-Trichloropropane	11.13	75	54432	25.326	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	54432	64.799	ug/l #	10

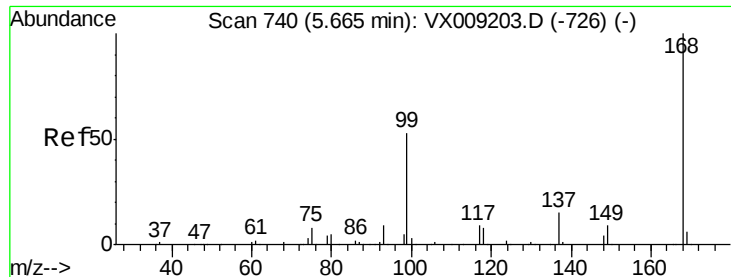
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
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: VX009694.D

Acq: 18 May 2019 05:06

Instrument :

MSVOA_X

ClientSampleId :

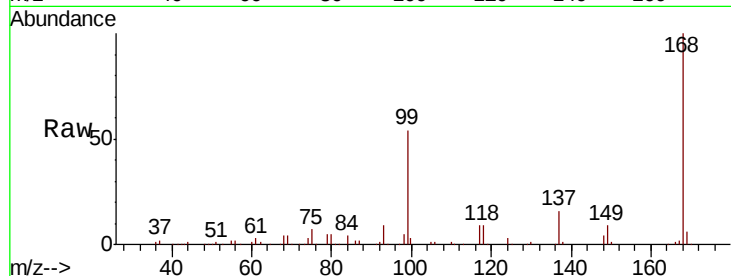
MW-15E_R2

Tot Ion:168 Resp: 167893

Ion Ratio Lower Upper

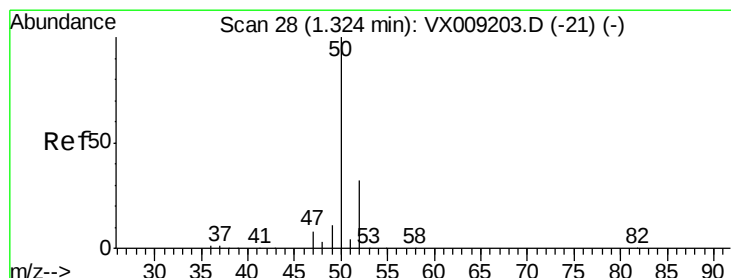
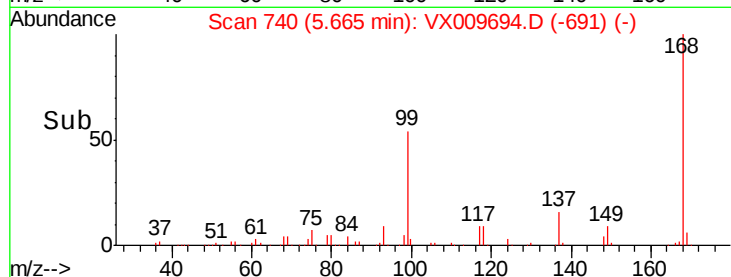
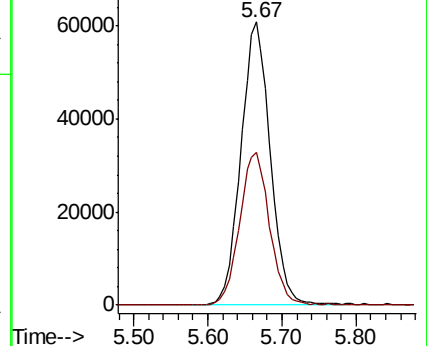
168 100

99 54.2 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: 0.223 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009694.D

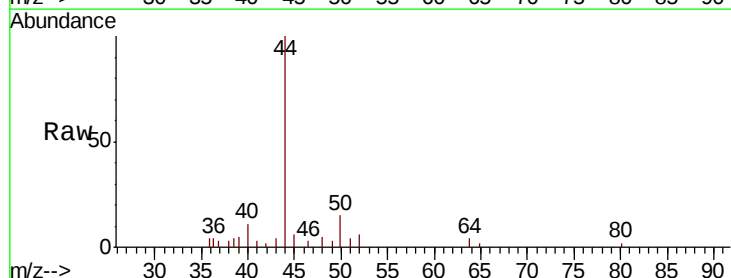
Acq: 18 May 2019 05:06

Tgt Ion: 50 Resp: 472

Ion Ratio Lower Upper

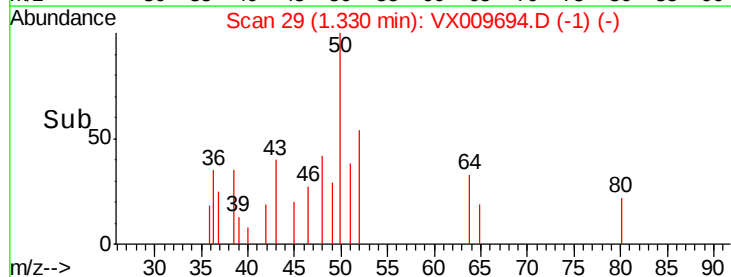
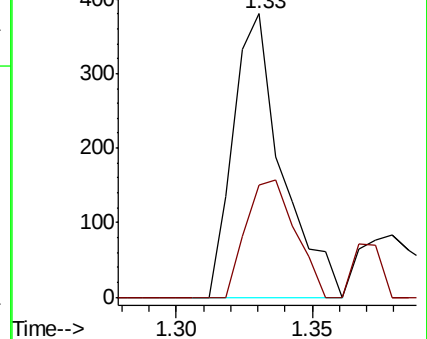
50 100

52 39.5 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.425 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX009694.D

Acq: 18 May 2019 05:06

Instrument :

MSVOA_X

ClientSampled :

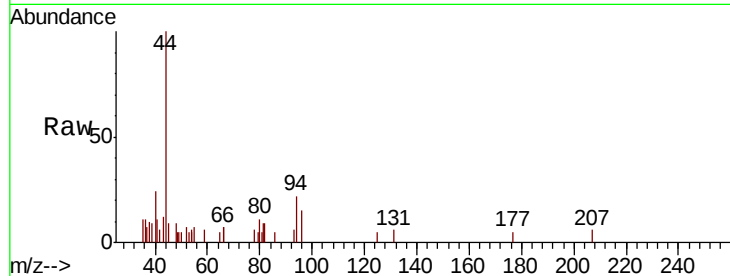
MW-15E_R2

Tot Ion: 94 Resp: 525

Ion Ratio Lower Upper

94 100

96 66.8 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

150

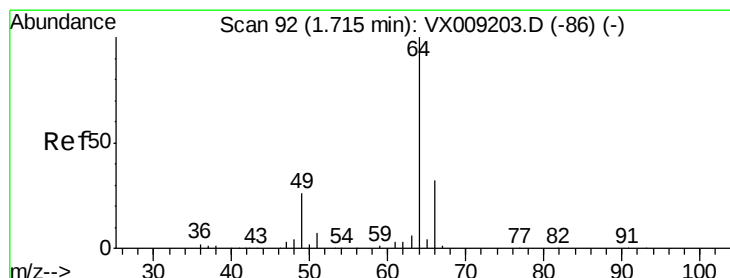
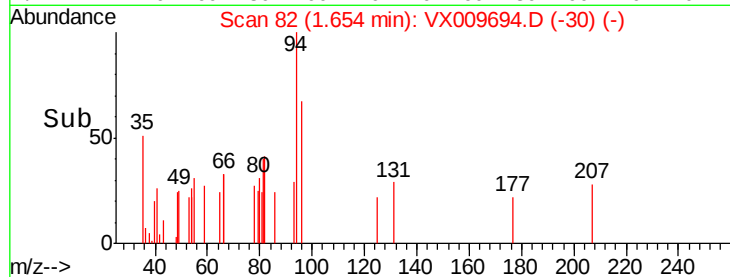
100

50

0

Time-->

1.60 1.65 1.70 1.75



#6

Chloroethane

Concen: 0.200 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX009694.D

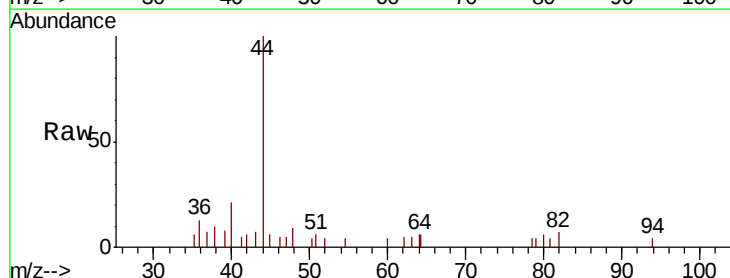
Acq: 18 May 2019 05:06

Tgt Ion: 64 Resp: 265

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

150

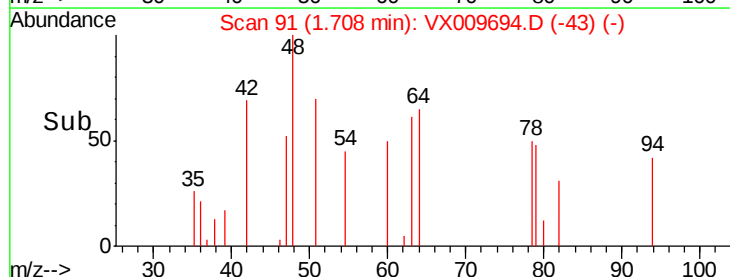
100

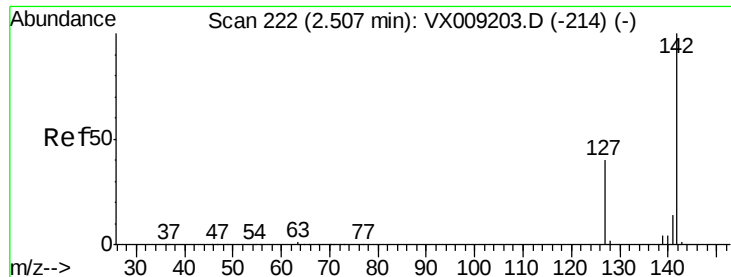
50

0

Time-->

1.65 1.70 1.75

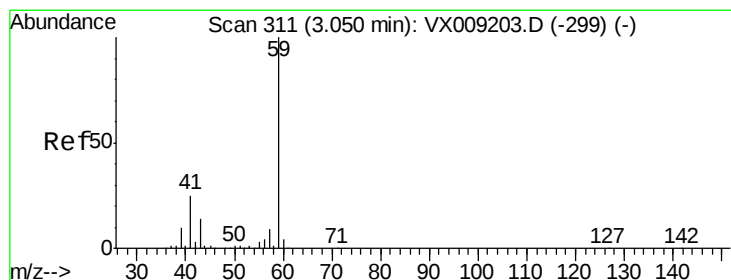
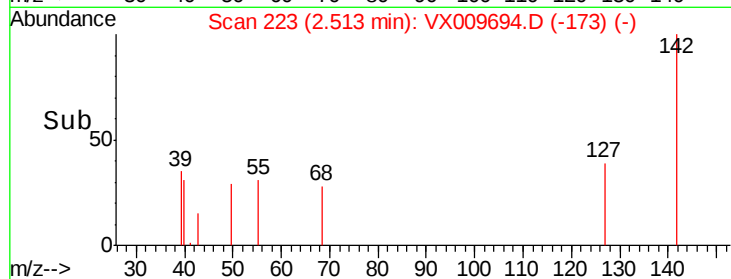
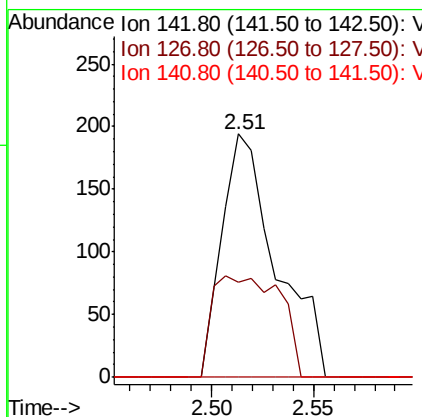
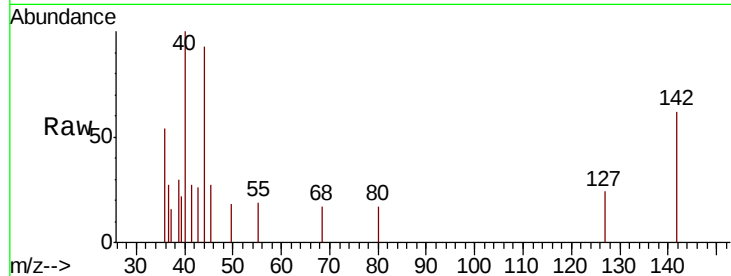




#10
Methvl Iodide
Concen: 4.773 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009694.D
Acq: 18 May 2019 05:06

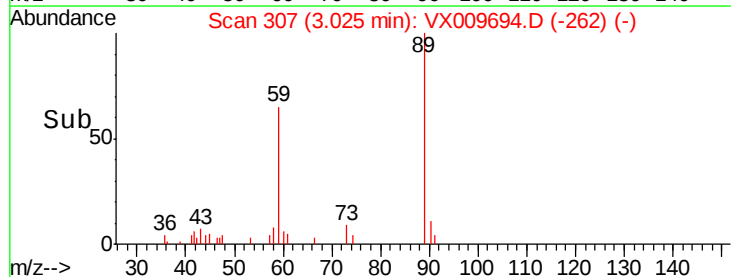
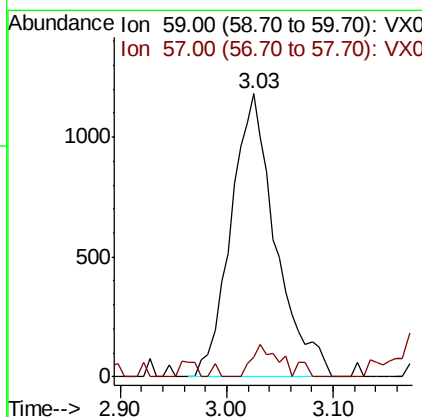
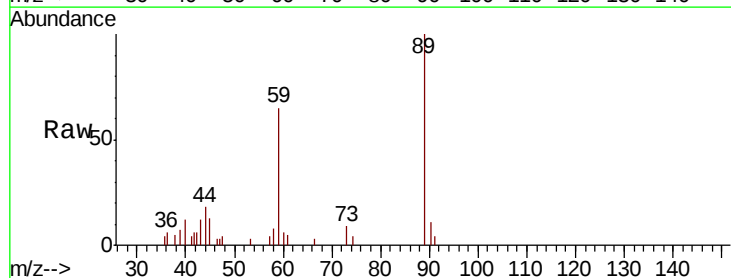
Instrument :
MSVOA_X
ClientSampleId :
MW-15E_R2

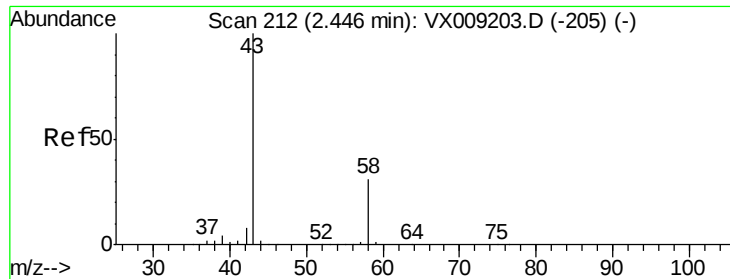
Tot Ion:142 Resp: 360
Ion Ratio Lower Upper
142 100
127 51.7 32.7 49.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 6.533 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009694.D
Acq: 18 May 2019 05:06

Tgt Ion: 59 Resp: 3466
Ion Ratio Lower Upper
59 100
57 6.4 8.2 12.2#





#16

Acetone

Concen: 3.161 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009694.D

Acq: 18 May 2019 05:06

Instrument :

MSVOA_X

ClientSampleId :

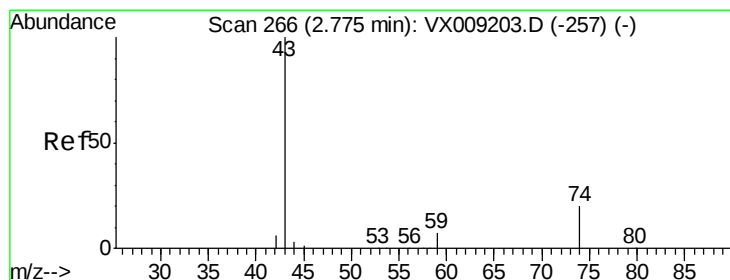
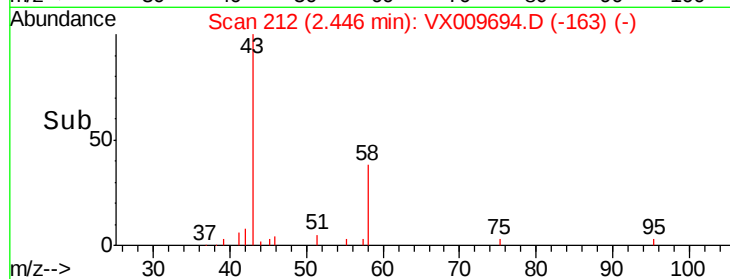
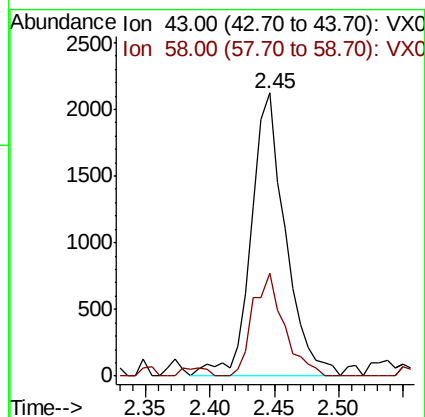
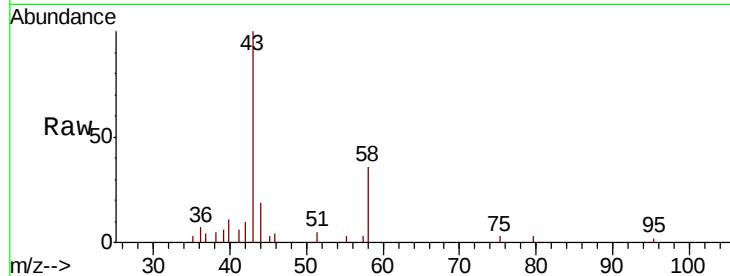
MW-15E_R2

Tot Ion: 43 Resp: 3890

Ion Ratio Lower Upper

43 100

58 36.1 24.9 37.3



#18

Methyl Acetate

Concen: 3.591 ug/l

RT: 2.61 min Scan# 239

Delta R.T. -0.16 min

Lab File: VX009694.D

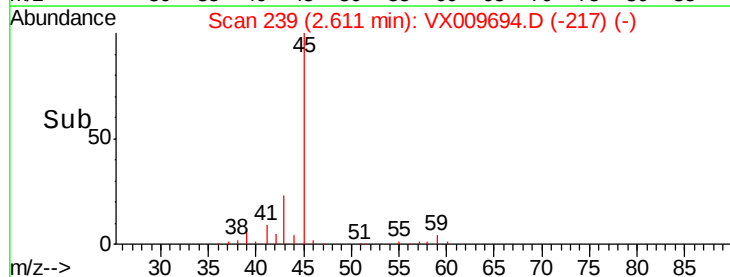
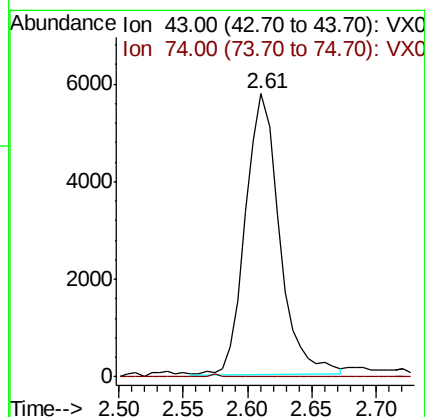
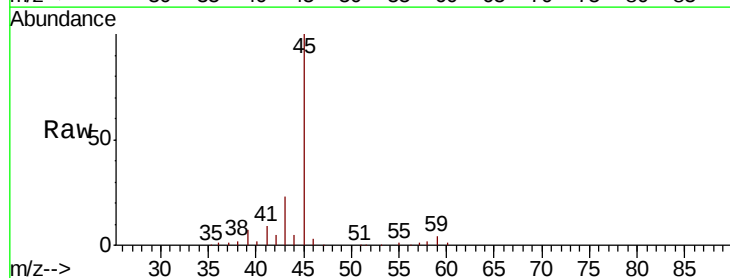
Acq: 18 May 2019 05:06

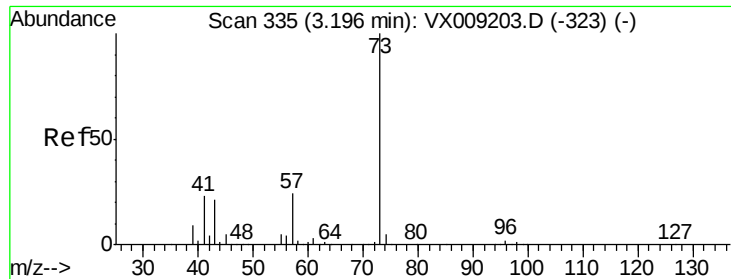
Tgt Ion: 43 Resp: 10511

Ion Ratio Lower Upper

43 100

74 0.0 16.2 24.4#



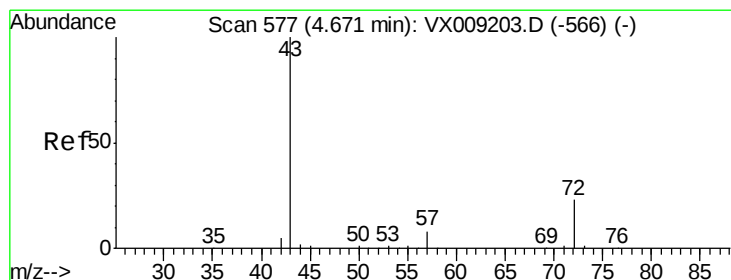
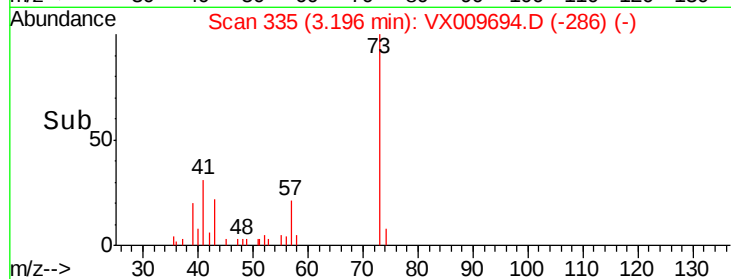
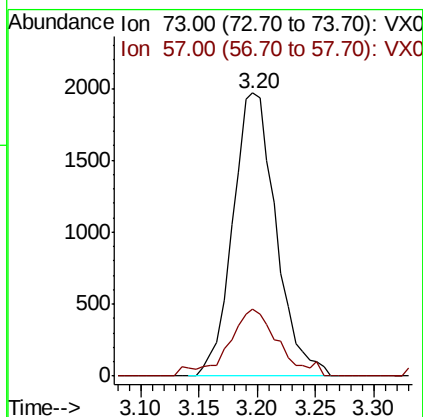
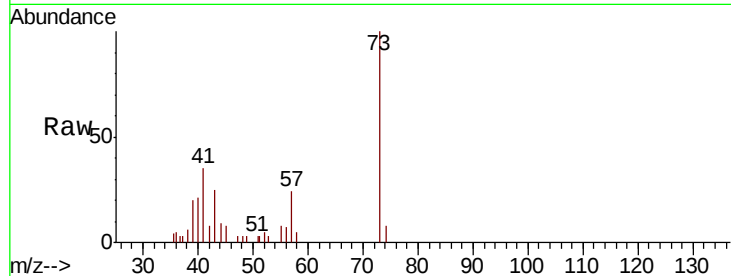


#19

Methyl tert-butyl Ether
 Concen: 0.828 ug/l
 RT: 3.20 min Scan# 335
 Delta R.T. -0.00 min
 Lab File: VX009694.D
 Acq: 18 May 2019 05:06

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-15E_R2

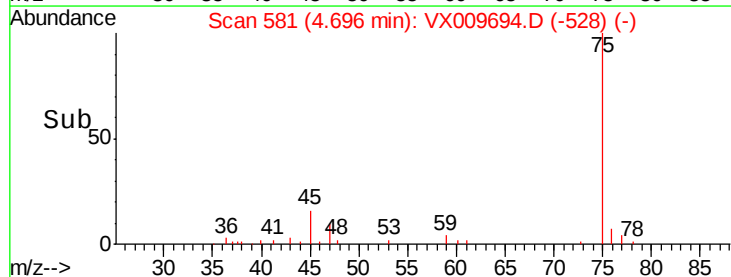
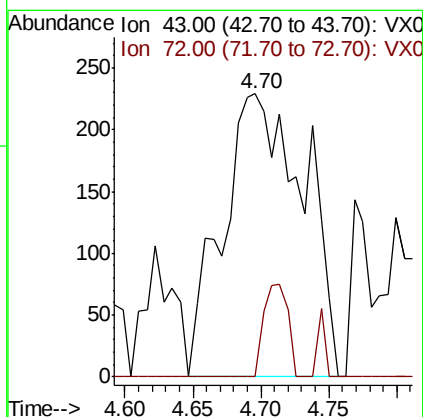
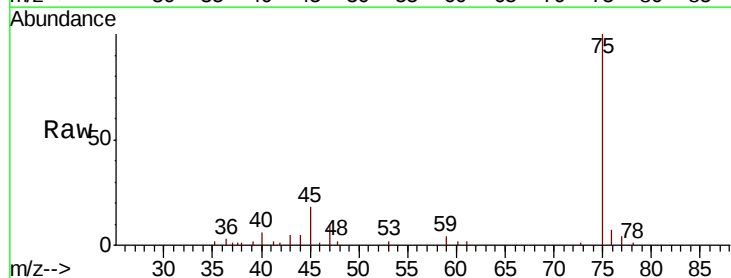
Tot Ion: 73 Resp: 5066
 Ion Ratio Lower Upper
 73 100
 57 23.7 19.3 28.9

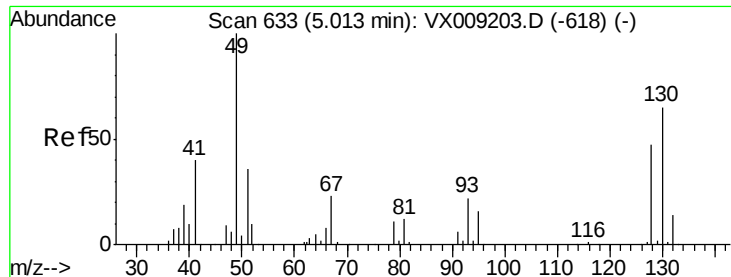


#25

2-Butanone
 Concen: 0.501 ug/l
 RT: 4.70 min Scan# 581
 Delta R.T. 0.02 min
 Lab File: VX009694.D
 Acq: 18 May 2019 05:06

Tgt Ion: 43 Resp: 959
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. 0.00 min

Lab File: VX009694.D

Acq: 18 May 2019 05:06

Instrument :

MSVOA_X

ClientSampleId :

MW-15E_R2

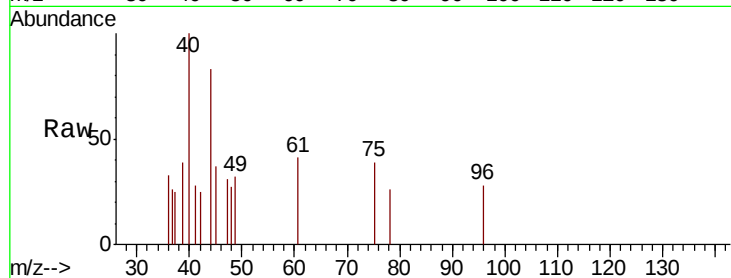
Tot Ion: 49 Resp: 25

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

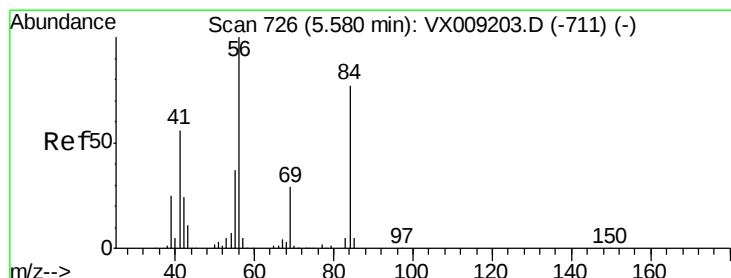
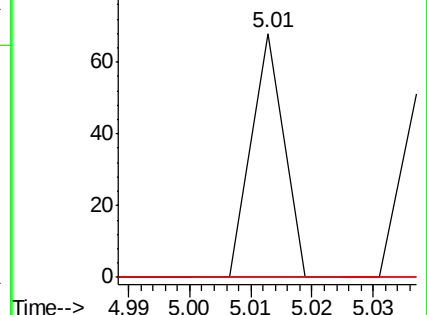
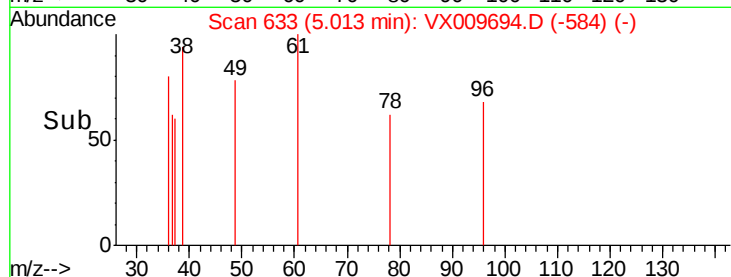
130 0.0 51.2 76.8#



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



#31

Cyclohexane

Concen: 1.175 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009694.D

Acq: 18 May 2019 05:06

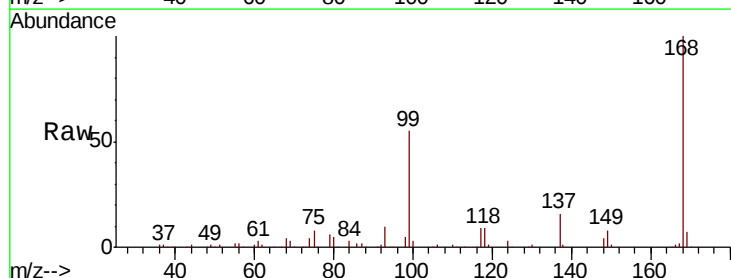
Tgt Ion: 56 Resp: 3981

Ion Ratio Lower Upper

56 100

69 141.8 23.4 35.0#

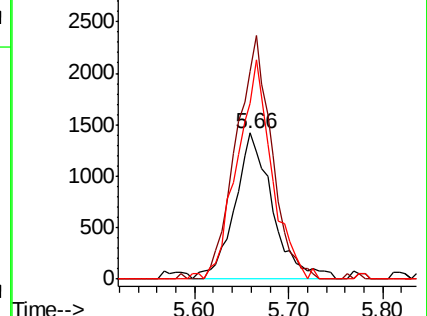
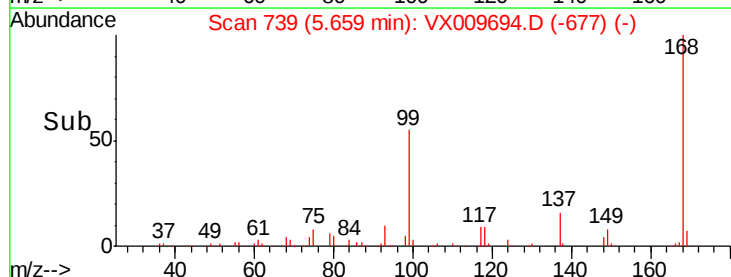
84 120.4 61.9 92.9#

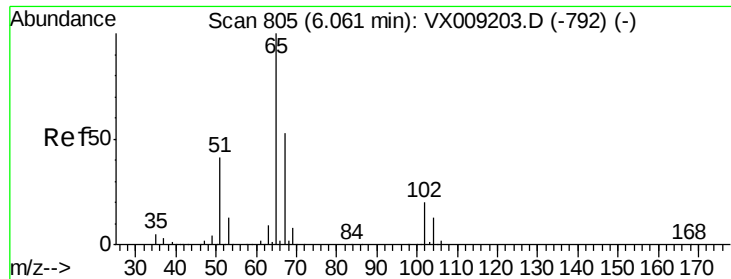


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.309 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009694.D

Acq: 18 May 2019 05:06

Instrument :

MSVOA_X

ClientSampleId :

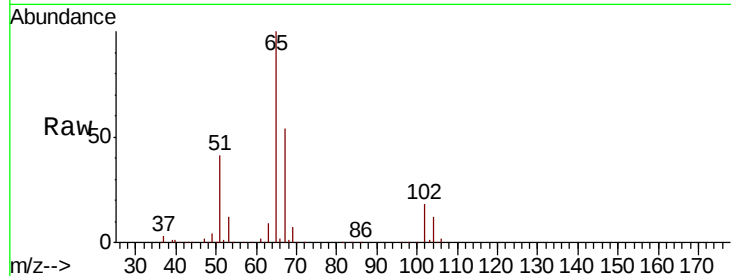
MW-15E_R2

Tot Ion: 65 Resp: 113014

Ion Ratio Lower Upper

65 100

67 53.9 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

40000

30000

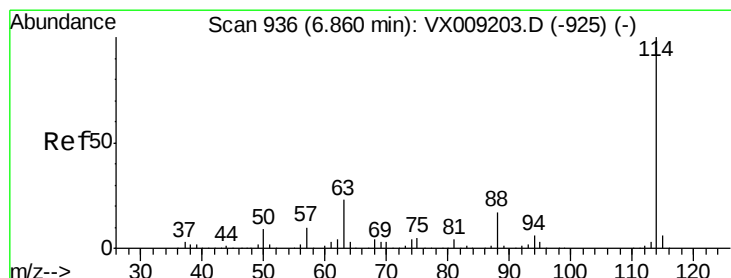
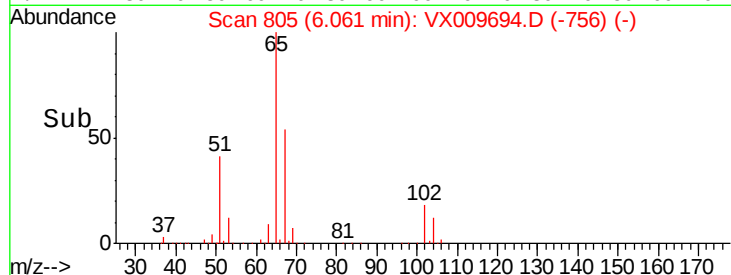
20000

10000

0

5.90 6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009694.D

Acq: 18 May 2019 05:06

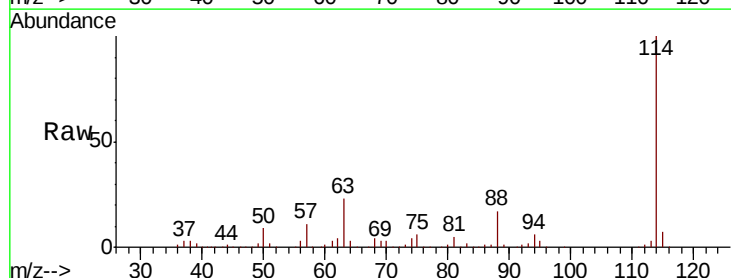
Tgt Ion: 114 Resp: 265248

Ion Ratio Lower Upper

114 100

63 23.4 0.0 45.6

88 17.0 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

150000

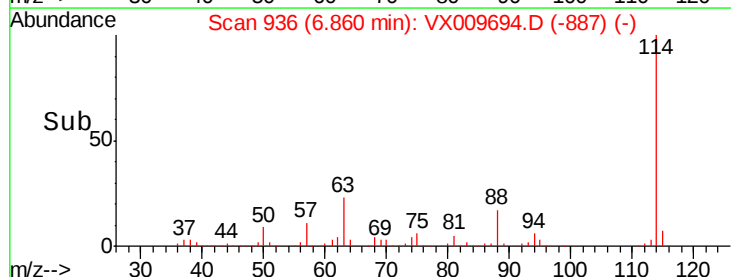
100000

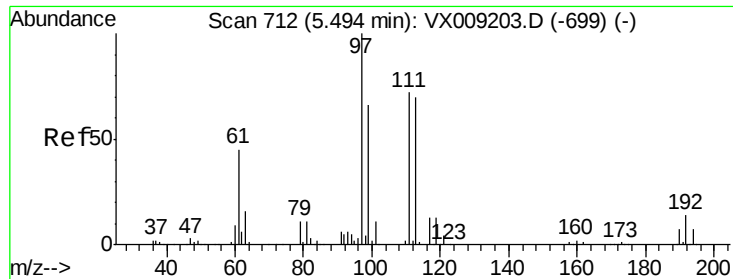
50000

0

6.70 6.80 6.90 7.00

Time-->

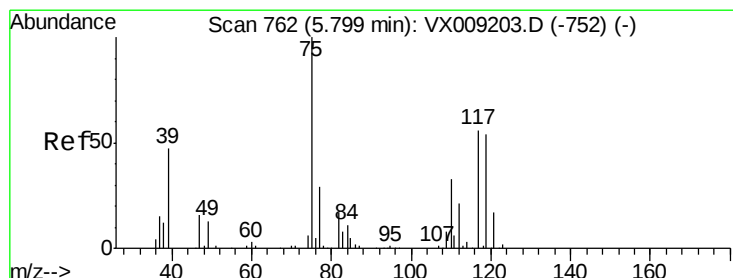
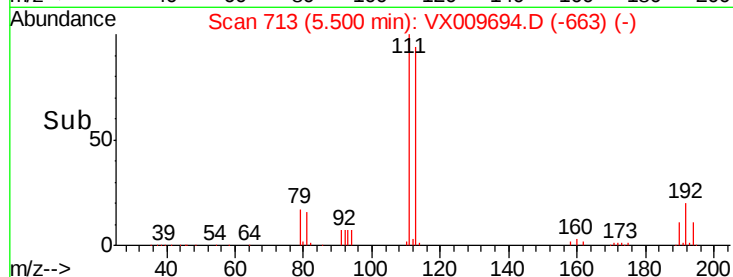
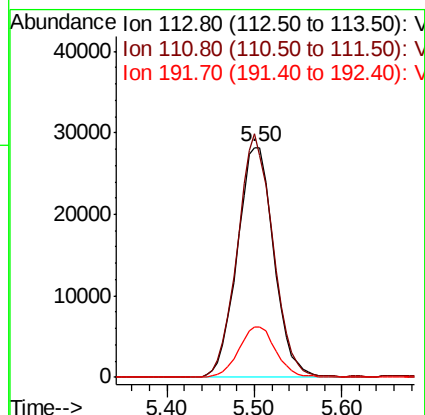
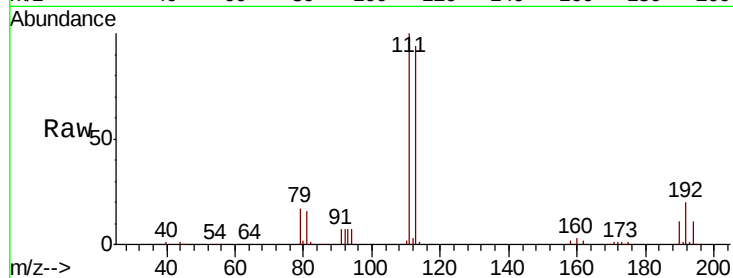




#35
 Dibromofluoromethane
 Concen: 49.301 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009694.D
 Acq: 18 May 2019 05:06

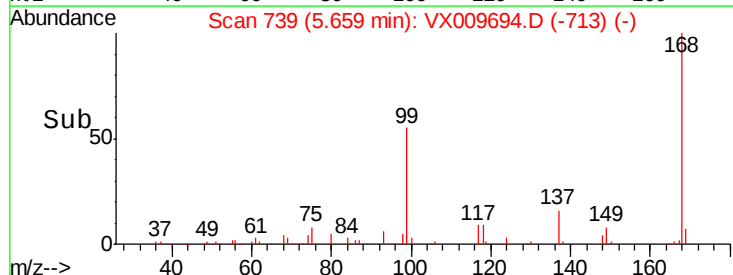
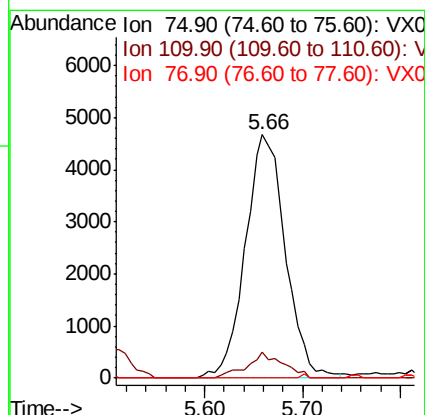
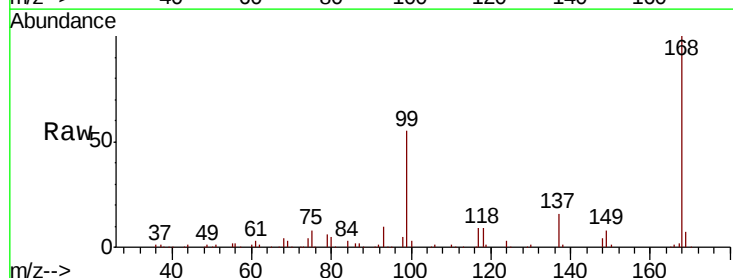
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-15E_R2

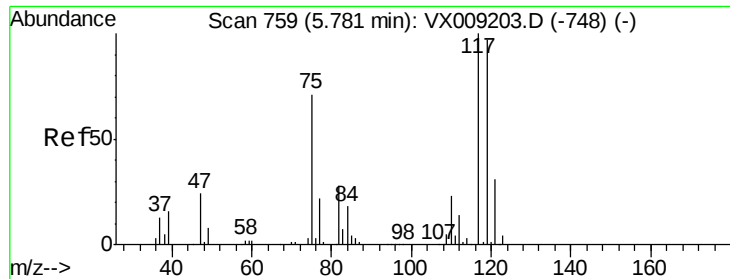
Tot Ion:113 Resp: 82207
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.8 124.2
 192 21.9 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.401 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009694.D
 Acq: 18 May 2019 05:06

Tgt Ion: 75 Resp: 13314
 Ion Ratio Lower Upper
 75 100
 110 9.6 16.9 50.6#
 77 0.0 24.8 37.2#

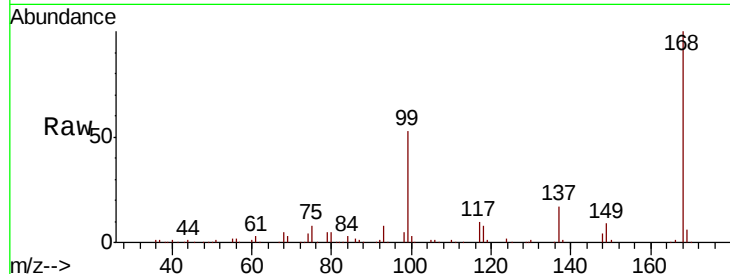




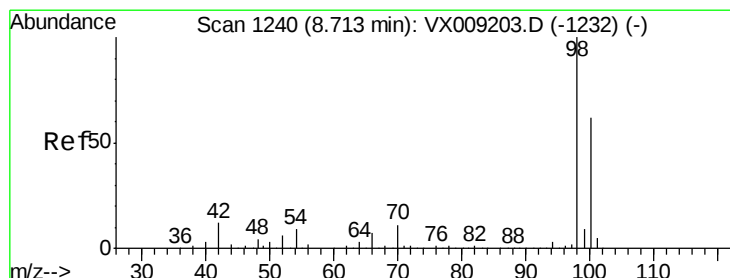
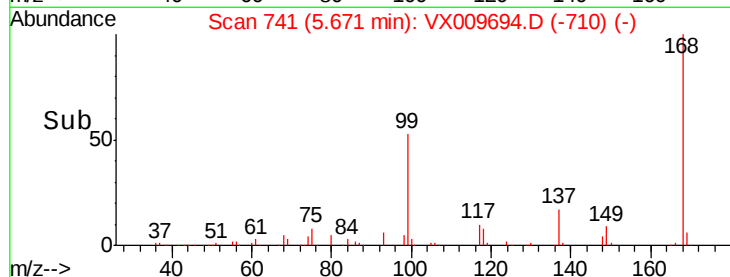
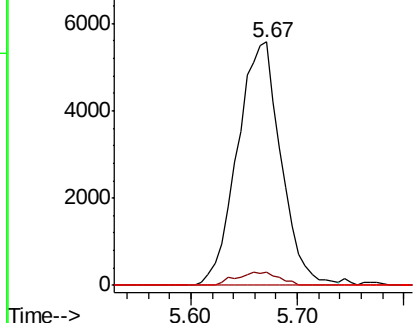
#38
Carbon Tetrachloride
Concen: 7.137 ug/l
RT: 5.67 min Scan# 741
Delta R.T. -0.11 min
Lab File: VX009694.D
Acq: 18 May 2019 05:06

Instrument :
MSVOA_X
ClientSampled :
MW-15E_R2

Tot Ion:117 Resp: 15984
Ion Ratio Lower Upper
117 100
119 5.3 77.5 116.3#
121 0.0 24.7 37.1#

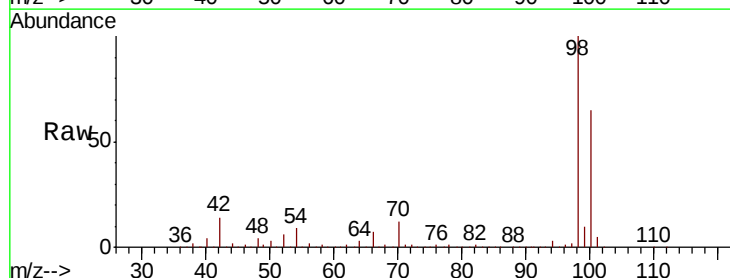


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

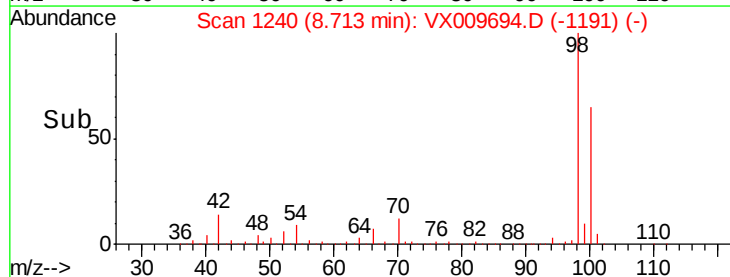
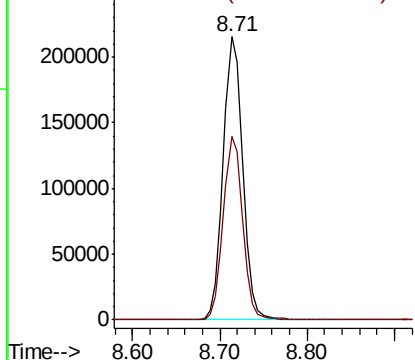


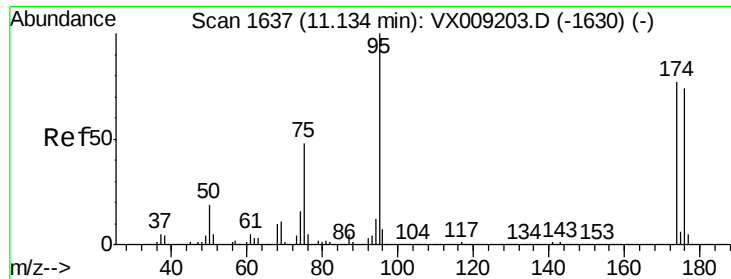
#50
Toluene-d8
Concen: 49.711 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009694.D
Acq: 18 May 2019 05:06

Tgt Ion: 98 Resp: 334648
Ion Ratio Lower Upper
98 100
100 64.2 51.2 76.8



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





#62

4-Bromofluorobenzene

Concen: 43.189 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009694.D

Acq: 18 May 2019 05:06

Instrument :

MSVOA_X

ClientSampleId :

MW-15E_R2

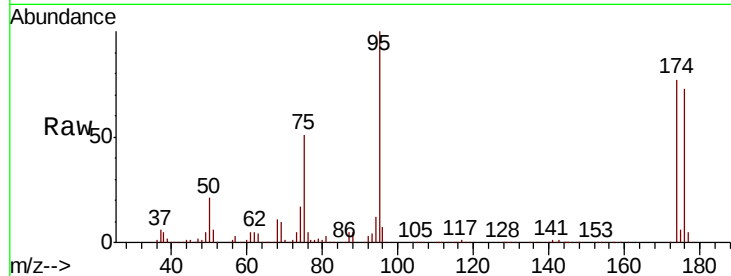
Tot Ion: 95 Resp: 105646

Ion Ratio Lower Upper

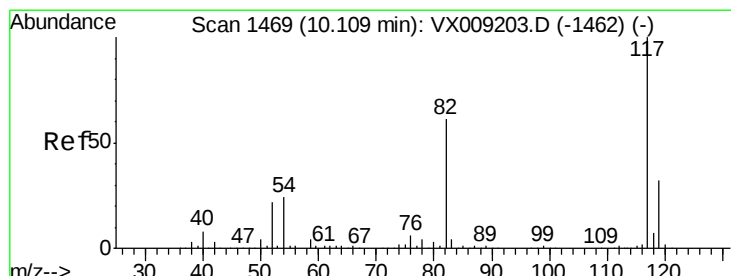
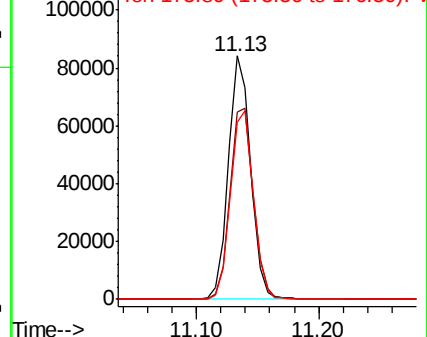
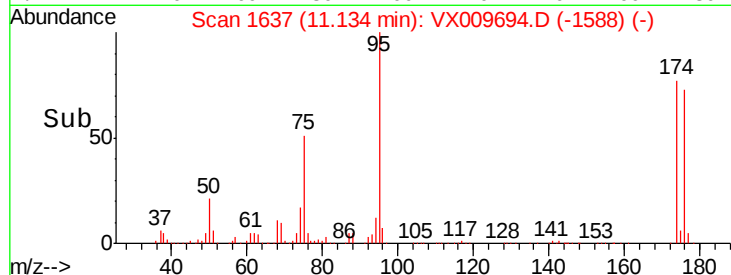
95 100

174 82.2 0.0 161.6

176 79.7 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009694.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009694.D

Acq: 18 May 2019 05:06

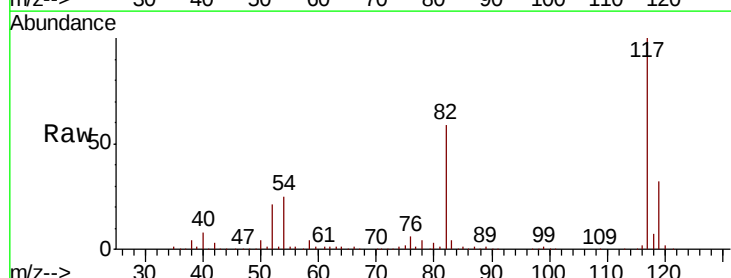
Tgt Ion: 117 Resp: 231461

Ion Ratio Lower Upper

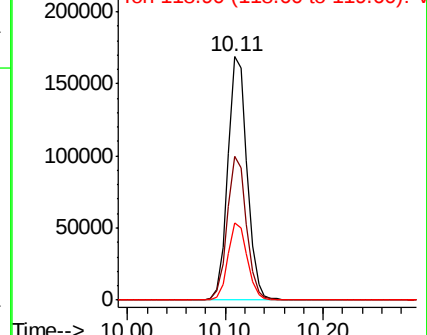
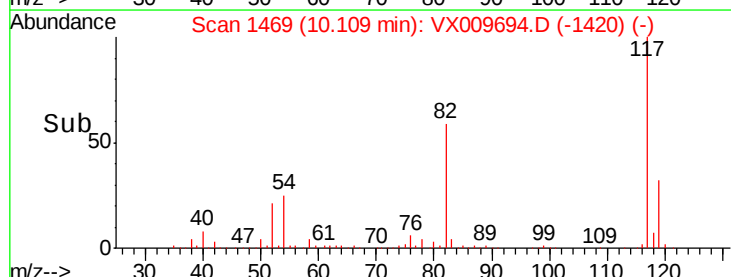
117 100

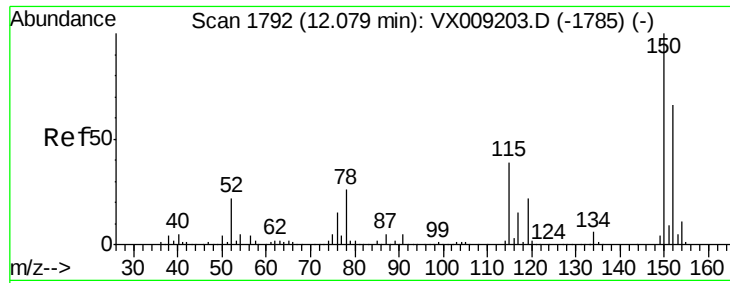
82 59.3 48.8 73.2

119 31.7 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX009694.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009694.D

Acq: 18 May 2019 05:06

Instrument :

MSVOA_X

ClientSampleId :

MW-15E_R2

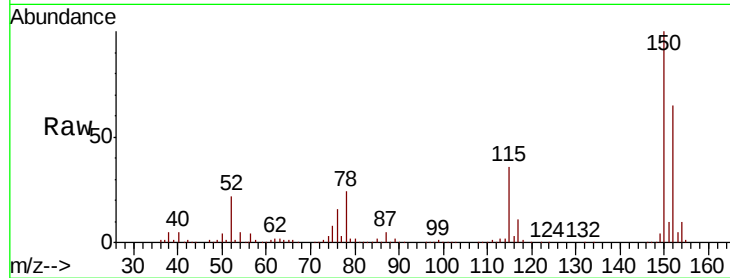
Tot Ion:152 Resp: 92656

Ion Ratio Lower Upper

152 100

115 58.3 41.2 123.6

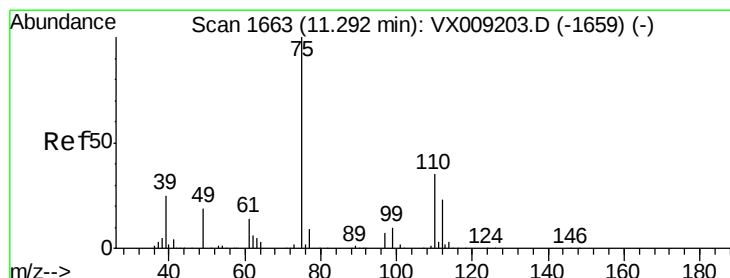
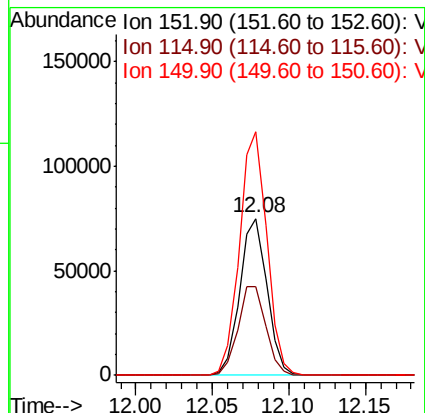
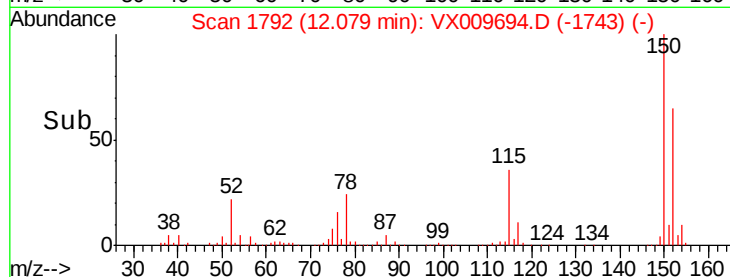
150 155.6 0.0 346.4



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: 25.326 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009694.D

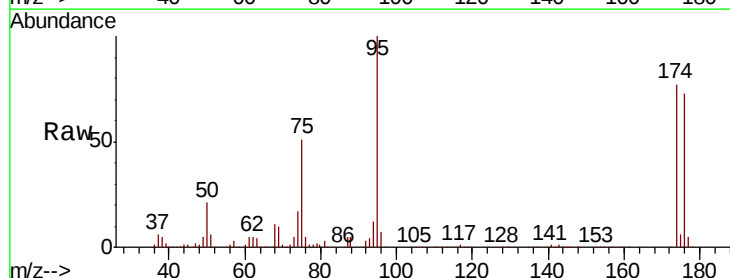
Acq: 18 May 2019 05:06

Tgt Ion: 75 Resp: 54432

Ion Ratio Lower Upper

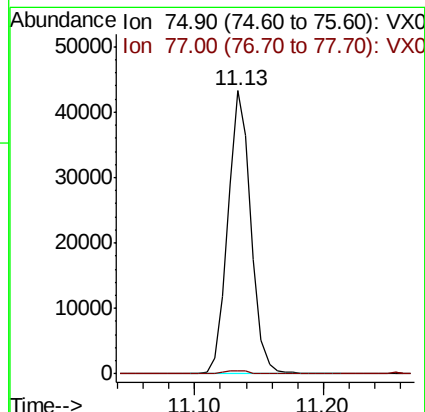
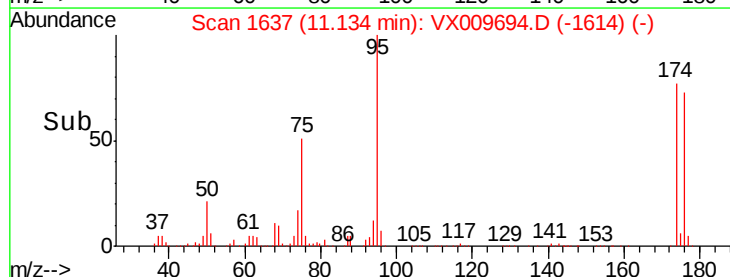
75 100

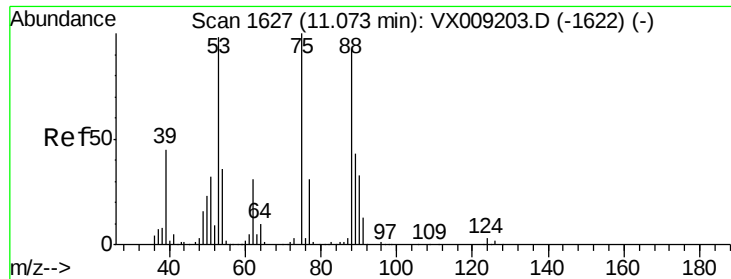
77 1.3 22.1 66.1#



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: 64.799 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009694.D

Acq: 18 May 2019 05:06

Instrument :

MSVOA_X

ClientSampleId :

MW-15E_R2

Tot Ion: 75 Resp: 54432

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.1 34.7 52.1#

