

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022619\
 Data File : VX007724.D
 Acq On : 26 Feb 2019 19:59
 Operator : JC/SP
 Sample : K1610-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WV-E

Quant Time: Feb 27 00:20:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	350344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	613275	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	596474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	265069	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	222570	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
35) Dibromofluoromethane	5.51	113	201152	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
50) Toluene-d8	8.71	98	758234	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
62) 4-Bromofluorobenzene	11.13	95	264136	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	

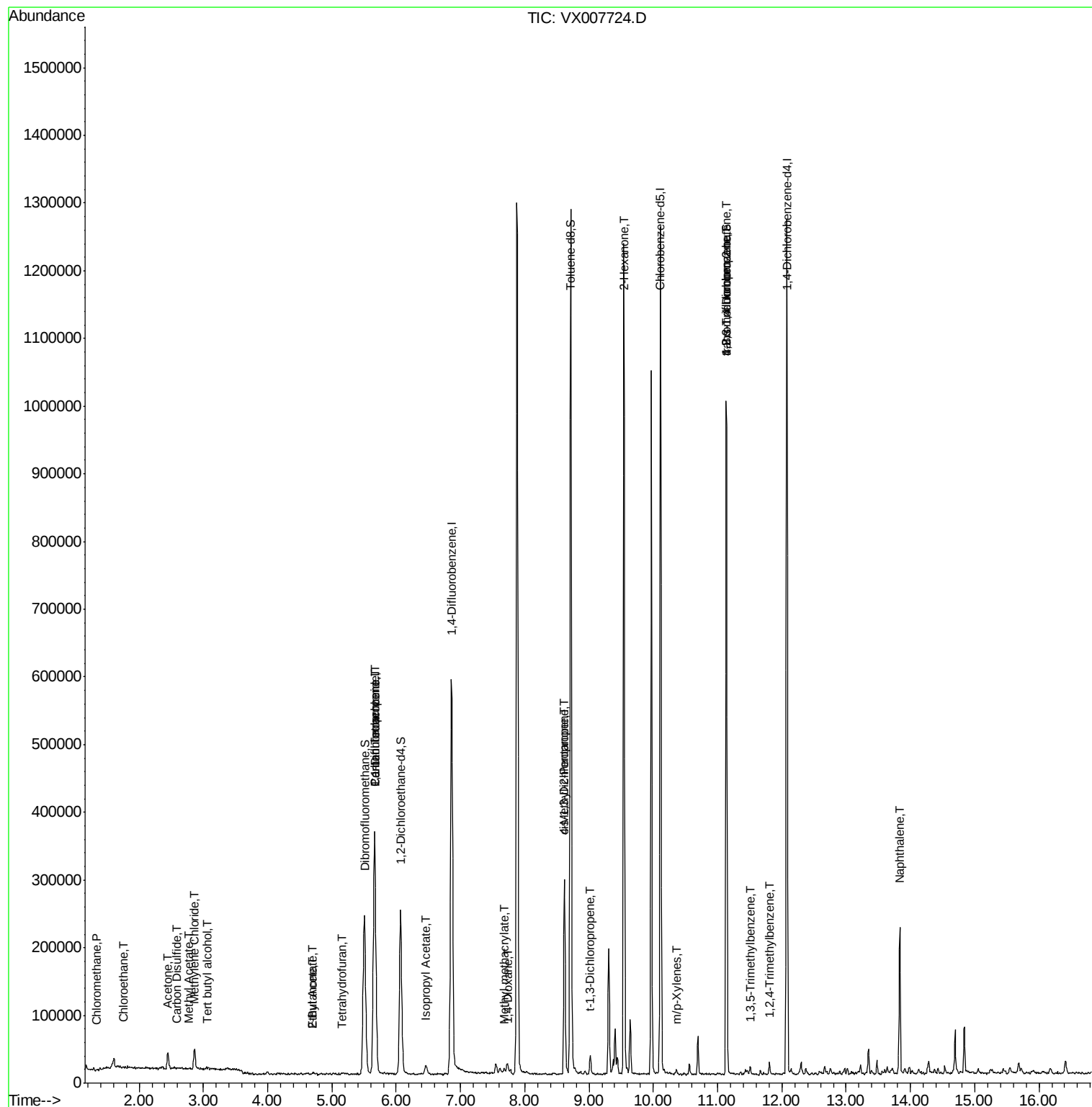
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	937	0.262	ug/l #	51
5) Bromomethane	1.65	94	170	Below Cal	#	71
6) Chloroethane	1.75	64	663	0.283	ug/l #	54
11) Tert butyl alcohol	3.06	59	1515	1.840	ug/l #	74
16) Acetone	2.45	43	29727	15.404	ug/l	98
17) Carbon Disulfide	2.57	76	1882	0.221	ug/l #	70
18) Methyl Acetate	2.78	43	2585	0.614	ug/l #	89
20) Methylene Chloride	2.86	84	13914	3.905	ug/l	96
25) 2-Butanone	4.69	43	2088	0.710	ug/l #	81
29) Tetrahydrofuran	5.15	42	2414	1.246	ug/l #	60
36) 1,1-Dichloropropene	5.66	75	24506	4.445	ug/l #	50
37) Ethyl Acetate	4.69	43	2088	0.341	ug/l	98
38) Carbon Tetrachloride	5.66	117	33783	6.100	ug/l #	18
43) Isopropyl Acetate	6.46	43	19197	2.037	ug/l	99
48) Methyl methacrylate	7.68	41	9395	1.901	ug/l #	14
49) 1,4-Dioxane	7.75	88	127	1.190	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	92507	14.661	ug/l #	50
53) t-1,3-Dichloropropene	9.02	75	221	2.834	ug/l #	18
54) cis-1,3-Dichloropropene	8.62	75	45906	7.097	ug/l #	68
59) 2-Hexanone	9.54	43	132998	26.848	ug/l #	53
68) m/p-Xylenes	10.36	106	1972	0.237	ug/l #	69
76) 1,2,3-Trichloropropane	11.13	75	127827	22.624	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	4753	0.305	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.13	75	127827	59.986	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	8179	0.513	ug/l	95
95) Naphthalene	13.83	128	136201	7.809	ug/l	99

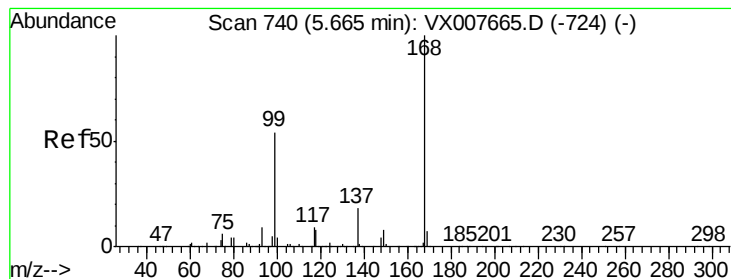
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampleId :
WV-E

Quant Time: Feb 27 00:20:49 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 01:53:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

Instrument :

MSVOA_X

ClientSampled :

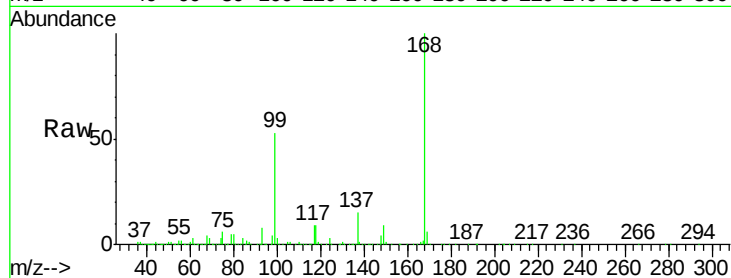
WV-E

Tot Ion:168 Resp: 350344

Ion Ratio Lower Upper

168 100

99 52.5 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

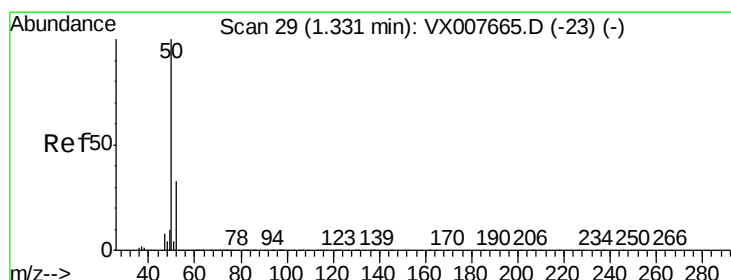
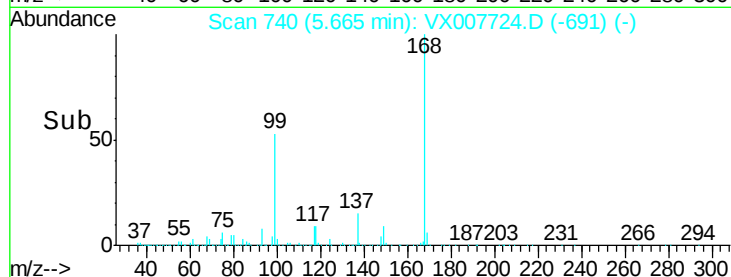
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.262 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007724.D

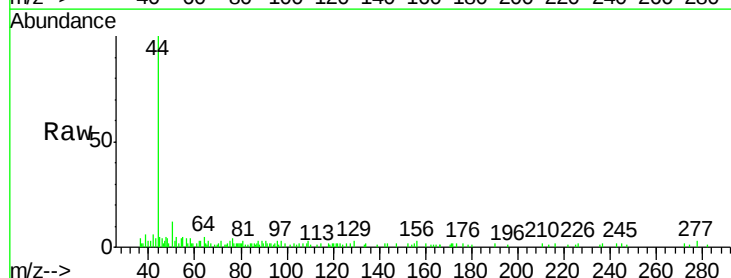
Acq: 26 Feb 2019 19:59

Tgt Ion: 50 Resp: 937

Ion Ratio Lower Upper

50 100

52 5.2 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

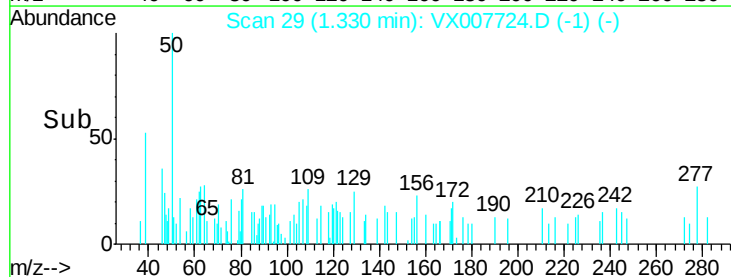
300

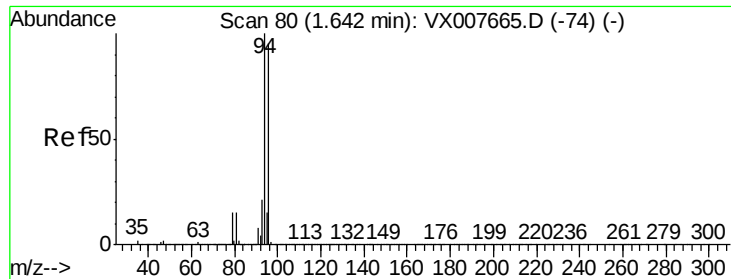
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

Instrument :

MSVOA_X

ClientSampled :

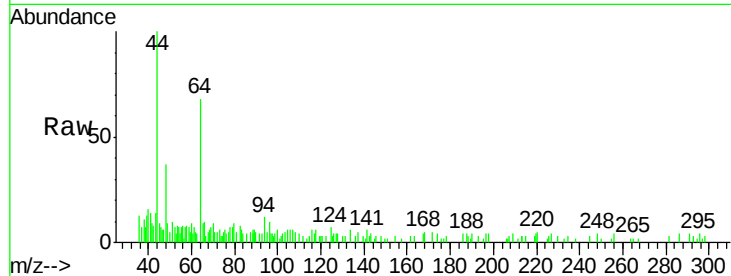
WV-E

Tot Ion: 94 Resp: 170

Ion Ratio Lower Upper

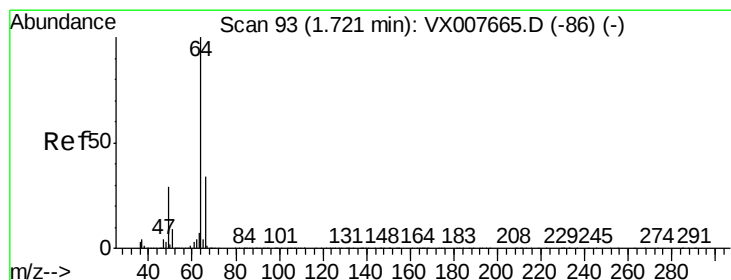
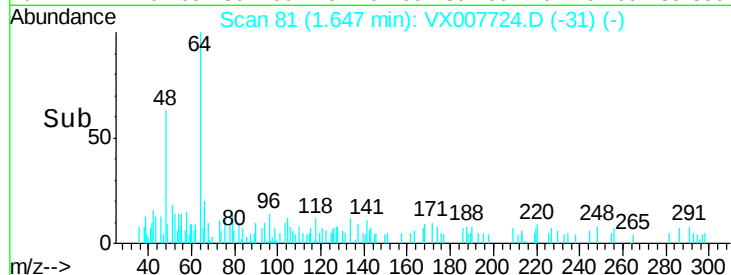
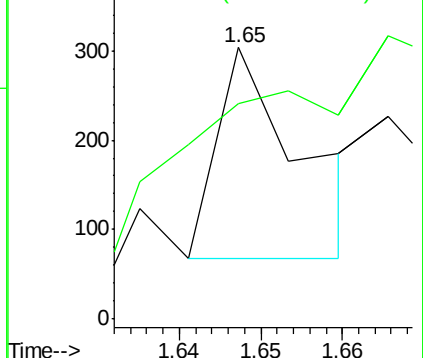
94 100

96 65.0 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.283 ug/l

RT: 1.75 min Scan# 98

Delta R.T. 0.03 min

Lab File: VX007724.D

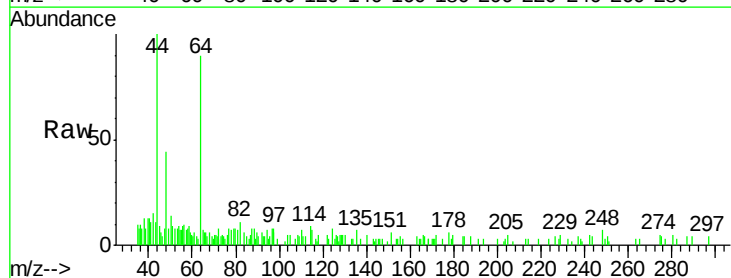
Acq: 26 Feb 2019 19:59

Tgt Ion: 64 Resp: 663

Ion Ratio Lower Upper

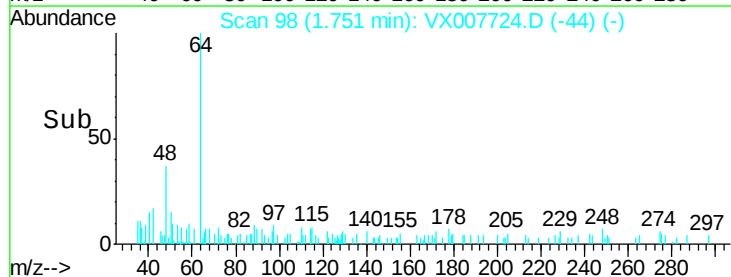
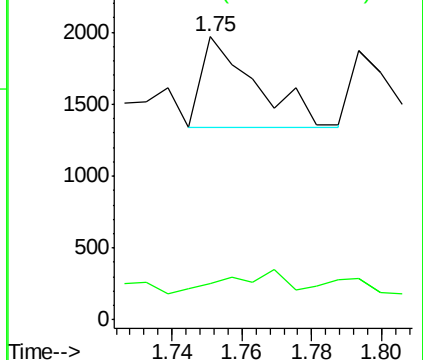
64 100

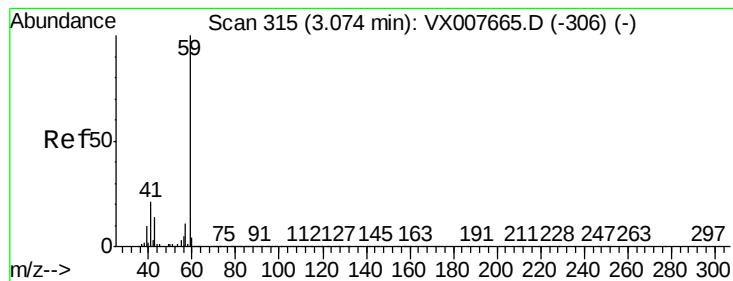
66 6.4 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



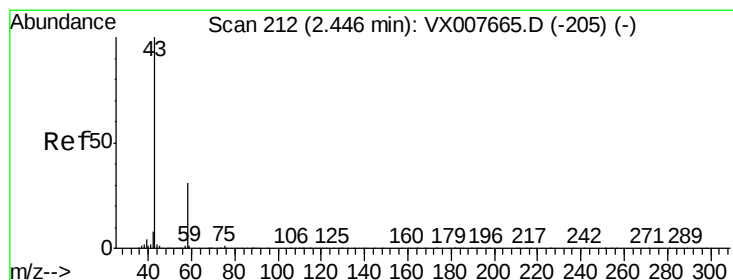
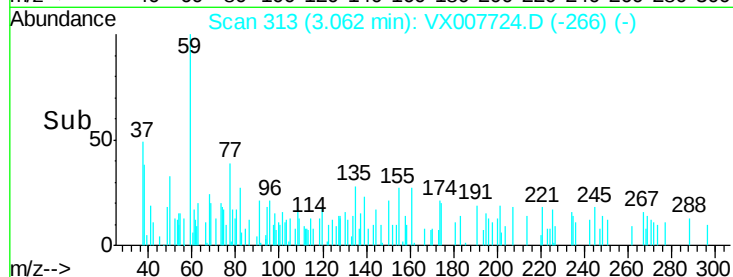
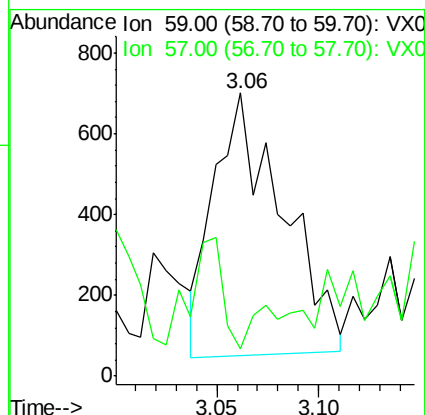
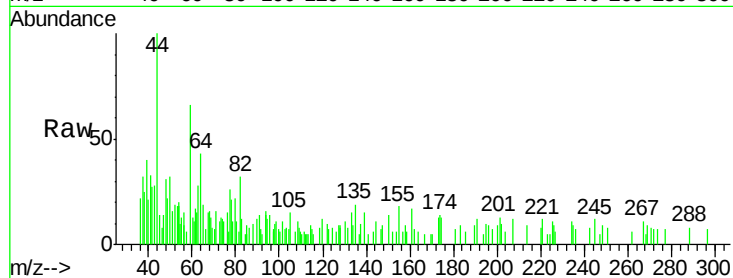


#11

Tert butyl alcohol
Concen: 1.840 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.01 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

Instrument :
MSVOA_X
ClientSampled :
WV-E

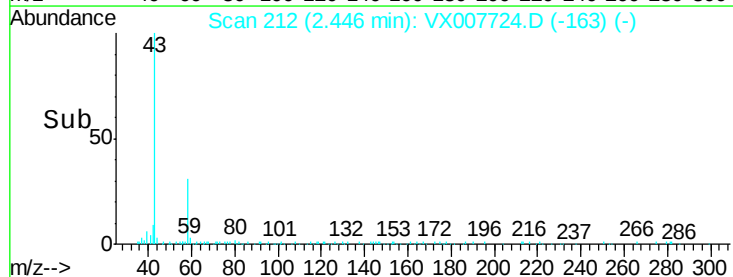
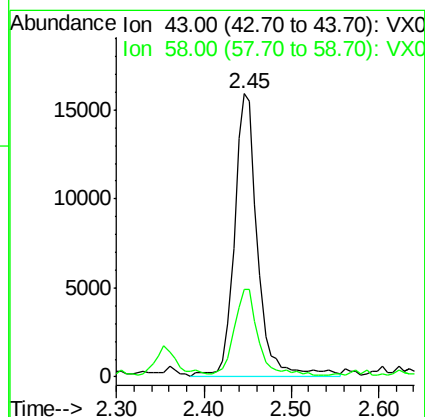
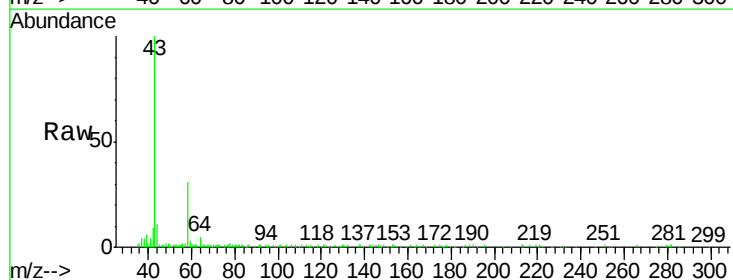
Tot Ion: 59 Resp: 1515
Ion Ratio Lower Upper
59 100
57 19.7 8.1 12.1#

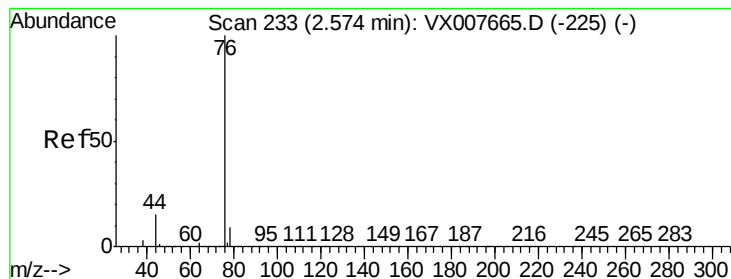


#16

Acetone
Concen: 15.404 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

Tgt Ion: 43 Resp: 29727
Ion Ratio Lower Upper
43 100
58 29.8 24.9 37.3





#17

Carbon Disulfide

Concen: 0.221 ug/l

RT: 2.57 min Scan# 233

Delta R.T. -0.00 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

Instrument :

MSVOA_X

ClientSampled :

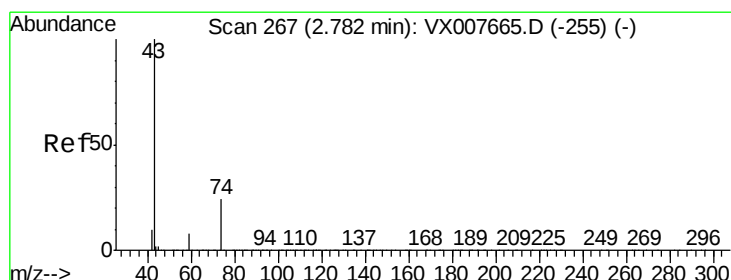
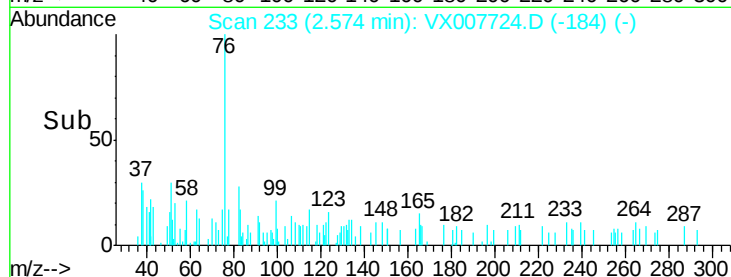
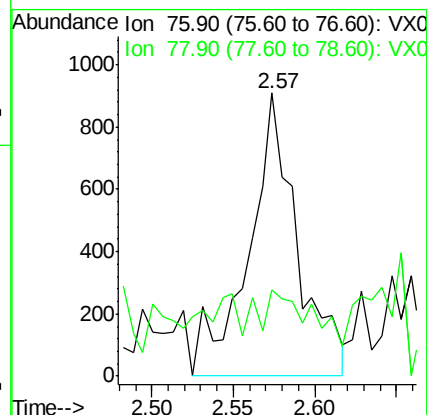
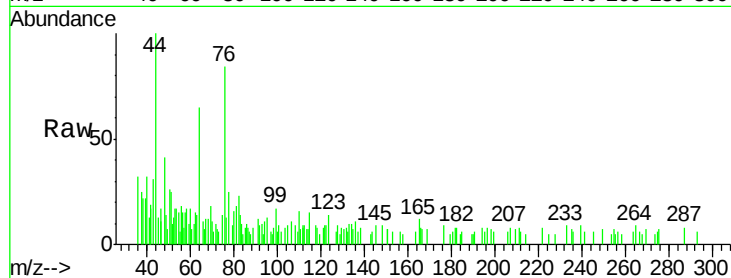
WV-E

Tot Ion: 76 Resp: 1882

Ion Ratio Lower Upper

76 100

78 19.7 7.1 10.7#



#18

Methyl Acetate

Concen: 0.614 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX007724.D

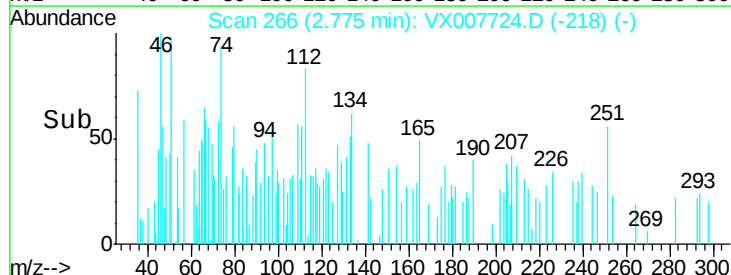
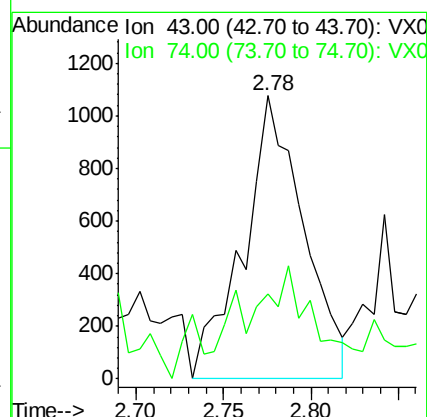
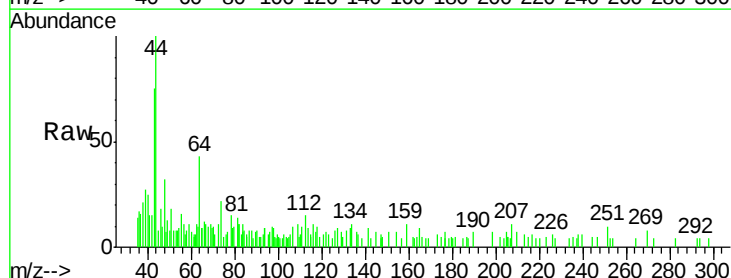
Acq: 26 Feb 2019 19:59

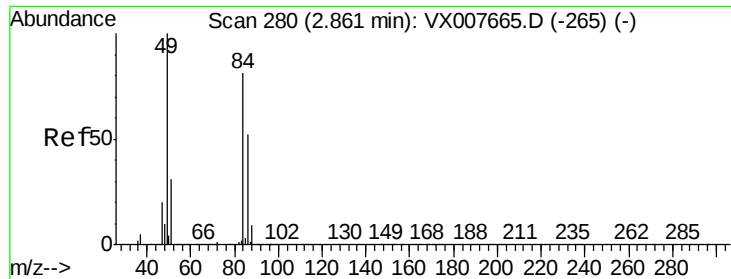
Tgt Ion: 43 Resp: 2585

Ion Ratio Lower Upper

43 100

74 19.1 19.4 29.2#





#20

Methvlene Chloride

Concen: 3.905 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

Instrument :

MSVOA_X

ClientSampled :

WV-E

Tot Ion: 84 Resp: 13914

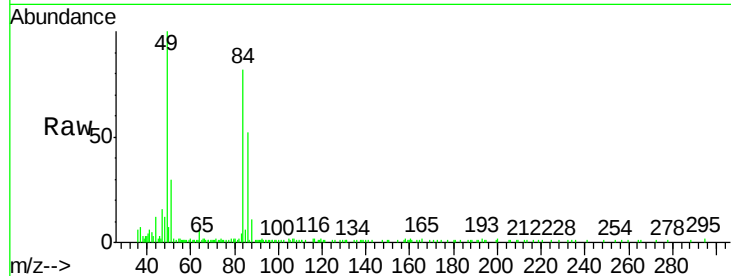
Ion Ratio Lower Upper

84 100

49 120.7 94.8 142.2

51 34.0 29.8 44.8

86 62.5 54.1 81.1

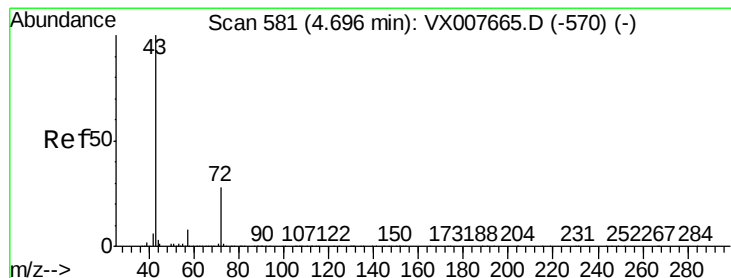
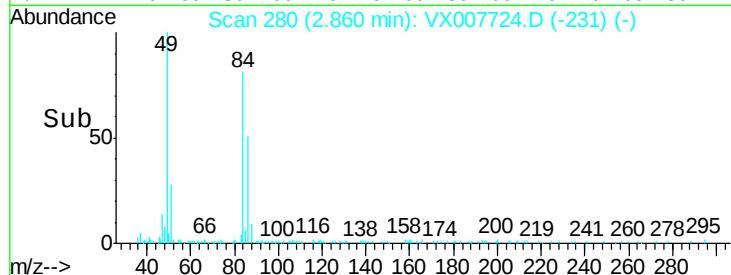
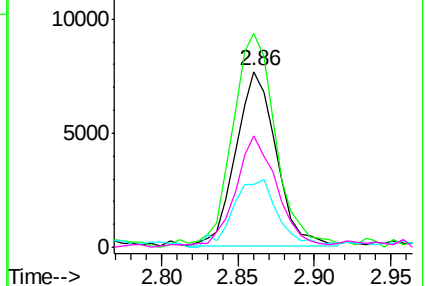


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 0.710 ug/l

RT: 4.69 min Scan# 580

Delta R.T. -0.01 min

Lab File: VX007724.D

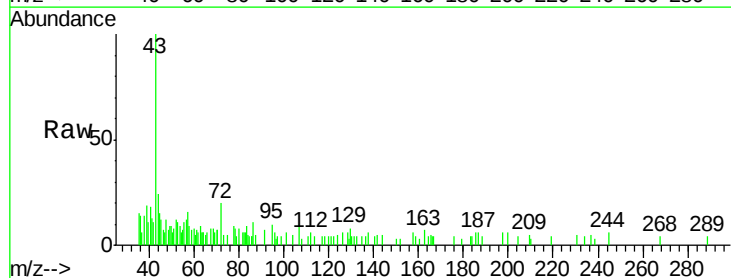
Acq: 26 Feb 2019 19:59

Tgt Ion: 43 Resp: 2088

Ion Ratio Lower Upper

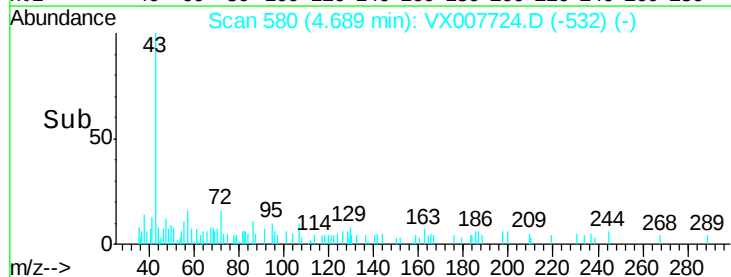
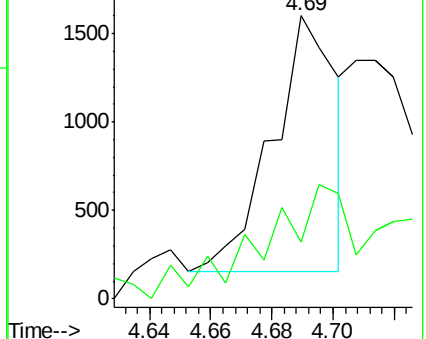
43 100

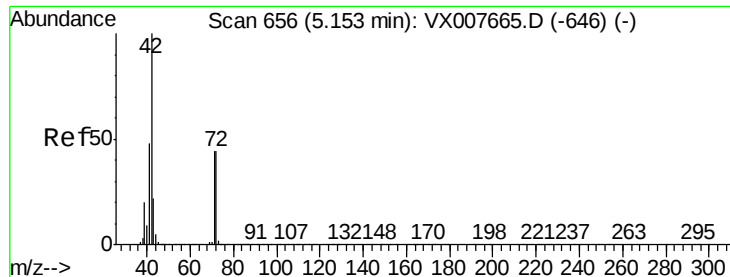
72 17.8 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.246 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

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ClientSampleId :

WV-E

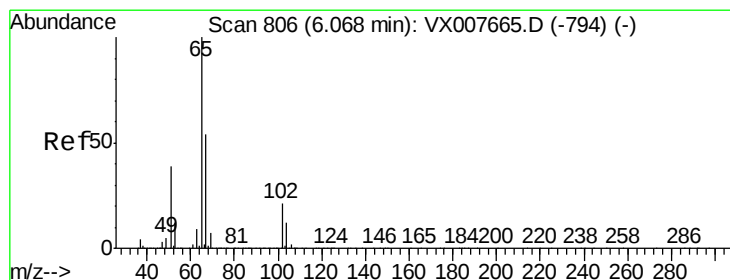
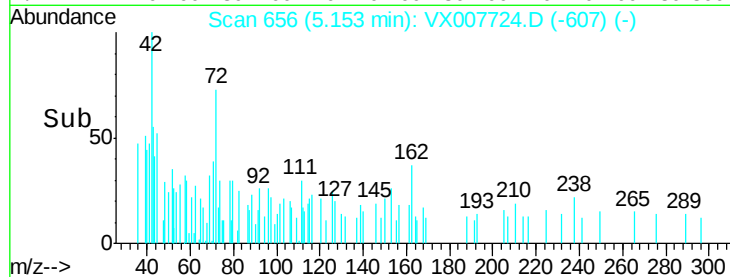
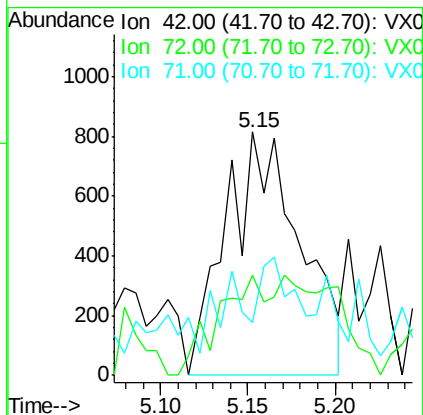
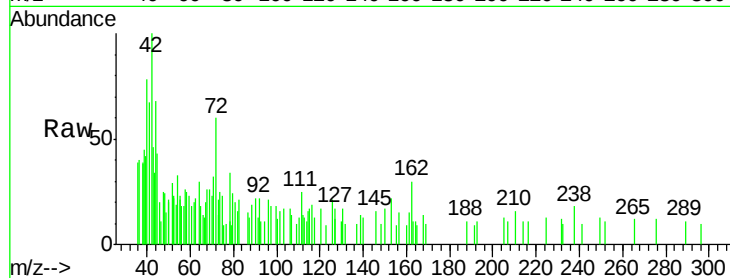
Tot Ion: 42 Resp: 2414

Ion Ratio Lower Upper

42 100

72 25.4 37.6 56.4#

71 12.4 34.6 51.8#



#33

1,2-Dichloroethane-d4

Concen: 51.288 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007724.D

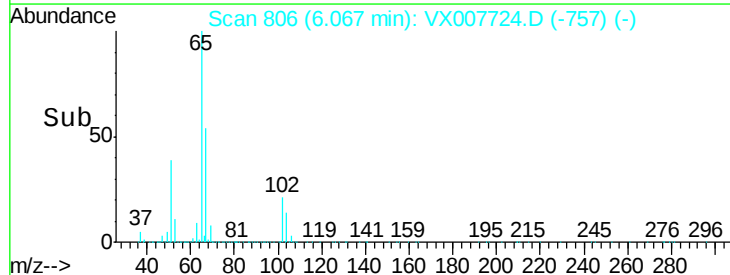
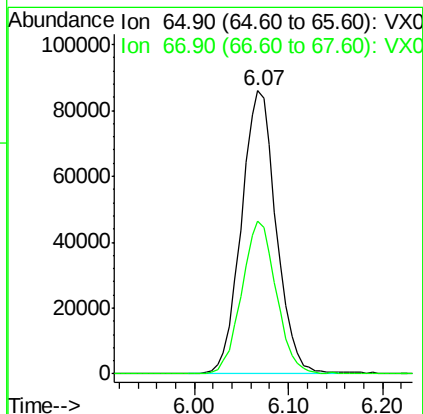
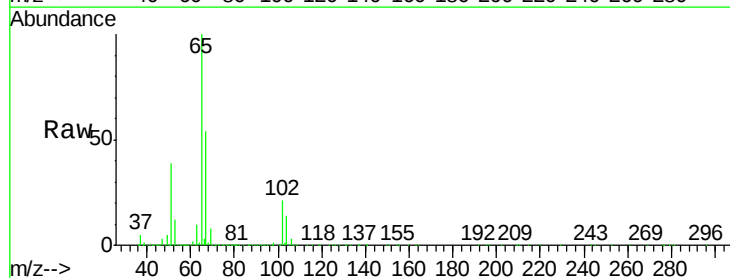
Acq: 26 Feb 2019 19:59

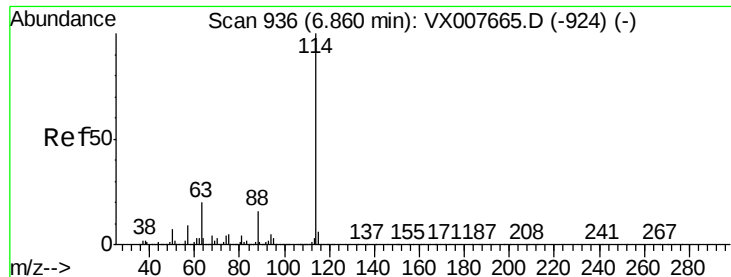
Tgt Ion: 65 Resp: 222570

Ion Ratio Lower Upper

65 100

67 53.5 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

Instrument :

MSVOA_X

ClientSampleId :

WV-E

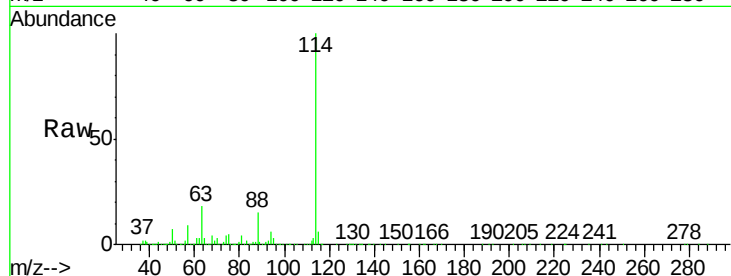
Tot Ion:114 Resp: 613275

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.6

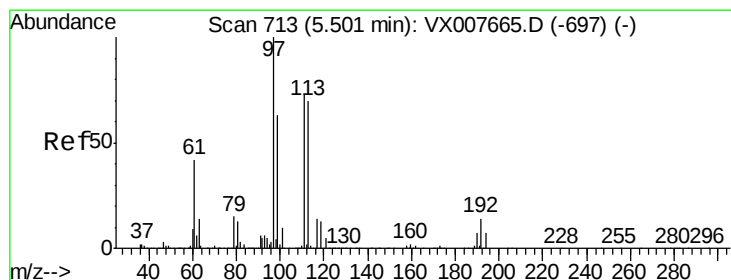
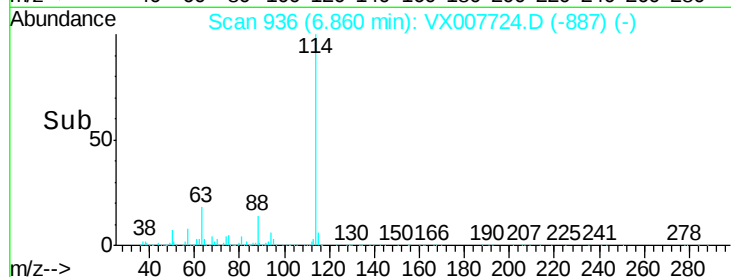
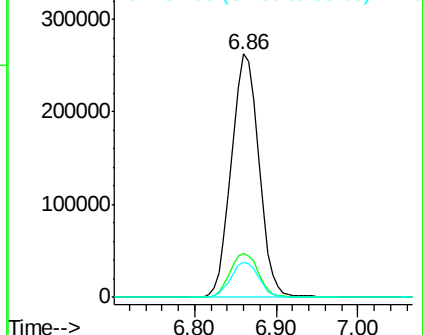
88 14.5 0.0 29.6



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: 49.067 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

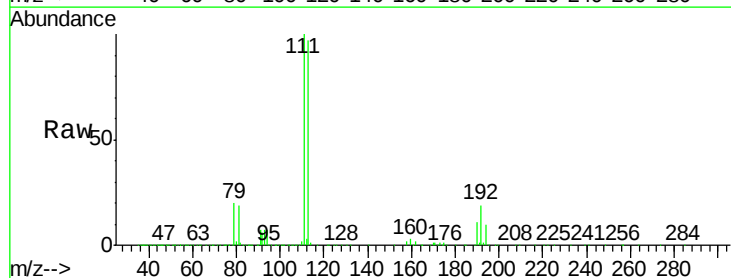
Tgt Ion:113 Resp: 201152

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

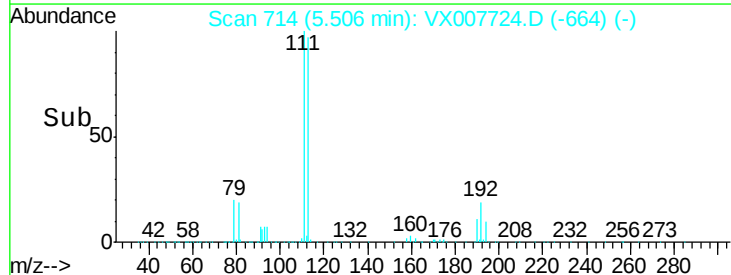
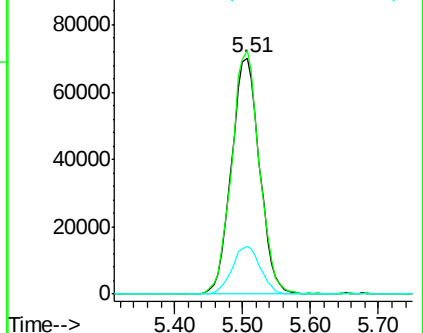
192 20.2 18.5 27.7

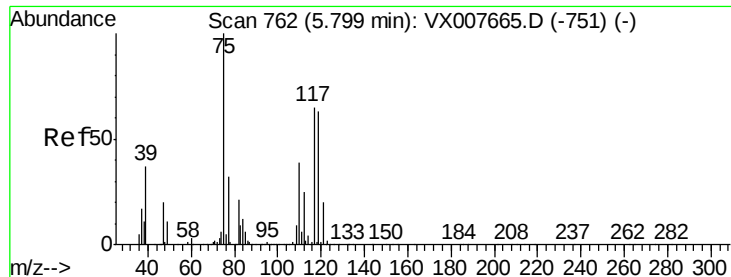


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.445 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

Instrument :

MSVOA_X

ClientSampled :

WV-E

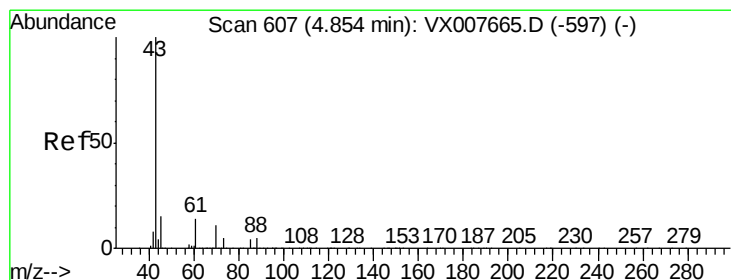
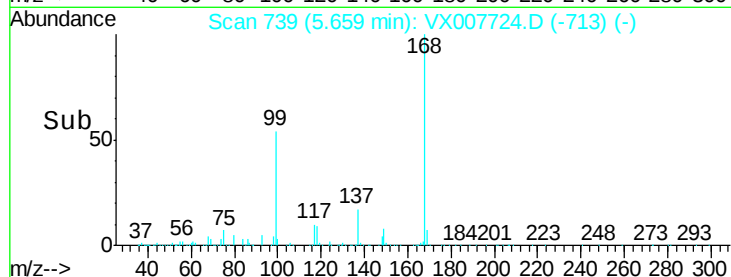
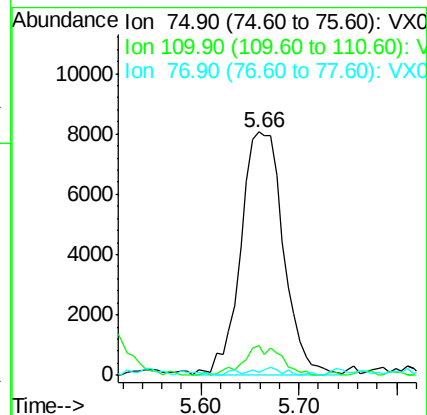
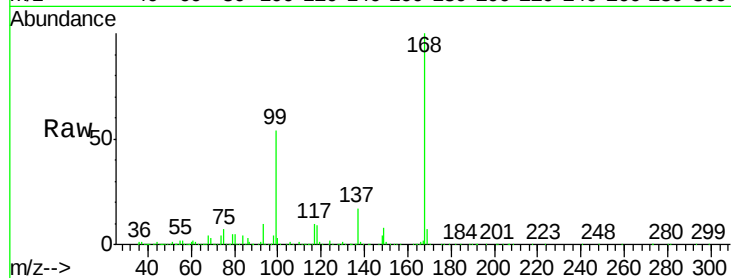
Tot Ion: 75 Resp: 24506

Ion Ratio Lower Upper

75 100

110 10.9 20.0 59.9#

77 1.8 24.7 37.1#



#37

Ethyl Acetate

Concen: 0.341 ug/l

RT: 4.69 min Scan# 580

Delta R.T. -0.17 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

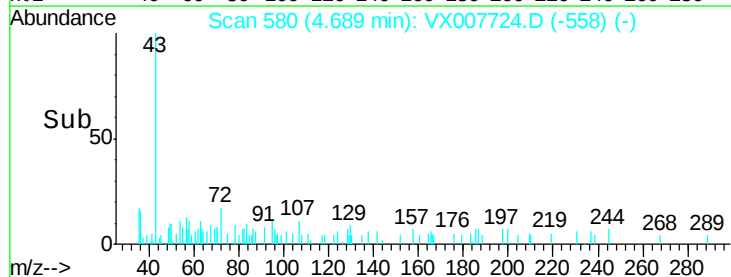
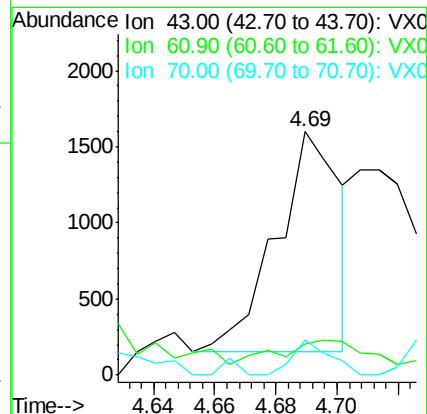
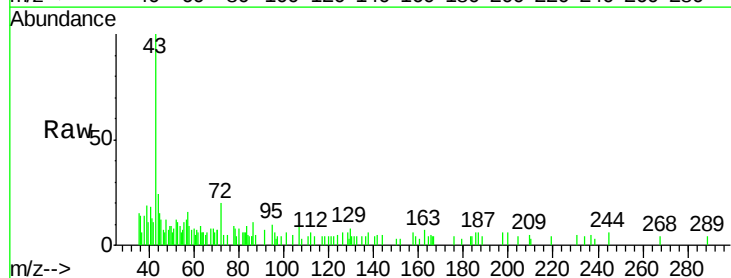
Tgt Ion: 43 Resp: 2088

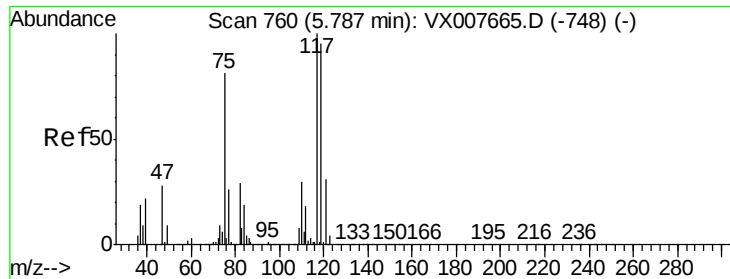
Ion Ratio Lower Upper

43 100

61 14.7 11.3 16.9

70 9.4 8.6 13.0

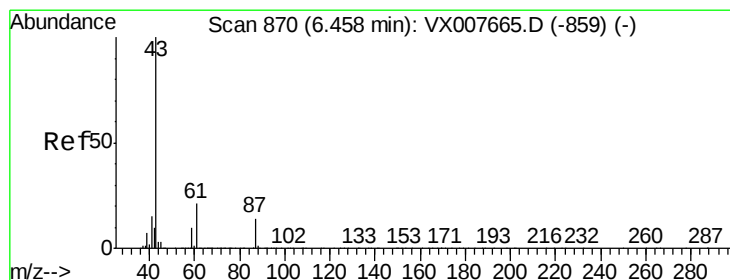
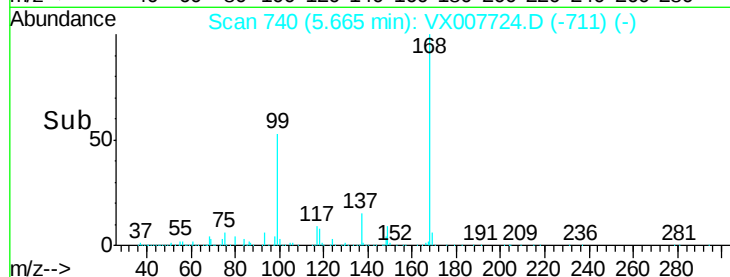
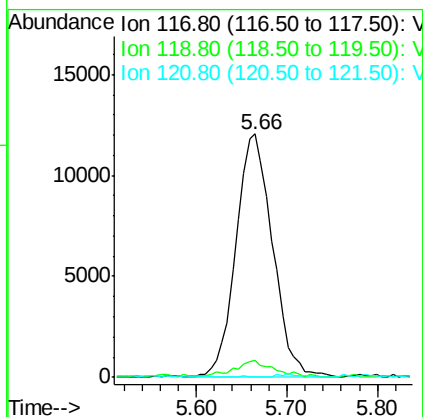
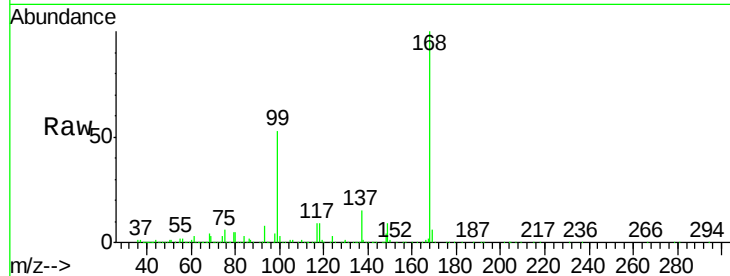




#38
Carbon Tetrachloride
Concen: 6.100 ug/l
RT: 5.66 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

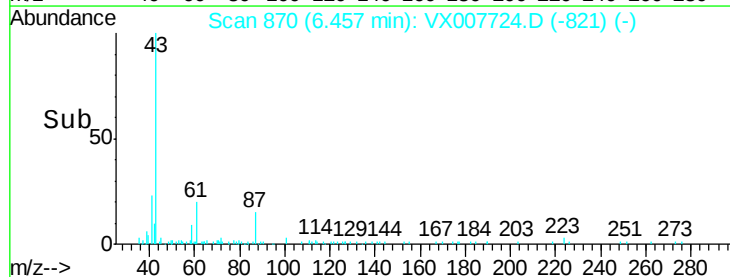
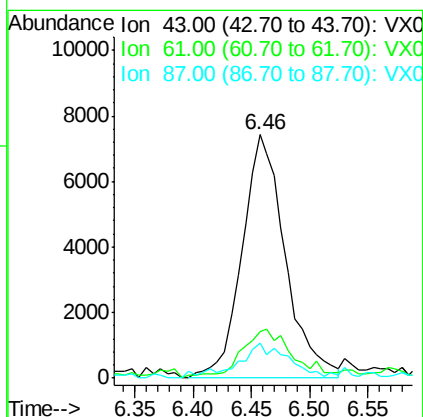
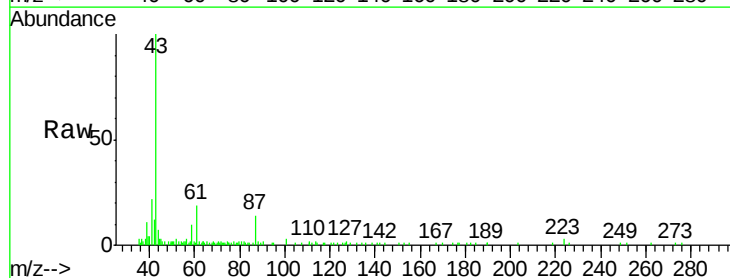
Instrument :
MSVOA_X
ClientSampleId :
WV-E

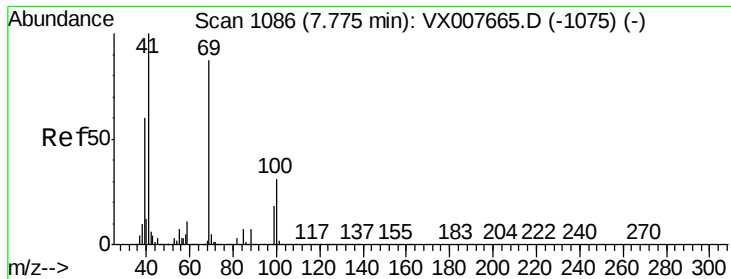
Tot Ion:117 Resp: 33783
Ion Ratio Lower Upper
117 100
119 7.1 75.3 112.9#
121 0.0 25.0 37.4#



#43
Isopropyl Acetate
Concen: 2.037 ug/l
RT: 6.46 min Scan# 870
Delta R.T. -0.00 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

Tgt Ion: 43 Resp: 19197
Ion Ratio Lower Upper
43 100
61 20.3 16.1 24.1
87 13.3 11.5 17.3

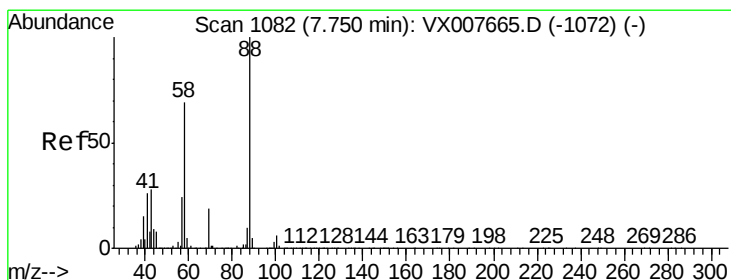
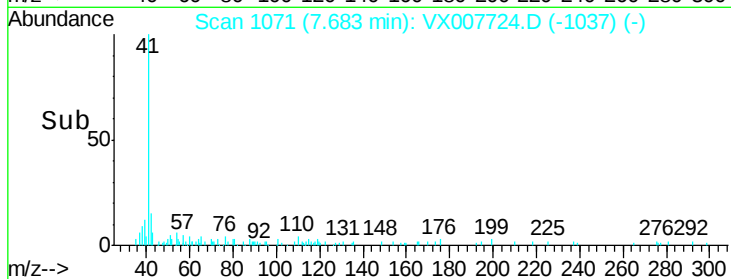
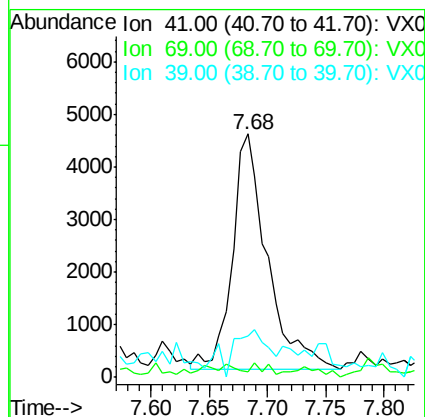
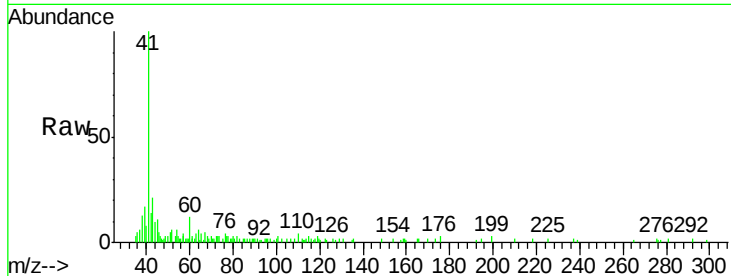




#48
Methvl methacrylate
Concen: 1.901 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

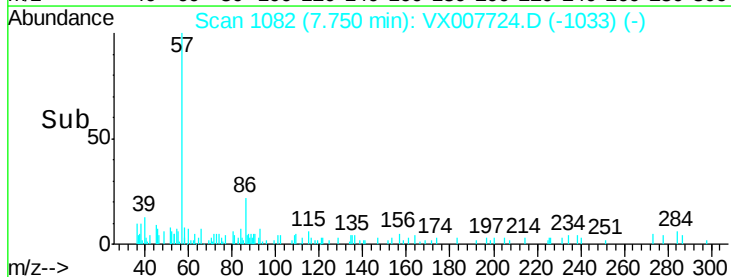
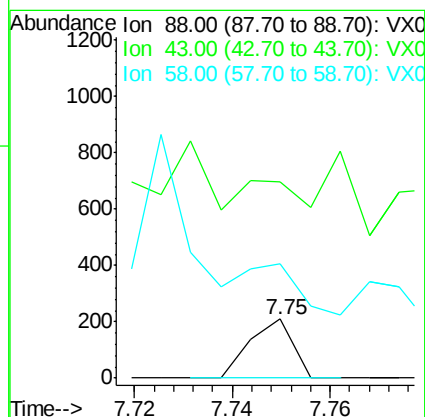
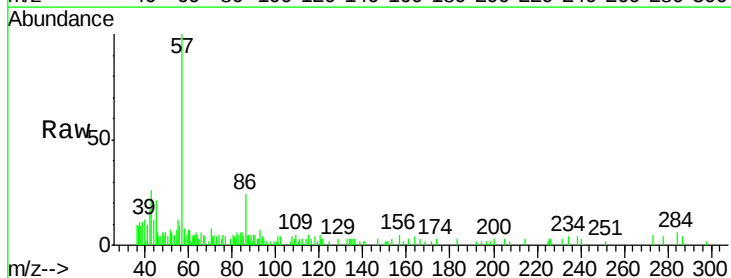
Instrument :
MSVOA_X
ClientSampleId :
WV-E

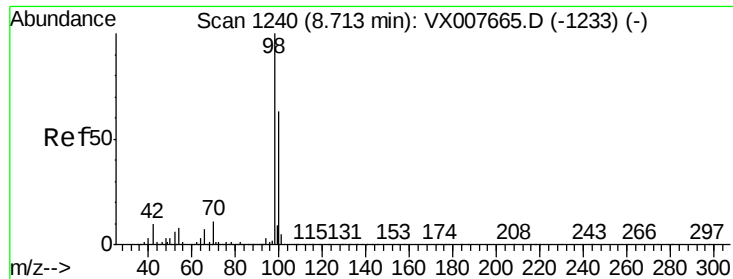
Tot Ion	Ratio	Lower	Upper
41	100		
69	3.4	70.2	105.4#
39	0.0	47.4	71.0#



#49
1,4-Dioxane
Concen: 1.190 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. -0.00 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	24.2	36.4#
58	0.0	53.0	79.4#

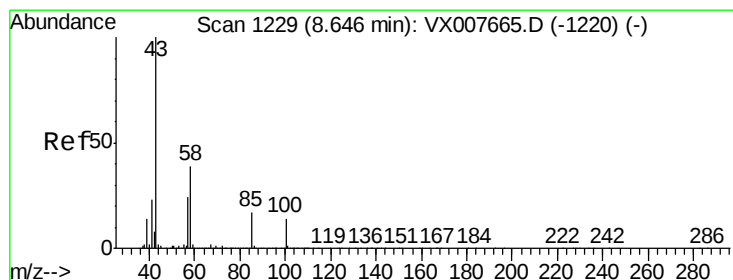
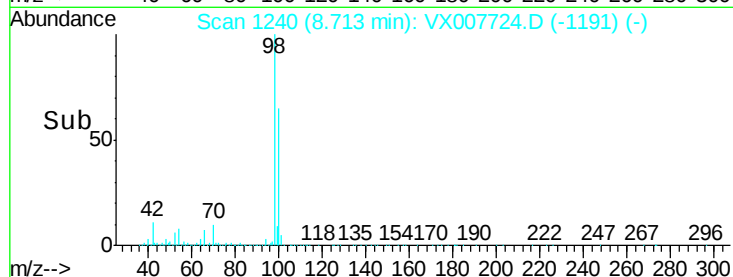
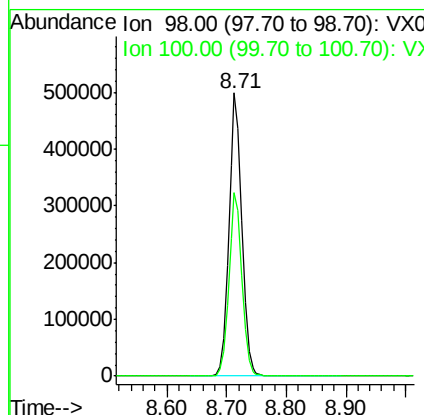
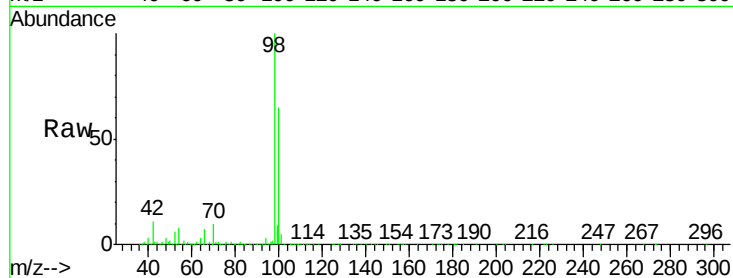




#50
Toluene-d8
Concen: 48.312 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

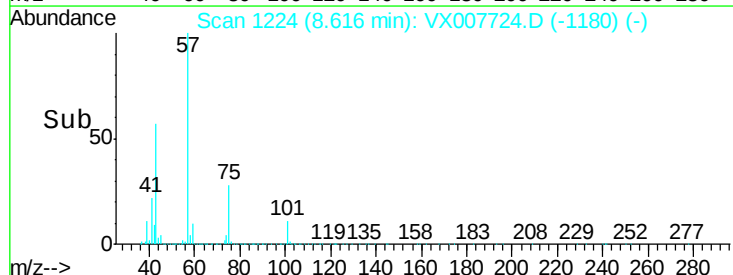
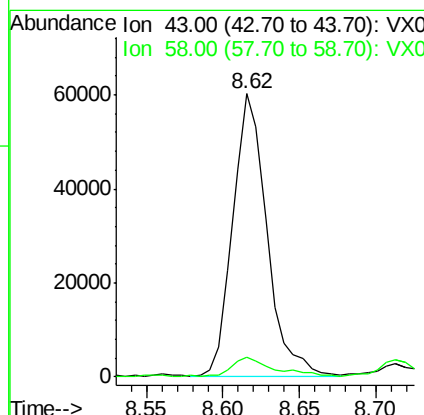
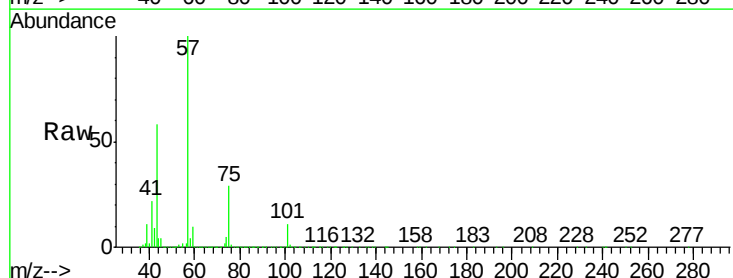
Instrument :
MSVOA_X
ClientSampled :
WV-E

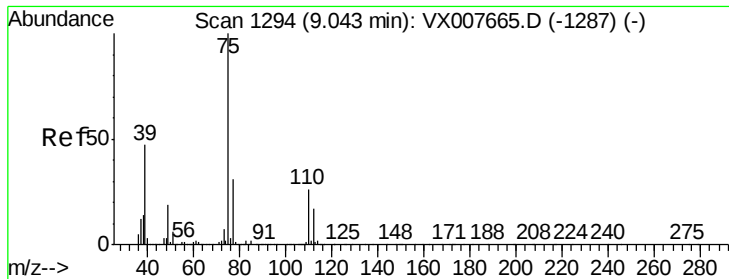
Tot Ion: 98 Resp: 758234
Ion Ratio Lower Upper
98 100
100 64.9 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 14.661 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

Tgt Ion: 43 Resp: 92507
Ion Ratio Lower Upper
43 100
58 8.7 31.2 46.8#





#53

t-1,3-Dichloropropene

Concen: 2.834 ug/l

RT: 9.02 min Scan# 1291

Delta R.T. -0.02 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

Instrument :

MSVOA_X

ClientSampled :

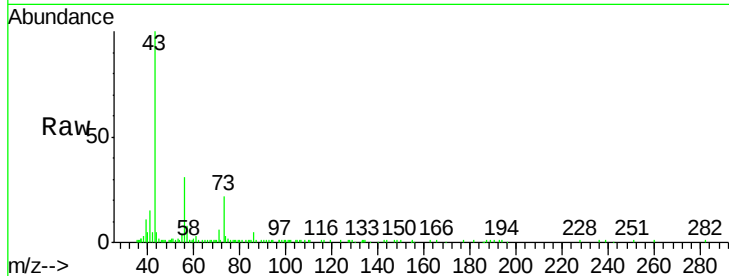
WV-E

Tot Ion: 75 Resp: 221

Ion Ratio Lower Upper

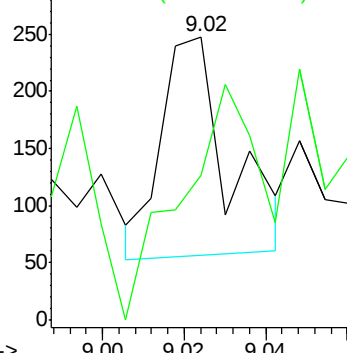
75 100

77 77.0 25.2 37.8#

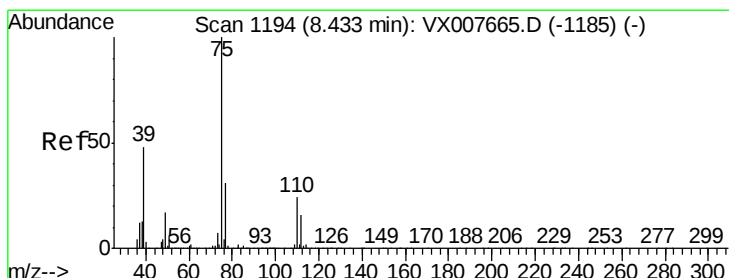
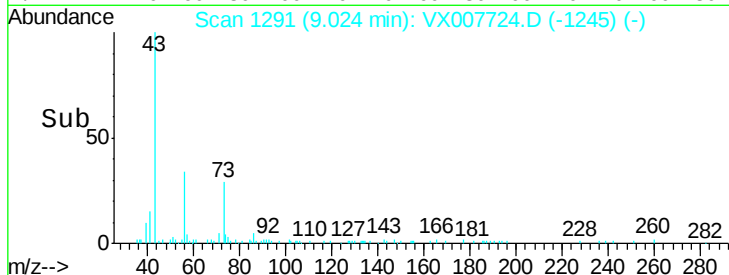


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.097 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

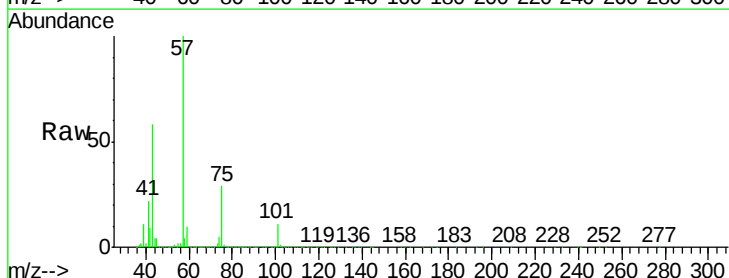
Tgt Ion: 75 Resp: 45906

Ion Ratio Lower Upper

75 100

77 0.4 26.2 39.4#

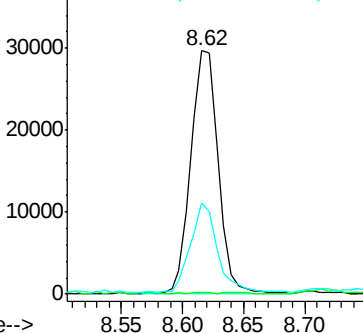
39 36.9 37.1 55.7#



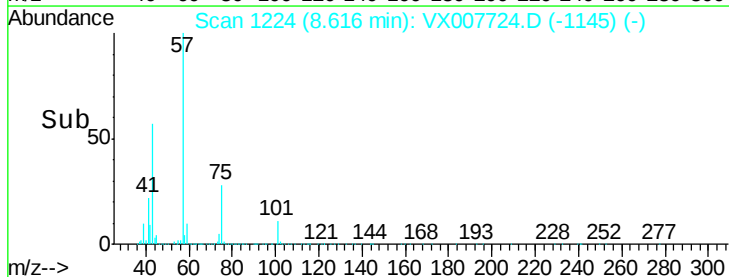
Abundance Ion 74.90 (74.60 to 75.60): VX0

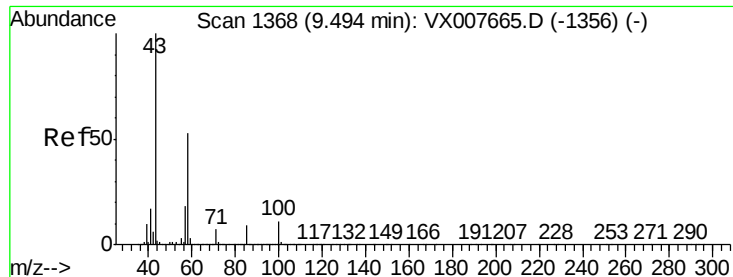
Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->

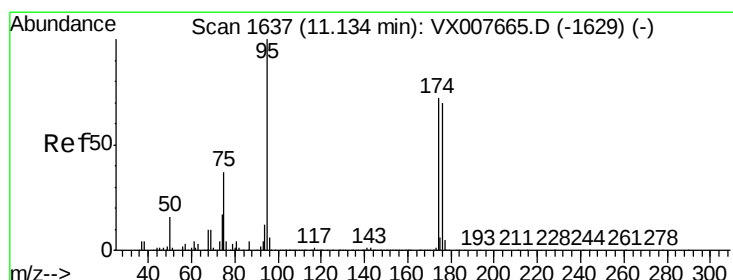
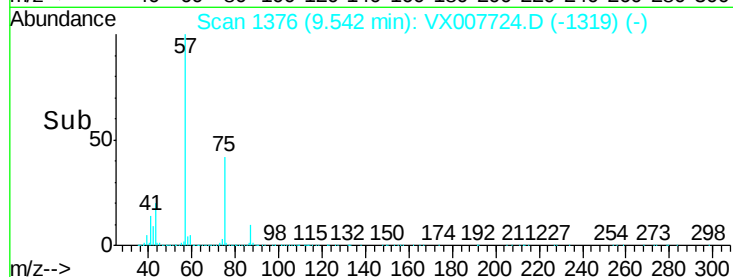
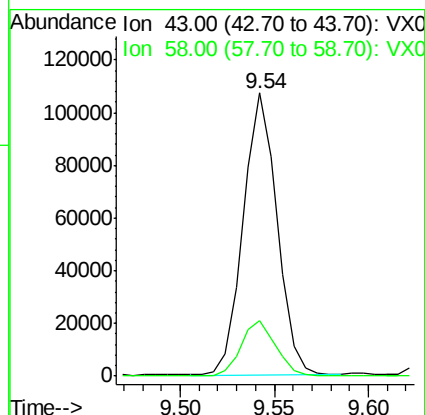
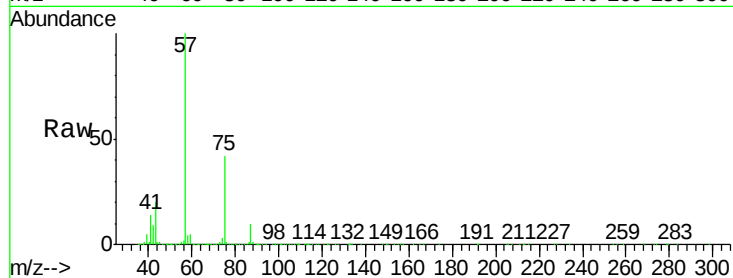




#59
2-Hexanone
Concen: 26.848 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

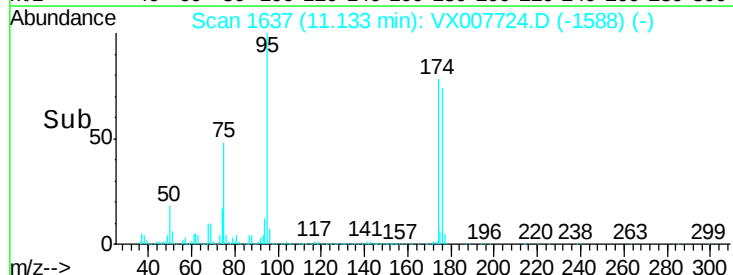
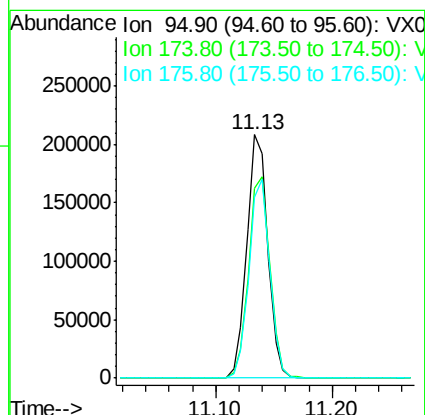
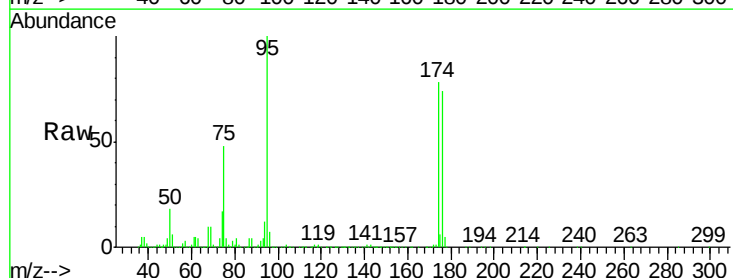
Instrument :
MSVOA_X
ClientSampleId :
WV-E

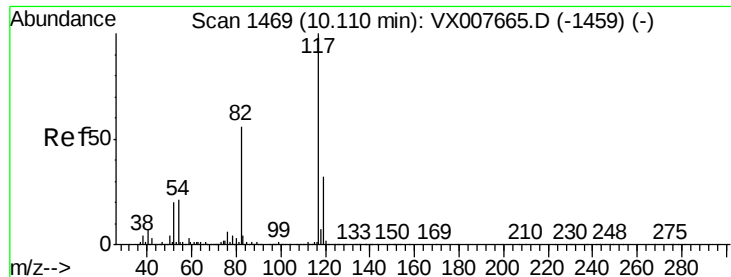
Tot Ion: 43 Resp: 132998
Ion Ratio Lower Upper
43 100
58 20.2 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 45.853 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

Tgt Ion: 95 Resp: 264136
Ion Ratio Lower Upper
95 100
174 84.8 0.0 189.2
176 81.3 0.0 186.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

Instrument :

MSVOA_X

ClientSampleId :

WV-E

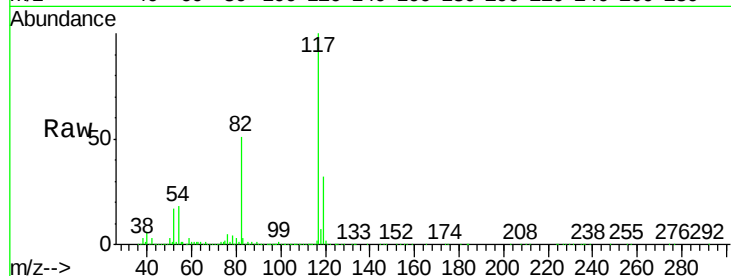
Tot Ion:117 Resp: 596474

Ion Ratio Lower Upper

117 100

82 50.8 42.1 63.1

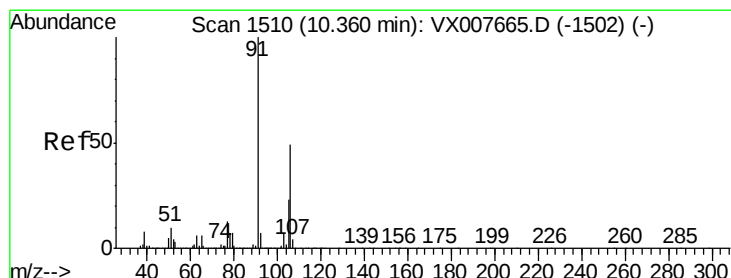
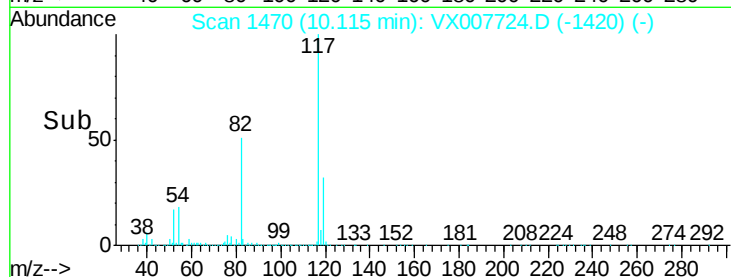
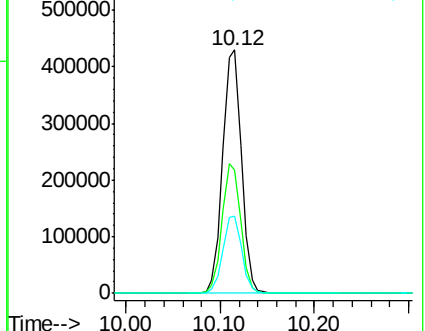
119 31.9 26.5 39.7



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



#68

m/p-Xylenes

Concen: 0.237 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX007724.D

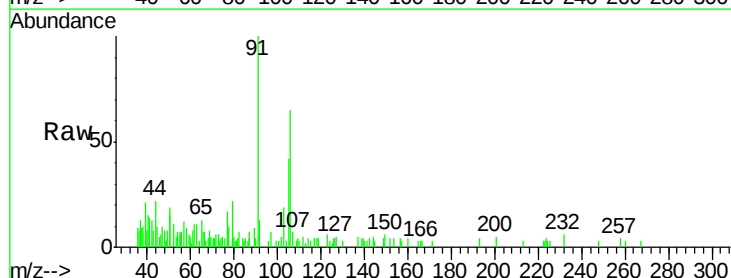
Acq: 26 Feb 2019 19:59

Tgt Ion:106 Resp: 1972

Ion Ratio Lower Upper

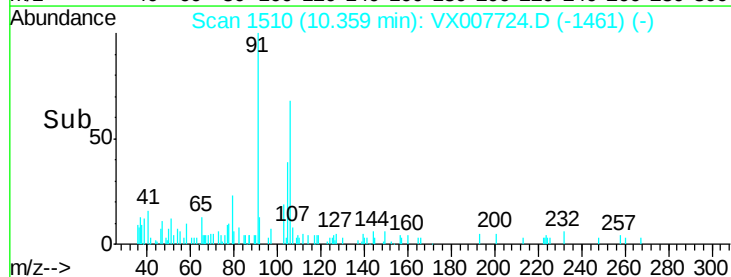
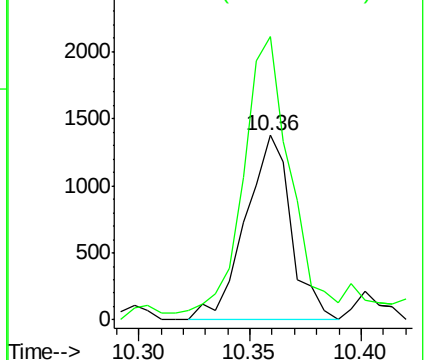
106 100

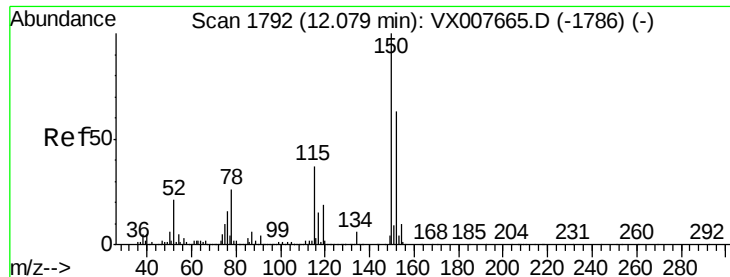
91 149.3 156.6 234.8#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



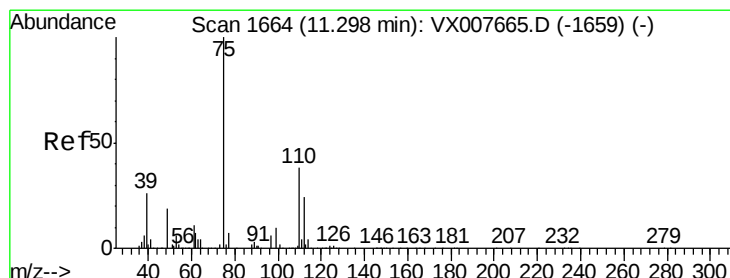
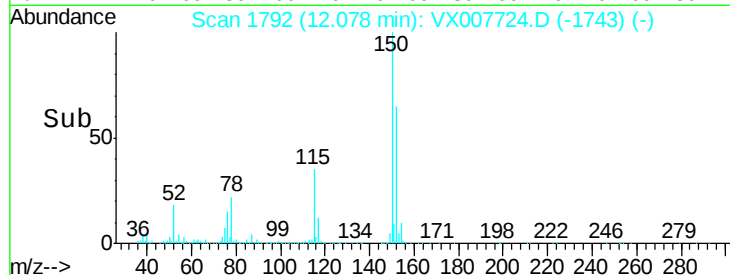
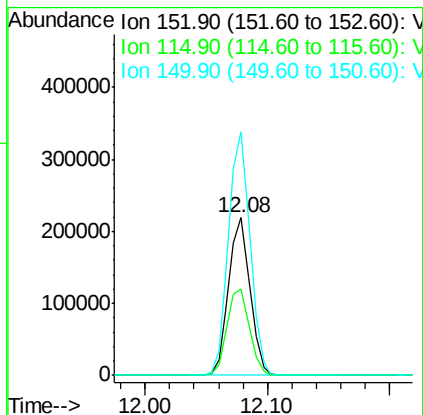
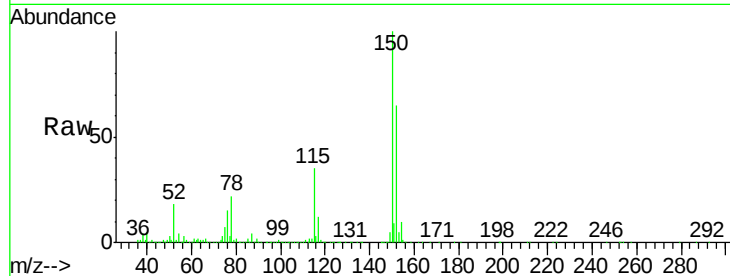


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

Instrument :
MSVOA_X
ClientSampleId :
WV-E

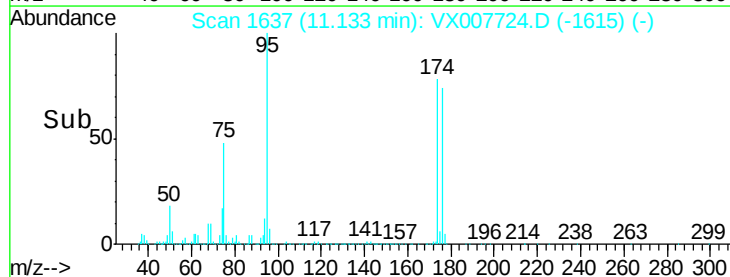
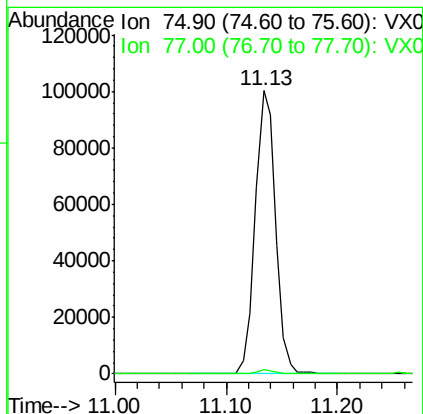
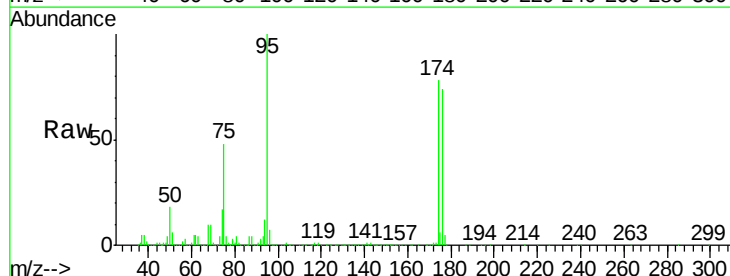
Tot Ion	Ratio	Lower	Upper
152	100		
115	56.6	38.0	114.0
150	155.1	0.0	346.4

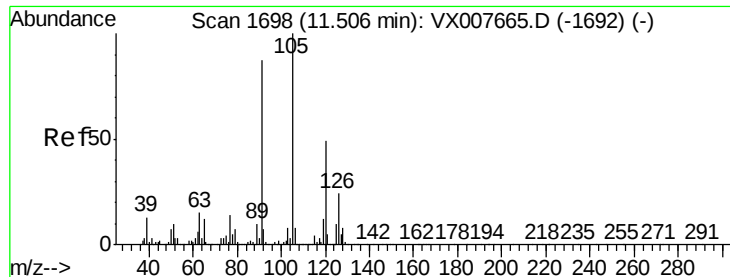


#76

1,2,3-Trichloropropane
Concen: 22.624 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.17 min
Lab File: VX007724.D
Acq: 26 Feb 2019 19:59

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	23.0	69.0





#80

1,3,5-Trimethylbenzene

Concen: 0.305 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

Instrument :

MSVOA_X

ClientSampleId :

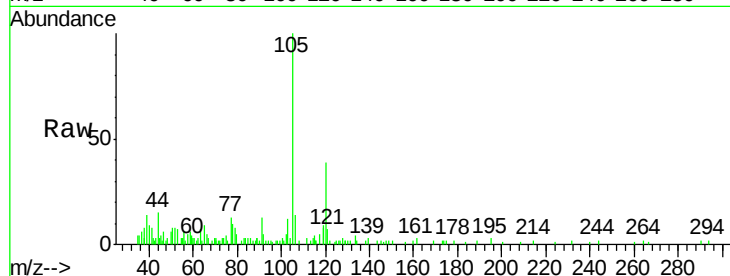
WV-E

Tot Ion:105 Resp: 4753

Ion Ratio Lower Upper

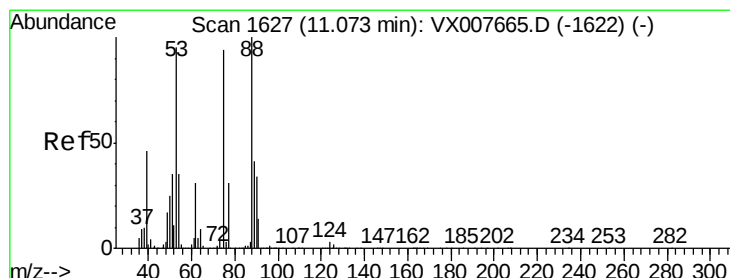
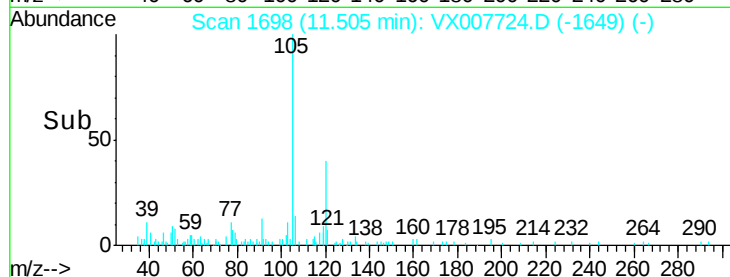
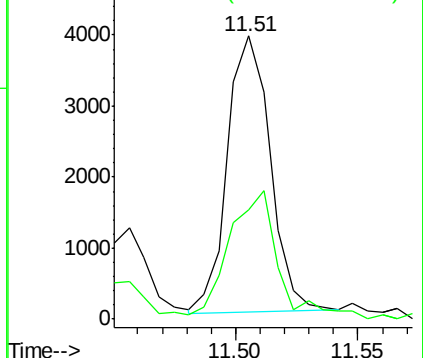
105 100

120 53.9 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 59.986 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007724.D

Acq: 26 Feb 2019 19:59

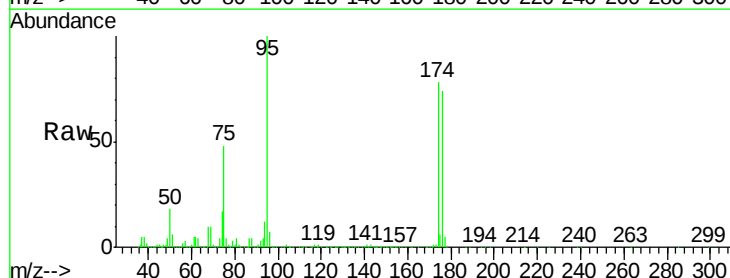
Tgt Ion: 75 Resp: 127827

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

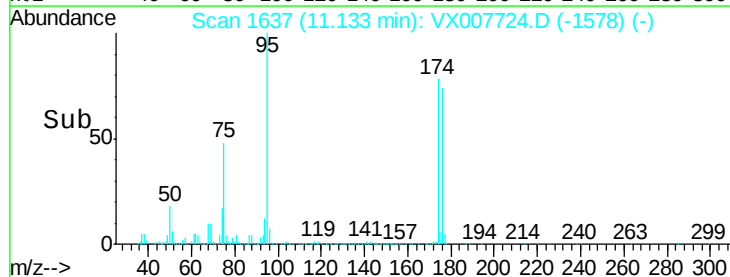
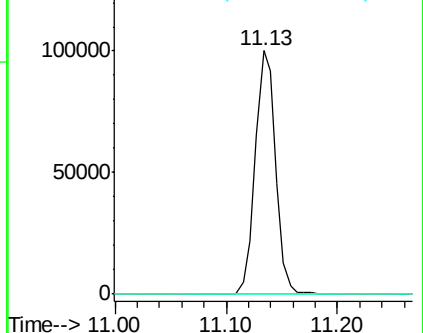
89 0.2 41.4 62.0#

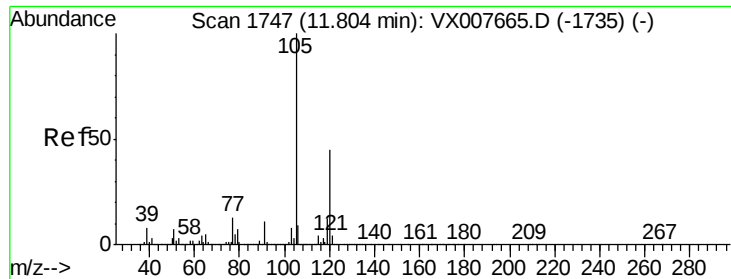


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

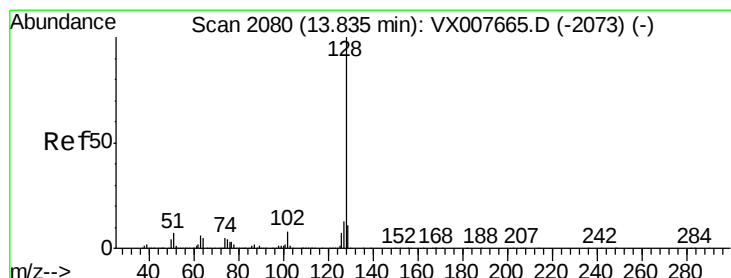
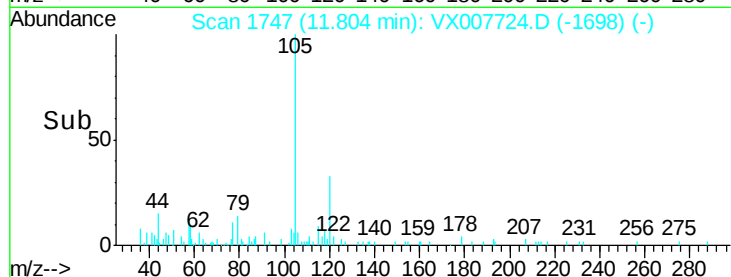
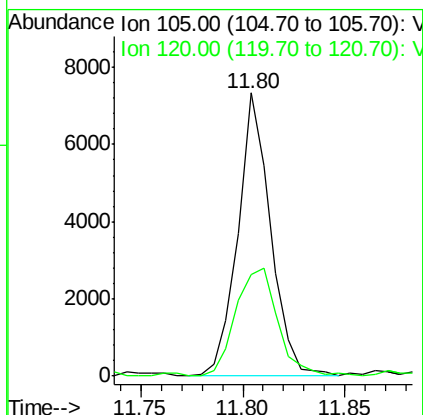
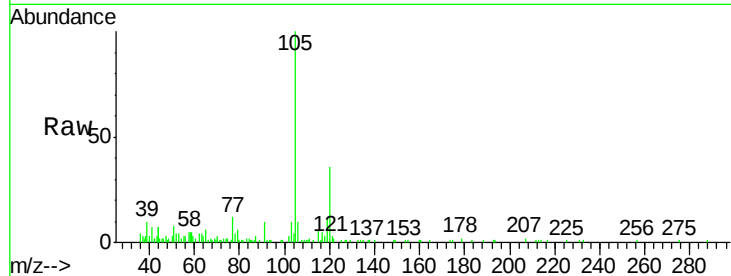




#84
 1,2,4-Trimethylbenzene
 Concen: 0.513 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.00 min
 Lab File: VX007724.D
 Acq: 26 Feb 2019 19:59

Instrument :
 MSVOA_X
 ClientSampleId :
 WV-E

Tot Ion:105 Resp: 8179
 Ion Ratio Lower Upper
 105 100
 120 49.3 23.1 69.3



#95
 Naphthalene
 Concen: 7.809 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX007724.D
 Acq: 26 Feb 2019 19:59

Tgt Ion:128 Resp: 136201
 Ion Ratio Lower Upper
 128 100
 127 13.8 10.5 15.7
 129 11.2 8.7 13.1

