

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082719\
 Data File : VW012211.D
 Acq On : 27 Aug 2019 14:44
 Operator : SY/VA
 Sample : K4521-07
 Misc : 3.76G/5ML/MSVOA_W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 PX-10

Quant Time: Aug 28 04:56:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	240938	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	403106	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	336768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	136448	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	144392	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
35) Dibromofluoromethane	7.88	113	120543	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
50) Toluene-d8	10.32	98	496304	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	12.62	95	163004	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	

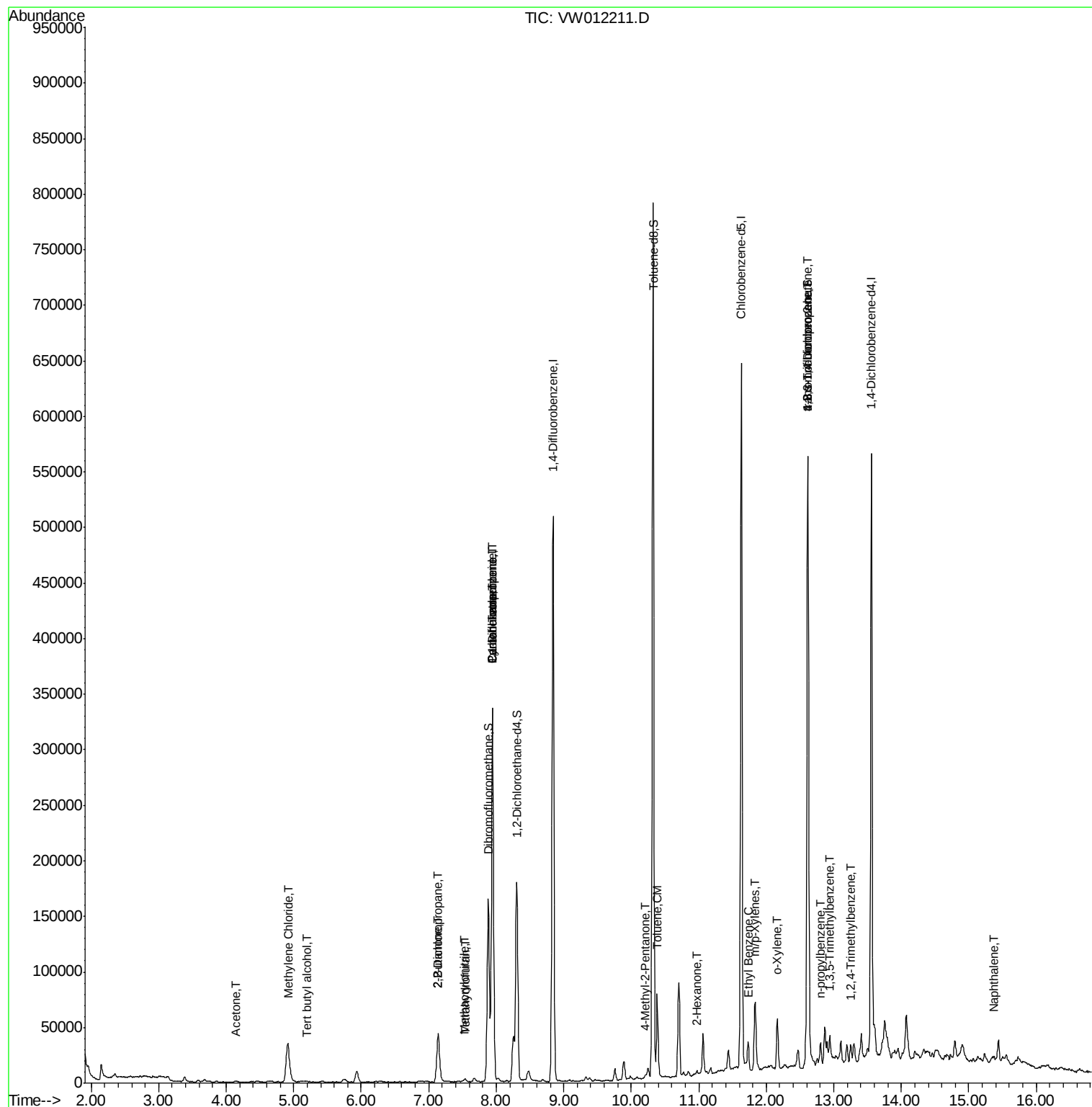
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.19	59	202	1.172	ug/l	94
16) Acetone	4.15	43	2126	2.904	ug/l	91
20) Methylene Chloride	4.92	84	26652	9.629	ug/l	95
25) 2-Butanone	7.13	43	3357	3.374	ug/l #	79
26) 2,2-Dichloropropane	7.13	77	3067	1.039	ug/l #	54
29) Tetrahydrofuran	7.54	42	2507	4.200	ug/l	96
31) Cyclohexane	7.94	56	6385	1.238	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	21901	5.258	ug/l #	51
38) Carbon Tetrachloride	7.95	117	24453	6.782	ug/l #	16
41) Methacrylonitrile	7.52	41	1564	1.166	ug/l #	27
51) 4-Methyl-2-Pentanone	10.21	43	2159	1.004	ug/l	92
52) Toluene	10.38	92	30222	4.423	ug/l	99
59) 2-Hexanone	10.98	43	1922	1.263	ug/l	95
67) Ethyl Benzene	11.73	91	17426	1.364	ug/l	92
68) m/p-Xylenes	11.83	106	18090	3.931	ug/l	97
69) o-Xylene	12.16	106	11722	2.752	ug/l	91
76) 1,2,3-Trichloropropane	12.62	75	85502	64.340	ug/l #	100
78) n-propylbenzene	12.80	91	14630	1.172	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	8925	1.045	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	85502	141.068	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.25	105	9310	1.085	ug/l	95
95) Naphthalene	15.37	128	3781	4.992	ug/l #	74

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

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QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

Instrument :

MSVOA_W

ClientSampled :

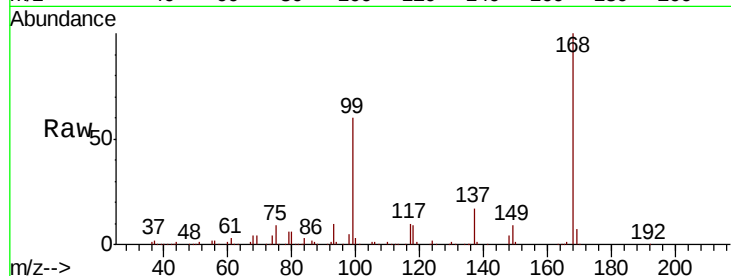
PX-10

Tgt Ion:168 Resp: 240938

Ion Ratio Lower Upper

168 100

99 59.6 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

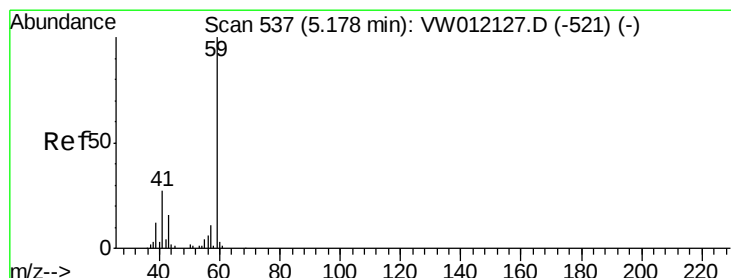
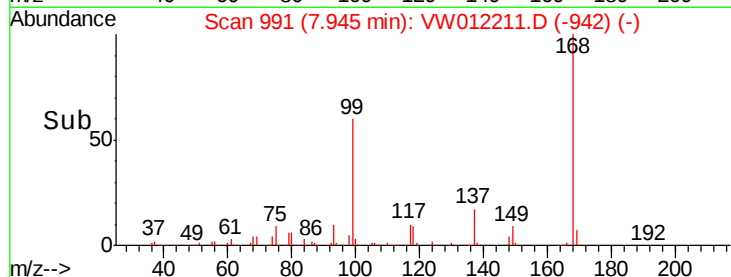
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 1.172 ug/l

RT: 5.19 min Scan# 539

Delta R.T. 0.01 min

Lab File: VW012211.D

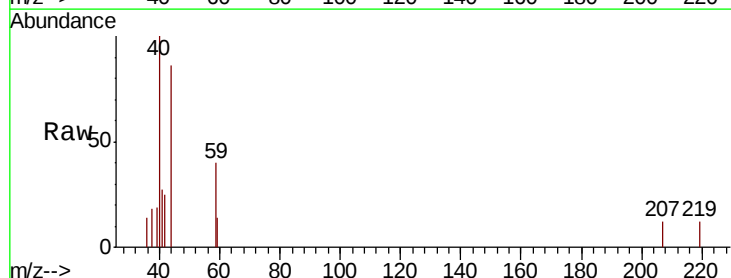
Acq: 27 Aug 2019 14:44

Tgt Ion: 59 Resp: 202

Ion Ratio Lower Upper

59 100

57 13.4 9.0 13.4



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.19

250

200

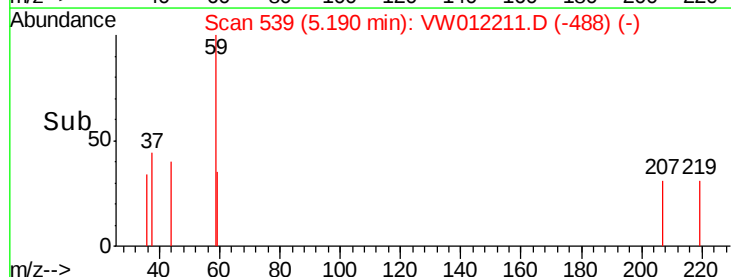
150

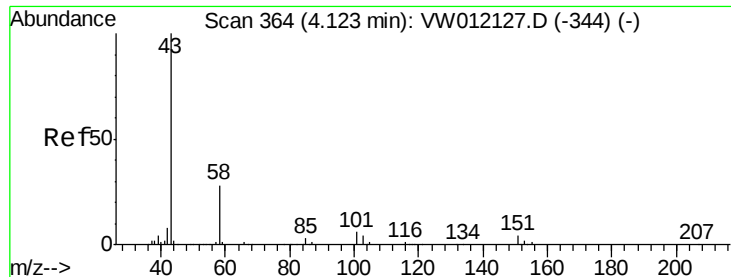
100

50

0

Time--> 5.16 5.18 5.20 5.22





#16

Acetone

Concen: 2.904 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.02 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

Instrument :

MSVOA_W

ClientSampleId :

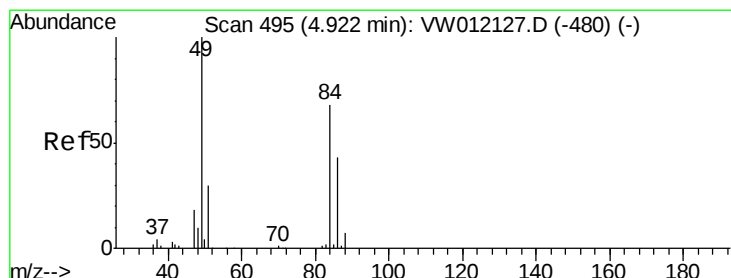
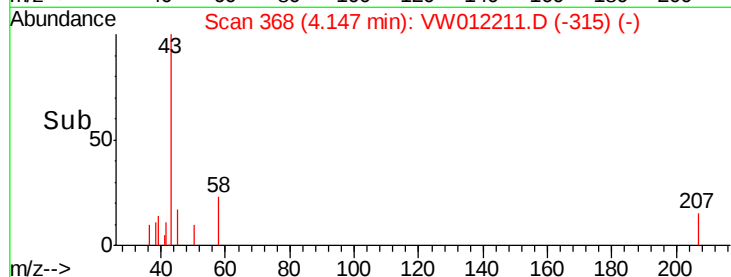
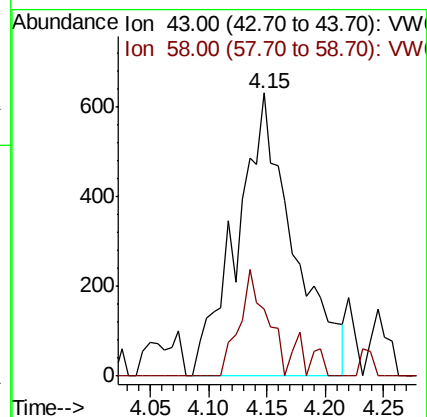
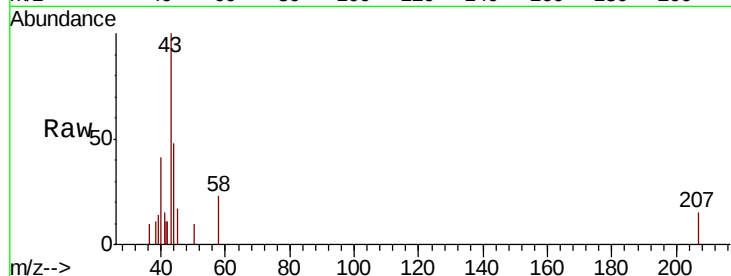
PX-10

Tgt Ion: 43 Resp: 2126

Ion Ratio Lower Upper

43 100

58 23.5 22.4 33.6



#20

Methylene Chloride

Concen: 9.629 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

Tgt Ion: 84 Resp: 26652

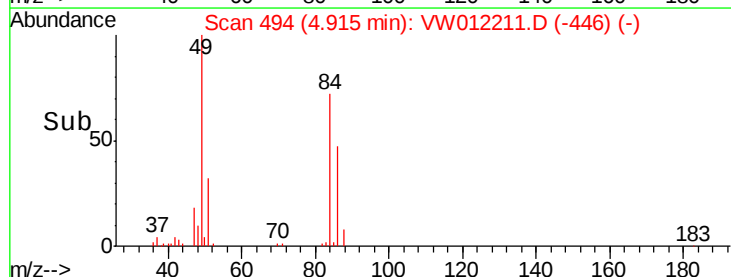
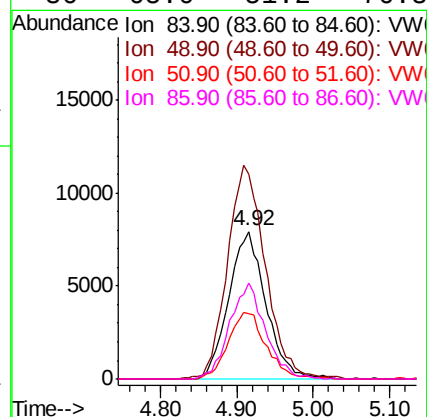
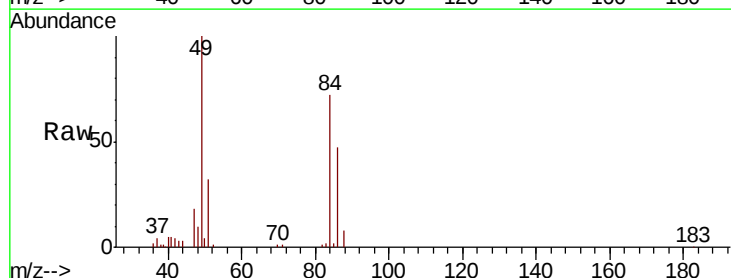
Ion Ratio Lower Upper

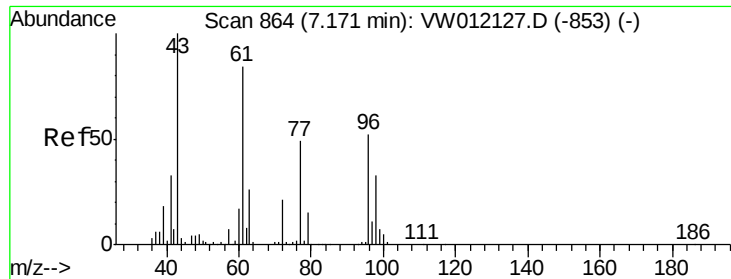
84 100

49 137.7 117.8 176.8

51 43.9 35.6 53.4

86 65.0 51.2 76.8





#25

2-Butanone

Concen: 3.374 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.04 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

Instrument :

MSVOA_W

ClientSampled :

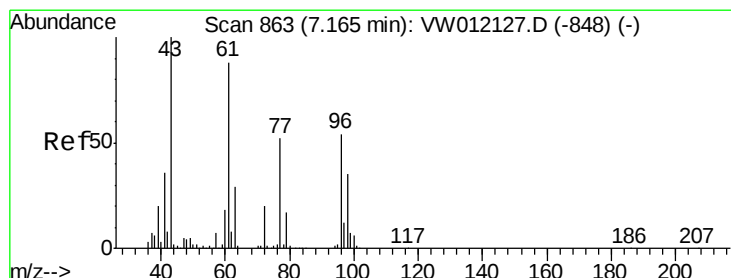
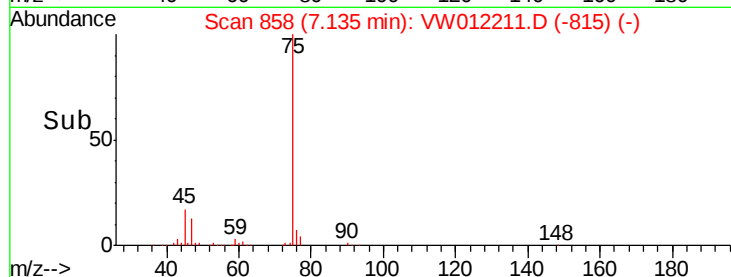
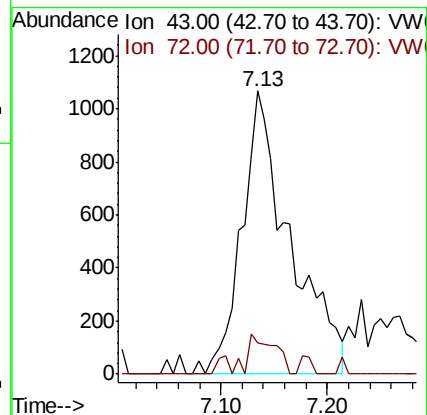
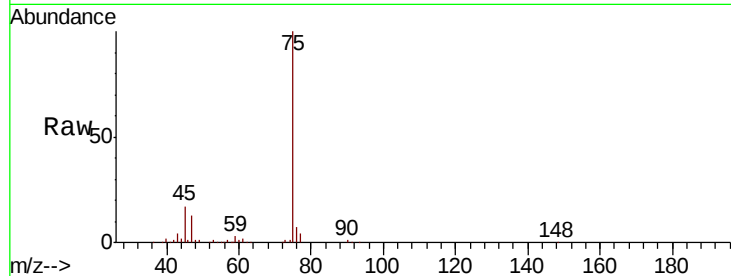
PX-10

Tgt Ion: 43 Resp: 3357

Ion Ratio Lower Upper

43 100

72 10.9 16.6 24.8#



#26

2,2-Dichloropropane

Concen: 1.039 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW012211.D

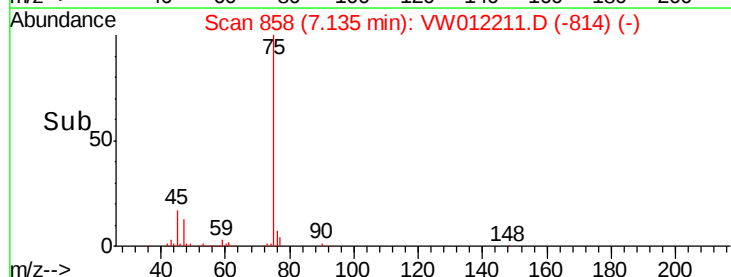
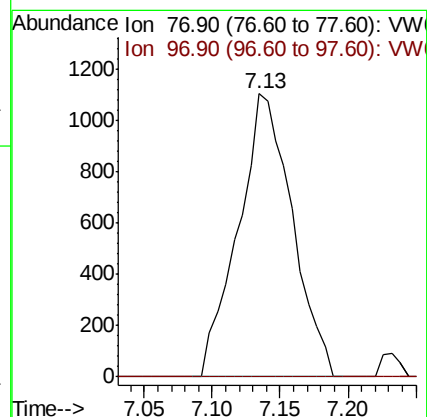
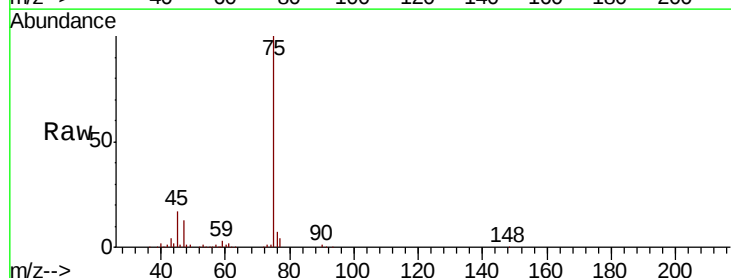
Acq: 27 Aug 2019 14:44

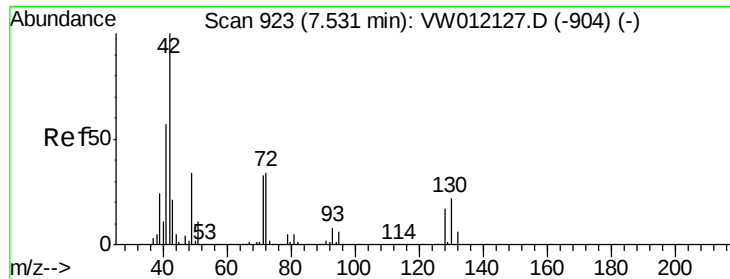
Tgt Ion: 77 Resp: 3067

Ion Ratio Lower Upper

77 100

97 0.0 11.1 33.1#

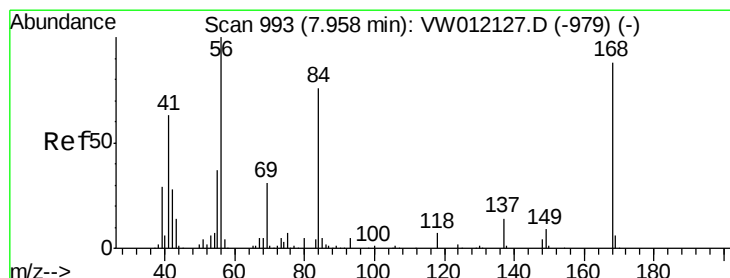
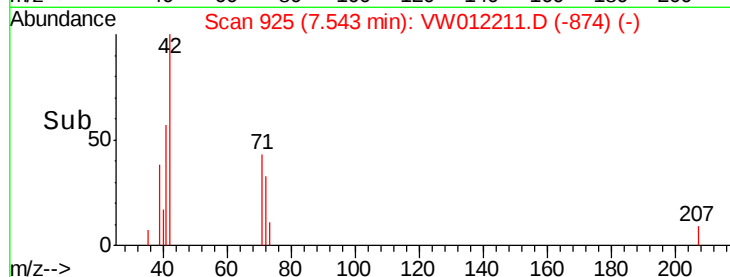
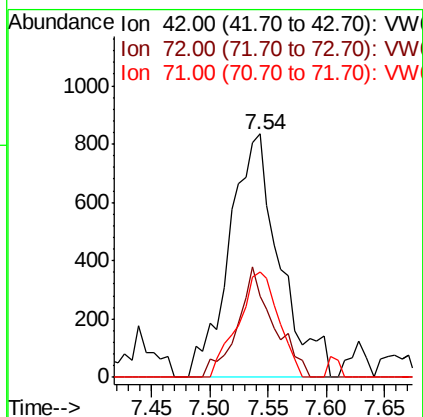
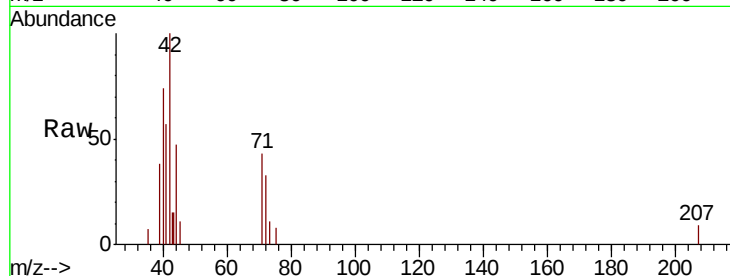




#29
Tetrahydrofuran
Concen: 4.200 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW012211.D
Acq: 27 Aug 2019 14:44

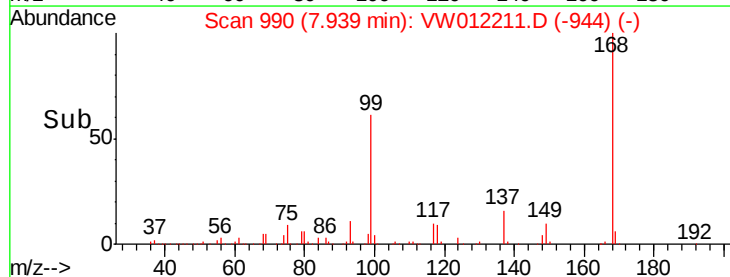
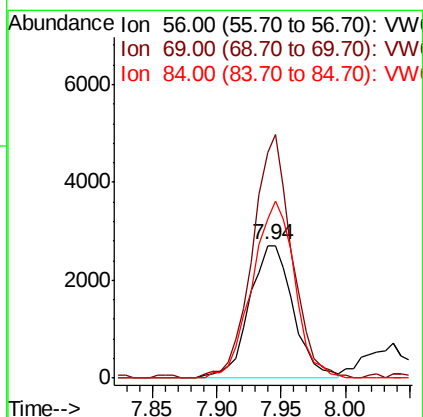
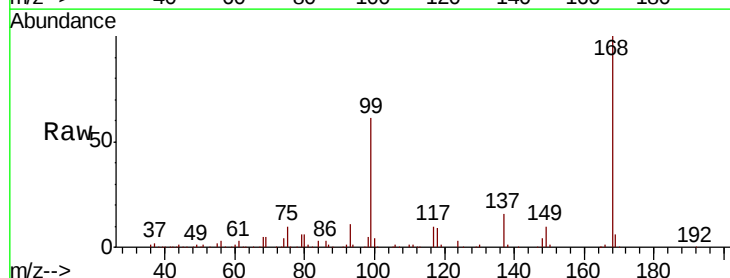
Instrument :
MSVOA_W
ClientSampled :
PX-10

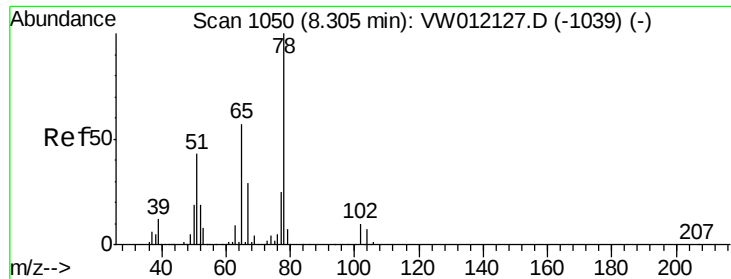
Tgt Ion: 42 Resp: 2507
Ion Ratio Lower Upper
42 100
72 32.7 27.3 40.9
71 34.9 25.5 38.3



#31
Cyclohexane
Concen: 1.238 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.02 min
Lab File: VW012211.D
Acq: 27 Aug 2019 14:44

Tgt Ion: 56 Resp: 6385
Ion Ratio Lower Upper
56 100
69 170.0 24.9 37.3#
84 119.9 60.6 90.8#





#33

1,2-Dichloroethane-d4

Concen: 50.413 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

Instrument :

MSVOA_W

ClientSampleId :

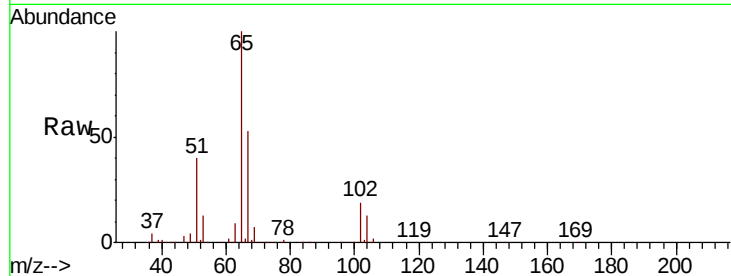
PX-10

Tgt Ion: 65 Resp: 144392

Ion Ratio Lower Upper

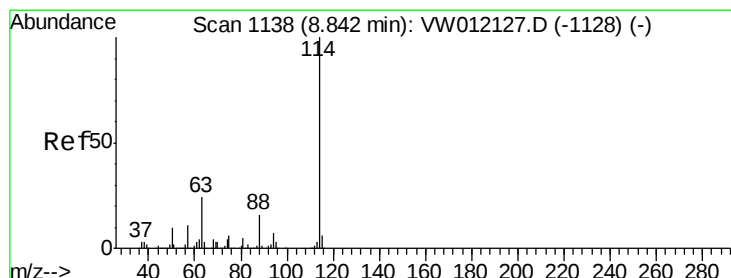
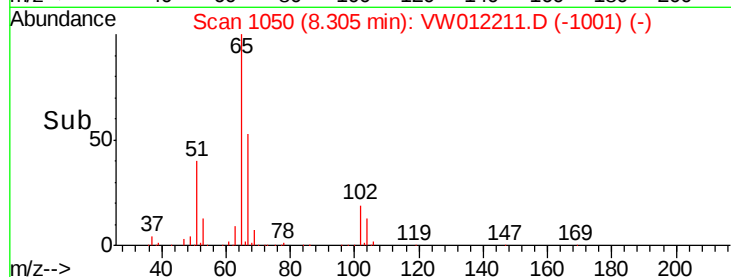
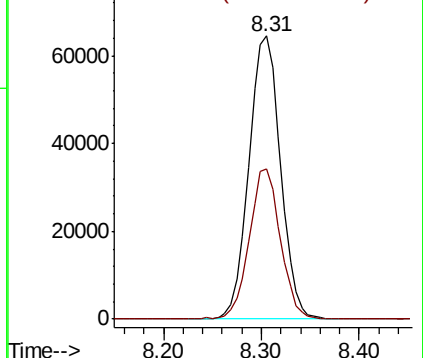
65 100

67 52.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

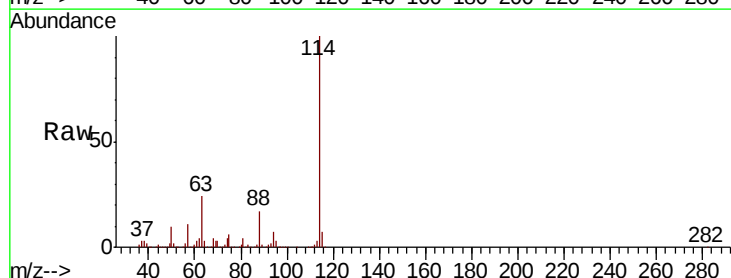
Tgt Ion: 114 Resp: 403106

Ion Ratio Lower Upper

114 100

63 23.8 0.0 48.6

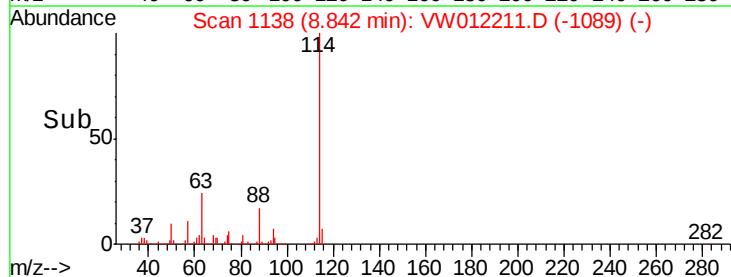
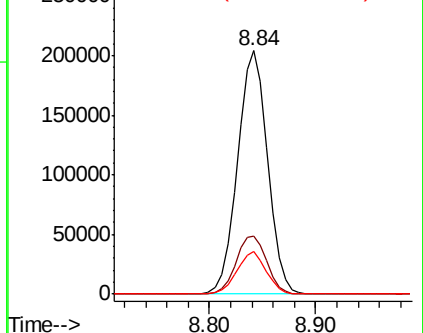
88 17.3 0.0 32.2

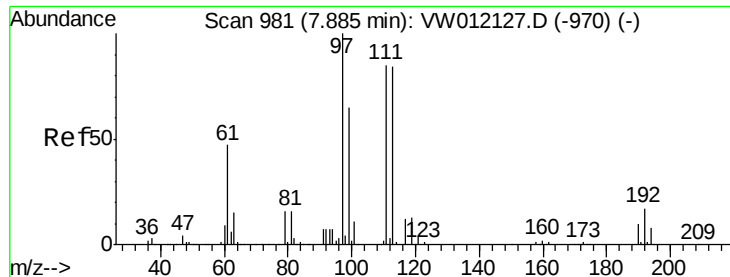


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

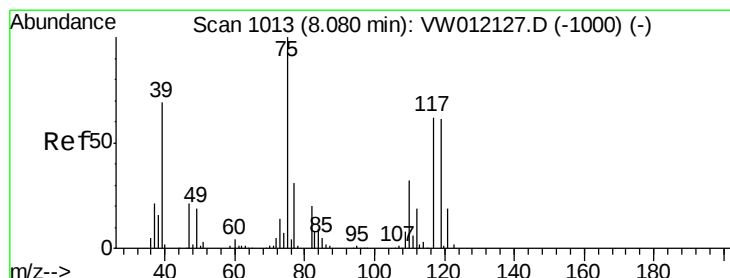
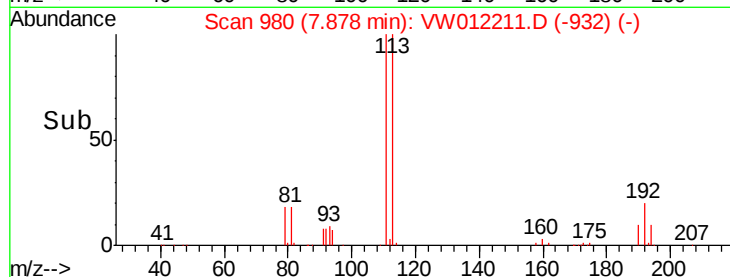
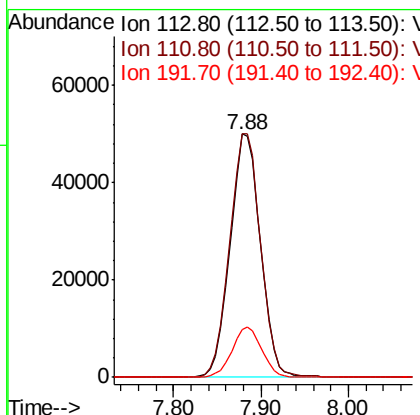
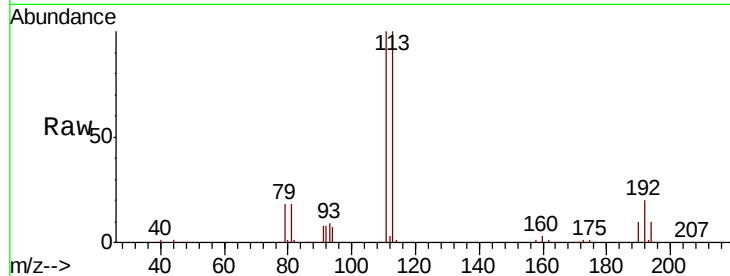




#35
 Dibromofluoromethane
 Concen: 50.098 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012211.D
 Acq: 27 Aug 2019 14:44

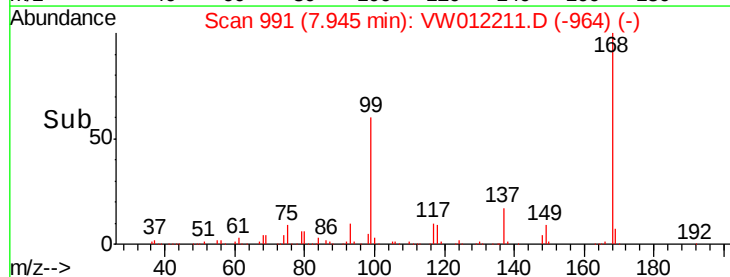
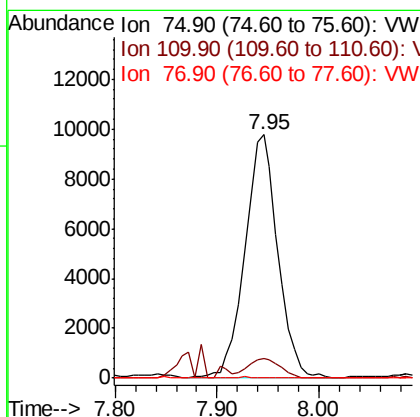
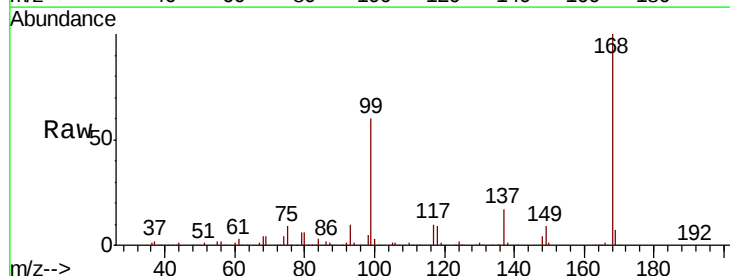
Instrument :
 MSVOA_W
 ClientSampleId :
 PX-10

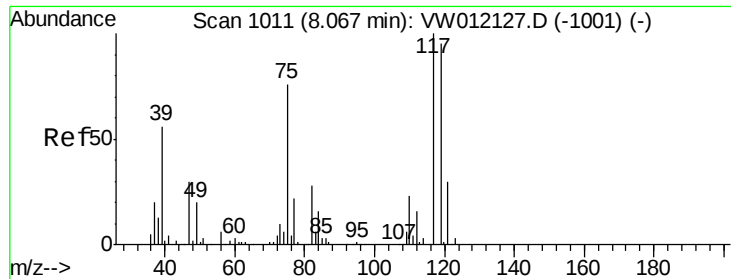
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.7	124.1
192	20.3	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.258 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012211.D
 Acq: 27 Aug 2019 14:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	15.6	46.8#
77	0.1	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.782 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

Instrument :

MSVOA_W

ClientSampleId :

PX-10

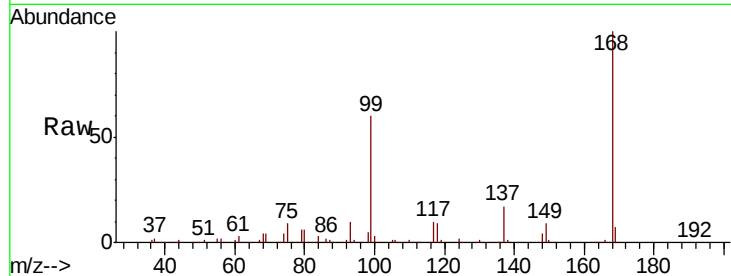
Tgt Ion:117 Resp: 24453

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

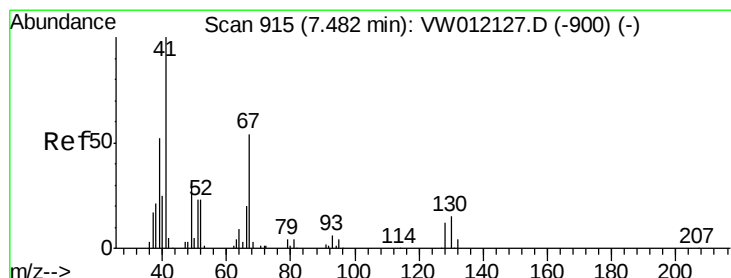
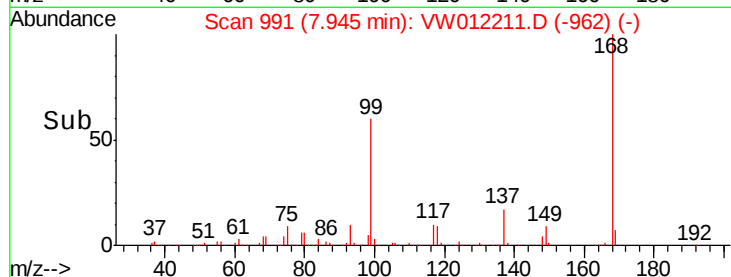
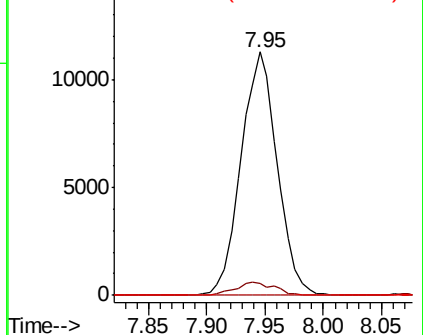
121 0.0 23.8 35.8#



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



#41

Methacrylonitrile

Concen: 1.166 ug/l

RT: 7.52 min Scan# 922

Delta R.T. 0.04 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

Tgt Ion: 41 Resp: 1564

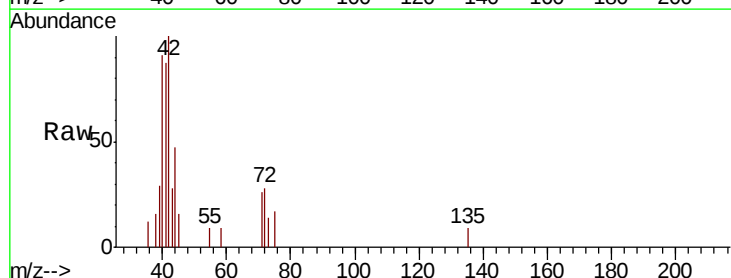
Ion Ratio Lower Upper

41 100

39 0.0 45.8 68.8#

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#

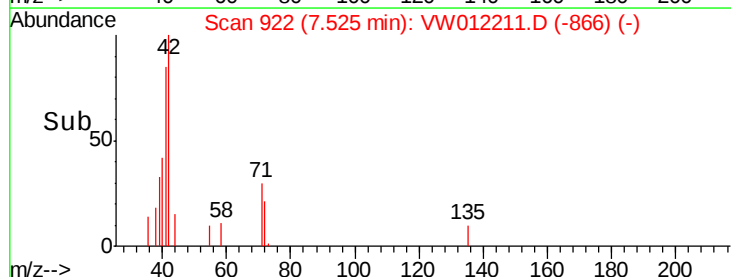
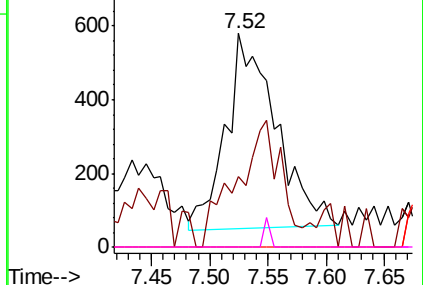


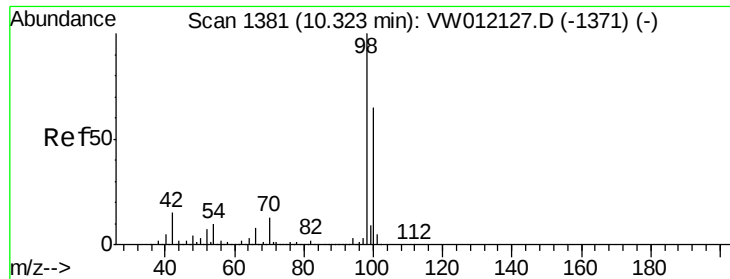
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW





#50

Toluene-d8

Concen: 50.870 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

Instrument :

MSVOA_W

ClientSampleId :

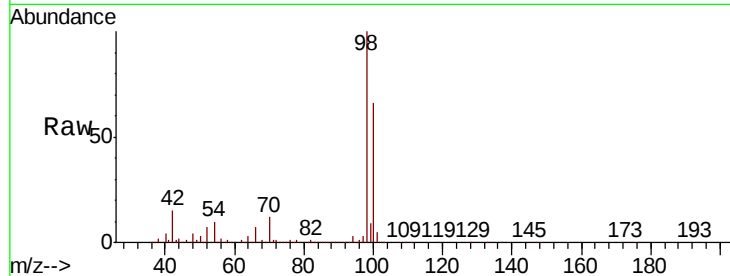
PX-10

Tgt Ion: 98 Resp: 496304

Ion Ratio Lower Upper

98 100

100 65.7 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

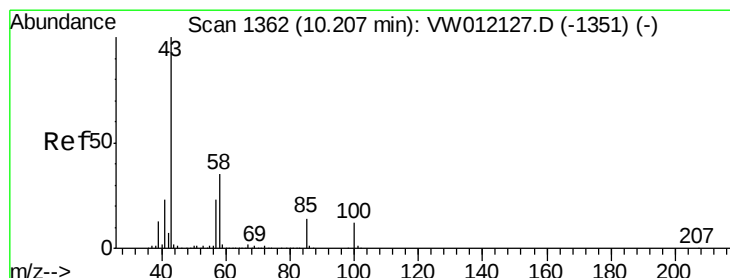
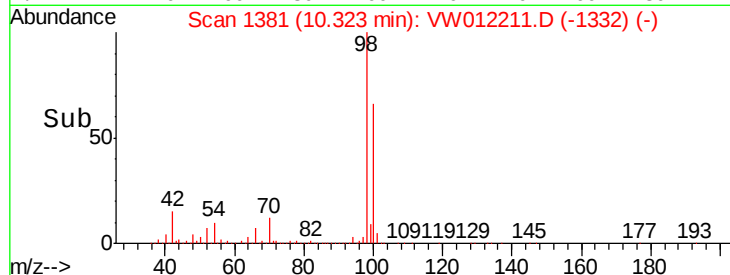
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.004 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW012211.D

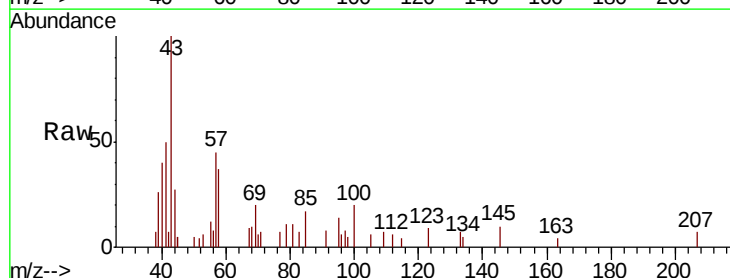
Acq: 27 Aug 2019 14:44

Tgt Ion: 43 Resp: 2159

Ion Ratio Lower Upper

43 100

58 40.0 28.2 42.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

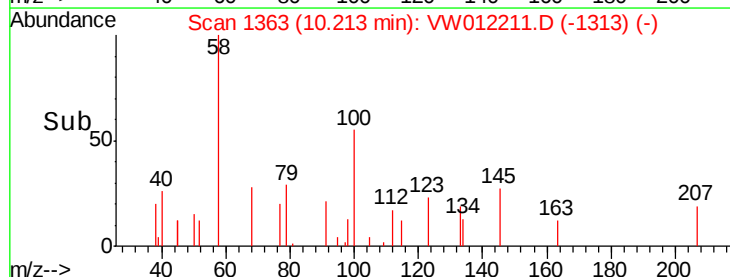
10.21

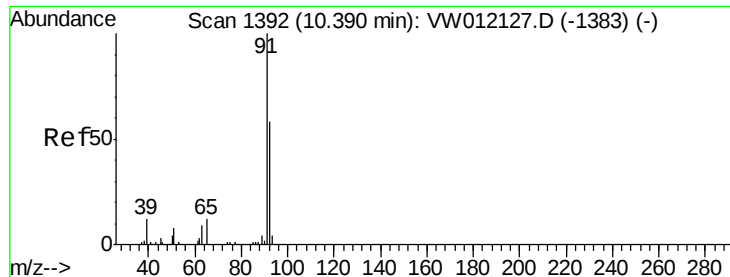
1000

500

0

Time-->





#52

Toluene

Concen: 4.423 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

Instrument :

MSVOA_W

ClientSampleId :

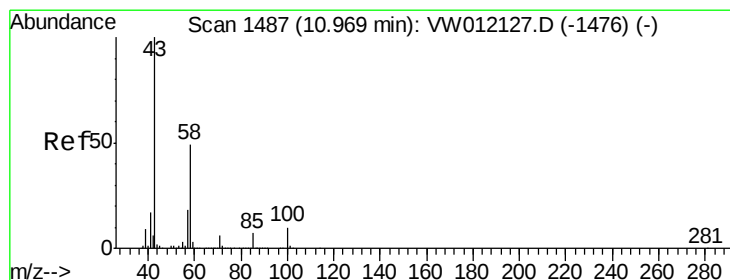
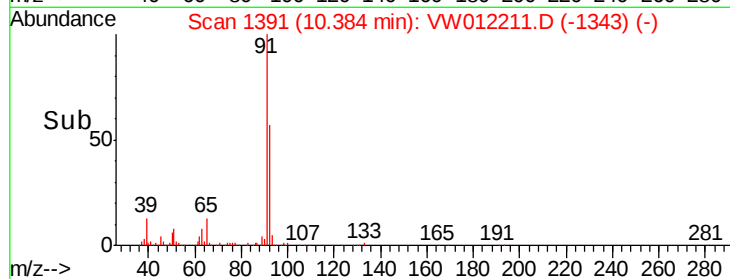
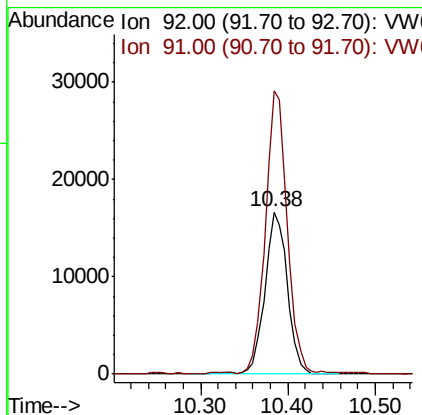
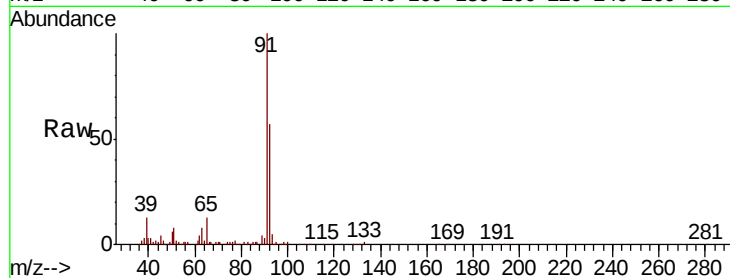
PX-10

Tgt Ion: 92 Resp: 30222

Ion Ratio Lower Upper

92 100

91 168.7 136.6 204.8



#59

2-Hexanone

Concen: 1.263 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW012211.D

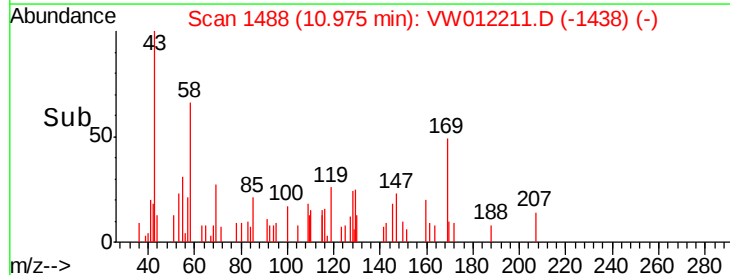
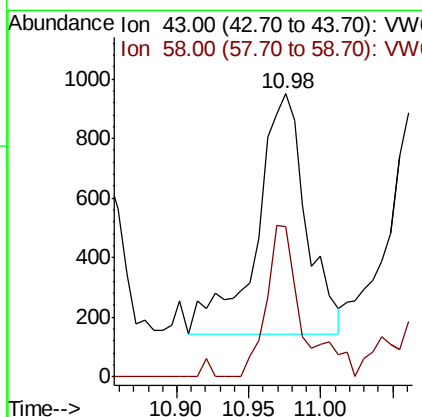
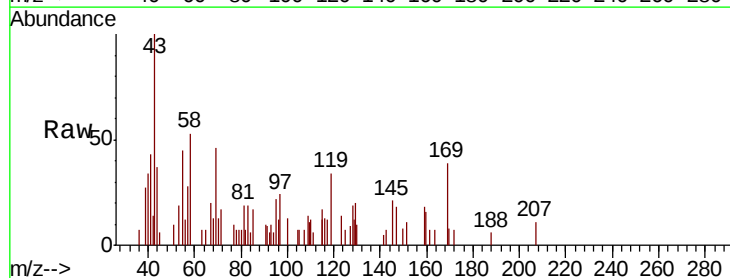
Acq: 27 Aug 2019 14:44

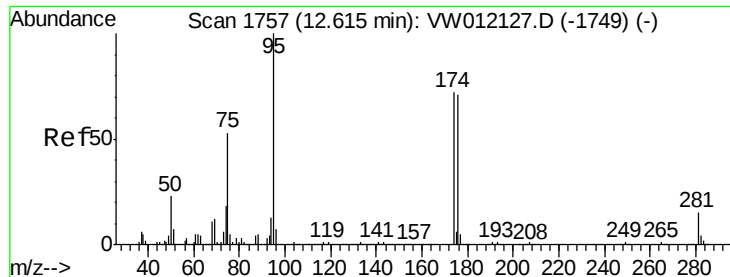
Tgt Ion: 43 Resp: 1922

Ion Ratio Lower Upper

43 100

58 45.4 24.3 72.9





#62

4-Bromofluorobenzene

Concen: 47.398 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

Instrument :

MSVOA_W

ClientSampleId :

PX-10

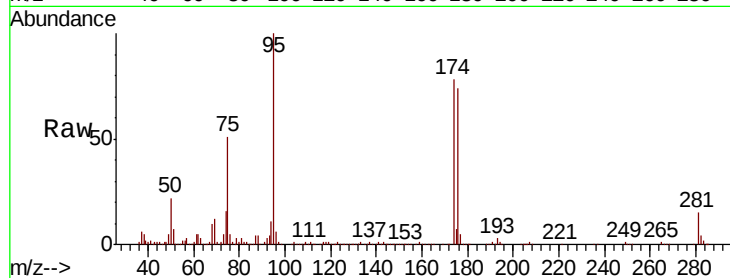
Tgt Ion: 95 Resp: 163004

Ion Ratio Lower Upper

95 100

174 75.4 0.0 150.8

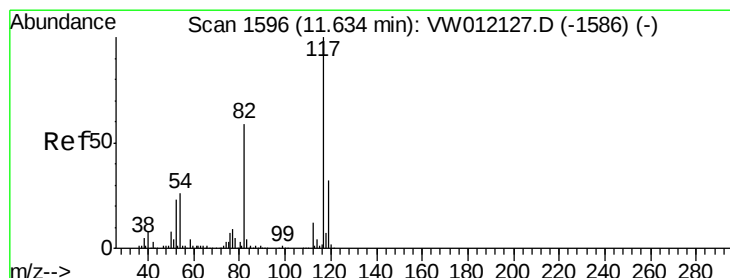
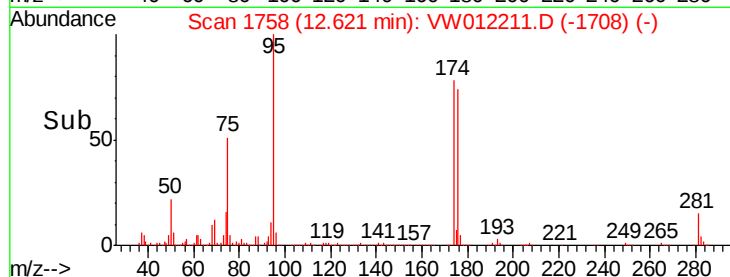
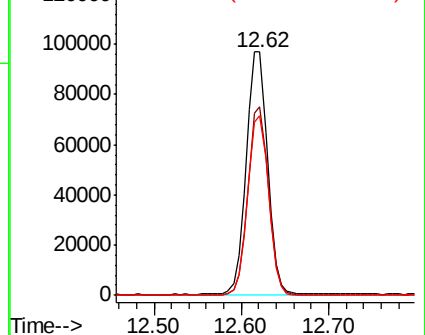
176 72.5 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW012211.D

Acq: 27 Aug 2019 14:44

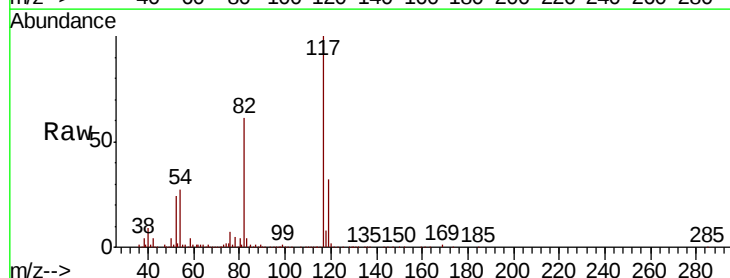
Tgt Ion: 117 Resp: 336768

Ion Ratio Lower Upper

117 100

82 61.0 47.4 71.2

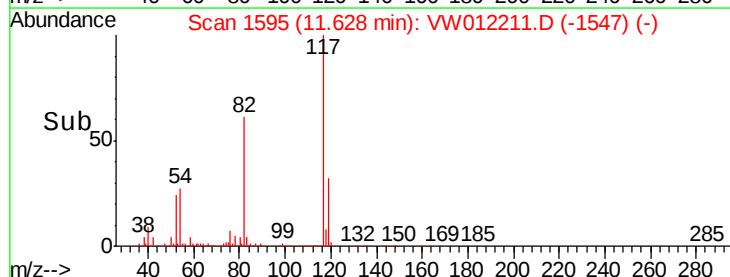
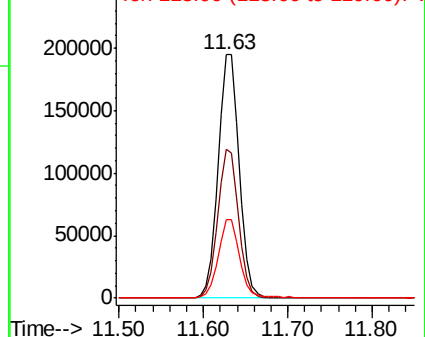
119 32.1 25.4 38.2

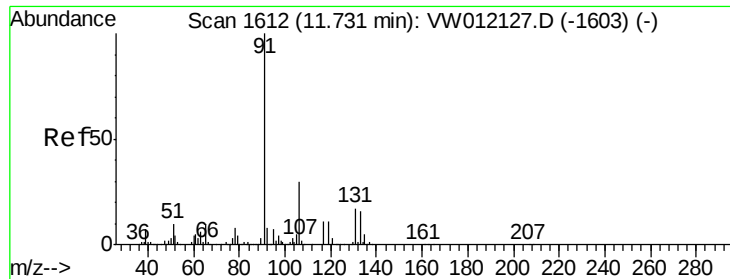


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

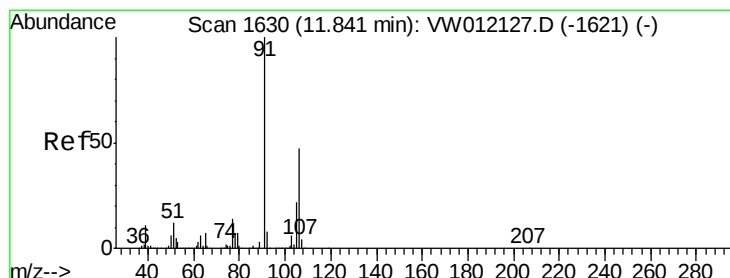
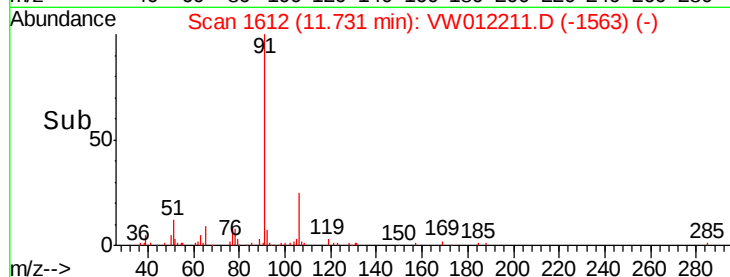
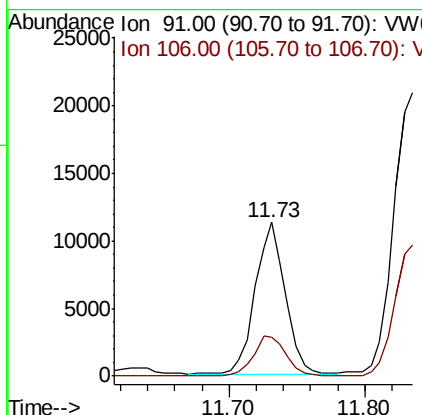
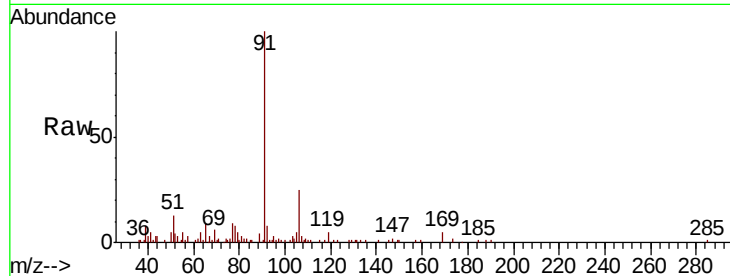




#67
Ethyl Benzene
Concen: 1.364 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW012211.D
Acq: 27 Aug 2019 14:44

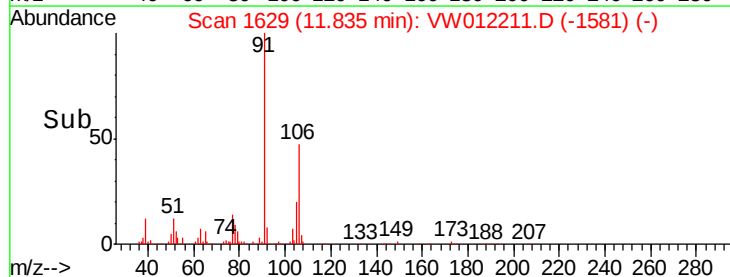
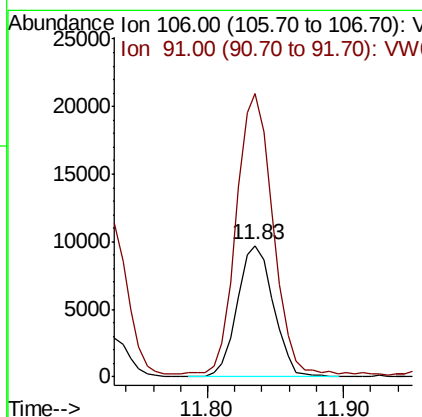
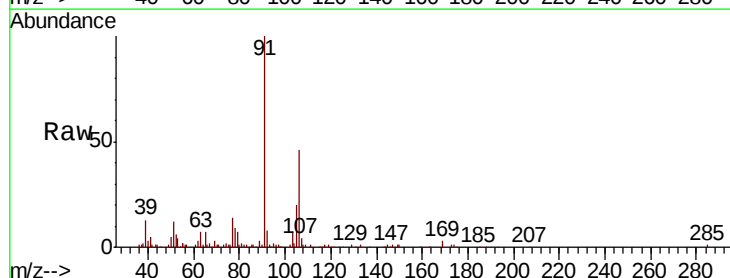
Instrument :
MSVOA_W
ClientSampled :
PX-10

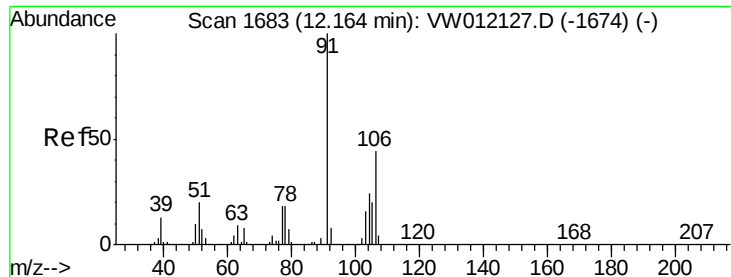
Tgt Ion: 91 Resp: 17426
Ion Ratio Lower Upper
91 100
106 25.9 24.3 36.5



#68
m/p-Xylenes
Concen: 3.931 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW012211.D
Acq: 27 Aug 2019 14:44

Tgt Ion: 106 Resp: 18090
Ion Ratio Lower Upper
106 100
91 215.9 169.5 254.3

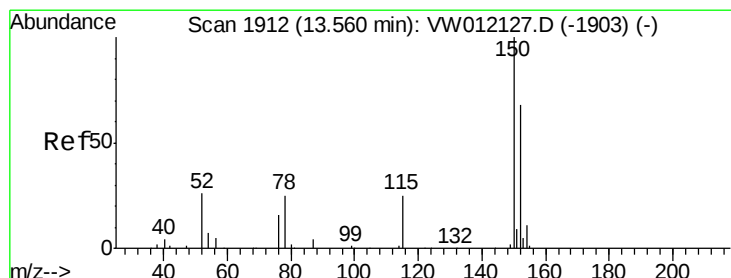
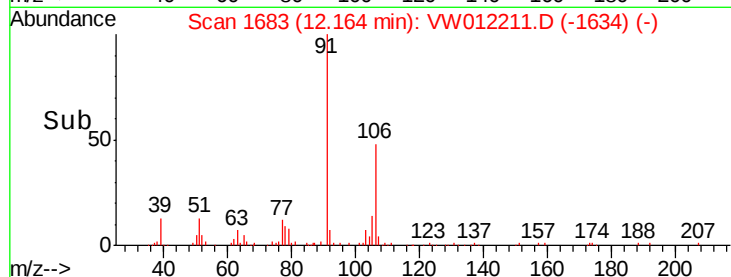
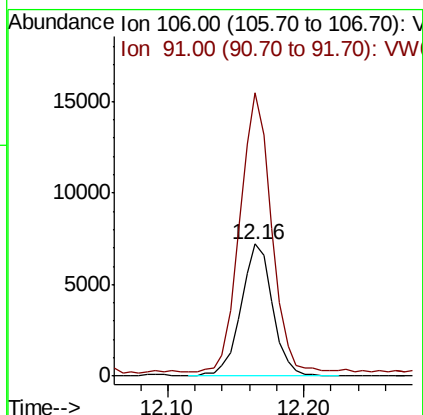
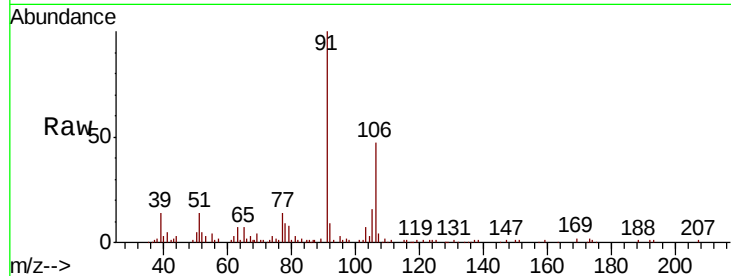




#69
o-Xylene
Concen: 2.752 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW012211.D
Acq: 27 Aug 2019 14:44

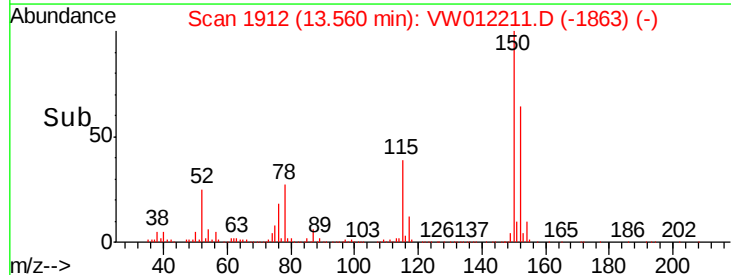
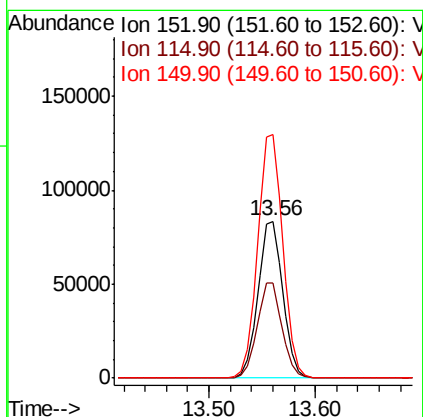
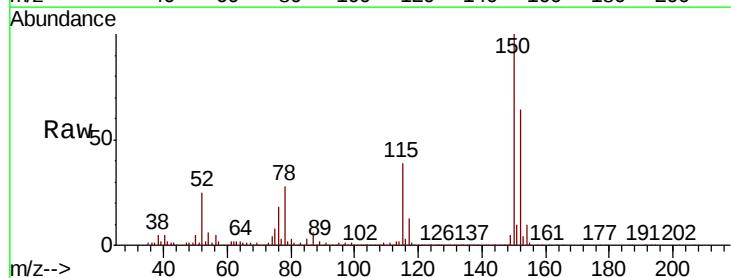
Instrument :
MSVOA_W
ClientSampleId :
PX-10

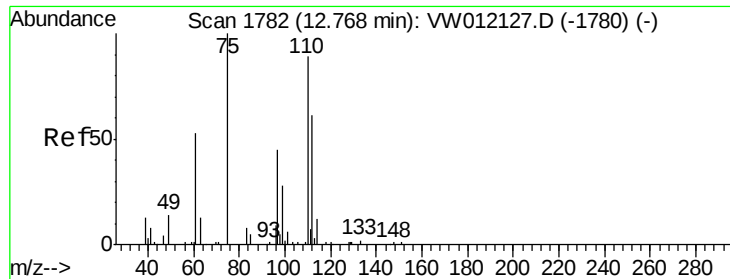
Tgt Ion:106 Resp: 11722
Ion Ratio Lower Upper
106 100
91 209.2 111.6 334.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012211.D
Acq: 27 Aug 2019 14:44

Tgt Ion:152 Resp: 136448
Ion Ratio Lower Upper
152 100
115 59.8 30.1 90.3
150 157.0 0.0 345.8

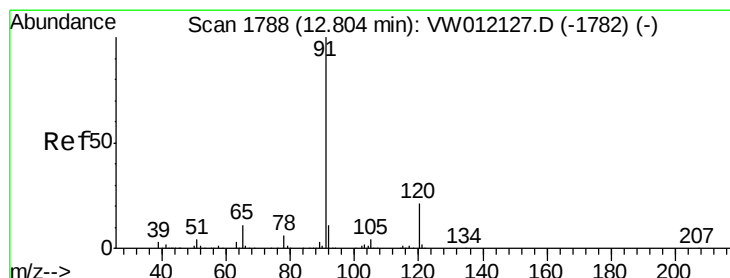
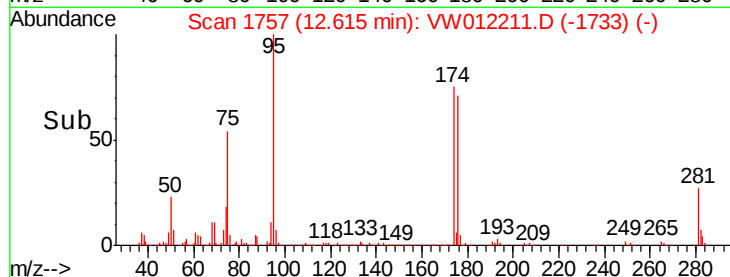
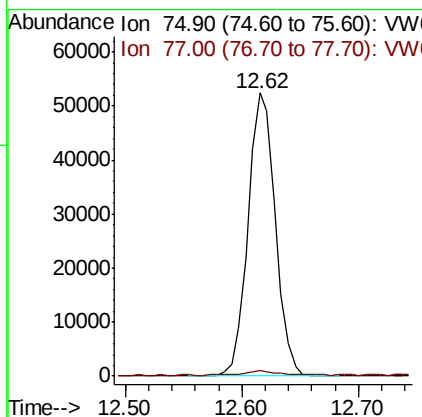
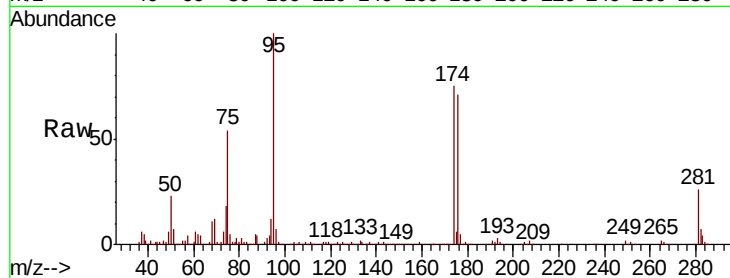




#76
 1,2,3-Trichloropropane
 Concen: 64.340 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW012211.D
 Acq: 27 Aug 2019 14:44

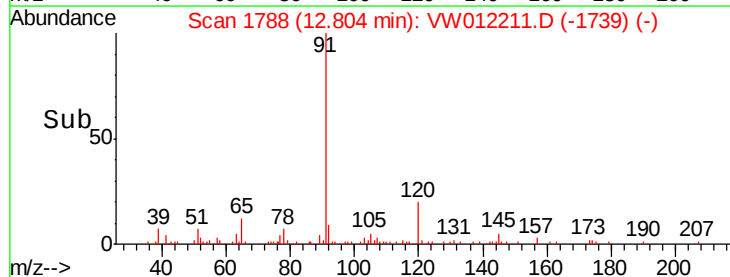
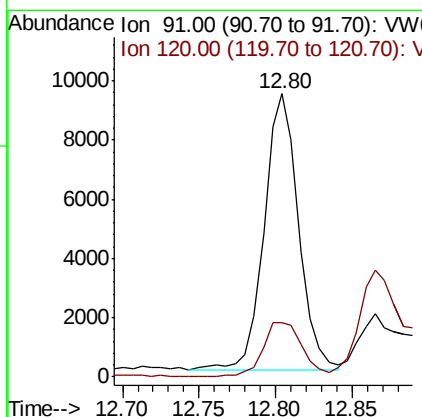
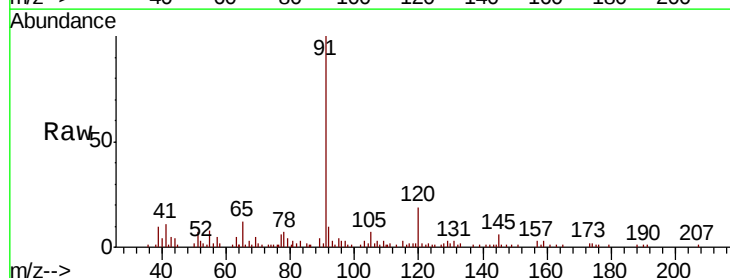
Instrument :
 MSVOA_W
 ClientSampleId :
 PX-10

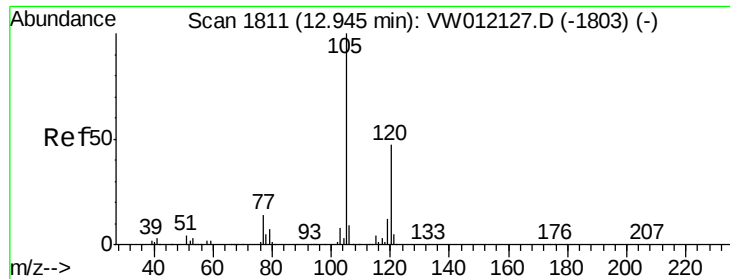
Tgt Ion: 75 Resp: 85502
 Ion Ratio Lower Upper
 75 100
 77 2.4 0.0 0.0#



#78
 n-propylbenzene
 Concen: 1.172 ug/l
 RT: 12.80 min Scan# 1788
 Delta R.T. -0.00 min
 Lab File: VW012211.D
 Acq: 27 Aug 2019 14:44

Tgt Ion: 91 Resp: 14630
 Ion Ratio Lower Upper
 91 100
 120 22.7 10.5 31.6

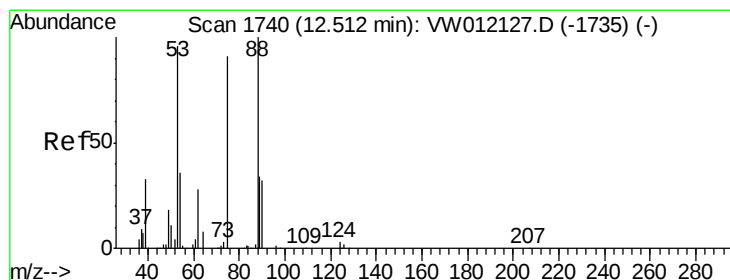
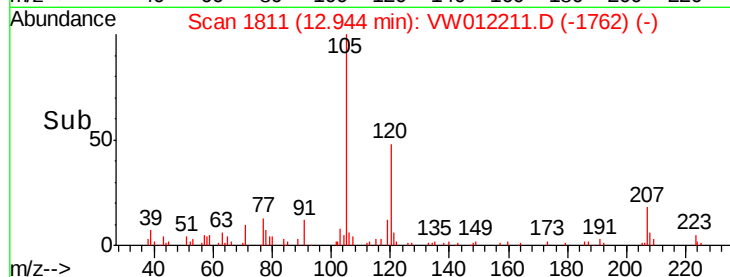
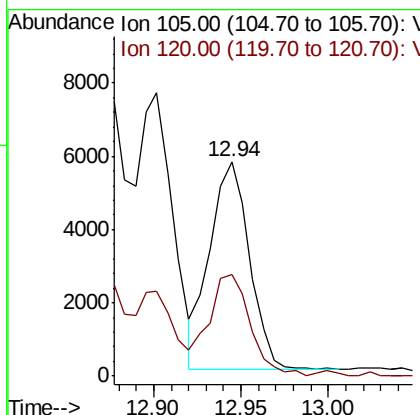
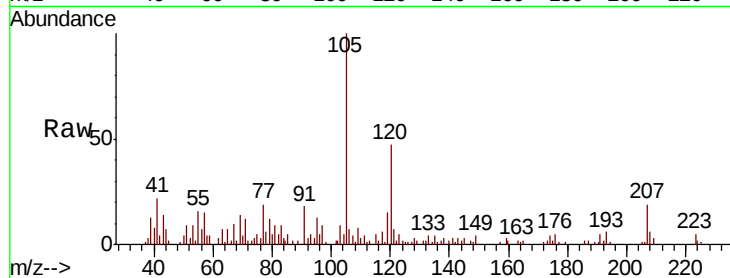




#80
 1,3,5-Trimethylbenzene
 Concen: 1.045 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW012211.D
 Acq: 27 Aug 2019 14:44

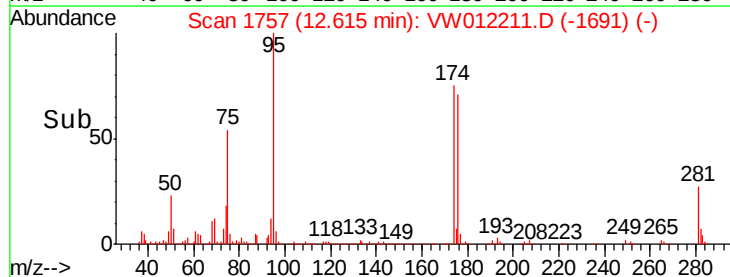
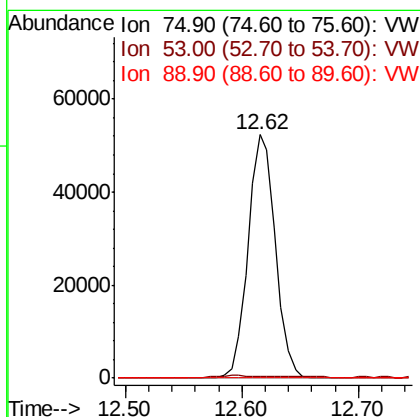
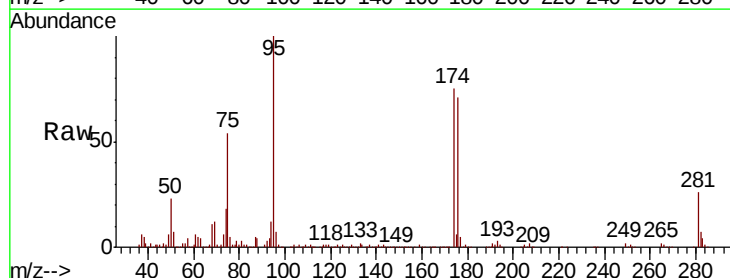
Instrument :
 MSVOA_W
 ClientSampleId :
 PX-10

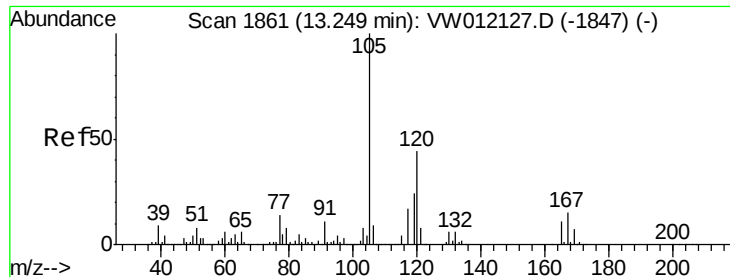
Tgt Ion: 105 Resp: 8925
 Ion Ratio Lower Upper
 105 100
 120 51.2 24.0 72.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 141.068 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW012211.D
 Acq: 27 Aug 2019 14:44

Tgt Ion: 75 Resp: 85502
 Ion Ratio Lower Upper
 75 100
 53 0.0 89.4 134.0#
 89 0.1 34.5 51.7#

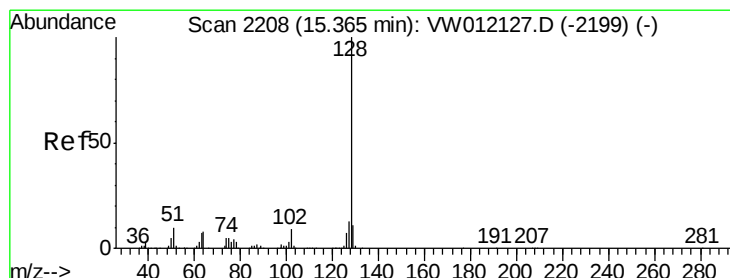
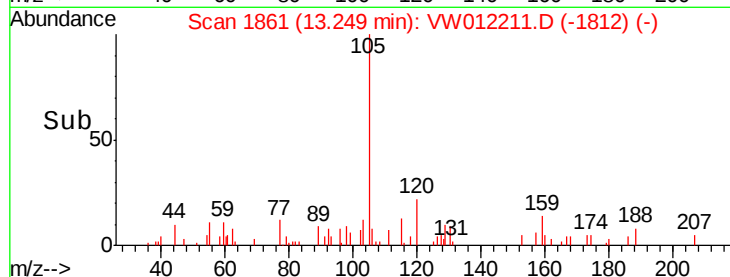
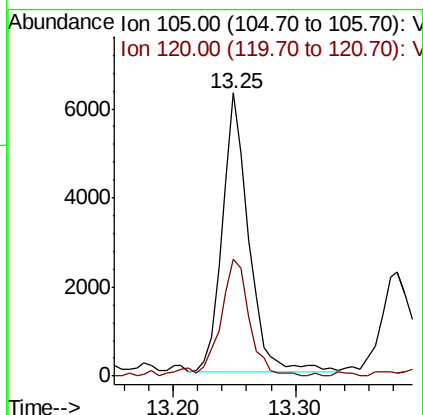
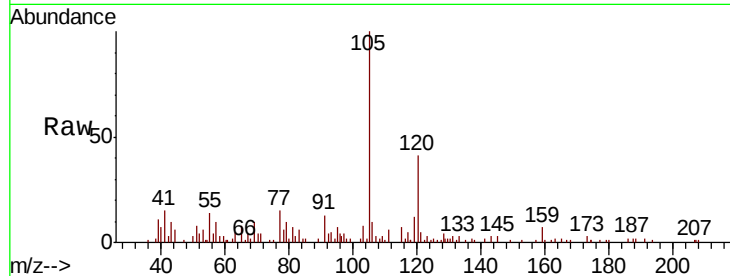




#84
 1,2,4-Trimethylbenzene
 Concen: 1.085 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: VW012211.D
 Acq: 27 Aug 2019 14:44

Instrument :
 MSVOA_W
 ClientSampled :
 PX-10

Tgt Ion:105 Resp: 9310
 Ion Ratio Lower Upper
 105 100
 120 47.1 21.9 65.7



#95
 Naphthalene
 Concen: 4.992 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.01 min
 Lab File: VW012211.D
 Acq: 27 Aug 2019 14:44

Tgt Ion:128 Resp: 3781
 Ion Ratio Lower Upper
 128 100
 127 25.7 10.7 16.1#
 129 18.2 8.7 13.1#

