

Data File : VW012833.D
Acq On : 09 Sep 2019 20:16
Operator : SY/VA
Sample : K4655-06
Misc : 6.37G/5ML/MSVOA_W/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-15-D2

Quant Time: Sep 10 07:03:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
Quant Title : SW846 8260
QLast Update : Sun Sep 08 05:04:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	222290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	336018	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	257846	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	93306	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	108515	43.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.38%	
35) Dibromofluoromethane	7.88	113	94999	47.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.10%	
50) Toluene-d8	10.32	98	386214	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	
62) 4-Bromofluorobenzene	12.62	95	110873	39.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.04%	

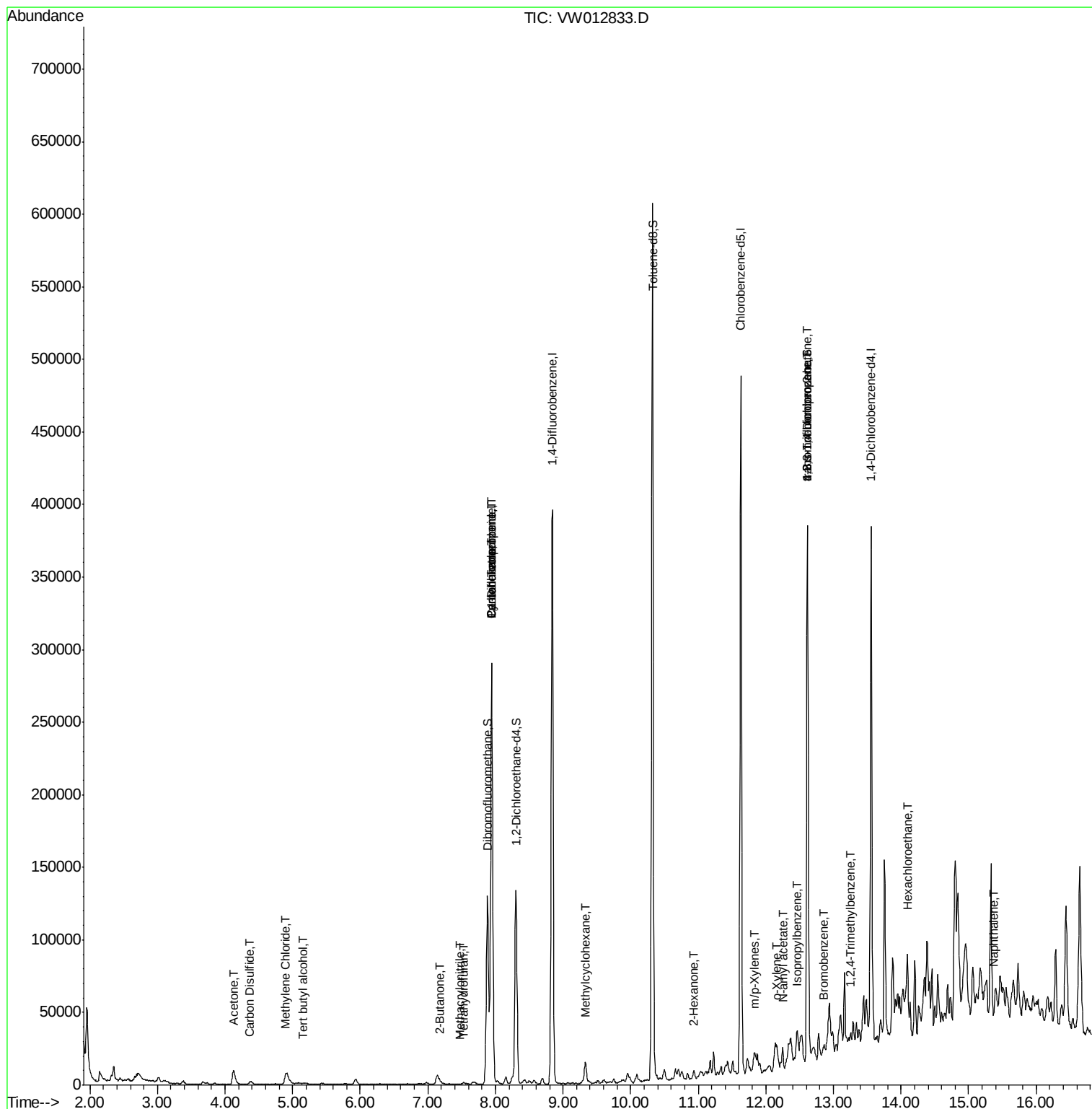
Target Compounds				Qvalue		
11) Tert butyl alcohol	5.15	59	485	2.552	ug/l #	72
16) Acetone	4.13	43	19288	28.486	ug/l	93
17) Carbon Disulfide	4.37	76	4490	1.152	ug/l	100
20) Methylene Chloride	4.90	84	2846	1.343	ug/l	86
25) 2-Butanone	7.18	43	3596	23.003	ug/l	93
29) Tetrahydrofuran	7.53	42	818	1.496	ug/l #	74
31) Cyclohexane	7.95	56	6231	1.707	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	16737	5.606	ug/l #	52
38) Carbon Tetrachloride	7.95	117	21498	7.305	ug/l #	18
39) Methylcyclohexane	9.34	83	5357	1.598	ug/l	89
41) Methacrylonitrile	7.48	41	63	3.884	ug/l #	57
59) 2-Hexanone	10.94	43	2568	1.858	ug/l #	29
68) m/p-Xylenes	11.84	106	3737	1.132	ug/l	94
69) o-Xylene	12.16	106	3655	1.174	ug/l	100
73) Isopropylbenzene	12.46	105	12070	1.804	ug/l	97
74) N-amyl acetate	12.25	43	4153	1.955	ug/l #	75
76) 1,2,3-Trichloropropane	12.62	75	57525	60.293	ug/l #	100
77) Bromobenzene	12.87	156	2128	1.404	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	57525	127.523	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.25	105	6174	1.087	ug/l	98
90) Hexachloroethane	14.10	117	2386	2.163	ug/l #	7
95) Naphthalene	15.37	128	1365	4.757	ug/l #	72

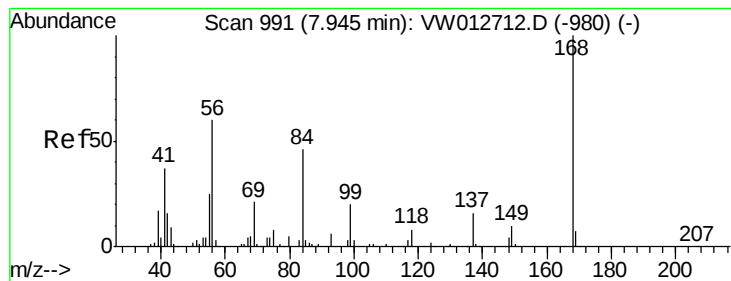
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW012833.D

Acq: 09 Sep 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

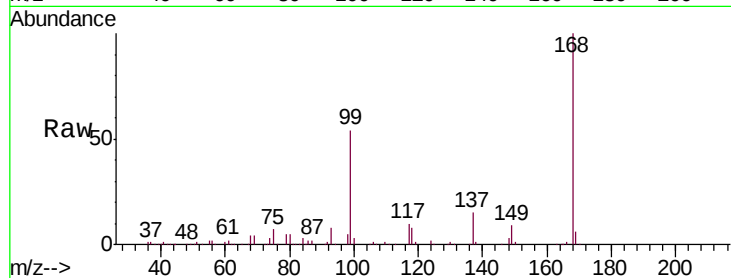
TP-15-D2

Tgt Ion:168 Resp: 222290

Ion Ratio Lower Upper

168 100

99 53.8 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

120000

100000

80000

60000

40000

20000

0

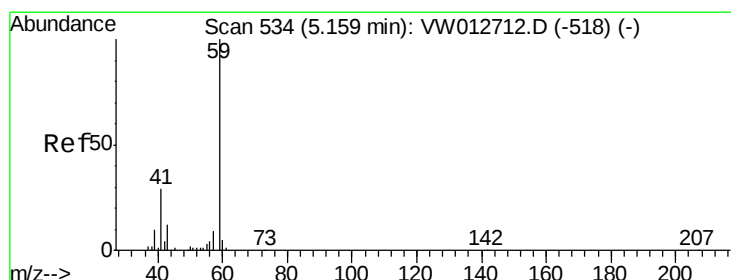
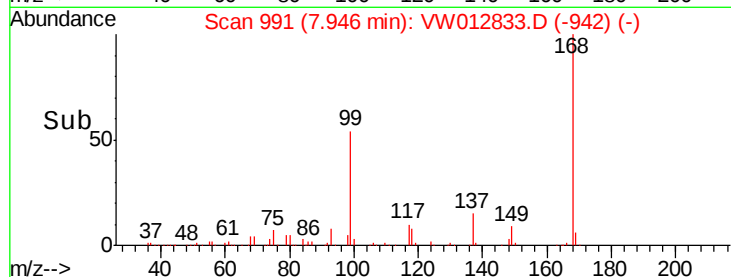
7.80

7.90

8.00

8.10

Time-->



#11

Tert butyl alcohol

Concen: 2.552 ug/l

RT: 5.15 min Scan# 532

Delta R.T. -0.01 min

Lab File: VW012833.D

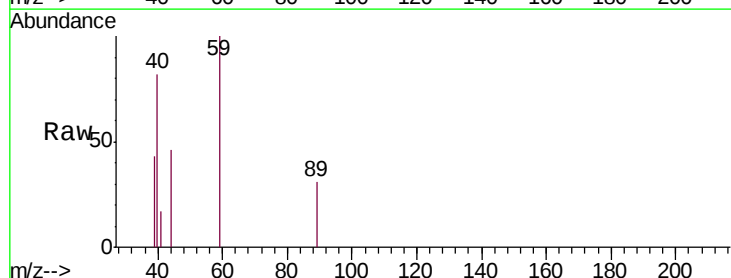
Acq: 09 Sep 2019 20:16

Tgt Ion: 59 Resp: 485

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

600

500

400

300

200

100

0

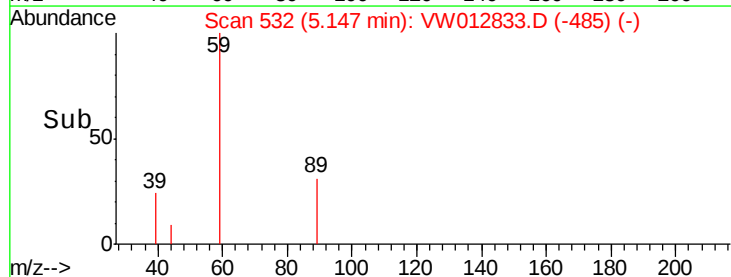
5.12

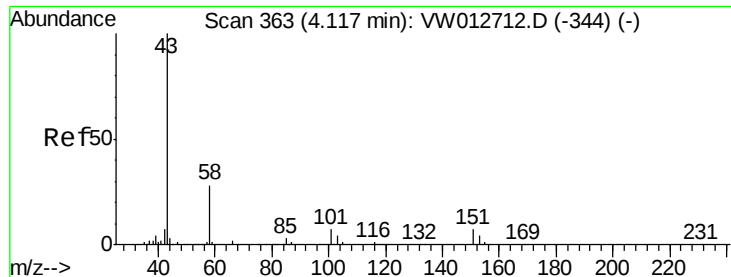
5.14

5.16

5.18

Time-->





#16

Acetone

Concen: 28.486 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012833.D

Acq: 09 Sep 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

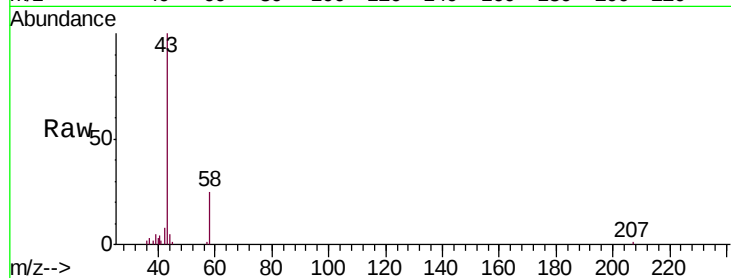
TP-15-D2

Tgt Ion: 43 Resp: 19288

Ion Ratio Lower Upper

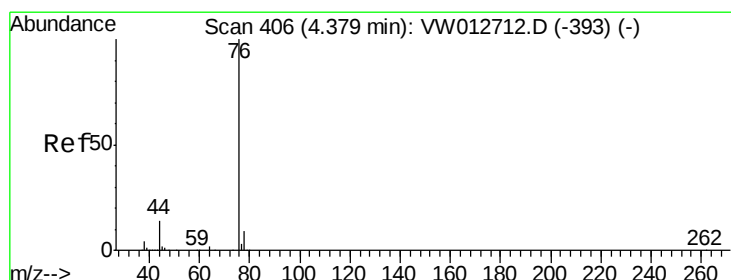
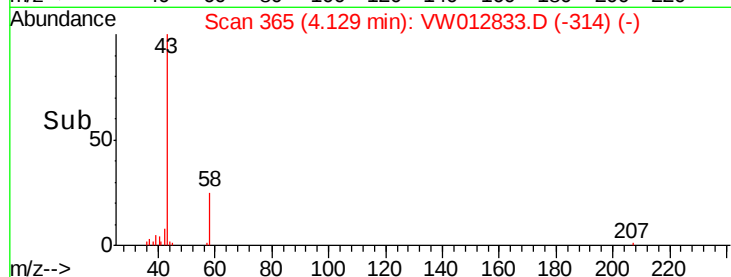
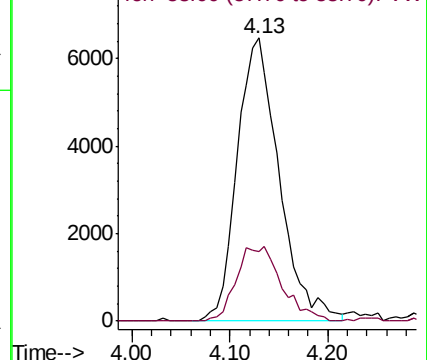
43 100

58 24.7 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 1.152 ug/l

RT: 4.37 min Scan# 404

Delta R.T. -0.01 min

Lab File: VW012833.D

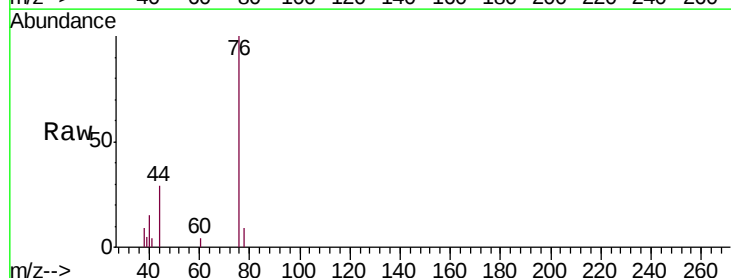
Acq: 09 Sep 2019 20:16

Tgt Ion: 76 Resp: 4490

Ion Ratio Lower Upper

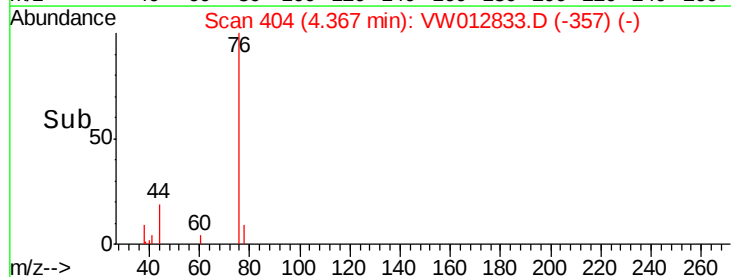
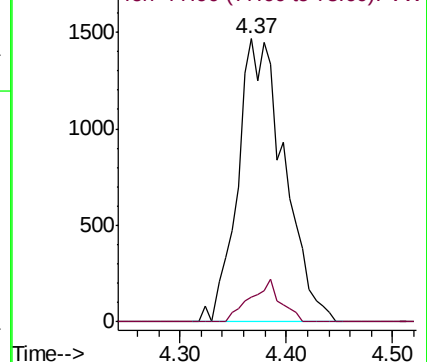
76 100

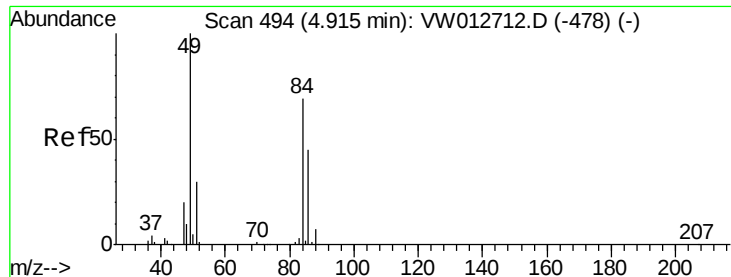
78 8.9 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW





#20

Methylene Chloride

Concen: 1.343 ug/l

RT: 4.90 min Scan# 491

Delta R.T. -0.02 min

Lab File: VW012833.D

Acq: 09 Sep 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

TP-15-D2

Tgt Ion: 84 Resp: 2846

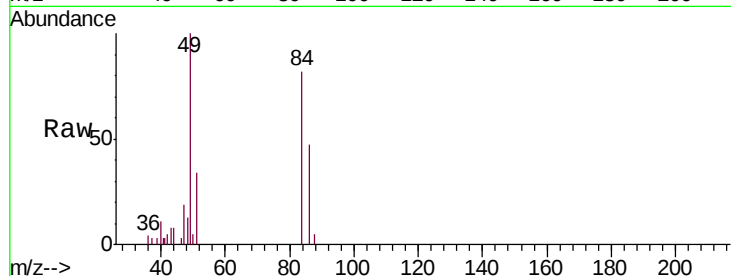
Ion Ratio Lower Upper

84 100

49 121.5 115.4 173.0

51 41.5 34.9 52.3

86 56.9 52.2 78.4

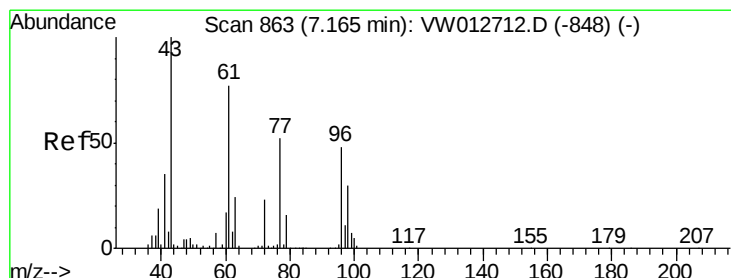
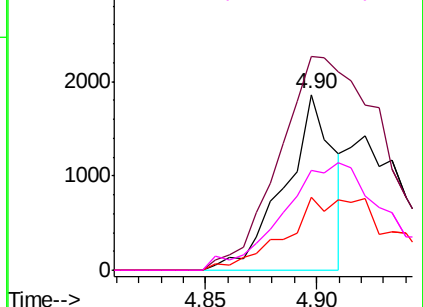
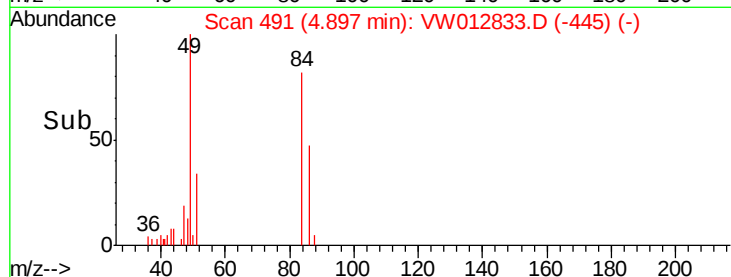


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 23.003 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012833.D

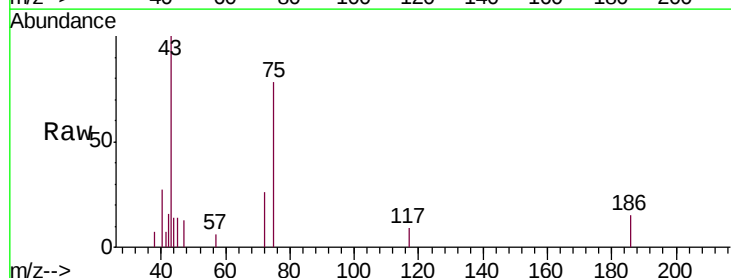
Acq: 09 Sep 2019 20:16

Tgt Ion: 43 Resp: 3596

Ion Ratio Lower Upper

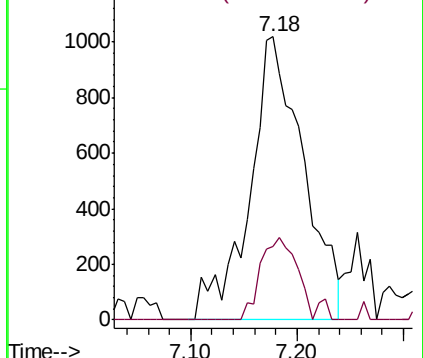
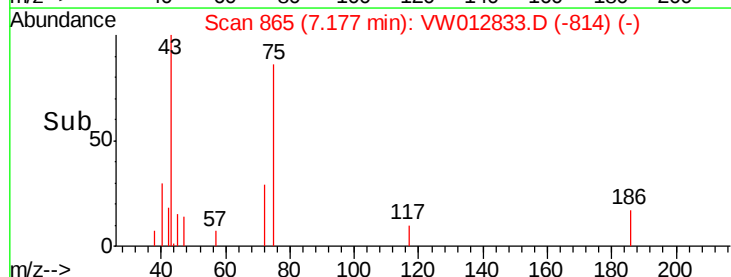
43 100

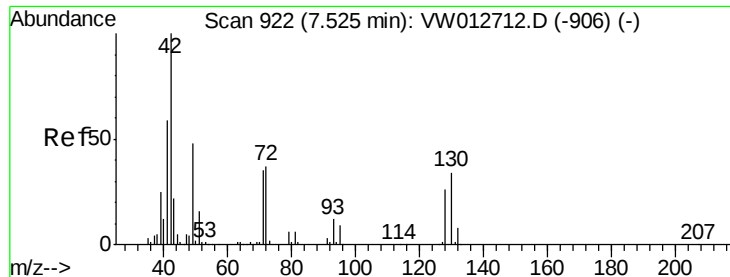
72 25.9 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

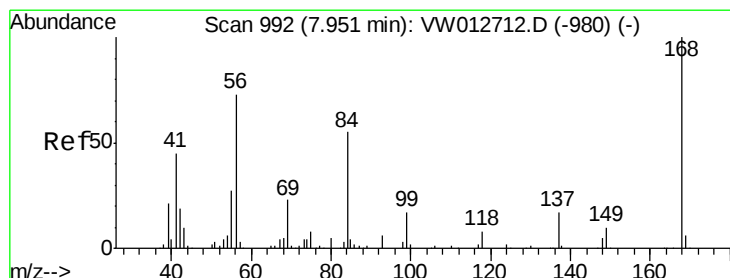
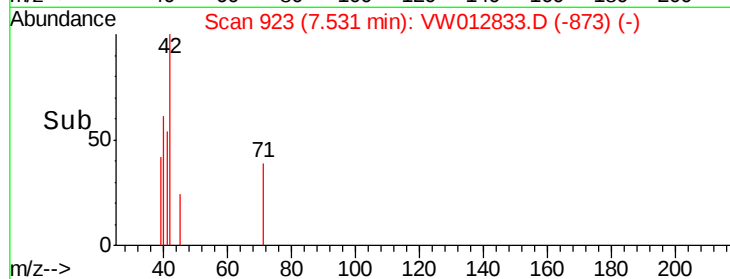
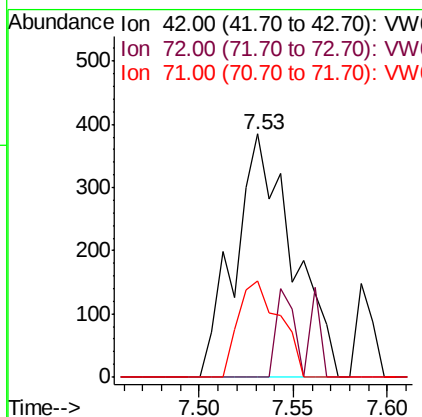
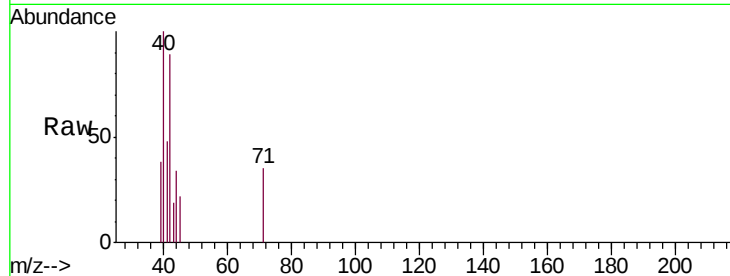




#29
Tetrahydrofuran
Concen: 1.496 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

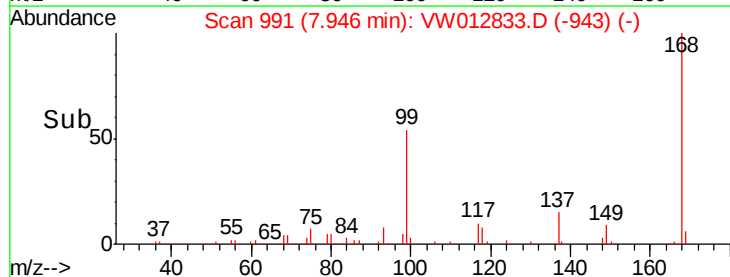
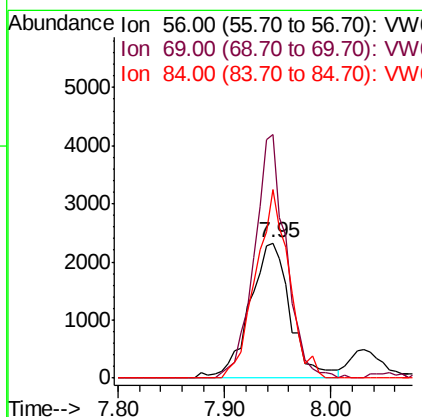
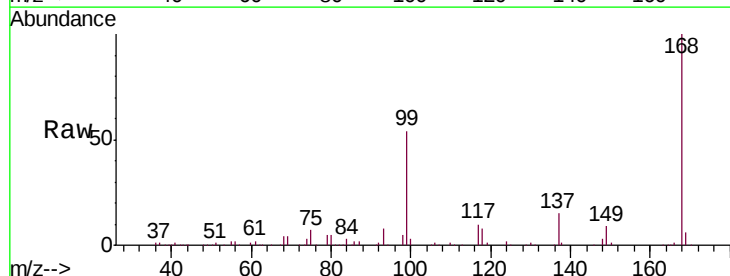
Instrument :
MSVOA_W
ClientSampled :
TP-15-D2

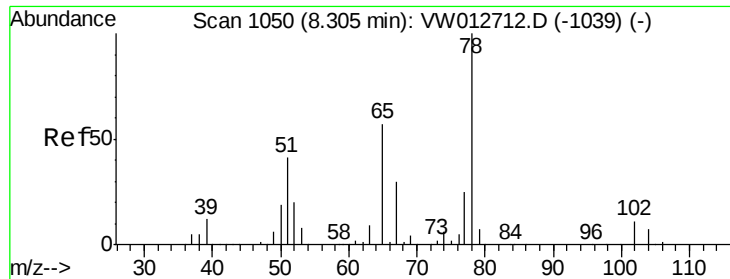
Tgt Ion: 42 Resp: 818
Ion Ratio Lower Upper
42 100
72 11.0 28.4 42.6#
71 28.4 27.1 40.7



#31
Cyclohexane
Concen: 1.707 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

Tgt Ion: 56 Resp: 6231
Ion Ratio Lower Upper
56 100
69 180.3 25.7 38.5#
84 139.3 60.4 90.6#

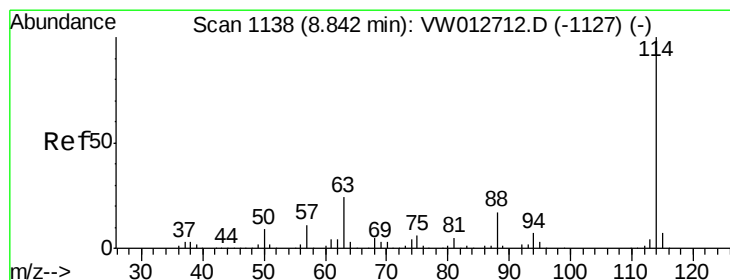
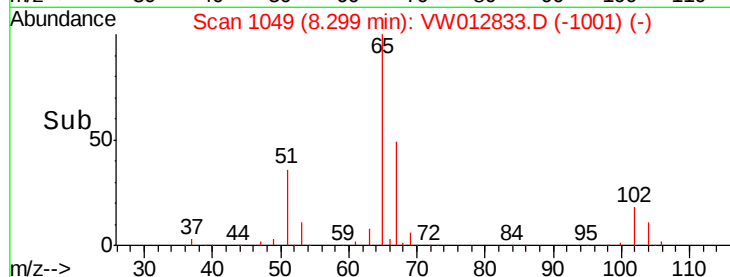
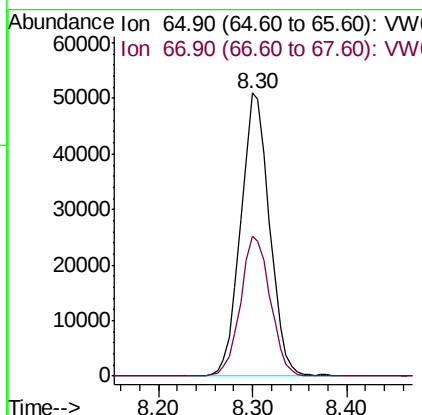
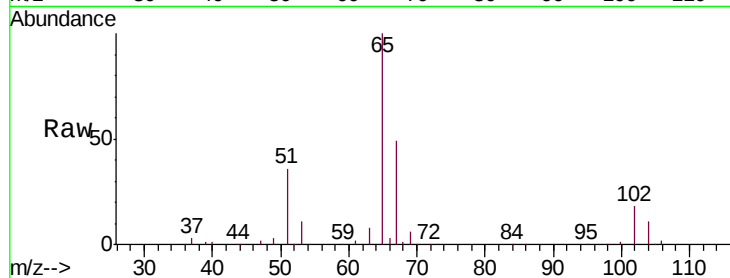




#33
 1,2-Dichloroethane-d4
 Concen: 43.691 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW012833.D
 Acq: 09 Sep 2019 20:16

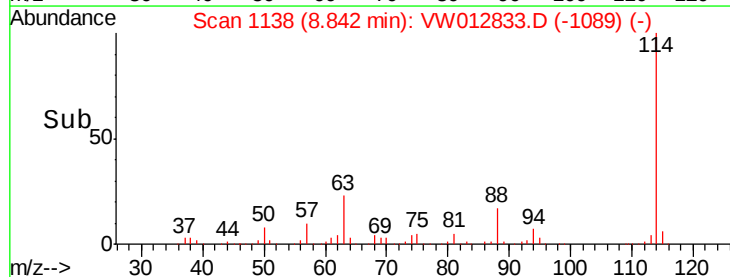
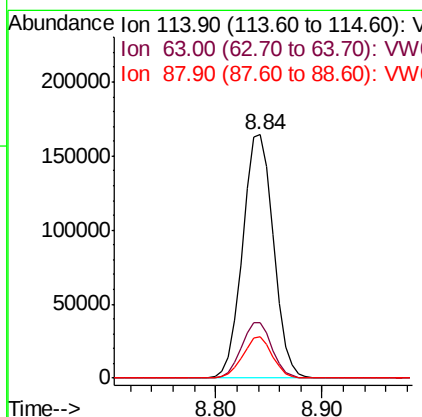
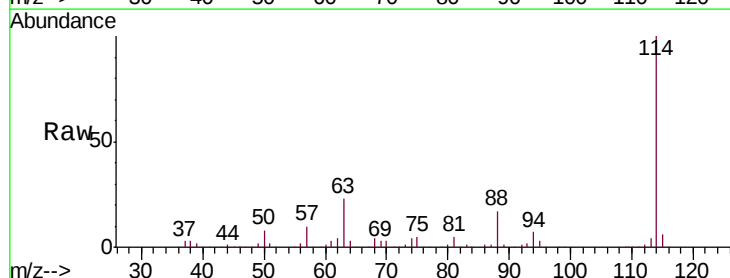
Instrument :
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 TP-15-D2

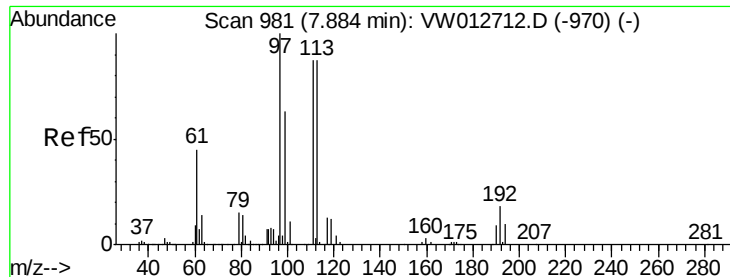
Tgt Ion: 65 Resp: 108515
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW012833.D
 Acq: 09 Sep 2019 20:16

Tgt Ion: 114 Resp: 336018
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 47.2
 88 17.0 0.0 34.0

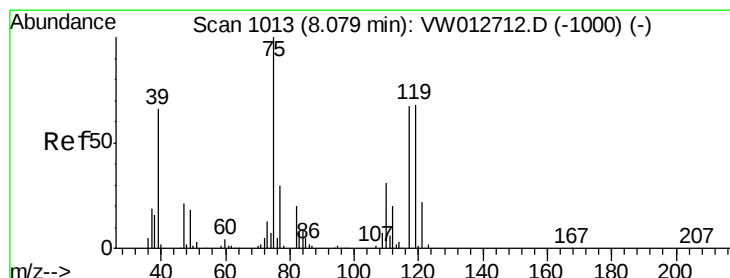
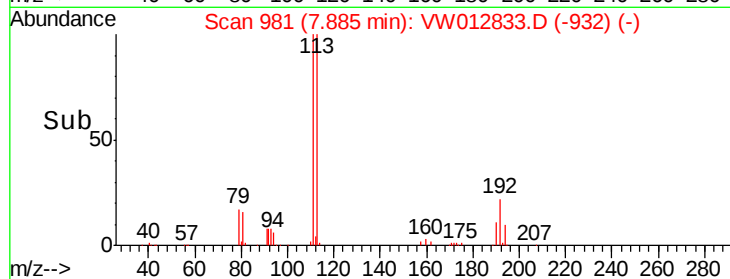
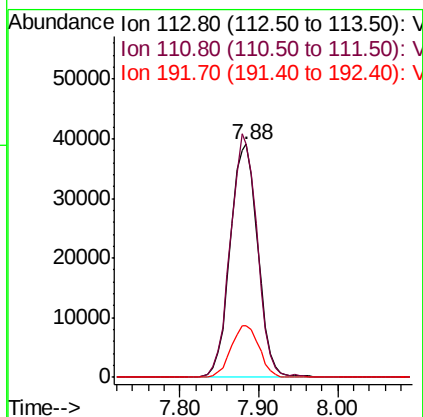
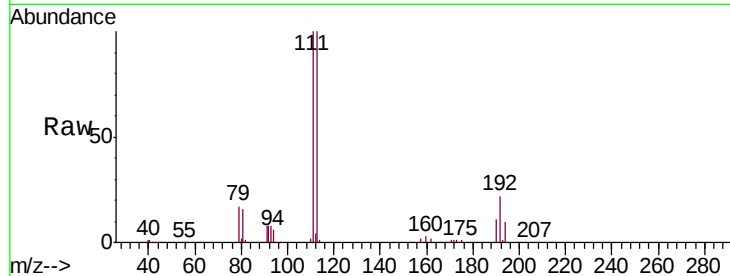




#35
 Dibromofluoromethane
 Concen: 47.554 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW012833.D
 Acq: 09 Sep 2019 20:16

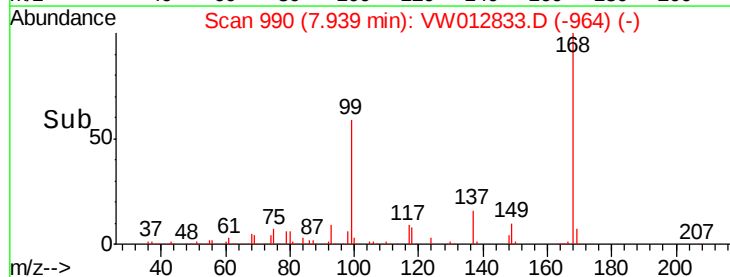
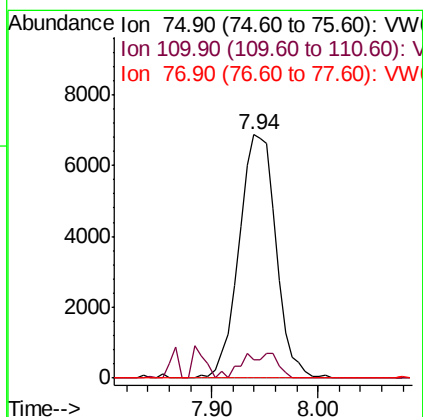
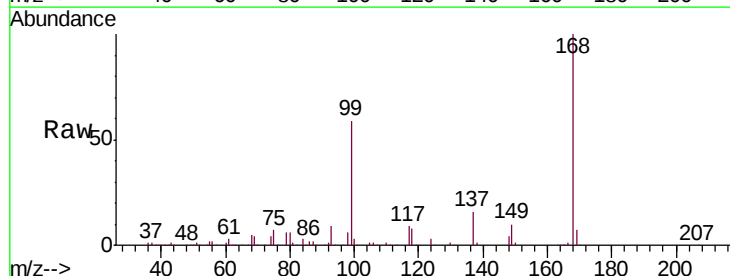
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-15-D2

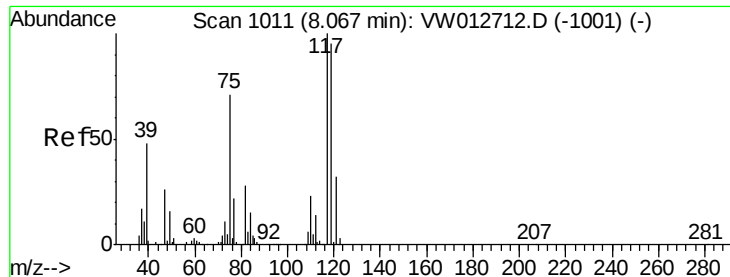
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	80.2	120.4
192	22.6	17.3	25.9



#36
 1,1-Dichloropropene
 Concen: 5.606 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW012833.D
 Acq: 09 Sep 2019 20:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	15.9	47.7#
77	0.0	25.0	37.4#

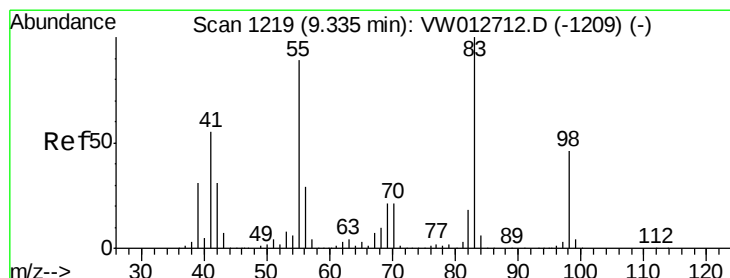
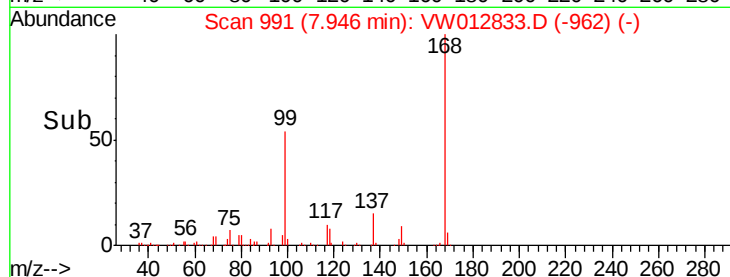
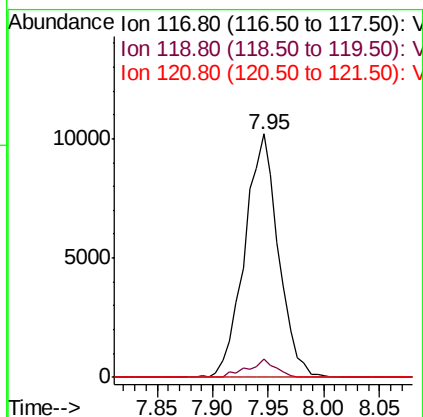
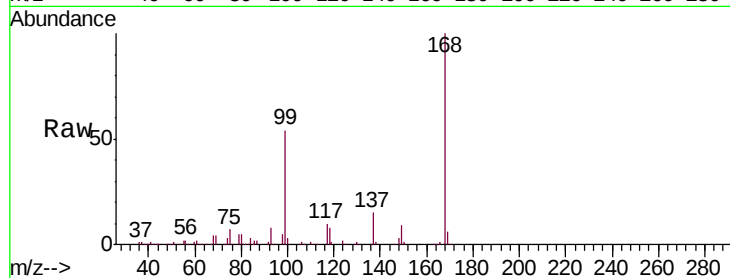




#38
Carbon Tetrachloride
Concen: 7.305 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

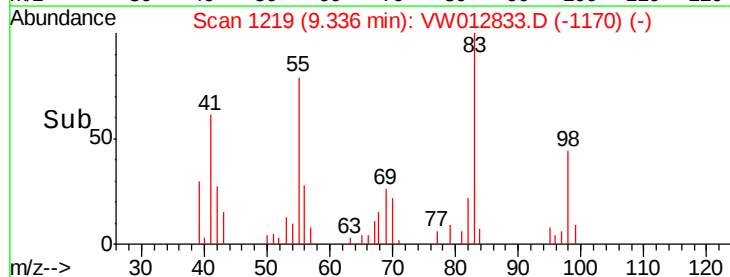
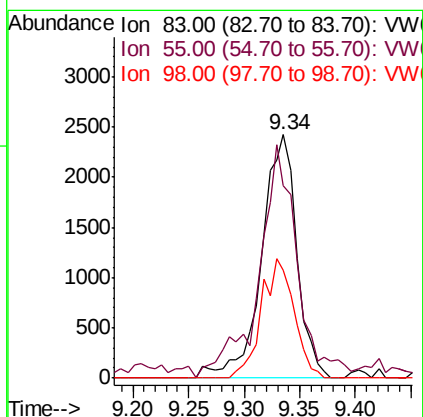
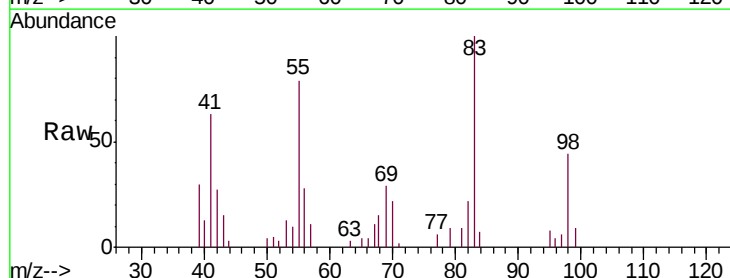
Instrument :
MSVOA_W
ClientSampled :
TP-15-D2

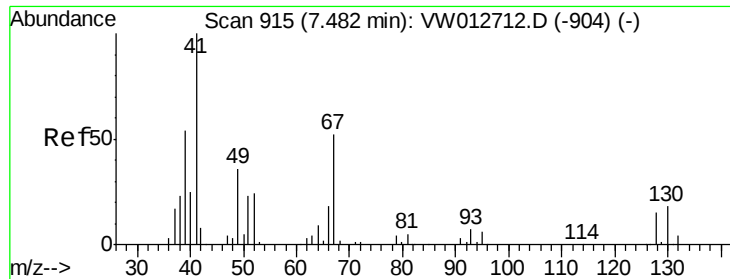
Tgt Ion:117 Resp: 21498
Ion Ratio Lower Upper
117 100
119 7.3 76.2 114.2#
121 0.0 25.4 38.2#



#39
Methylcyclohexane
Concen: 1.598 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

Tgt Ion: 83 Resp: 5357
Ion Ratio Lower Upper
83 100
55 74.4 71.0 106.4
98 44.3 36.9 55.3

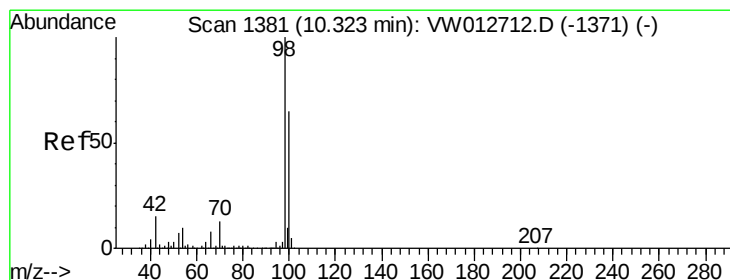
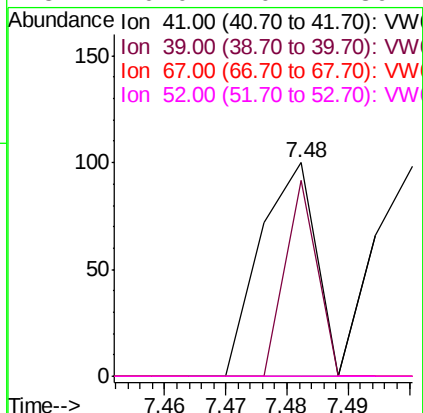
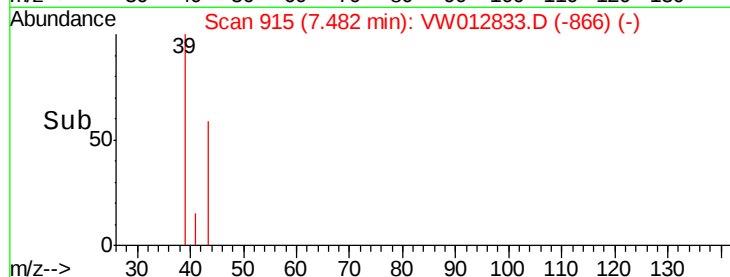
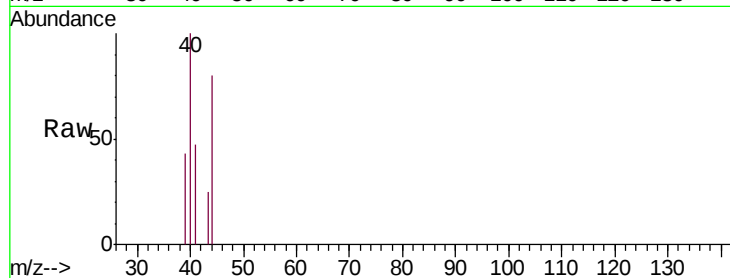




#41
Methacrylonitrile
Concen: 3.884 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

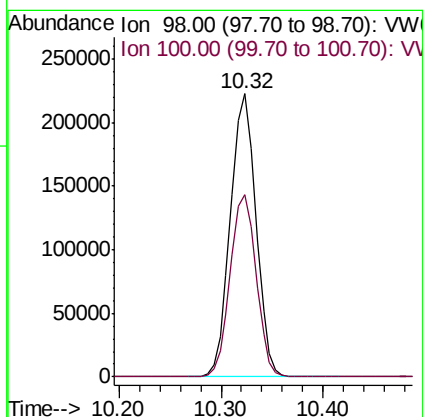
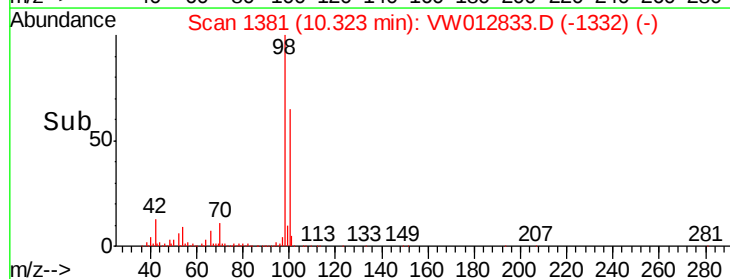
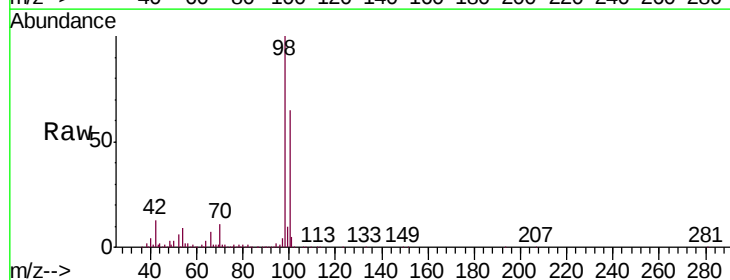
Instrument :
MSVOA_W
ClientSampled :
TP-15-D2

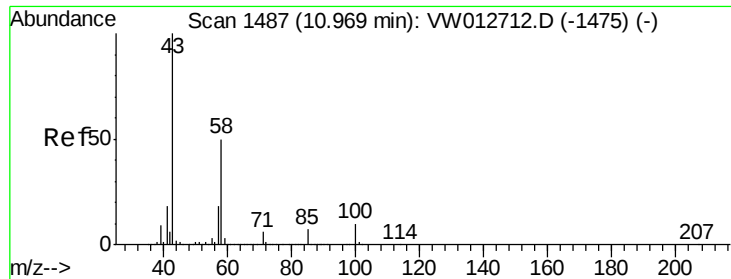
Tgt Ion: 41 Resp: 63
Ion Ratio Lower Upper
41 100
39 54.0 47.5 71.3
67 0.0 45.1 67.7#
52 0.0 20.2 30.2#



#50
Toluene-d8
Concen: 49.346 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

Tgt Ion: 98 Resp: 386214
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.4

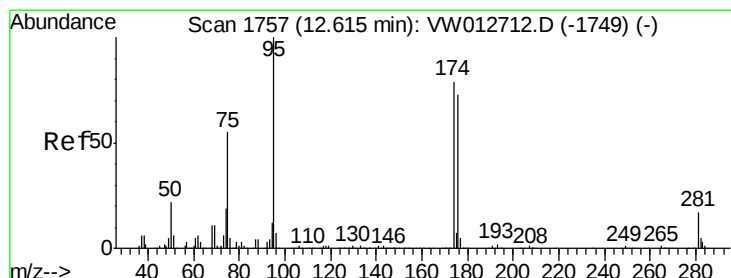
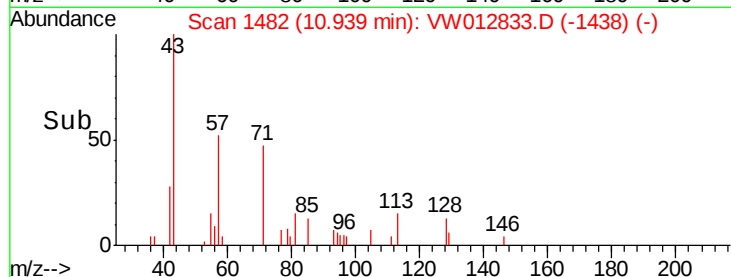
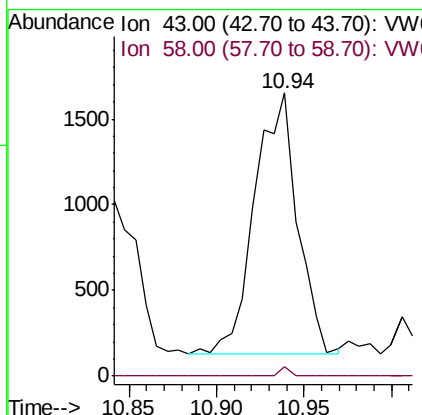
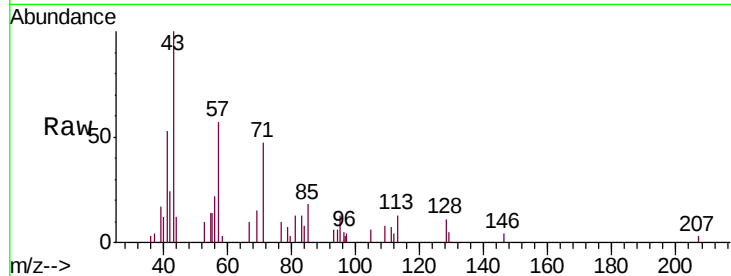




#59
2-Hexanone
Concen: 1.858 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.03 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

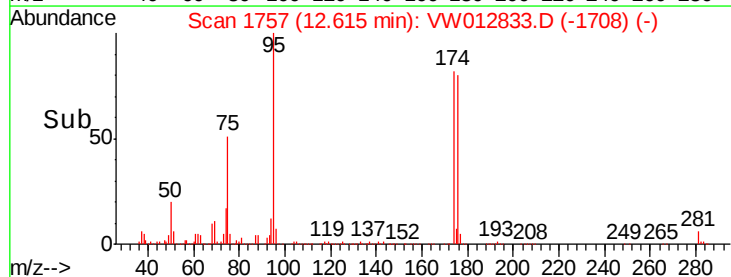
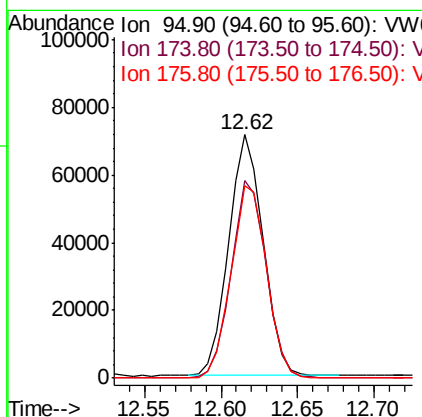
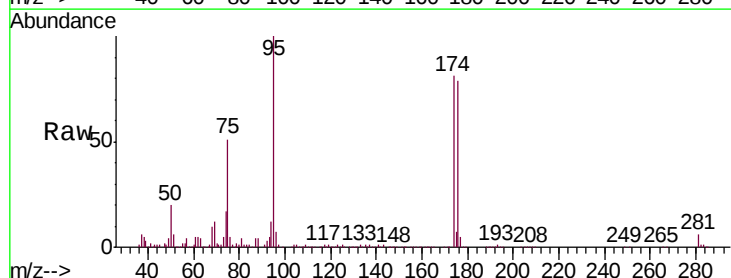
Instrument :
MSVOA_W
ClientSampled :
TP-15-D2

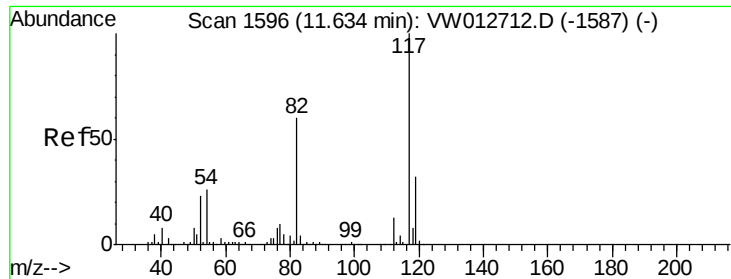
Tgt Ion: 43 Resp: 2568
Ion Ratio Lower Upper
43 100
58 0.7 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 39.022 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

Tgt Ion: 95 Resp: 110873
Ion Ratio Lower Upper
95 100
174 83.5 0.0 161.0
176 82.6 0.0 156.4

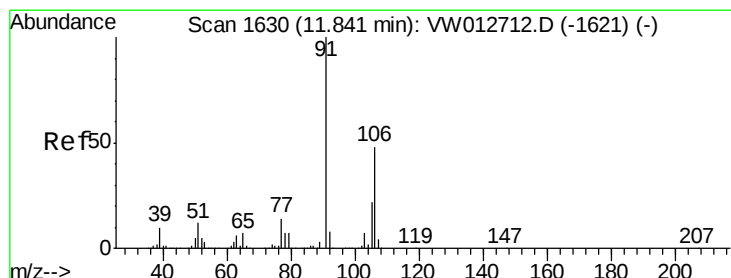
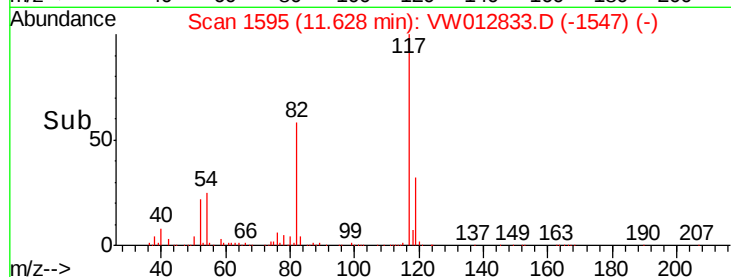
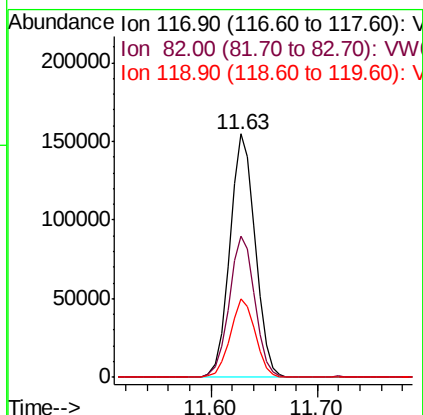
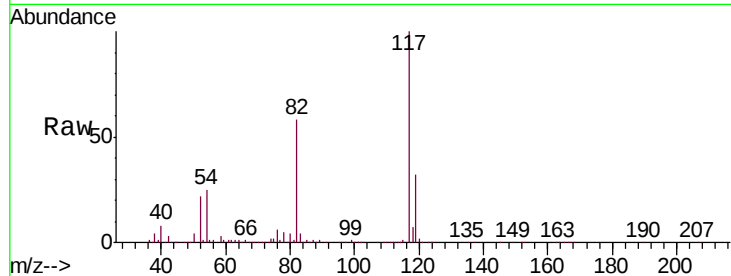




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

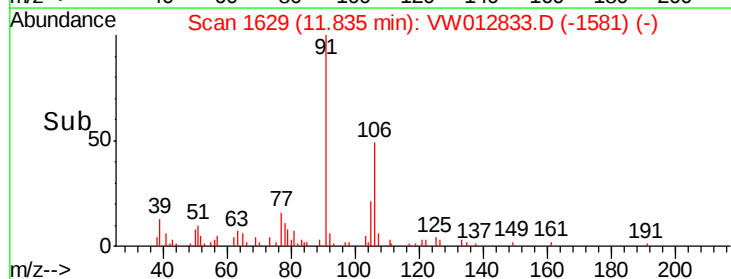
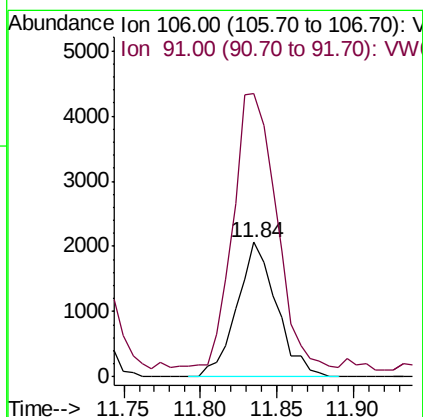
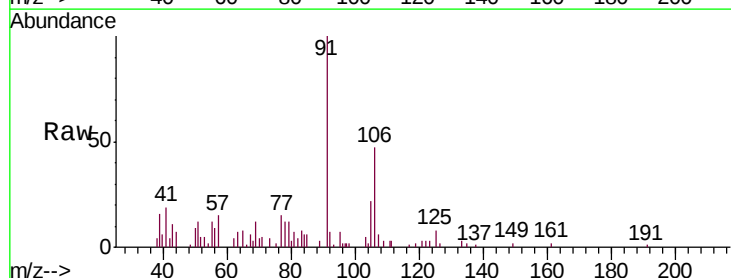
Instrument :
MSVOA_W
ClientSampleId :
TP-15-D2

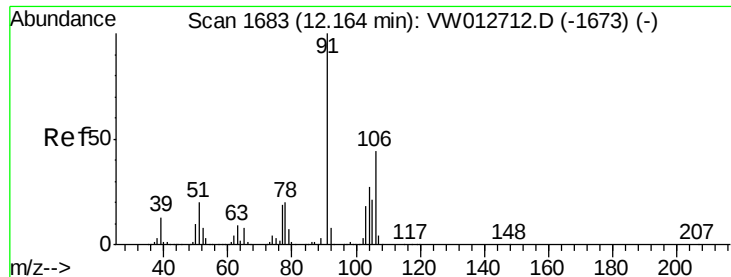
Tgt Ion:117 Resp: 257846
Ion Ratio Lower Upper
117 100
82 58.2 48.2 72.4
119 32.2 25.8 38.6



#68
m/p-Xylenes
Concen: 1.132 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

Tgt Ion:106 Resp: 3737
Ion Ratio Lower Upper
106 100
91 219.3 168.2 252.4





#69

o-Xylene

Concen: 1.174 ug/l

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW012833.D

Acq: 09 Sep 2019 20:16

Instrument :

MSVOA_W

ClientSampled :

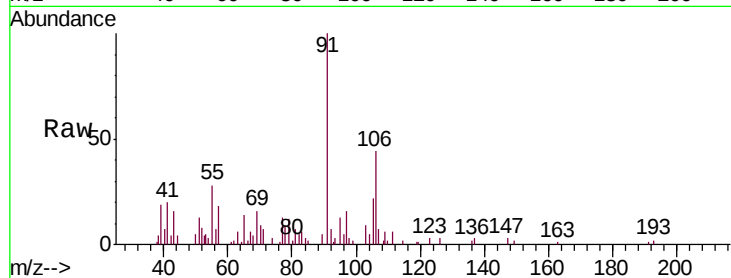
TP-15-D2

Tgt Ion:106 Resp: 3655

Ion Ratio Lower Upper

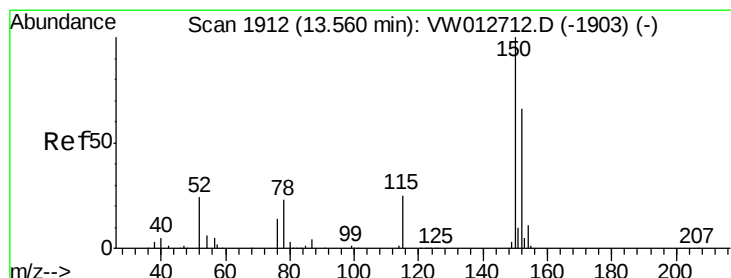
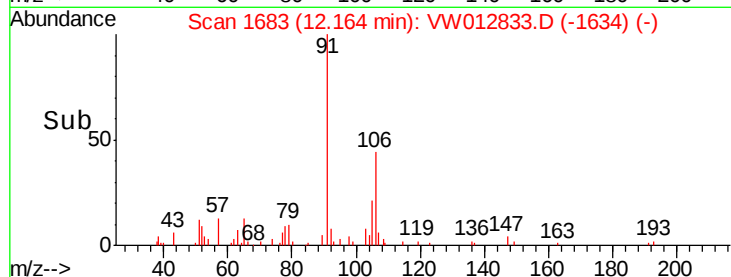
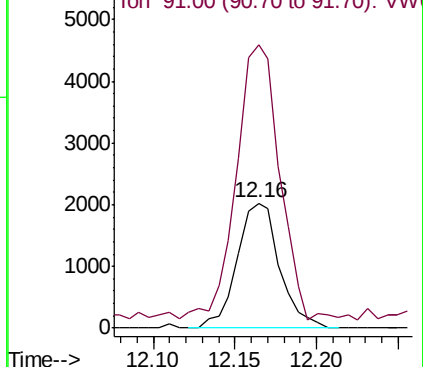
106 100

91 224.6 112.3 336.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW012833.D

Acq: 09 Sep 2019 20:16

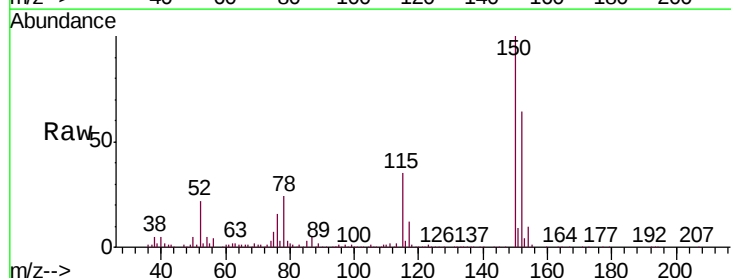
Tgt Ion:152 Resp: 93306

Ion Ratio Lower Upper

152 100

115 57.2 30.0 90.1

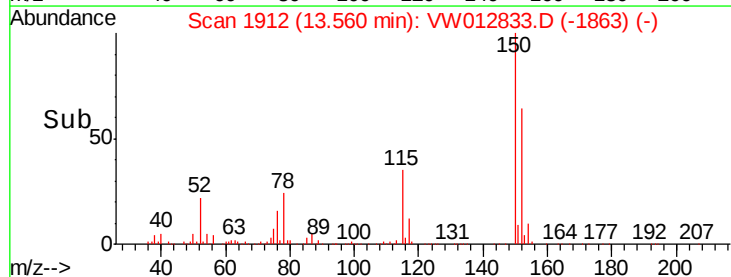
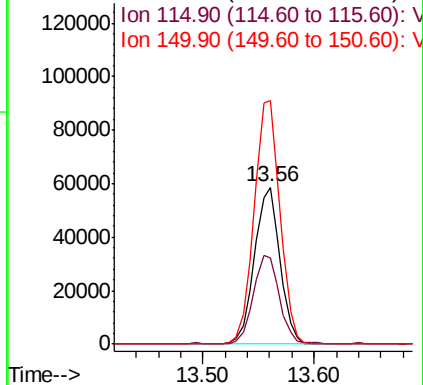
150 158.6 0.0 349.0

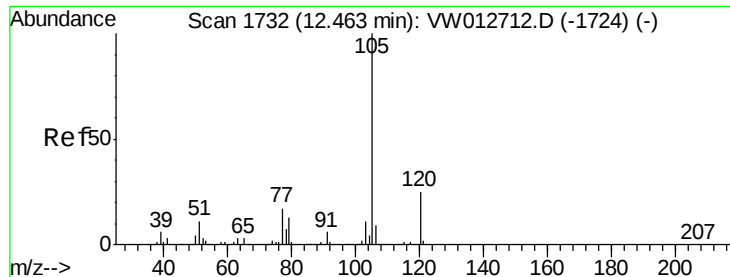


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.804 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW012833.D

Acq: 09 Sep 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

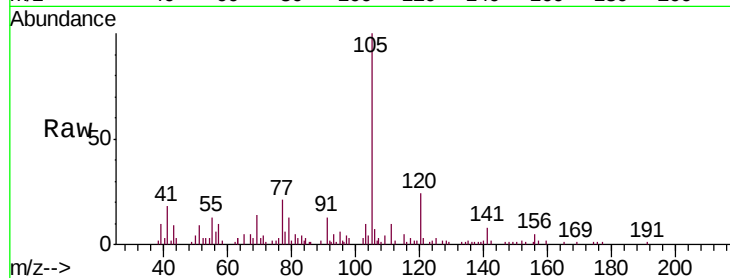
TP-15-D2

Tgt Ion:105 Resp: 12070

Ion Ratio Lower Upper

105 100

120 24.6 13.0 38.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

8000

6000

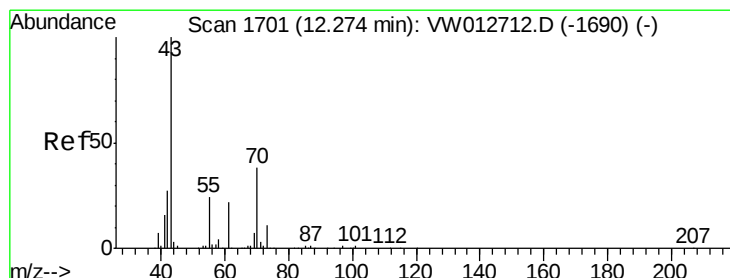
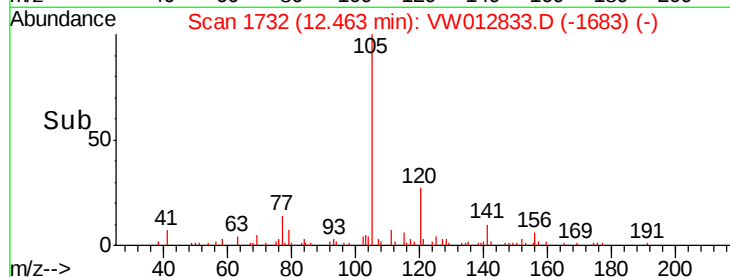
4000

2000

0

12.40 12.45 12.50

Time-->



#74

N-ethyl acetate

Concen: 1.955 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW012833.D

Acq: 09 Sep 2019 20:16

Tgt Ion: 43 Resp: 4153

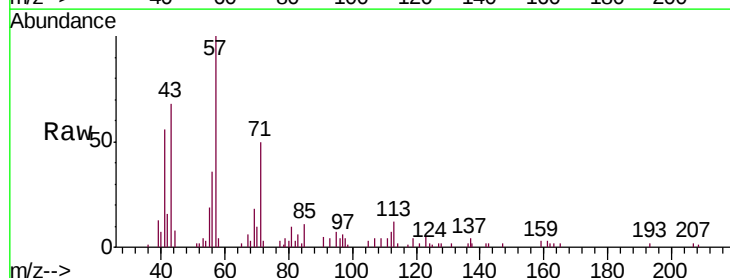
Ion Ratio Lower Upper

43 100

70 25.6 29.4 44.0#

55 30.5 18.6 27.8#

61 0.0 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

4000

3000

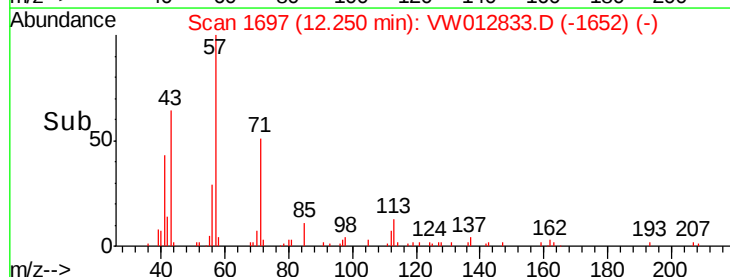
2000

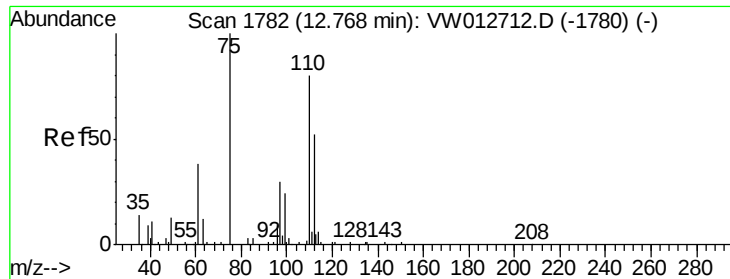
1000

0

12.20 12.25 12.30

Time-->

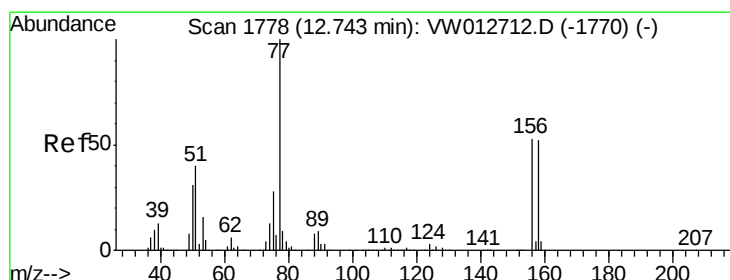
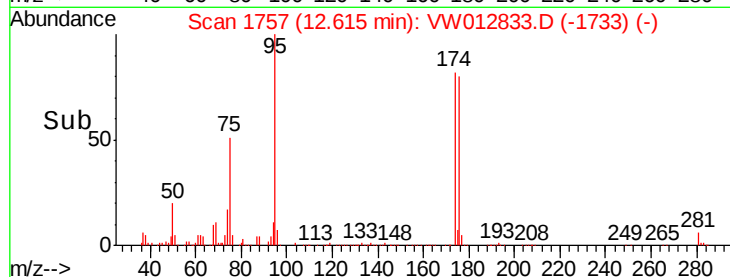
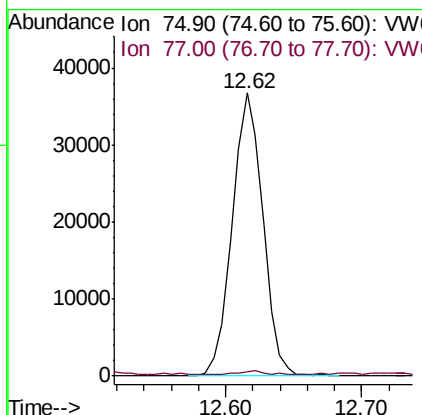
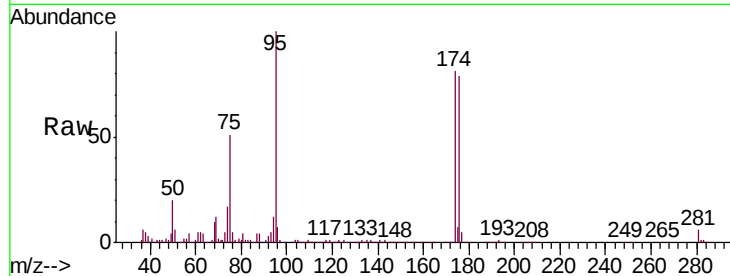




#76
 1,2,3-Trichloropropane
 Concen: 60.293 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW012833.D
 Acq: 09 Sep 2019 20:16

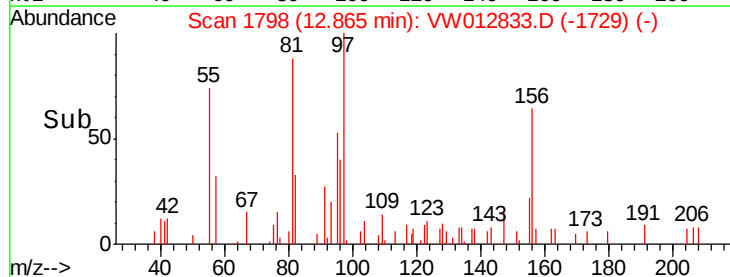
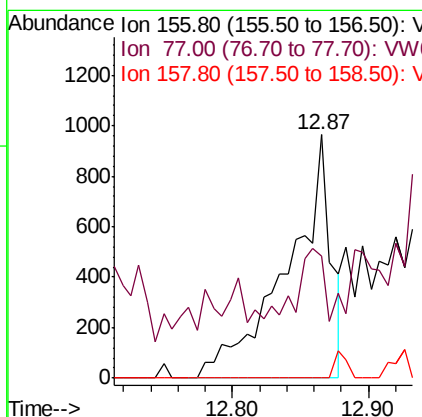
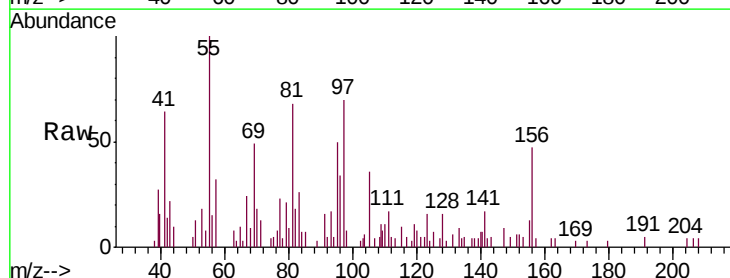
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-15-D2

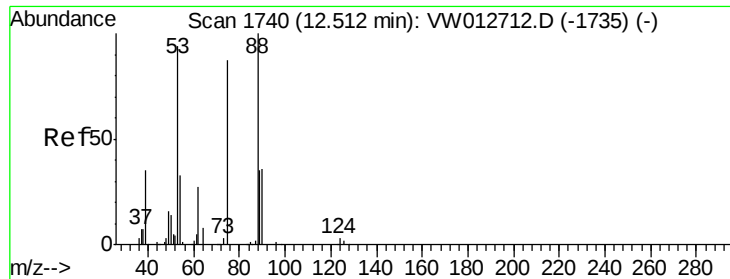
Tgt Ion: 75 Resp: 57525
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#77
 Bromobenzene
 Concen: 1.404 ug/l
 RT: 12.87 min Scan# 1798
 Delta R.T. 0.12 min
 Lab File: VW012833.D
 Acq: 09 Sep 2019 20:16

Tgt Ion: 156 Resp: 2128
 Ion Ratio Lower Upper
 156 100
 77 20.2 102.3 306.9#
 158 0.0 48.9 146.8#

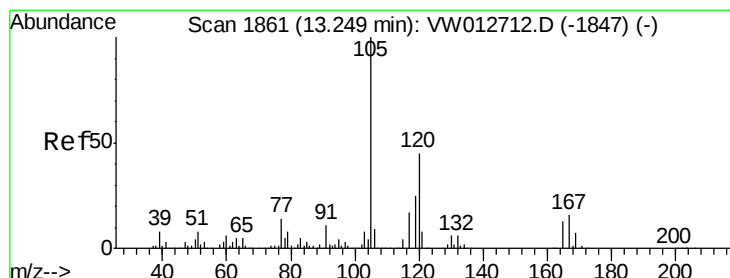
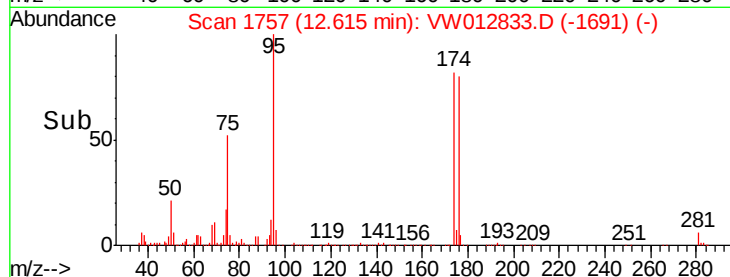
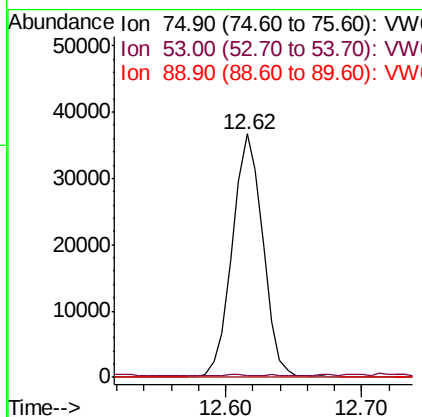
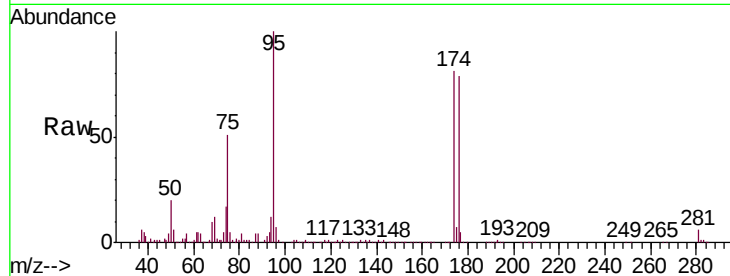




#81
trans-1,4-Dichloro-2-butene
Concen: 127.523 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

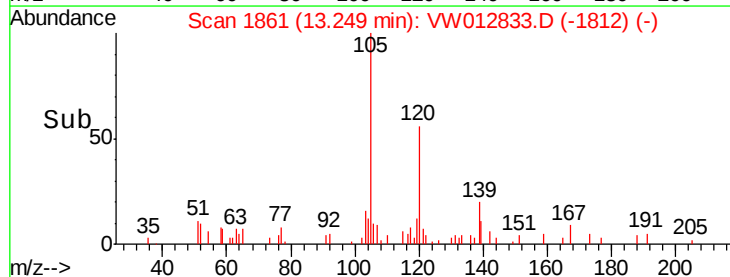
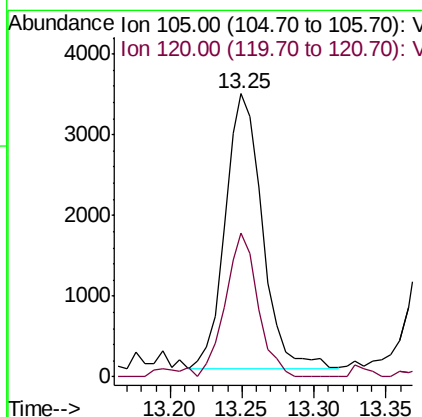
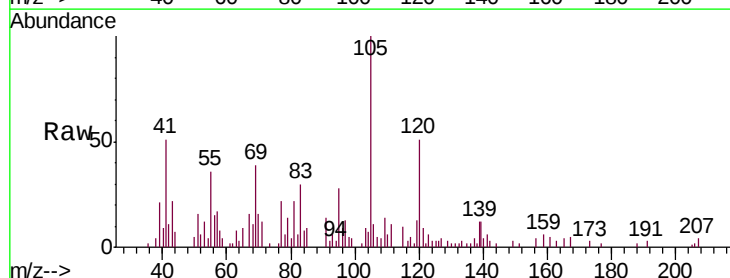
Instrument :
MSVOA_W
ClientSampleId :
TP-15-D2

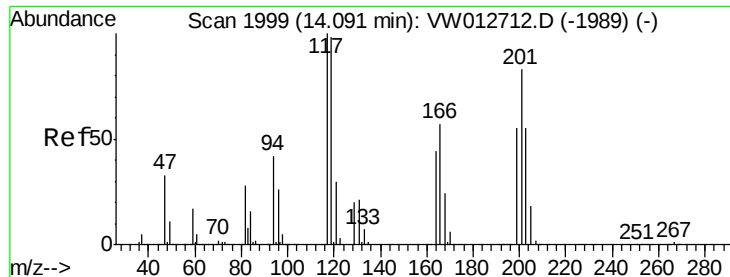
Tgt Ion: 75 Resp: 57525
Ion Ratio Lower Upper
75 100
53 0.6 87.6 131.4#
89 0.0 35.5 53.3#



#84
1,2,4-Trimethylbenzene
Concen: 1.087 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW012833.D
Acq: 09 Sep 2019 20:16

Tgt Ion: 105 Resp: 6174
Ion Ratio Lower Upper
105 100
120 45.4 22.1 66.3





#90

Hexachloroethane

Concen: 2.163 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.01 min

Lab File: VW012833.D

Acq: 09 Sep 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

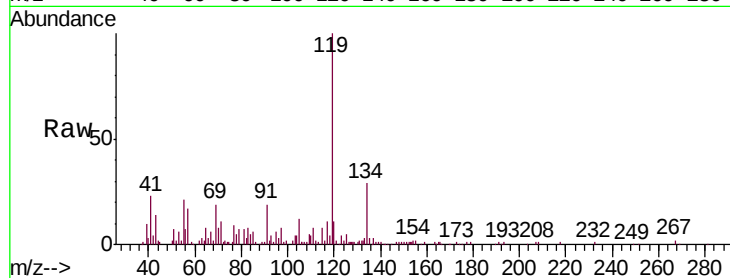
TP-15-D2

Tgt Ion:117 Resp: 2386

Ion Ratio Lower Upper

117 100

201 0.0 42.8 128.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

2000

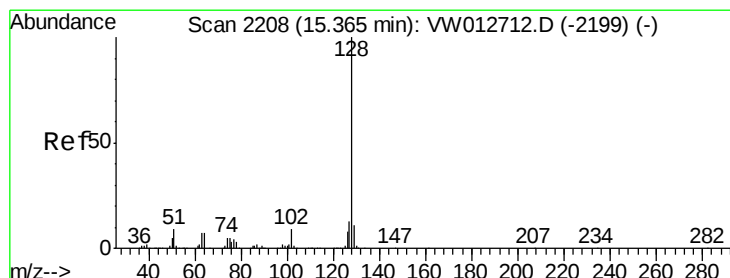
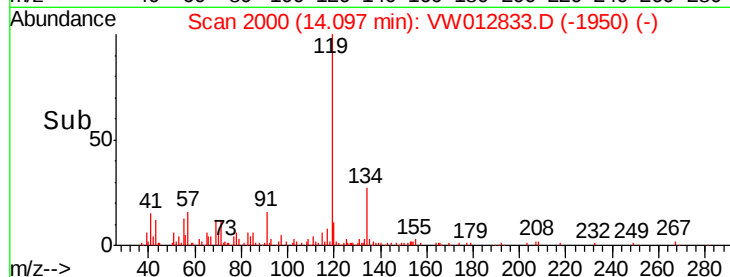
1500

1000

500

0

Time-->



#95

Naphthalene

Concen: 4.757 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012833.D

Acq: 09 Sep 2019 20:16

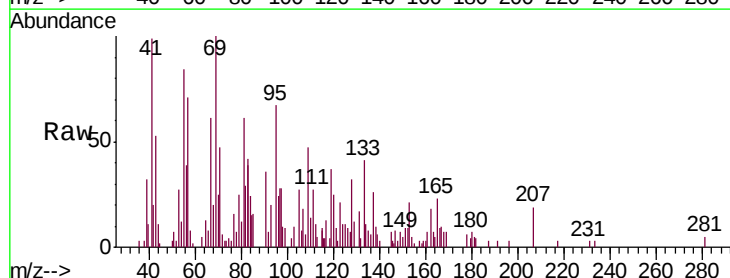
Tgt Ion:128 Resp: 1365

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 18.8 8.7 13.1#



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

1000

800

600

400

200

0

Time-->

