

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022219\
 Data File : VX007656.D
 Acq On : 22 Feb 2019 13:36
 Operator : JC/SP
 Sample : K1570-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 50-25

Quant Time: Feb 23 00:31:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	68158	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	344623	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	307411	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	134074	30.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.37%
60) 4-Bromofluorobenzene	11.13	95	133577	28.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.37%
63) Toluene-d8	8.71	98	409021	29.44	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.13%

Target Compounds

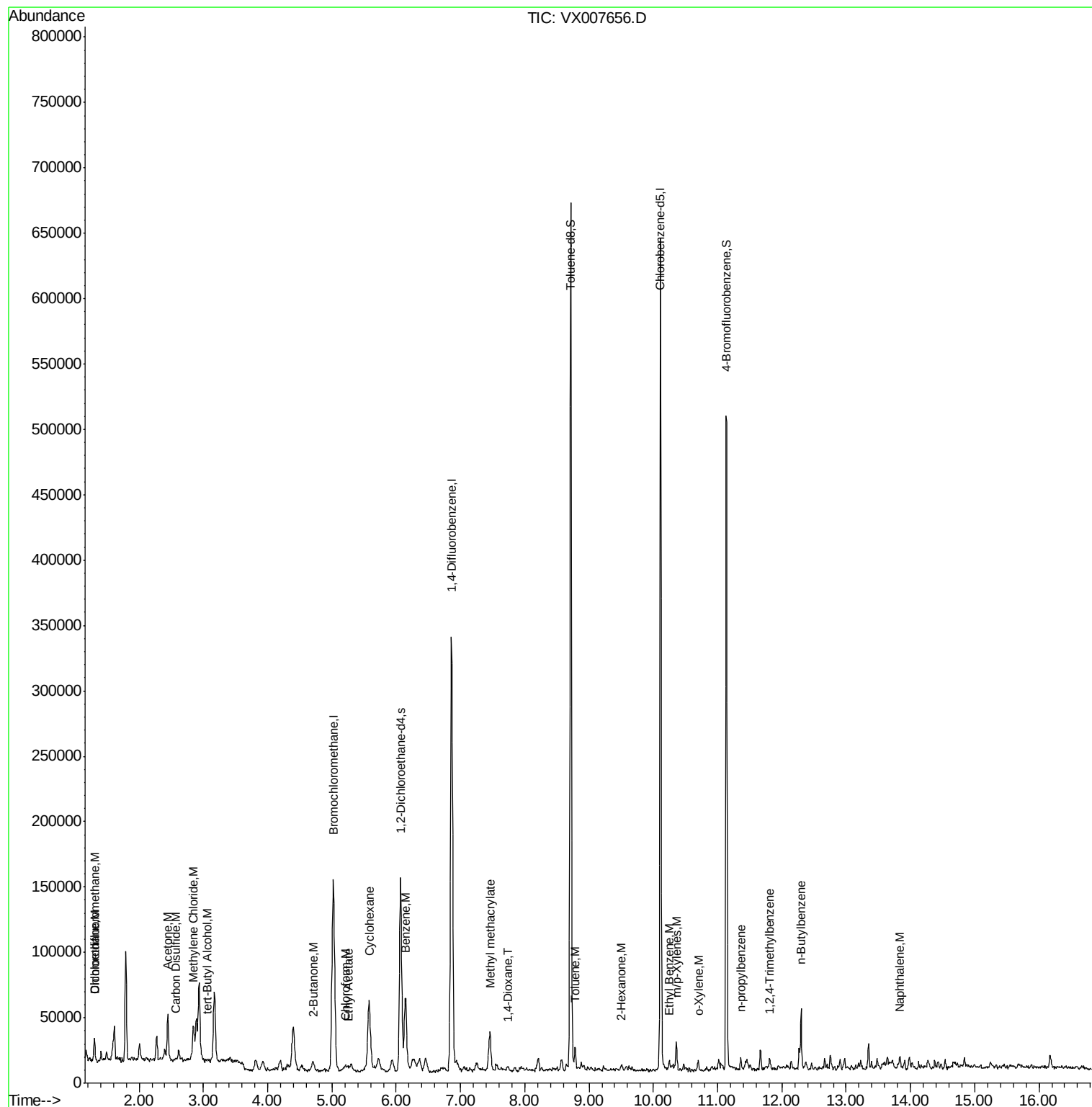
					Ovalue	
2) Dichlorodifluoromethane	1.31	85	1696	0.491	ug/l	96
6) Chloroethane	1.31	64	1643	0.566	ug/l	91
15) Acetone	2.45	58	12195	18.886	ug/l	98
16) Carbon Disulfide	2.57	76	2675	0.269	ug/l #	80
18) Methylene Chloride	2.85	84	908	0.216	ug/l #	60
23) tert-Butyl Alcohol	3.06	59	1087	1.087	ug/l #	93
25) Chloroform	5.22	83	2800	0.390	ug/l	95
26) Cyclohexane	5.57	56	34943	6.131	ug/l #	98
30) 2-Butanone	4.70	43	12107	4.256	ug/l #	89
34) Benzene	6.15	78	69999	4.619	ug/l	98
43) Ethyl Acetate	5.24	43	1705	0.313	ug/l	97
45) 1,4-Dioxane	7.73	88	75	0.756	ug/l #	1
46) Methyl methacrylate	7.45	41	3716	0.872	ug/l	63
59) 2-Hexanone	9.51	43	1299	0.309	ug/l #	80
62) Toluene	8.78	91	8678	0.518	ug/l	89
66) Ethyl Benzene	10.25	91	3851	0.217	ug/l	92
67) m/p-Xylenes	10.36	106	5057	0.726	ug/l	96
68) o-Xylene	10.70	106	1697	0.250	ug/l	83
74) n-propylbenzene	11.36	91	4822	0.242	ug/l	86
80) 1,2,4-Trimethylbenzene	11.81	105	3973	0.267	ug/l	82
85) n-Butylbenzene	12.30	91	2951	0.229	ug/l	56
91) Naphthalene	13.83	128	5690	0.314	ug/l	97

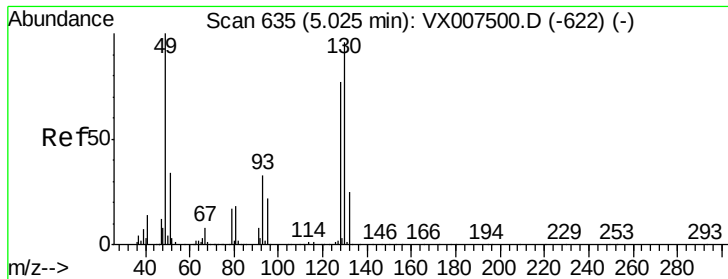
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 13 07:51:18 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 635

Delta R.T. -0.00 min

Lab File: VX007656.D

Acq: 22 Feb 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

50-25

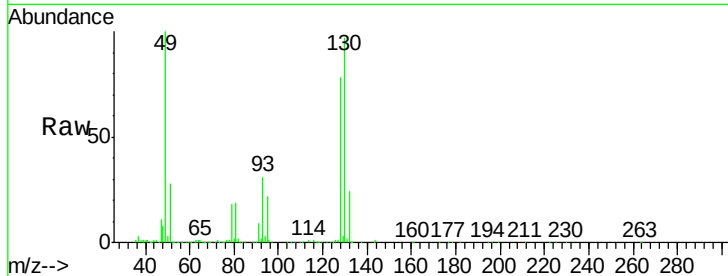
Tot Ion:128 Resp: 68158

Ion Ratio Lower Upper

128 100

49 139.1 0.0 350.8

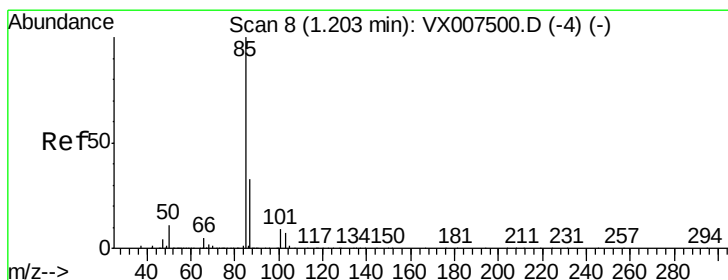
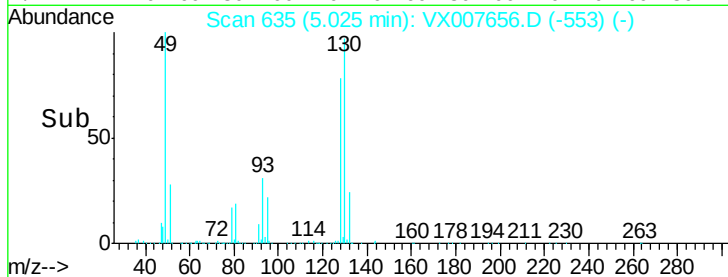
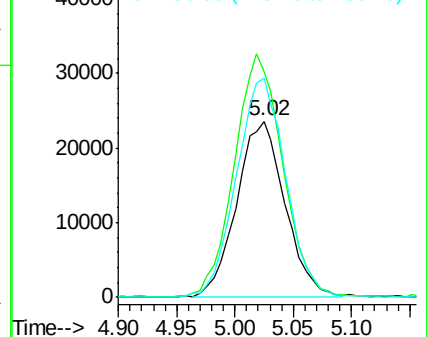
130 127.3 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.491 ug/l

RT: 1.31 min Scan# 25

Delta R.T. 0.10 min

Lab File: VX007656.D

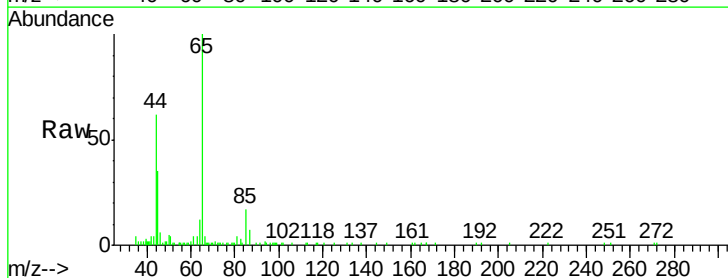
Acq: 22 Feb 2019 13:36

Tgt Ion: 85 Resp: 1696

Ion Ratio Lower Upper

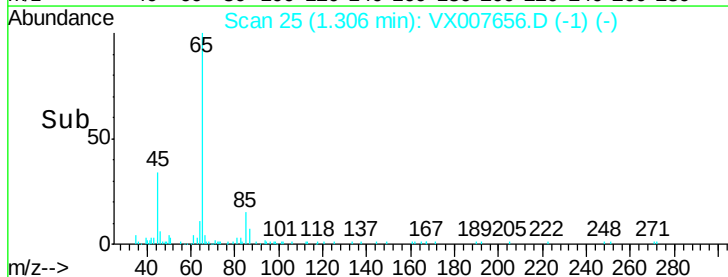
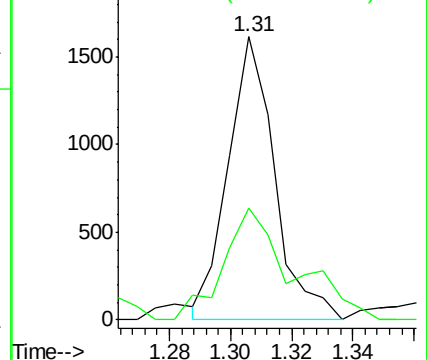
85 100

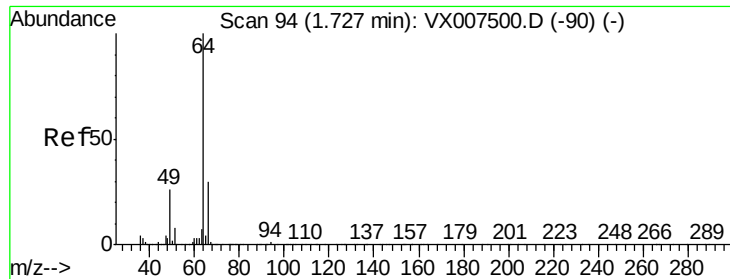
87 30.7 16.6 49.8



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#6

Chloroethane

Concen: 0.566 ug/l

RT: 1.31 min Scan# 25

Delta R.T. -0.42 min

Lab File: VX007656.D

Acq: 22 Feb 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

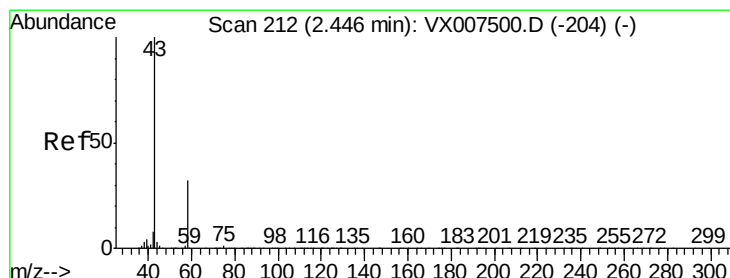
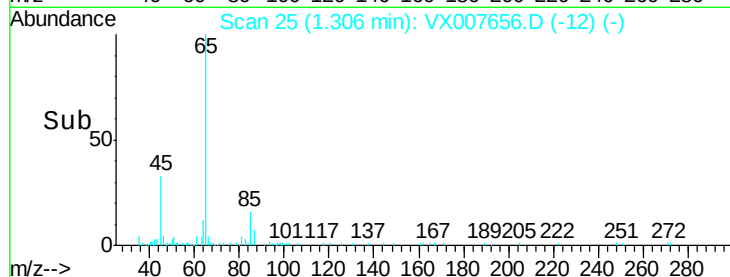
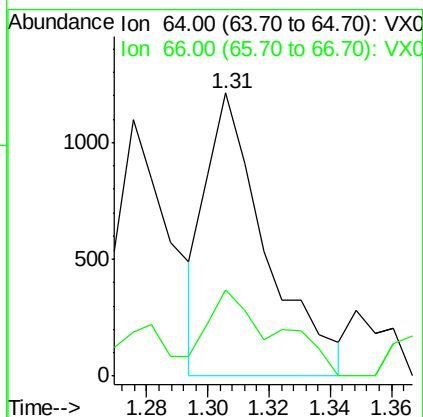
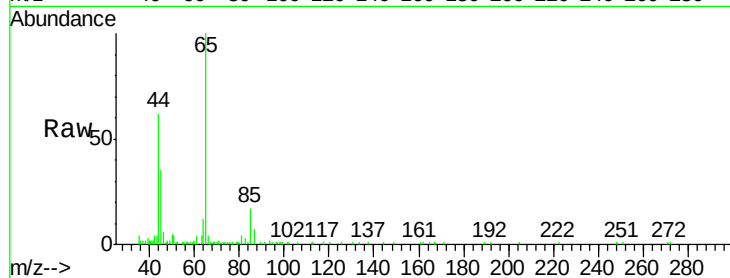
50-25

Tot Ion: 64 Resp: 1643

Ion Ratio Lower Upper

64 100

66 34.6 23.9 35.9



#15

Acetone

Concen: 18.886 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007656.D

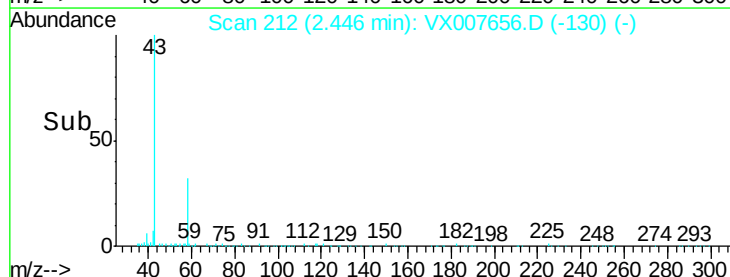
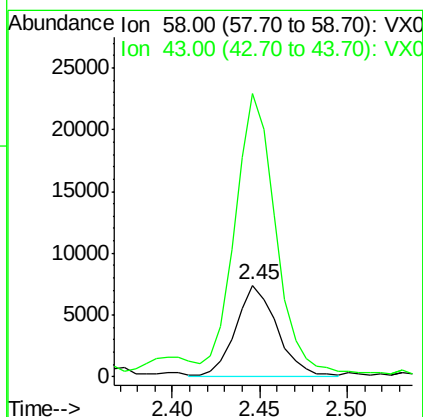
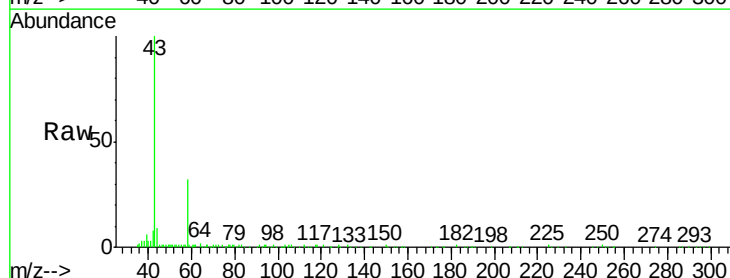
Acq: 22 Feb 2019 13:36

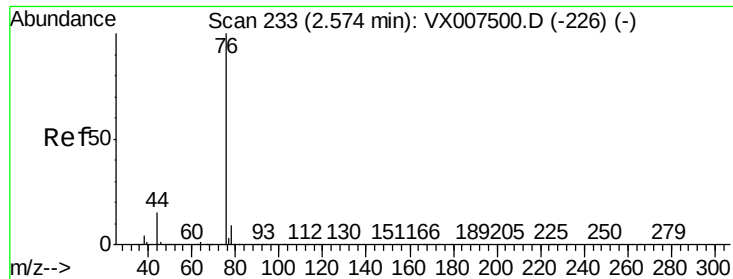
Tgt Ion: 58 Resp: 12195

Ion Ratio Lower Upper

58 100

43 309.1 249.8 374.6

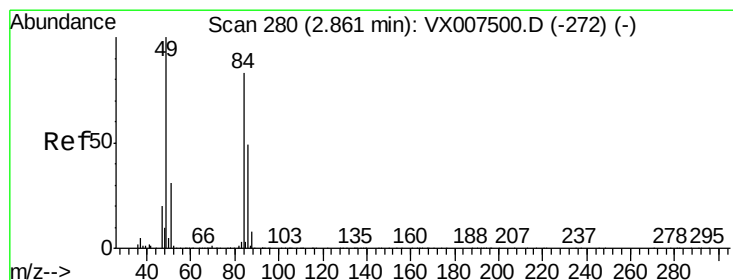
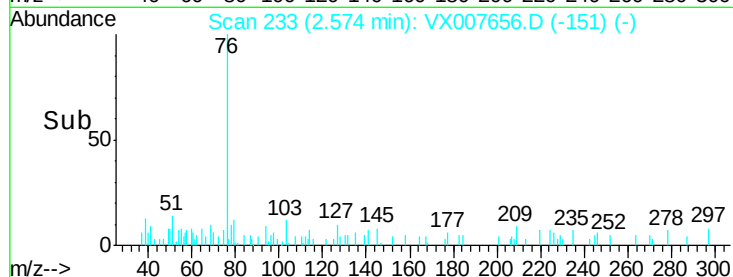
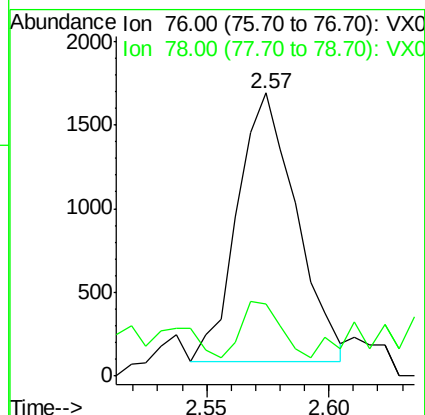
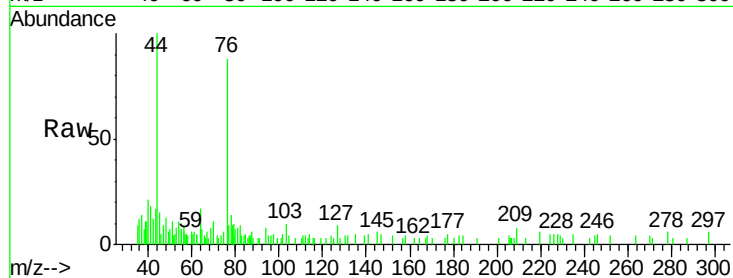




#16
Carbon Disulfide
Concen: 0.269 ug/l
RT: 2.57 min Scan# 233
Delta R.T. -0.00 min
Lab File: VX007656.D
Acq: 22 Feb 2019 13:36

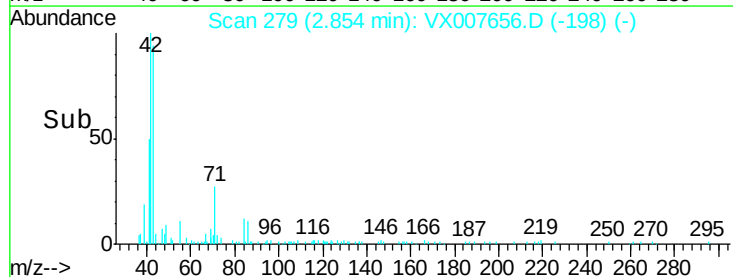
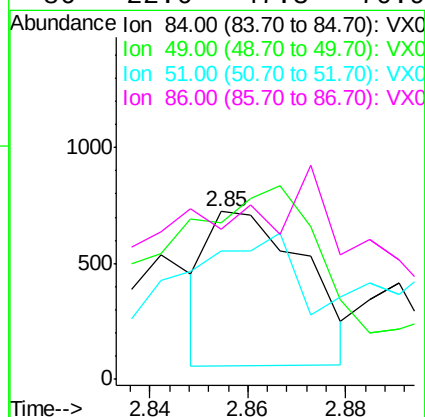
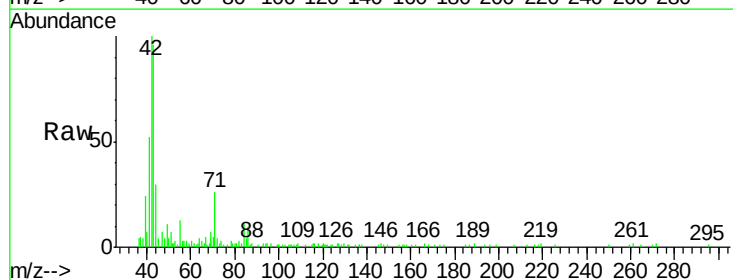
Instrument :
MSVOA_X
ClientSampleId :
50-25

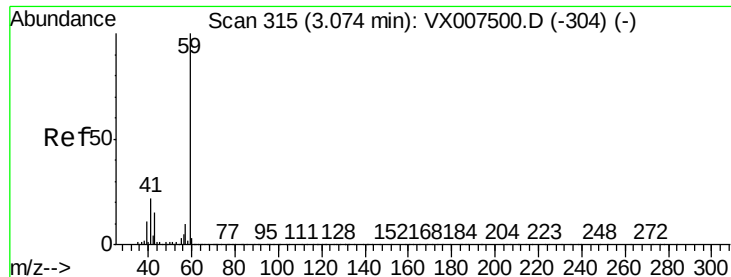
Tot Ion: 76 Resp: 2675
Ion Ratio Lower Upper
76 100
78 16.7 7.5 11.3#



#18
Methylene Chloride
Concen: 0.216 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007656.D
Acq: 22 Feb 2019 13:36

Tgt Ion: 84 Resp: 908
Ion Ratio Lower Upper
84 100
49 70.4 96.1 144.1#
51 41.5 29.1 43.7
86 22.6 47.3 70.9#



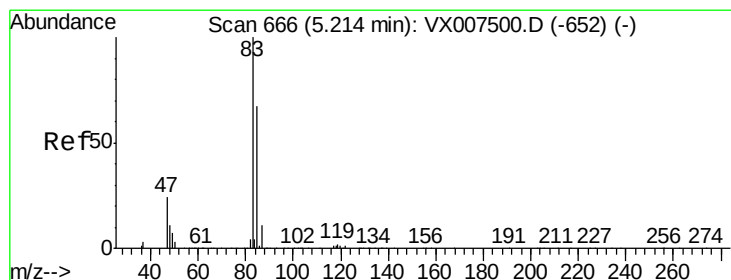
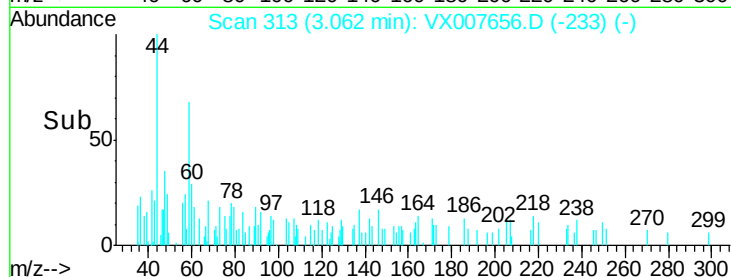
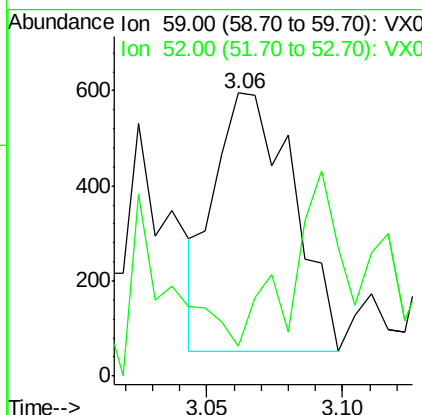
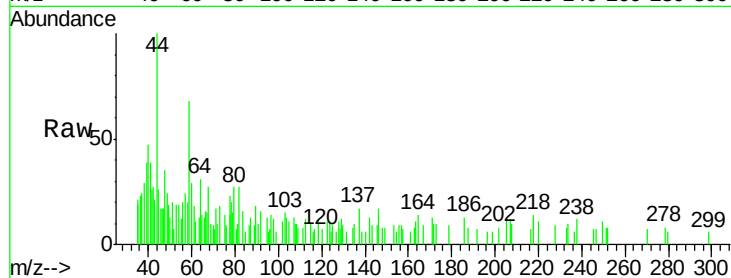


#23

tert-Butyl Alcohol
 Concen: 1.087 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VX007656.D
 Acq: 22 Feb 2019 13:36

Instrument :
 MSVOA_X
 ClientSampleId :
 50-25

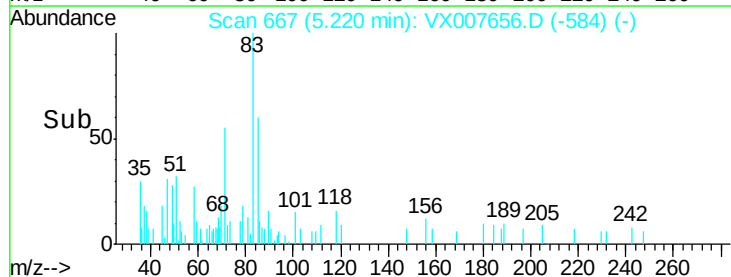
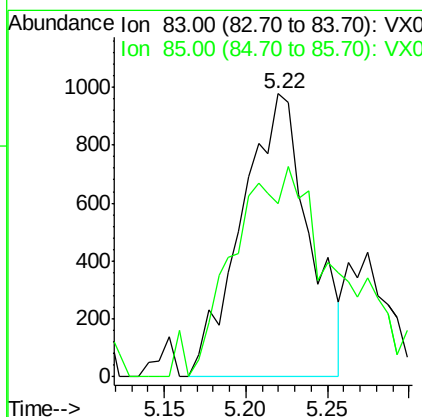
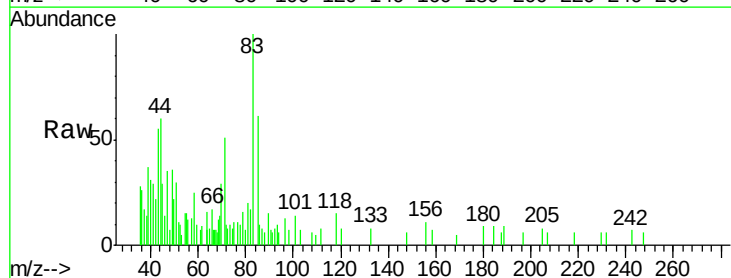
Tot Ion: 59 Resp: 1087
 Ion Ratio Lower Upper
 59 100
 52 9.5 0.2 0.2#

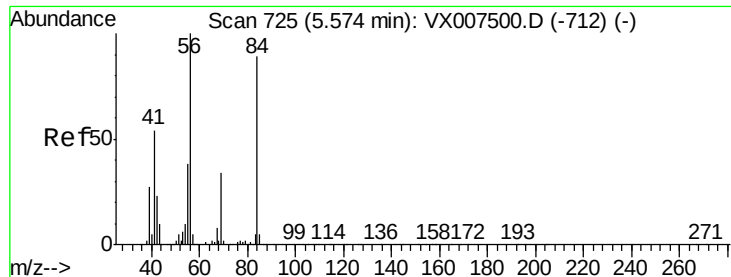


#25

Chloroform
 Concen: 0.390 ug/l
 RT: 5.22 min Scan# 667
 Delta R.T. 0.01 min
 Lab File: VX007656.D
 Acq: 22 Feb 2019 13:36

Tgt Ion: 83 Resp: 2800
 Ion Ratio Lower Upper
 83 100
 85 71.2 53.8 80.6

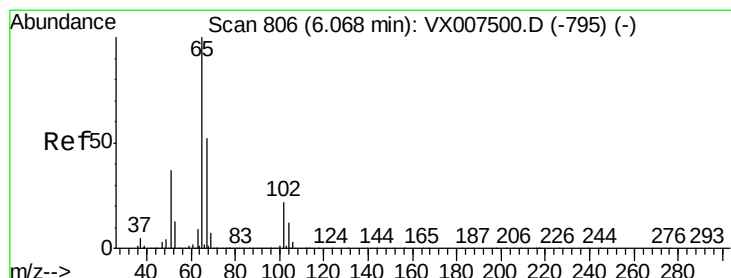
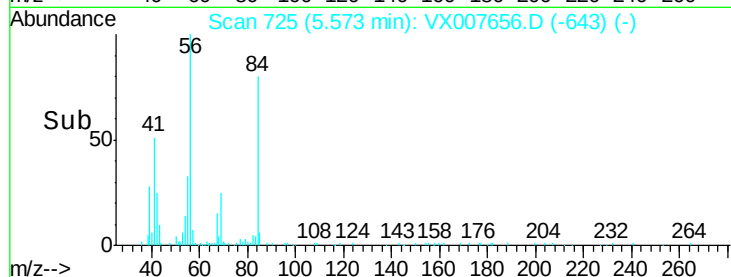
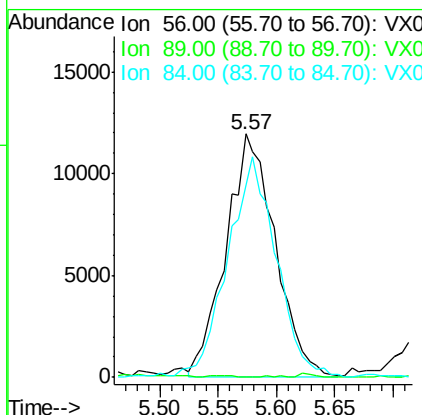
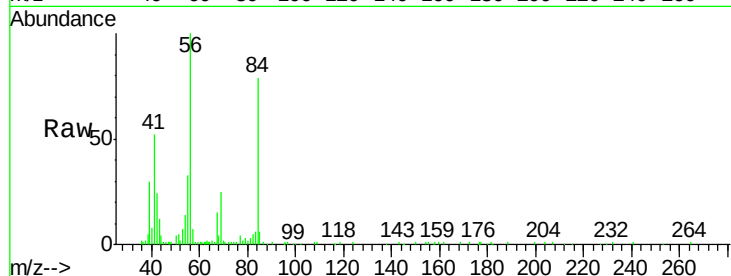




#26
Cyclohexane
Concen: 6.131 ug/l
RT: 5.57 min Scan# 725
Delta R.T. -0.00 min
Lab File: VX007656.D
Acq: 22 Feb 2019 13:36

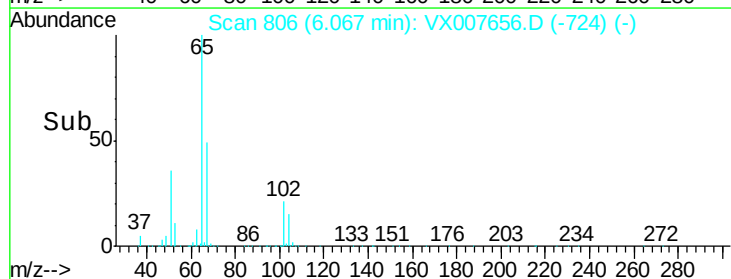
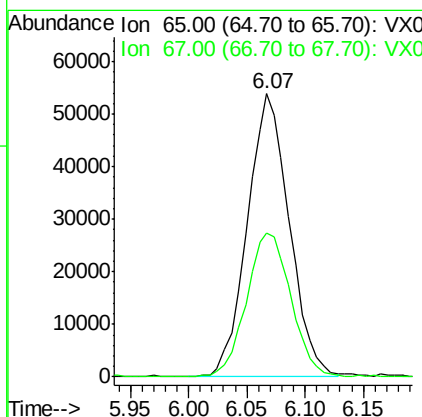
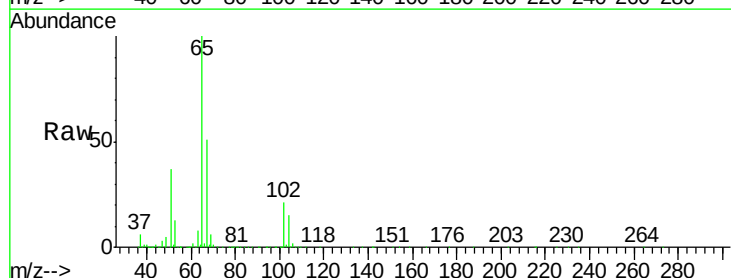
Instrument :
MSVOA_X
ClientSampleId :
50-25

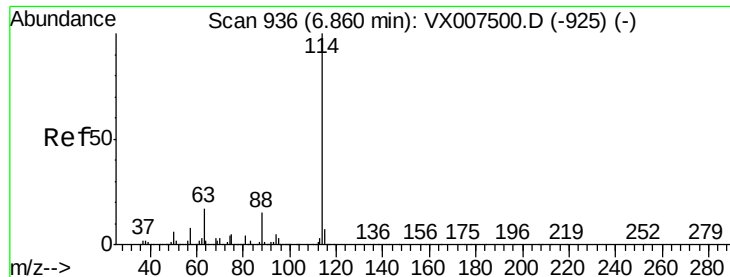
Tot Ion: 56 Resp: 34943
Ion Ratio Lower Upper
56 100
89 0.1 0.0 0.0#
84 90.1 73.9 110.9



#27
1,2-Dichloroethane-d4
Concen: 30.409 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007656.D
Acq: 22 Feb 2019 13:36

Tgt Ion: 65 Resp: 134074
Ion Ratio Lower Upper
65 100
67 54.0 42.9 64.3

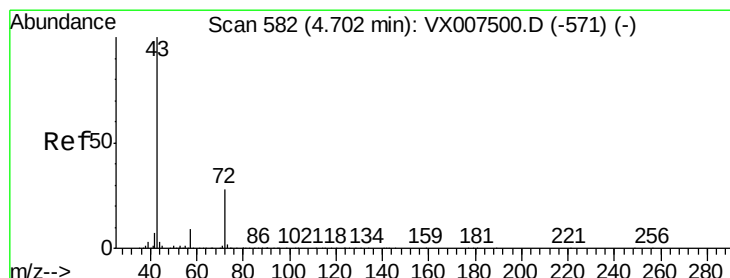
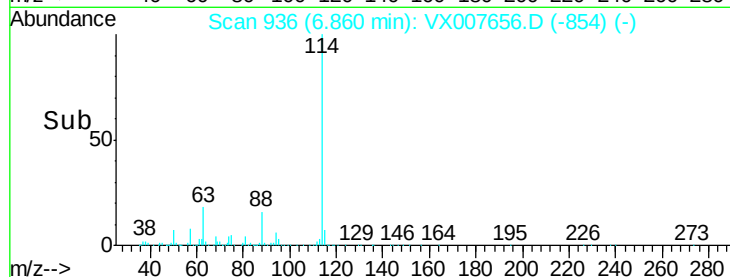
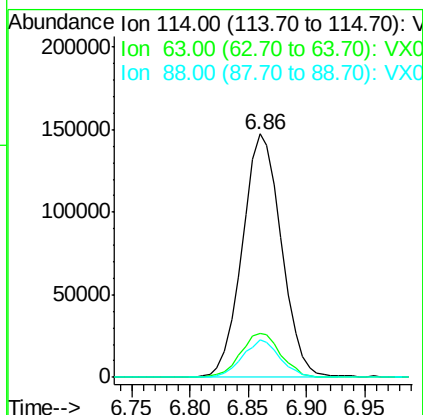
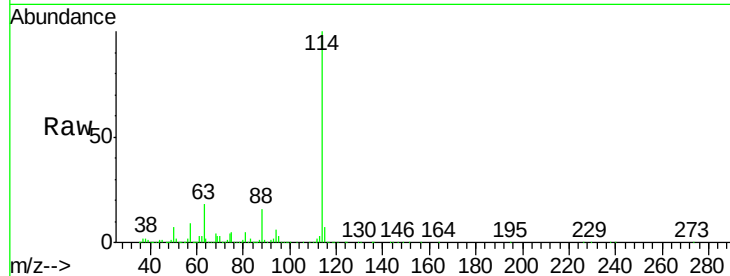




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007656.D
 Acq: 22 Feb 2019 13:36

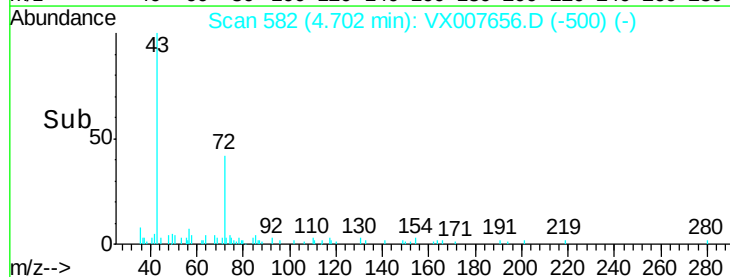
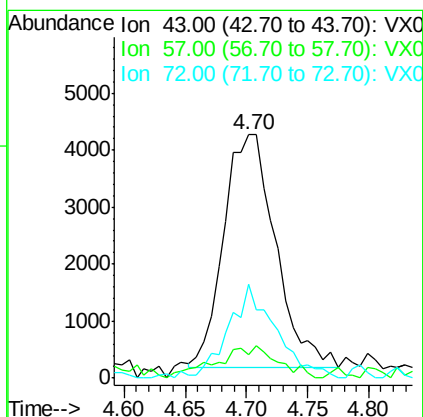
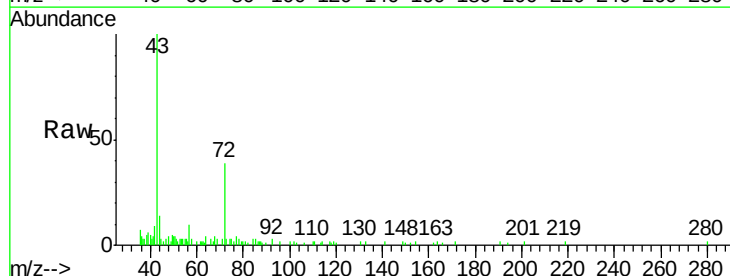
Instrument :
 MSVOA_X
 ClientSampleId :
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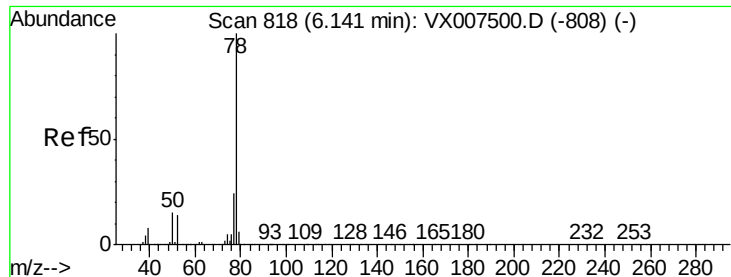
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.6	14.2	21.4
88	14.8	11.9	17.9



#30
 2-Butanone
 Concen: 4.256 ug/l
 RT: 4.70 min Scan# 582
 Delta R.T. -0.00 min
 Lab File: VX007656.D
 Acq: 22 Feb 2019 13:36

Tgt Ion	Ratio	Lower	Upper
43	100		
57	2.1	7.0	10.6#
72	31.4	21.5	32.3





#34

Benzene

Concen: 4.619 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX007656.D

Acq: 22 Feb 2019 13:36

Instrument :

MSVOA_X

ClientSampled :

50-25

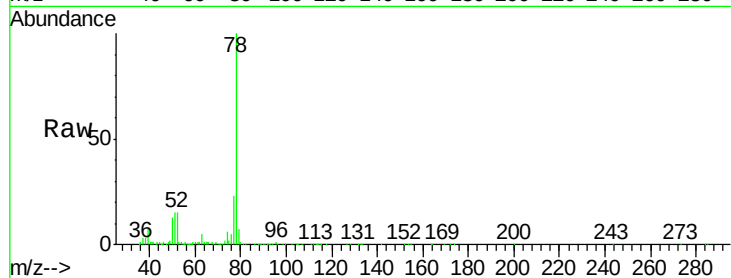
Tot Ion: 78 Resp: 69999

Ion Ratio Lower Upper

78 100

77 23.1 19.1 28.7

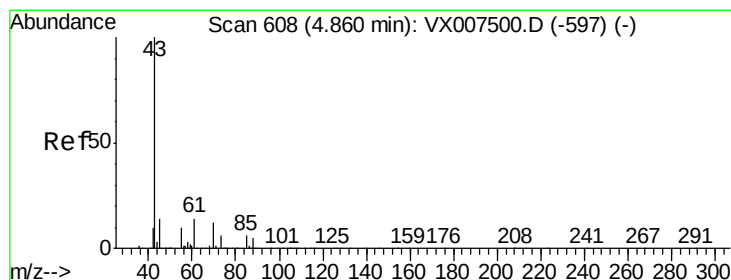
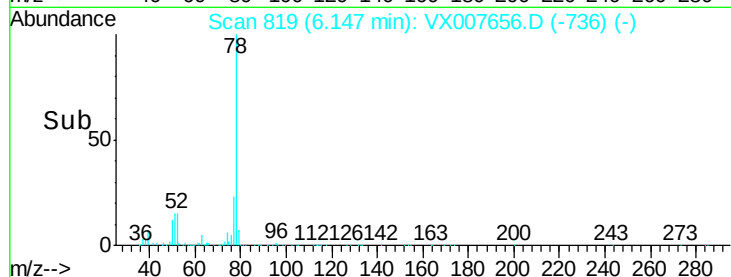
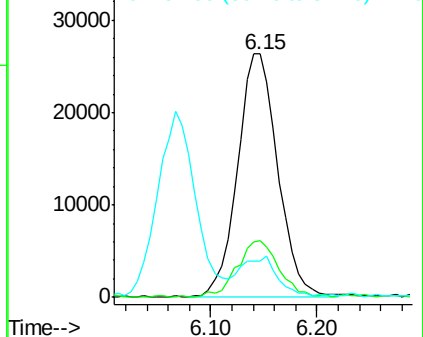
51 14.2 10.8 16.2



Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#43

Ethyl Acetate

Concen: 0.313 ug/l

RT: 5.24 min Scan# 671

Delta R.T. 0.38 min

Lab File: VX007656.D

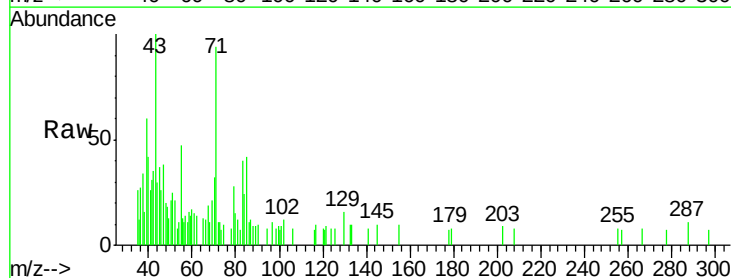
Acq: 22 Feb 2019 13:36

Tgt Ion: 43 Resp: 1705

Ion Ratio Lower Upper

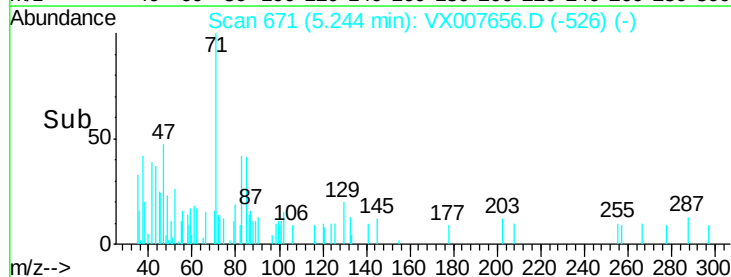
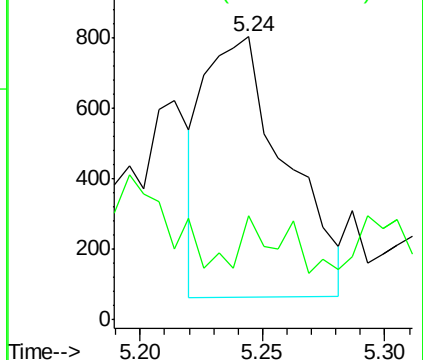
43 100

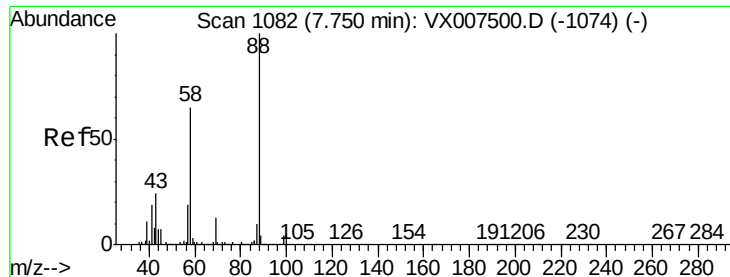
45 9.5 6.9 10.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

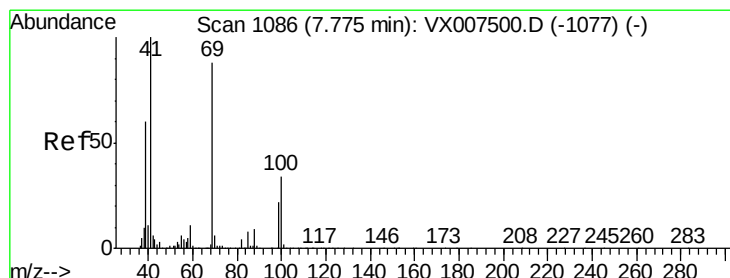
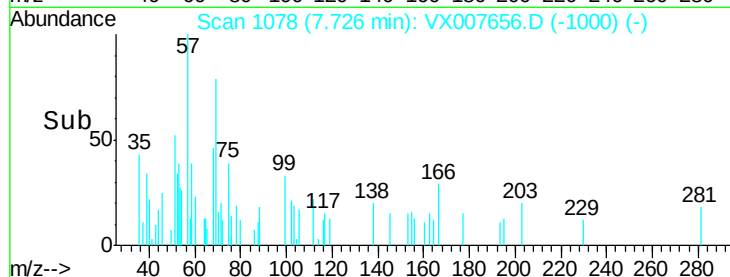
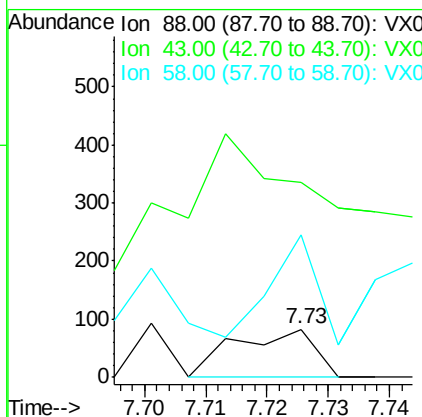
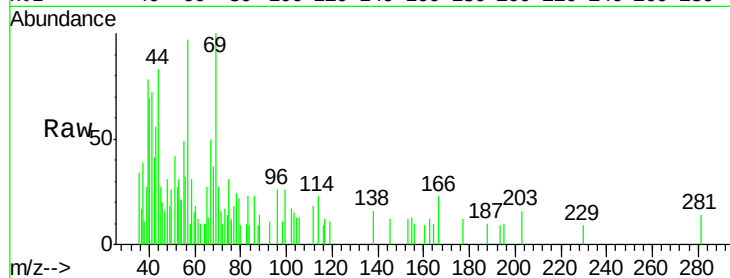




#45
1,4-Dioxane
Concen: 0.756 ug/l
RT: 7.73 min Scan# 1078
Delta R.T. -0.02 min
Lab File: VX007656.D
Acq: 22 Feb 2019 13:36

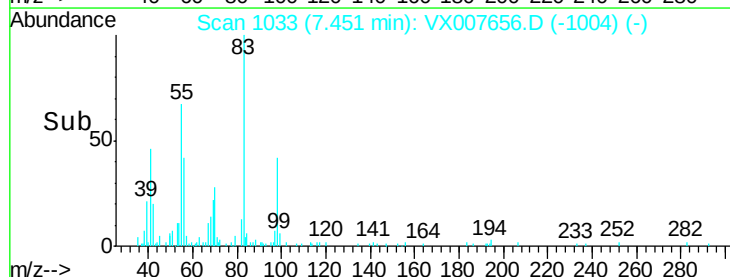
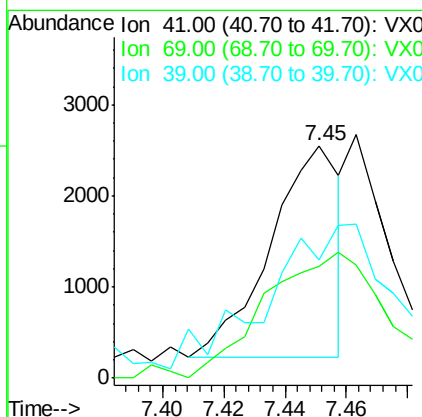
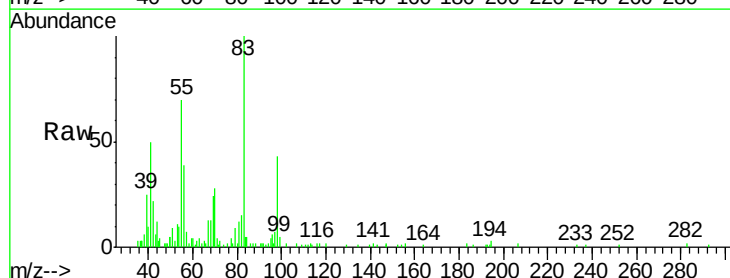
Instrument :
MSVOA_X
ClientSampled :
50-25

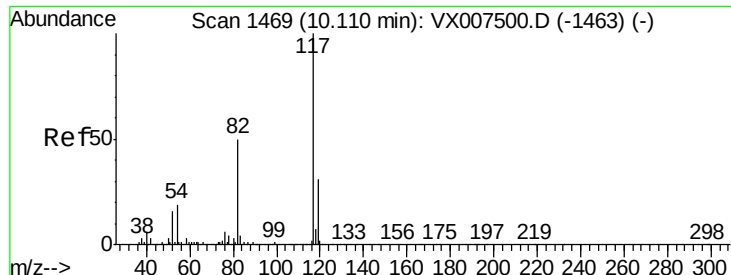
Tot Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 581.3 23.6 35.4#
58 166.7 51.6 77.4#



#46
Methyl methacrylate
Concen: 0.872 ug/l
RT: 7.45 min Scan# 1033
Delta R.T. -0.32 min
Lab File: VX007656.D
Acq: 22 Feb 2019 13:36

Tgt Ion: 41 Resp: 3716
Ion Ratio Lower Upper
41 100
69 52.9 44.2 132.6
39 32.7 29.9 89.8

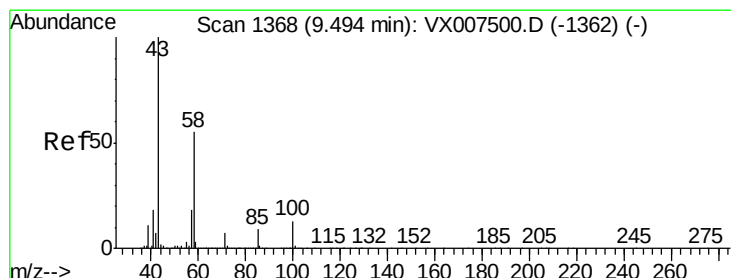
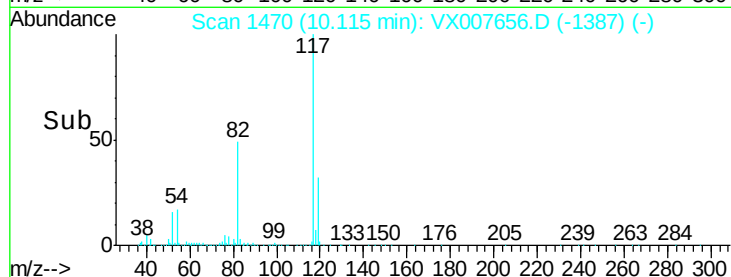
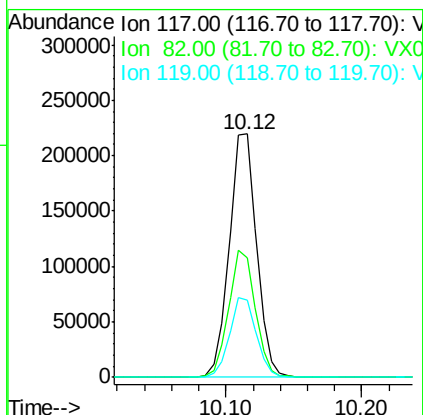
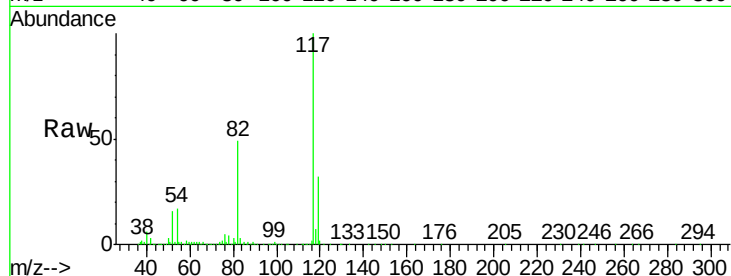




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007656.D
Acq: 22 Feb 2019 13:36

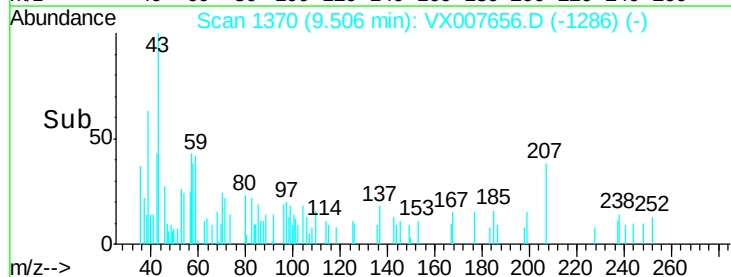
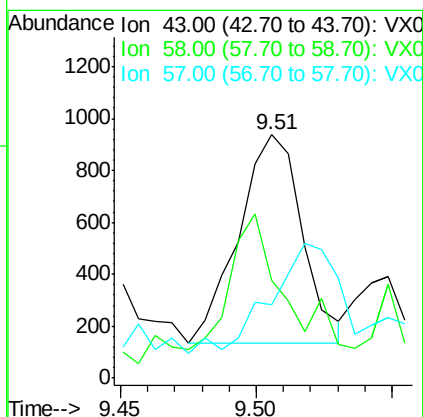
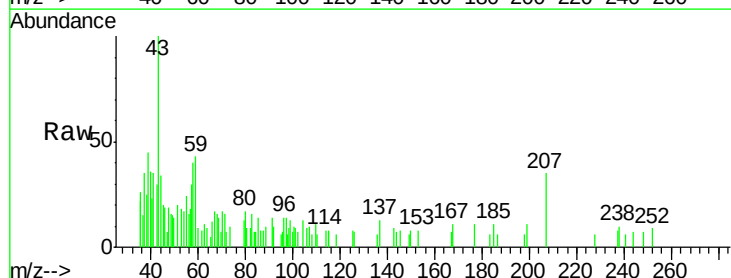
Instrument :
MSVOA_X
ClientSampled :
50-25

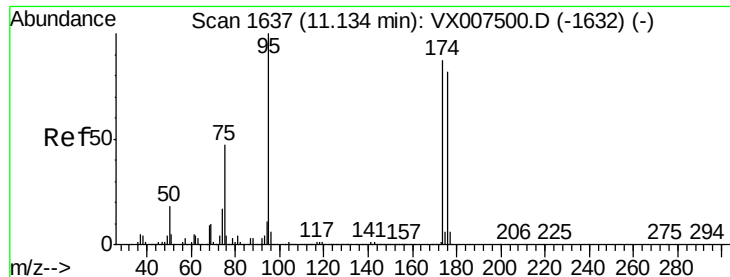
Tot Ion	Ratio	Lower	Upper
117	100		
82	50.9	40.4	60.6
119	32.3	25.8	38.6



#59
2-Hexanone
Concen: 0.309 ug/l
RT: 9.51 min Scan# 1370
Delta R.T. 0.01 min
Lab File: VX007656.D
Acq: 22 Feb 2019 13:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	46.1	43.9	65.9
57	0.0	14.9	22.3#





#60

4-Bromofluorobenzene

Concen: 28.311 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007656.D

Acq: 22 Feb 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

50-25

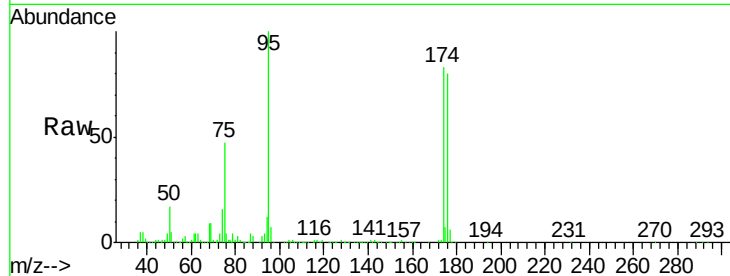
Tot Ion: 95 Resp: 133577

Ion Ratio Lower Upper

95 100

174 90.1 74.9 112.3

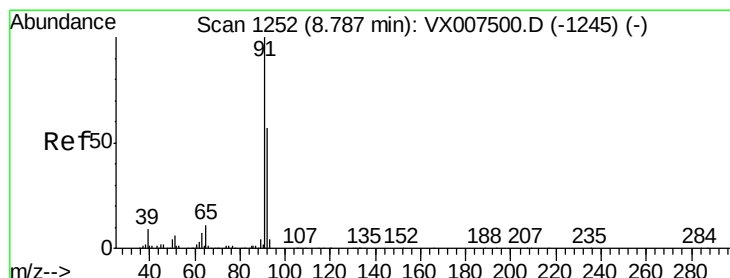
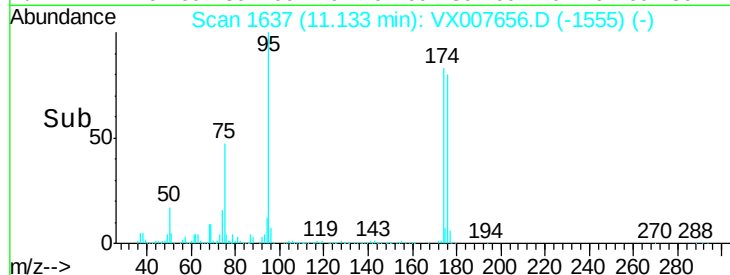
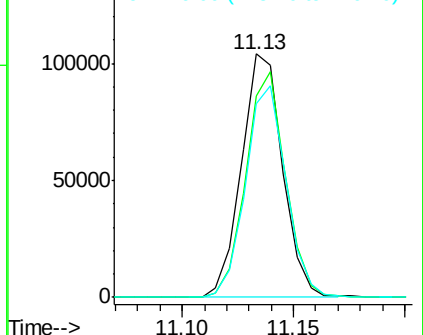
176 86.2 70.7 106.1



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#62

Toluene

Concen: 0.518 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX007656.D

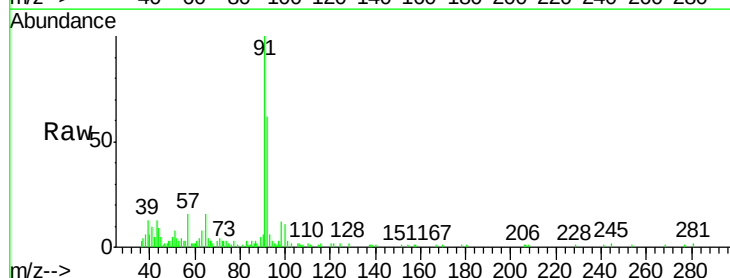
Acq: 22 Feb 2019 13:36

Tgt Ion: 91 Resp: 8678

Ion Ratio Lower Upper

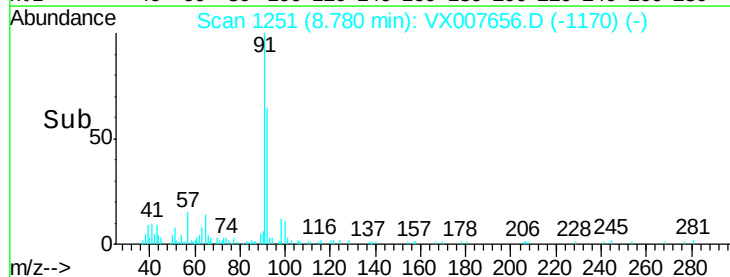
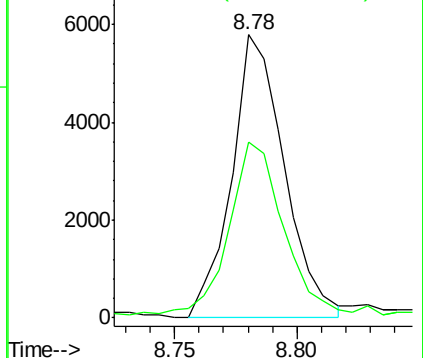
91 100

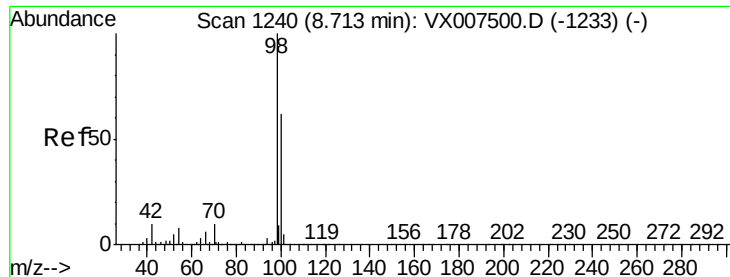
92 66.5 46.4 69.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 29.438 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007656.D

Acq: 22 Feb 2019 13:36

Instrument :

MSVOA_X

ClientSampleId :

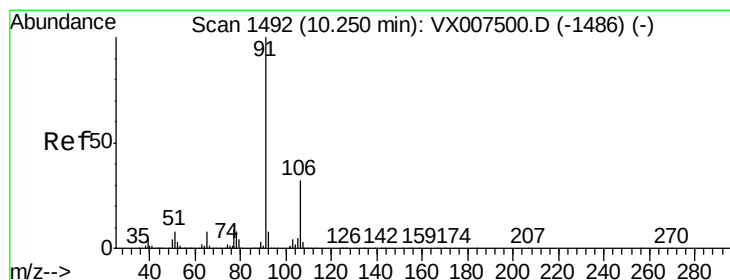
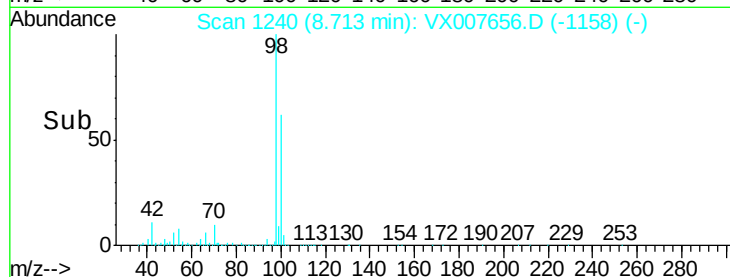
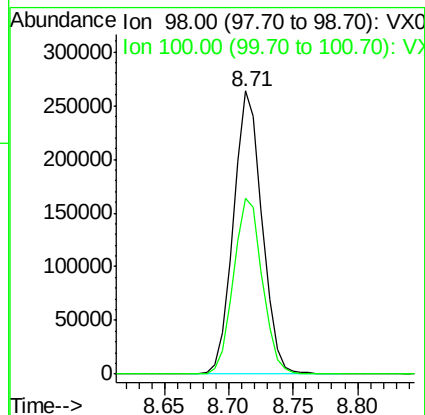
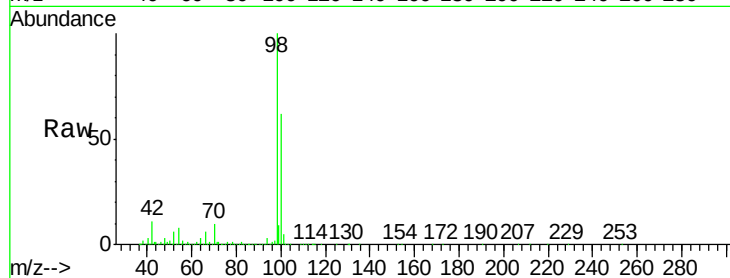
50-25

Tot Ion: 98 Resp: 409021

Ion Ratio Lower Upper

98 100

100 62.8 50.9 76.3



#66

Ethyl Benzene

Concen: 0.217 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX007656.D

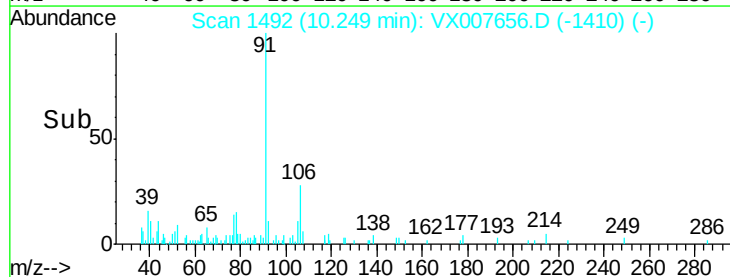
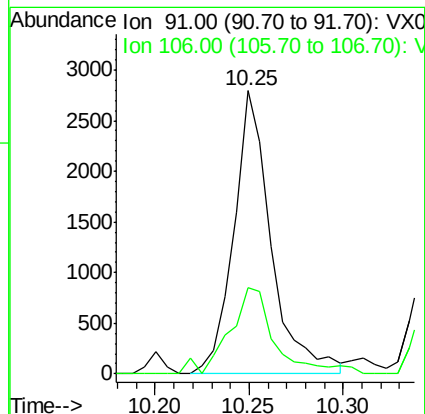
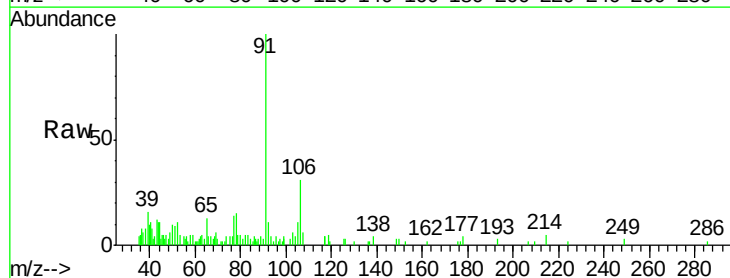
Acq: 22 Feb 2019 13:36

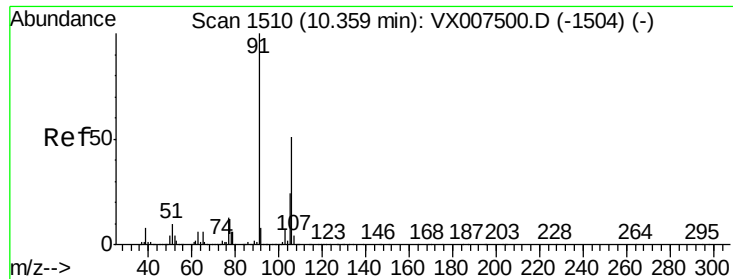
Tgt Ion: 91 Resp: 3851

Ion Ratio Lower Upper

91 100

106 27.8 26.0 39.0





#67

m/p-Xylenes

Concen: 0.726 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX007656.D

Acq: 22 Feb 2019 13:36

Instrument :

MSVOA_X

ClientSampled :

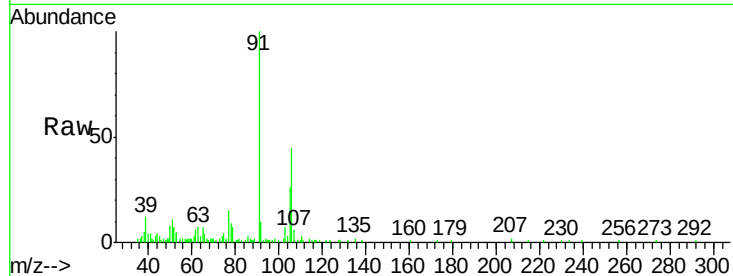
50-25

Tot Ion:106 Resp: 5057

Ion Ratio Lower Upper

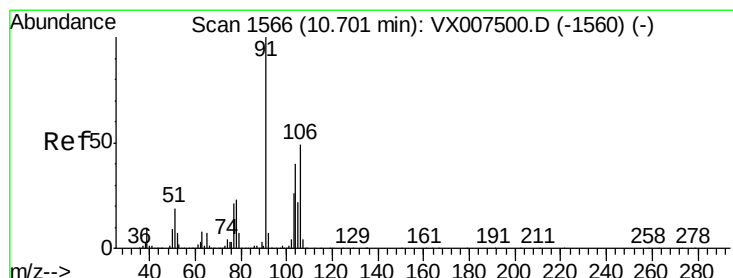
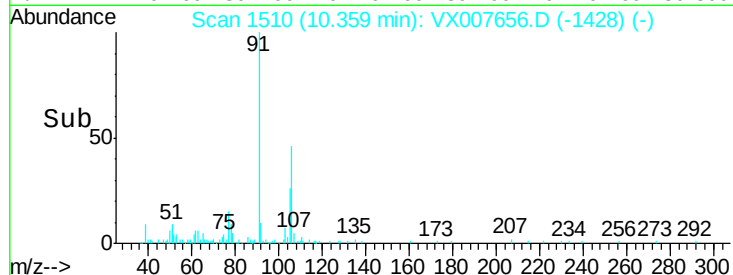
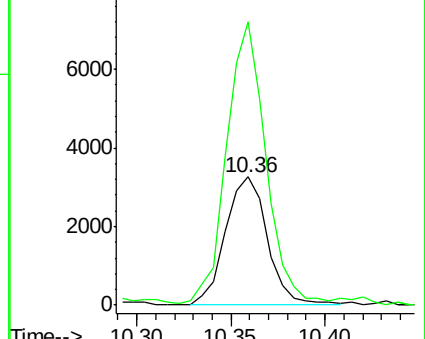
106 100

91 202.8 157.0 235.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 0.250 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VX007656.D

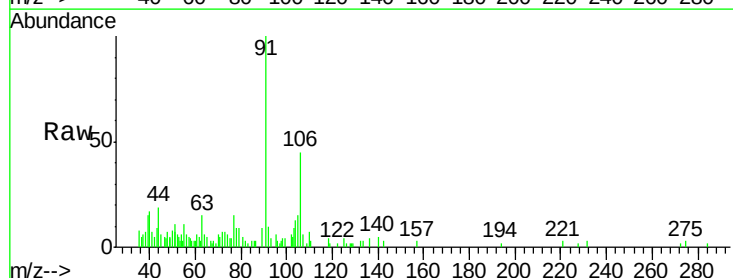
Acq: 22 Feb 2019 13:36

Tgt Ion:106 Resp: 1697

Ion Ratio Lower Upper

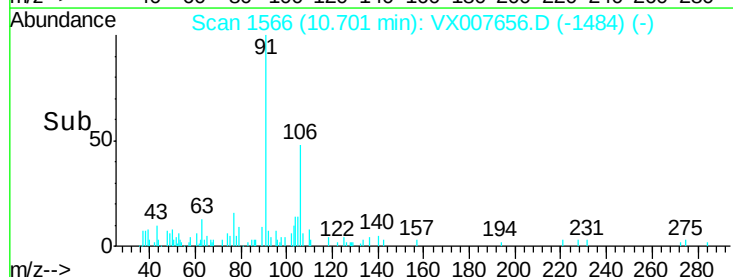
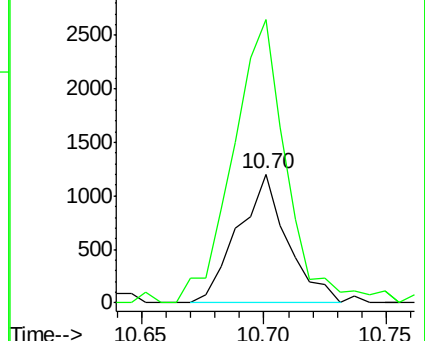
106 100

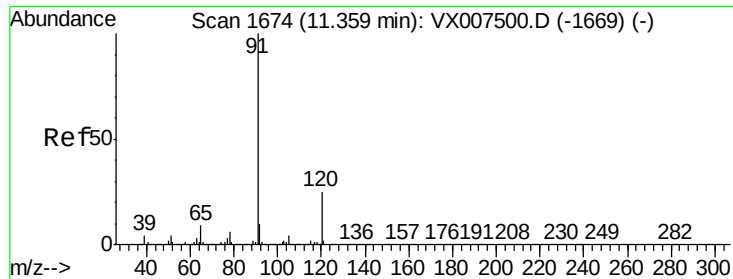
91 235.4 104.4 313.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#74

n-propylbenzene

Concen: 0.242 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX007656.D

Acq: 22 Feb 2019 13:36

Instrument :

MSVOA_X

ClientSampled :

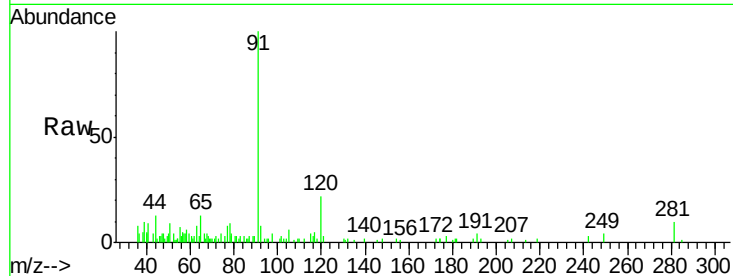
50-25

Tot Ion: 91 Resp: 4822

Ion Ratio Lower Upper

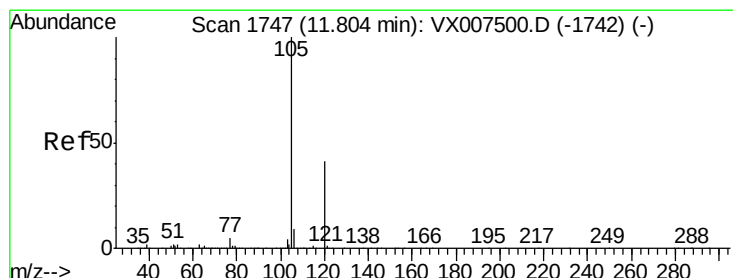
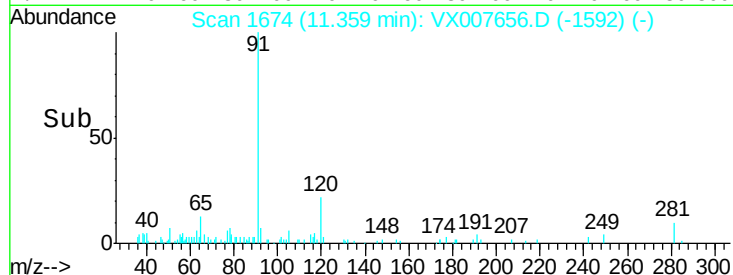
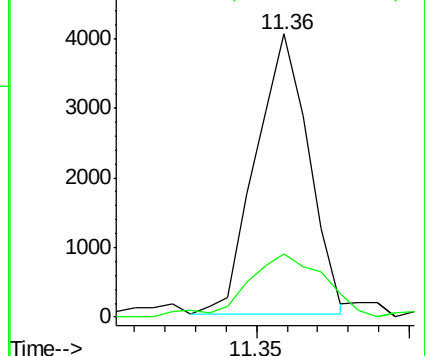
91 100

120 31.1 0.0 48.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#80

1,2,4-Trimethylbenzene

Concen: 0.267 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX007656.D

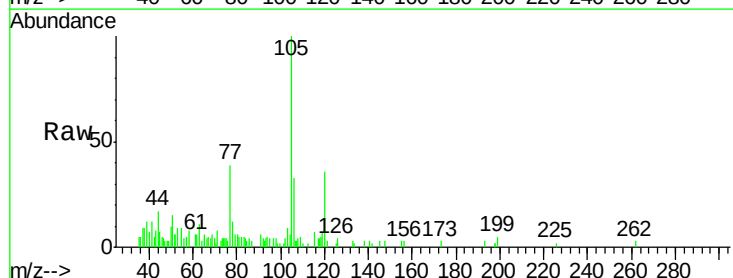
Acq: 22 Feb 2019 13:36

Tgt Ion: 105 Resp: 3973

Ion Ratio Lower Upper

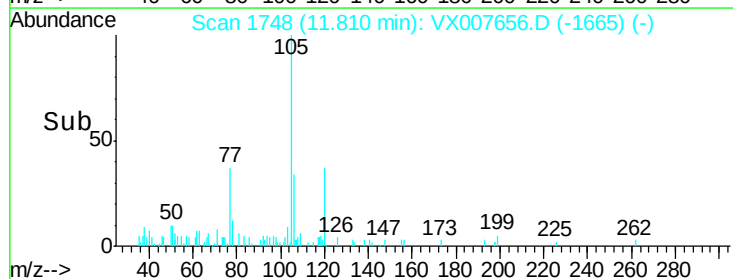
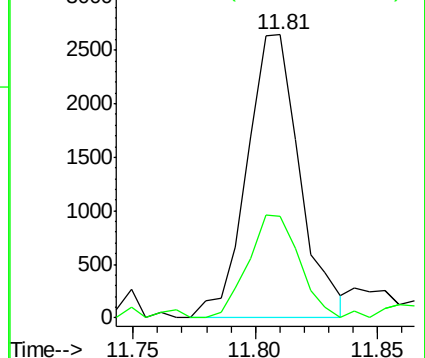
105 100

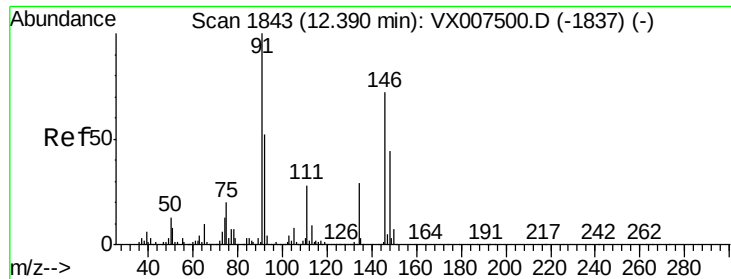
120 34.9 0.0 94.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

n-Butylbenzene

Concen: 0.229 ug/l

RT: 12.30 min Scan# 1829

Delta R.T. -0.09 min

Lab File: VX007656.D

Acq: 22 Feb 2019 13:36

Instrument :

MSVOA_X

ClientSampled :

50-25

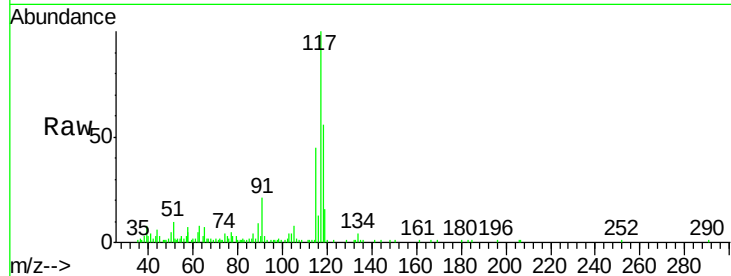
Tot Ion: 91 Resp: 2951

Ion Ratio Lower Upper

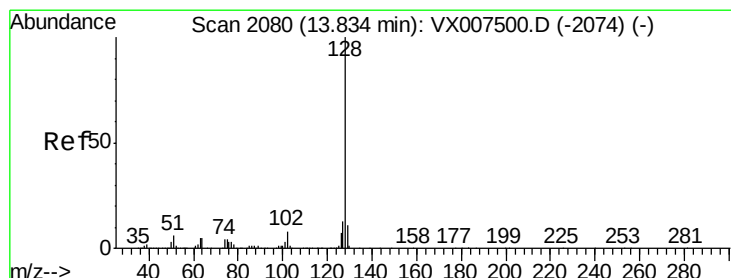
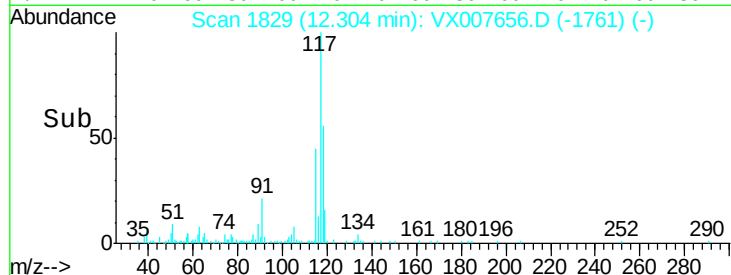
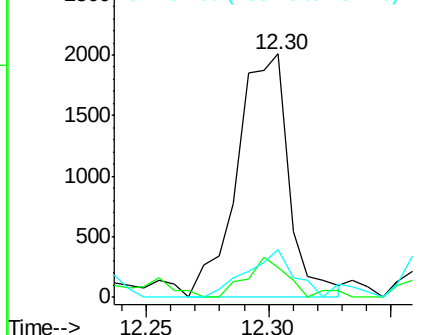
91 100

92 12.4 0.0 105.2

134 17.8 0.0 56.4



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 92.00 (91.70 to 92.70): VX0
Ion 134.00 (133.70 to 134.70): V



#91

Naphthalene

Concen: 0.314 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007656.D

Acq: 22 Feb 2019 13:36

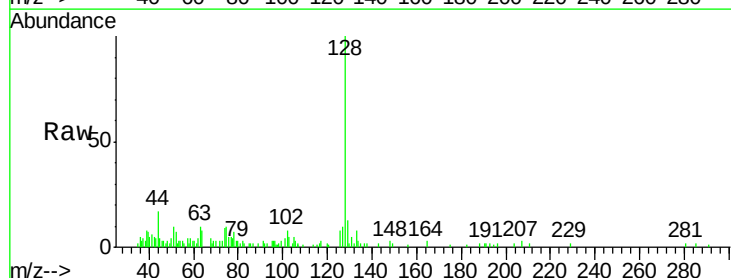
Tgt Ion: 128 Resp: 5690

Ion Ratio Lower Upper

128 100

127 14.1 10.5 15.7

129 10.1 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

