

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW021419\
 Data File : VW008666.D
 Acq On : 14 Feb 2019 15:13
 Operator : SY/VA
 Sample : K1349-05RE
 Misc : 7.37G/5ML/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OR-01-021319-A

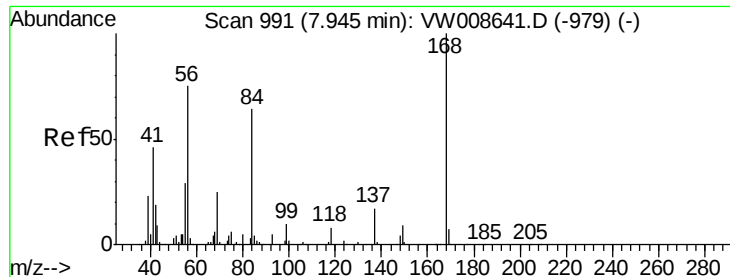
Quant Time: Feb 15 02:48:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 04:06:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	405274	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	616454	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	518555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	213747	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	219941	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
35) Dibromofluoromethane	7.88	113	193848	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
50) Toluene-d8	10.32	98	719099	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
62) 4-Bromofluorobenzene	12.62	95	237283	42.69	ug/l	0.00
Spiked Amount			Recovery	=	85.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	561	1.664	ug/l #	80
16) Acetone	4.13	43	41775	43.571	ug/l	93
25) 2-Butanone	7.17	43	6931	5.119	ug/l #	86
29) Tetrahydrofuran	7.53	42	3540	3.967	ug/l	98
31) Cyclohexane	7.94	56	11216	1.456	ug/l #	23
36) 1,1-Dichloropropene	7.94	75	31189	5.036	ug/l #	42
38) Carbon Tetrachloride	7.95	117	37818	6.141	ug/l #	18
39) Methylcyclohexane	9.33	83	8094	1.033	ug/l	99
41) Methacrylonitrile	7.54	41	2576	1.532	ug/l #	27
49) 1,4-Dioxane	9.48	88	146	3.966	ug/l #	39
51) 4-Methyl-2-Pentanone	10.20	43	3198	1.045	ug/l	88
52) Toluene	10.39	92	45616	4.180	ug/l	100
55) 1,1,2-Trichloroethane	10.76	97	3974	1.256	ug/l #	25
68) m/p-Xylenes	11.84	106	25209	3.254	ug/l	98
69) o-Xylene	12.16	106	17717	2.420	ug/l	99
74) N-amyl acetate	12.26	43	7113	1.652	ug/l #	56
76) 1,2,3-Trichloropropane	12.62	75	123601	58.561	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	33452	2.530	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	123601	125.128	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.26	105	88140	6.485	ug/l	99
89) n-Butylbenzene	13.82	91	19947	1.403	ug/l #	77
90) Hexachloroethane	14.10	117	5906	2.260	ug/l #	11
95) Naphthalene	15.37	128	120520	14.372	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

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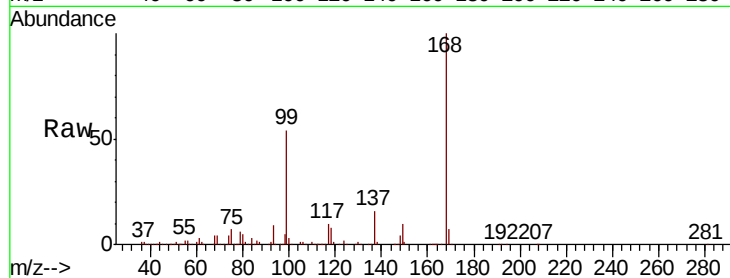
OR-01-021319-A

Tgt Ion:168 Resp: 405274

Ion Ratio Lower Upper

168 100

99 54.1 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

100000

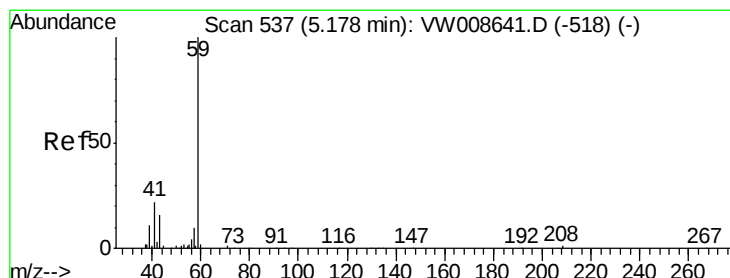
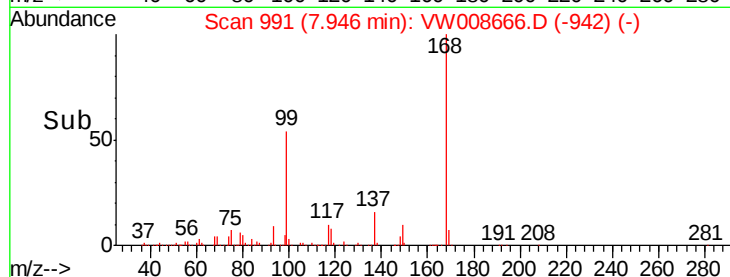
50000

0

7.90

8.00

Time-->



#11

Tert butyl alcohol

Concen: 1.664 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW008666.D

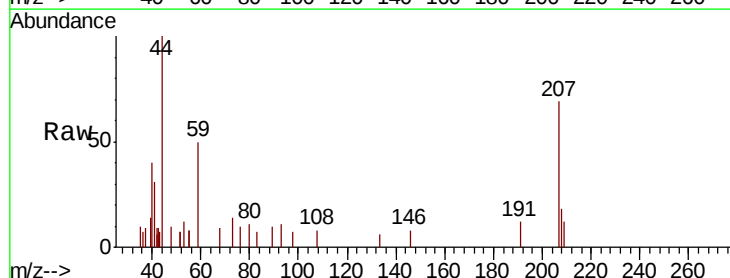
Acq: 14 Feb 2019 15:13

Tgt Ion: 59 Resp: 561

Ion Ratio Lower Upper

59 100

57 18.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

500

400

300

200

100

0

5.12

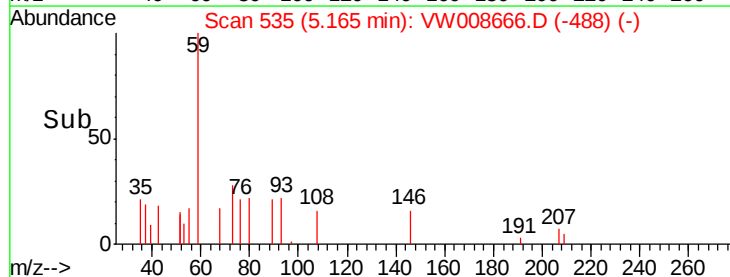
5.14

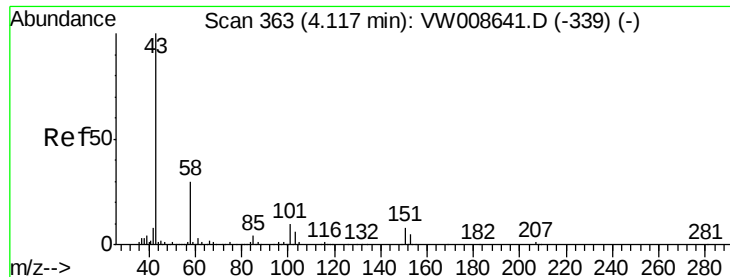
5.16

5.18

5.20

Time-->





#16

Acetone

Concen: 43.571 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008666.D

Acq: 14 Feb 2019 15:13

Instrument :

MSVOA_W

ClientSampleId :

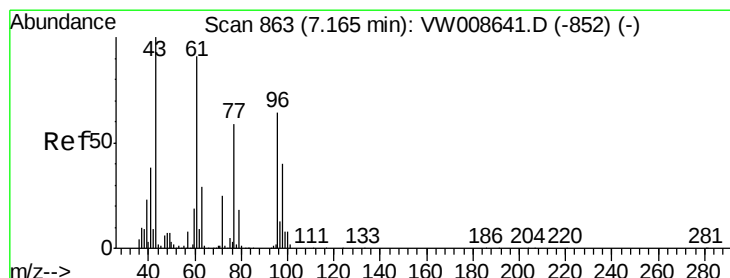
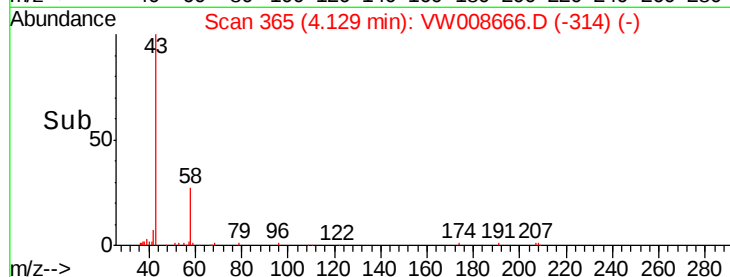
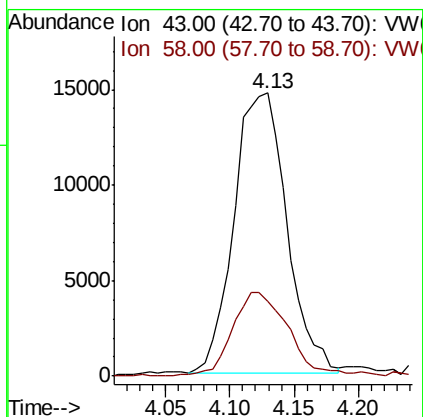
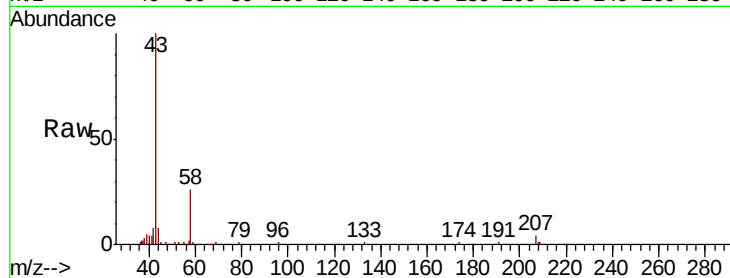
OR-01-021319-A

Tgt Ion: 43 Resp: 41775

Ion Ratio Lower Upper

43 100

58 26.2 24.1 36.1



#25

2-Butanone

Concen: 5.119 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW008666.D

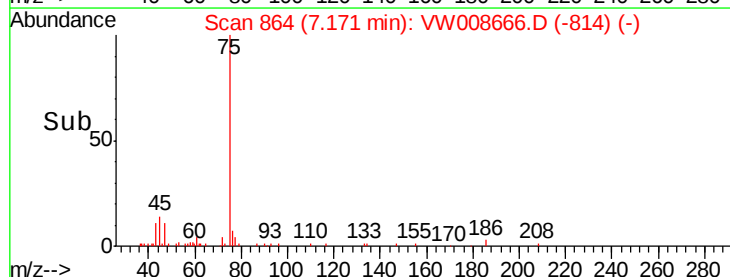
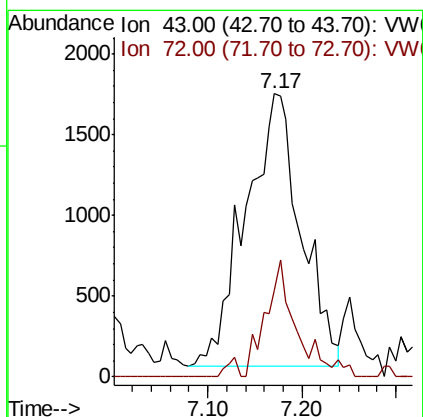
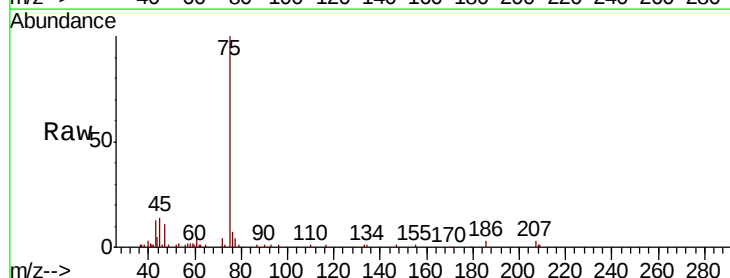
Acq: 14 Feb 2019 15:13

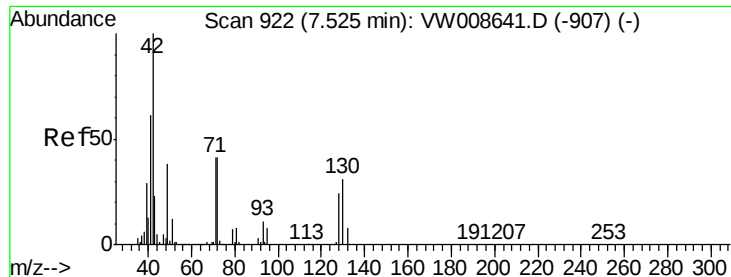
Tgt Ion: 43 Resp: 6931

Ion Ratio Lower Upper

43 100

72 31.8 19.7 29.5#





#29

Tetrahydrofuran

Concen: 3.967 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW008666.D

Acq: 14 Feb 2019 15:13

Instrument :

MSVOA_W

ClientSampleId :

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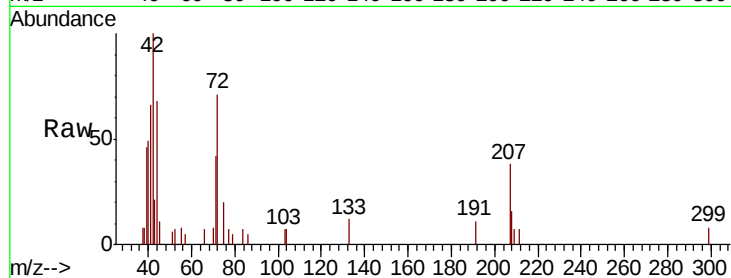
Tgt Ion: 42 Resp: 3540

Ion Ratio Lower Upper

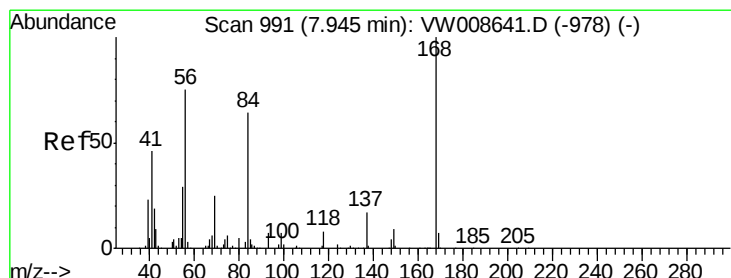
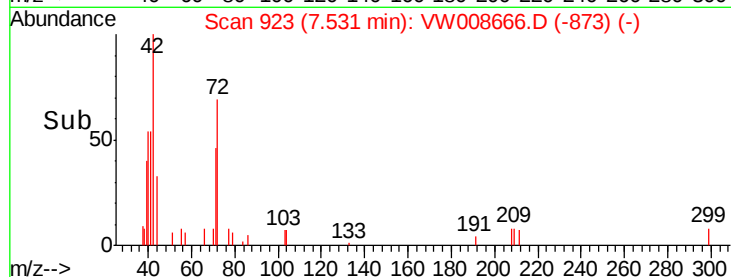
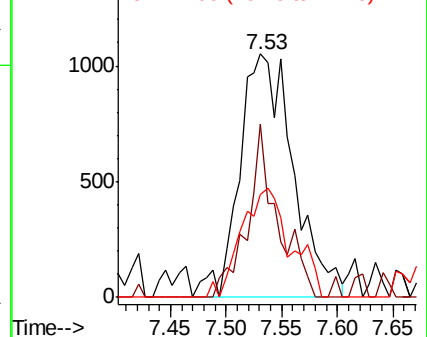
42 100

72 39.7 32.2 48.2

71 40.8 31.0 46.6



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.456 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW008666.D

Acq: 14 Feb 2019 15:13

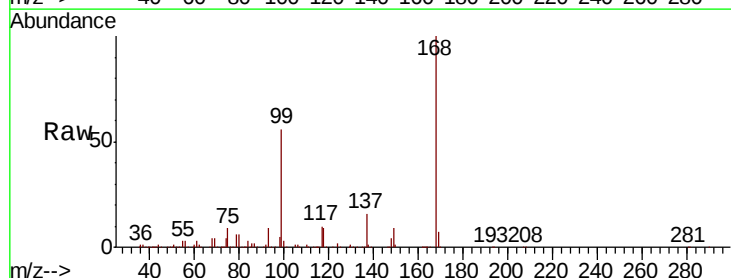
Tgt Ion: 56 Resp: 11216

Ion Ratio Lower Upper

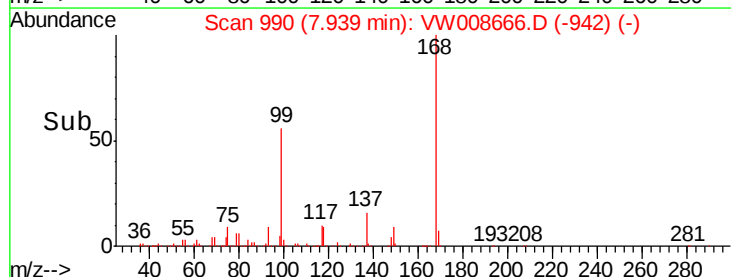
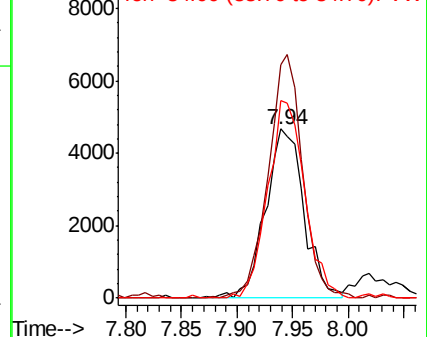
56 100

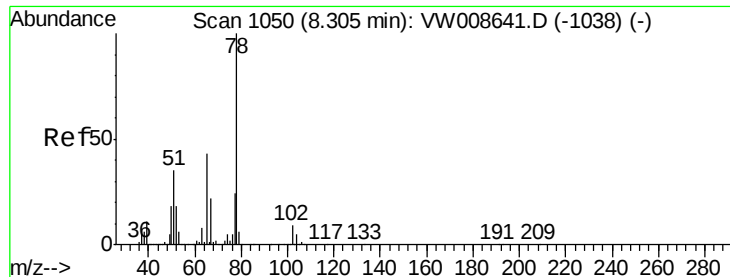
69 138.1 26.4 39.6#

84 115.3 67.4 101.2#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

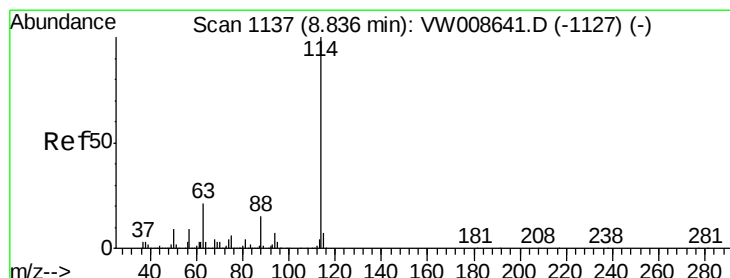
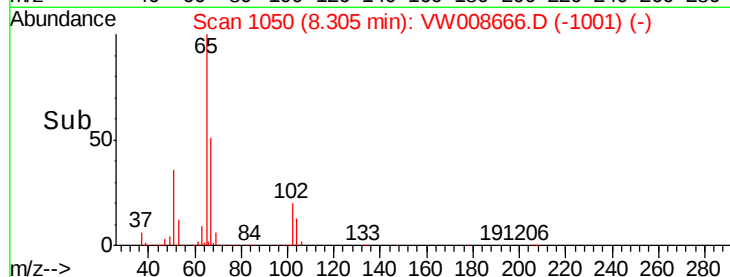
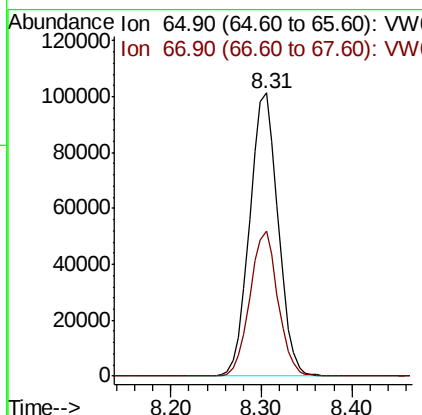
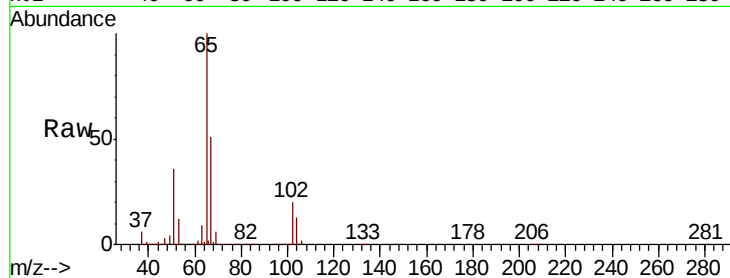




#33
 1,2-Dichloroethane-d4
 Concen: 52.201 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008666.D
 Acq: 14 Feb 2019 15:13

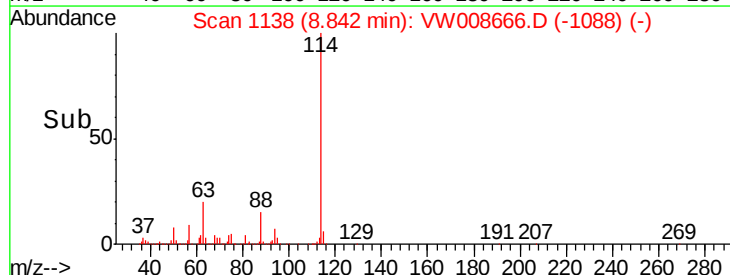
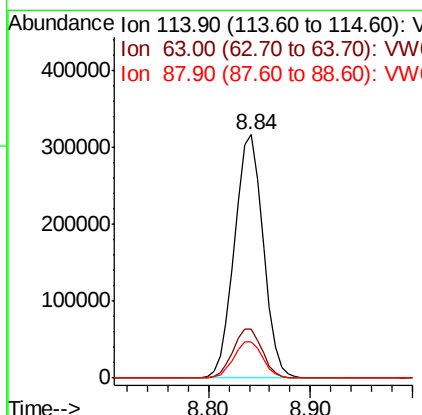
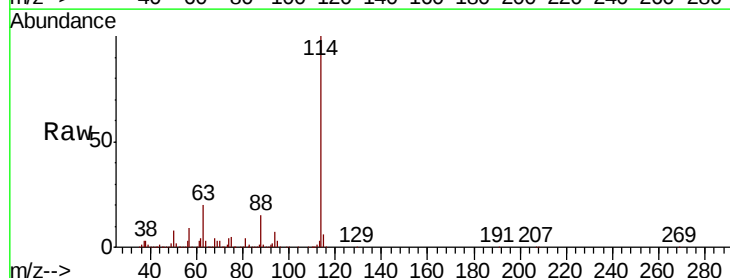
Instrument :
 MSVOA_W
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 OR-01-021319-A

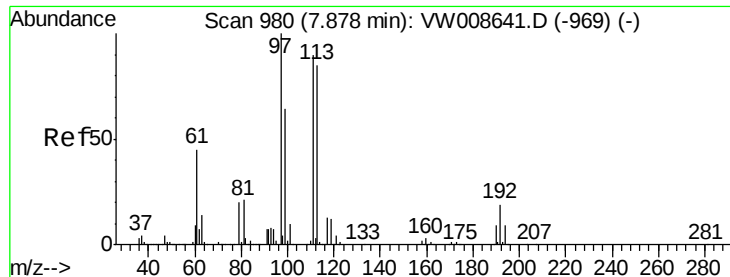
Tgt Ion: 65 Resp: 219941
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.01 min
 Lab File: VW008666.D
 Acq: 14 Feb 2019 15:13

Tgt Ion: 114 Resp: 616454
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.2
 88 15.1 0.0 29.6





#35

Dibromofluoromethane

Concen: 50.642 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW008666.D

Acq: 14 Feb 2019 15:13

Instrument :

MSVOA_W

ClientSampleId :

OR-01-021319-A

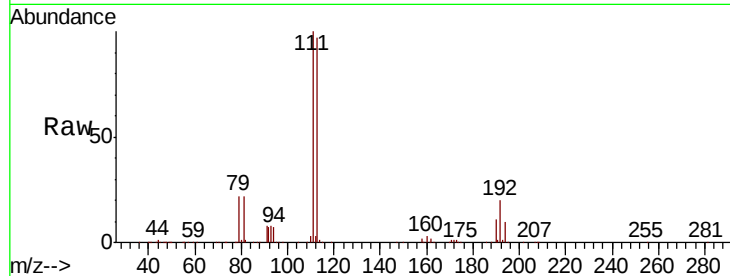
Tgt Ion:113 Resp: 193848

Ion Ratio Lower Upper

113 100

111 101.7 84.0 126.0

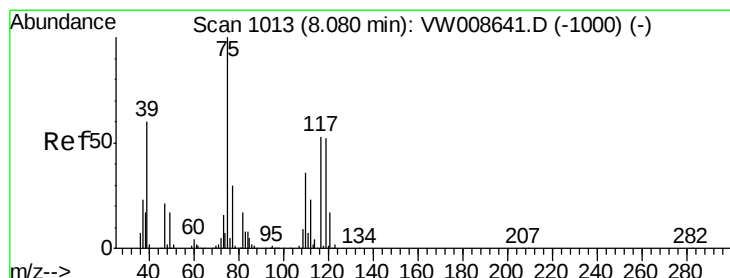
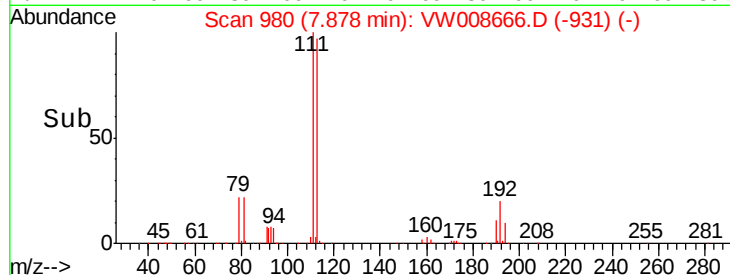
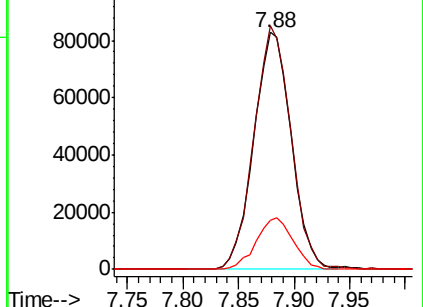
192 21.4 17.4 26.2



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: 5.036 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008666.D

Acq: 14 Feb 2019 15:13

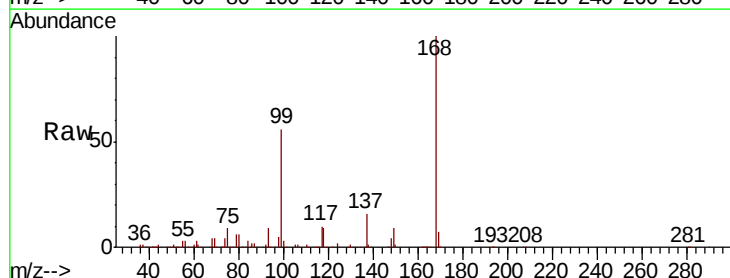
Tgt Ion: 75 Resp: 31189

Ion Ratio Lower Upper

75 100

110 0.0 17.8 53.3#

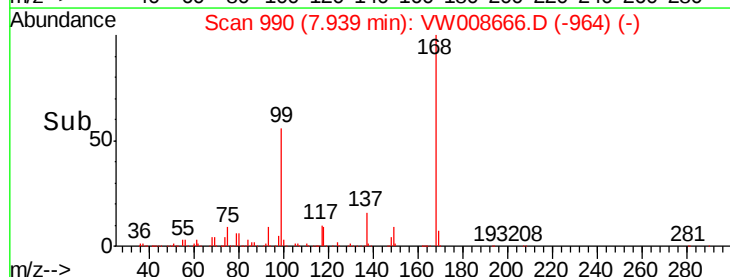
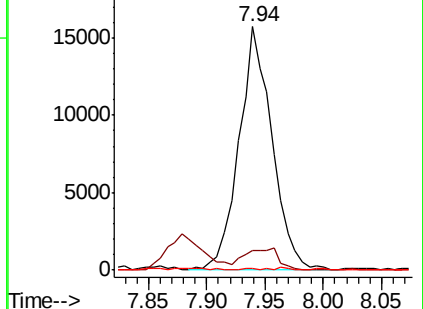
77 0.4 24.7 37.1#

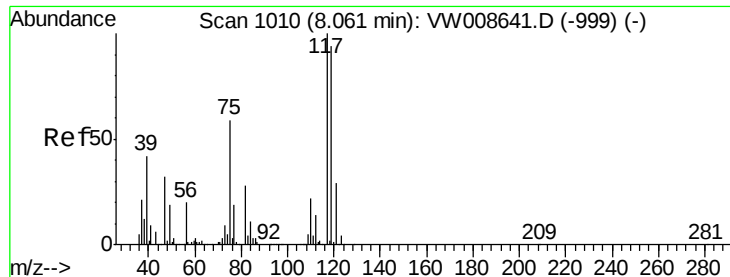


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

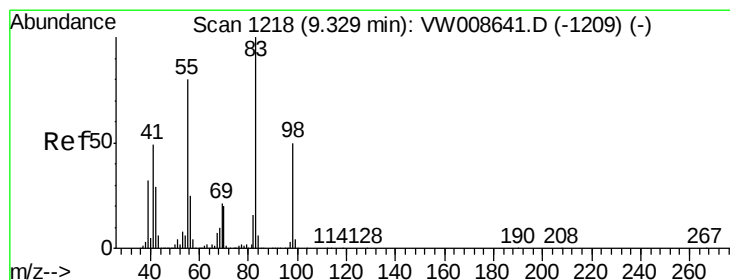
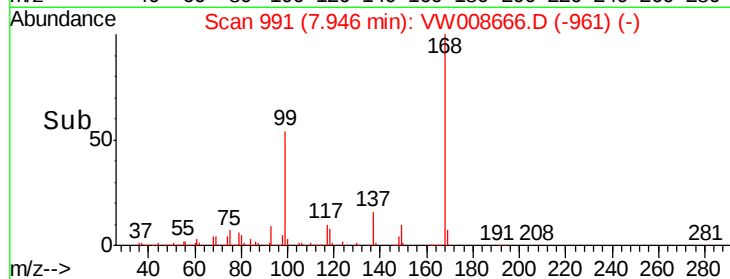
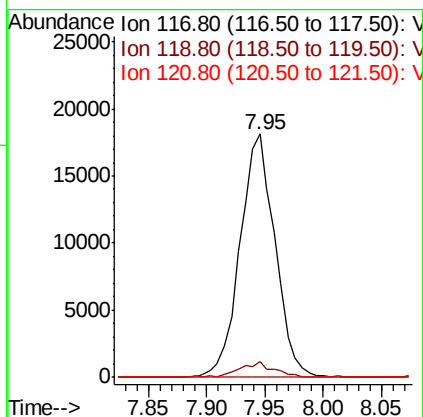
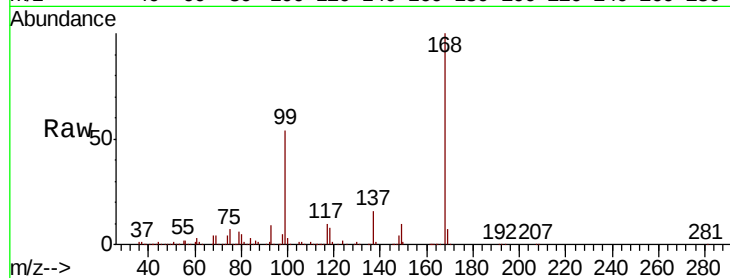




#38
Carbon Tetrachloride
Concen: 6.141 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW008666.D
Acq: 14 Feb 2019 15:13

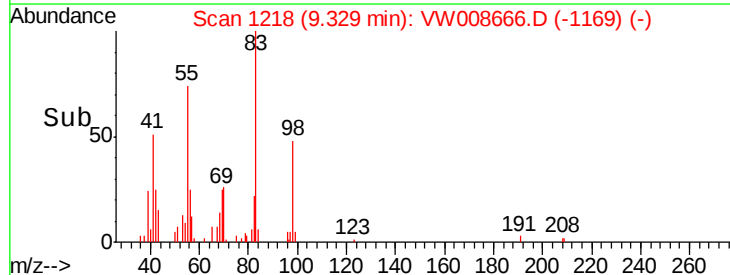
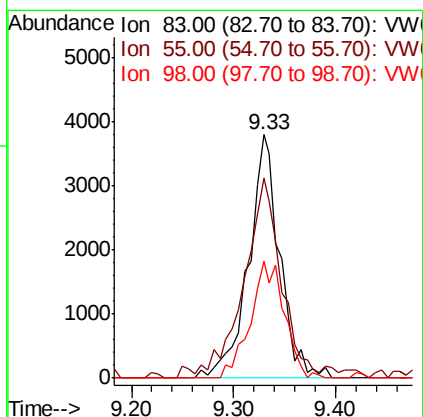
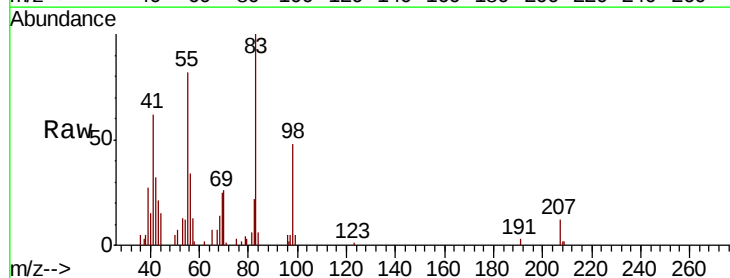
Instrument :
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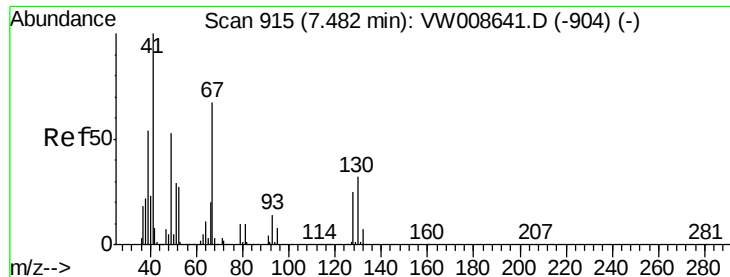
Tgt Ion:117 Resp: 37818
Ion Ratio Lower Upper
117 100
119 6.1 75.1 112.7#
121 0.0 23.5 35.3#



#39
Methylcyclohexane
Concen: 1.033 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. 0.00 min
Lab File: VW008666.D
Acq: 14 Feb 2019 15:13

Tgt Ion: 83 Resp: 8094
Ion Ratio Lower Upper
83 100
55 80.1 63.9 95.9
98 47.8 40.2 60.2

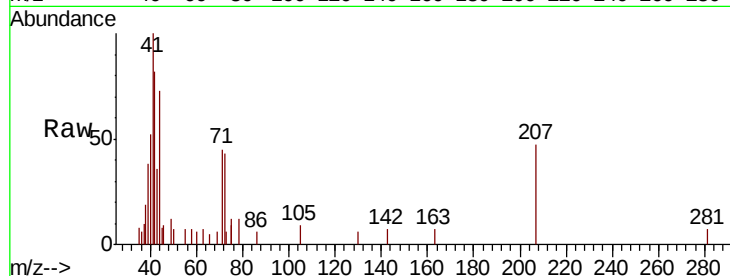




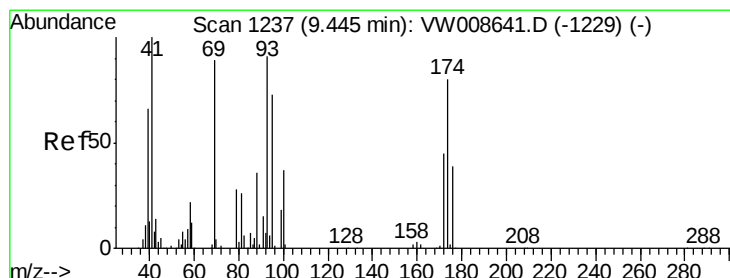
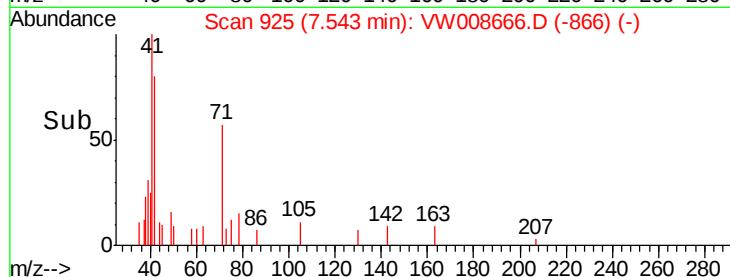
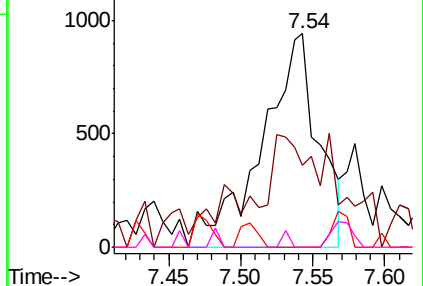
#41
Methacrylonitrile
Concen: 1.532 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.06 min
Lab File: VW008666.D
Acq: 14 Feb 2019 15:13

Instrument :
MSVOA_W
ClientSampleId :
OR-01-021319-A

Tgt Ion:	41	Resp:	2576
Ion	Ratio	Lower	Upper
41	100		
39	0.0	39.7	59.5#
67	0.0	52.5	78.7#
52	1.0	23.1	34.7#

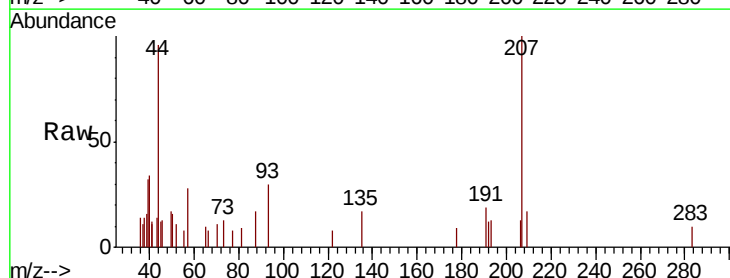


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

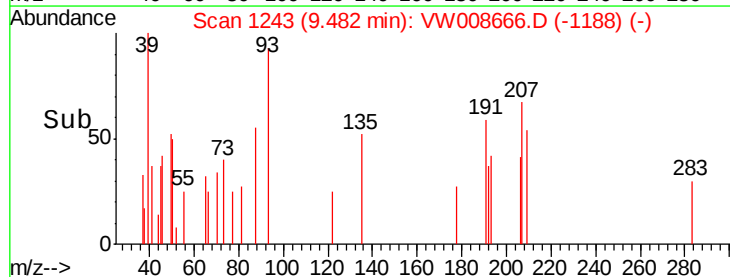
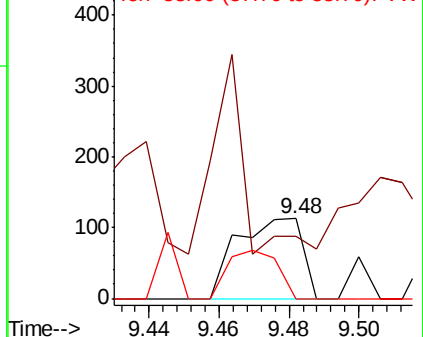


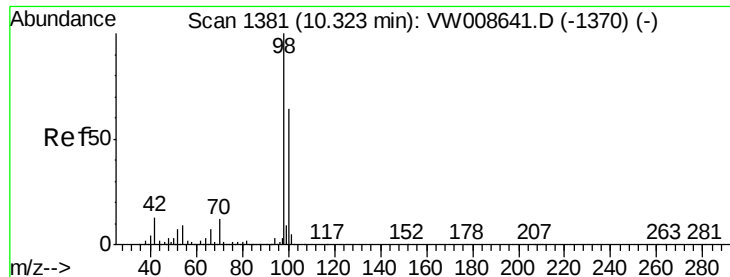
#49
1,4-Dioxane
Concen: 3.966 ug/l
RT: 9.48 min Scan# 1243
Delta R.T. 0.04 min
Lab File: VW008666.D
Acq: 14 Feb 2019 15:13

Tgt Ion:	88	Resp:	146
Ion	Ratio	Lower	Upper
88	100		
43	110.3	31.0	46.6#
58	45.9	57.0	85.6#



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 48.734 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008666.D

Acq: 14 Feb 2019 15:13

Instrument :

MSVOA_W

ClientSampleId :

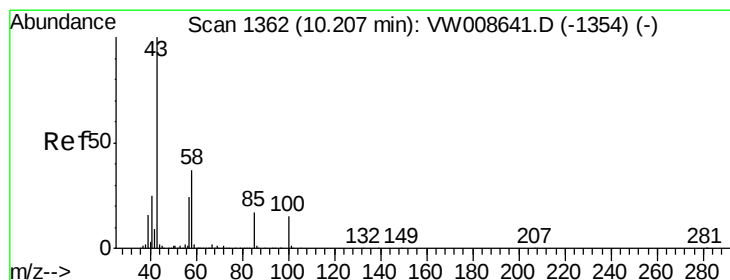
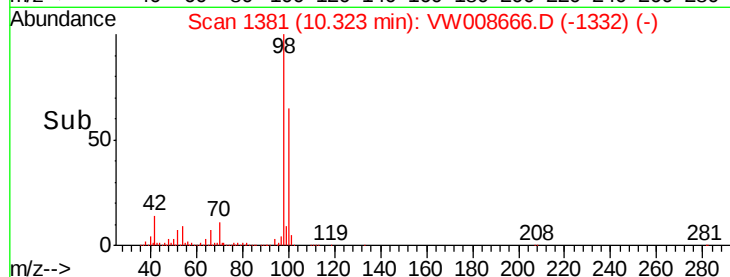
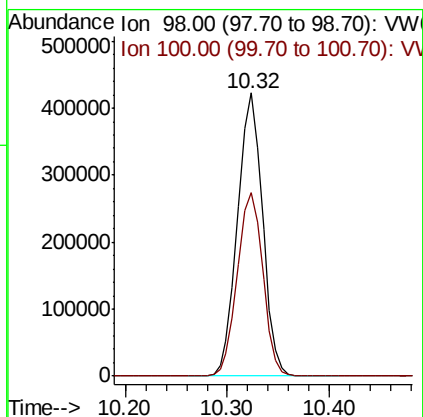
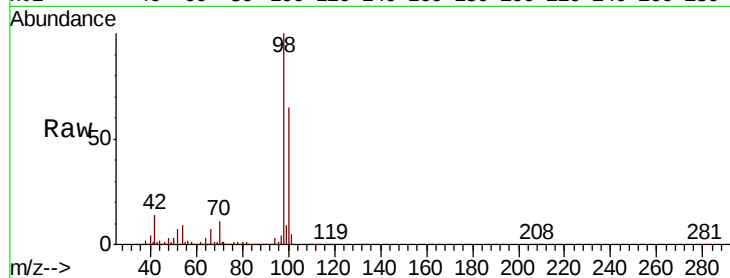
OR-01-021319-A

Tgt Ion: 98 Resp: 719099

Ion Ratio Lower Upper

98 100

100 65.9 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 1.045 ug/l

RT: 10.20 min Scan# 1361

Delta R.T. -0.01 min

Lab File: VW008666.D

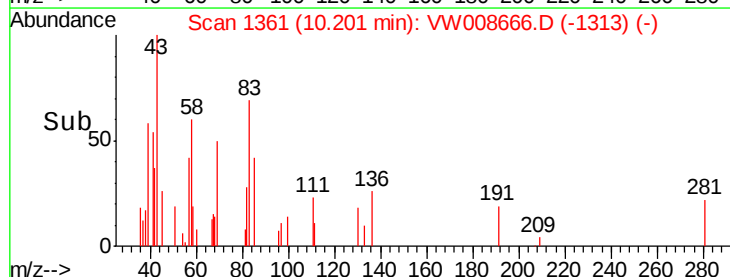
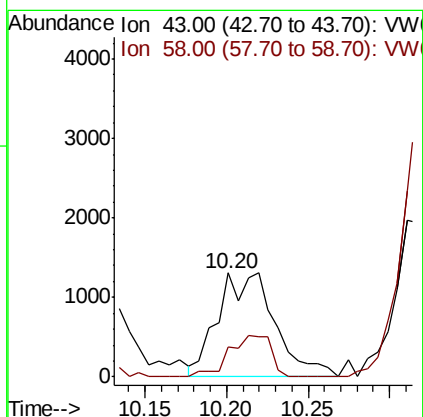
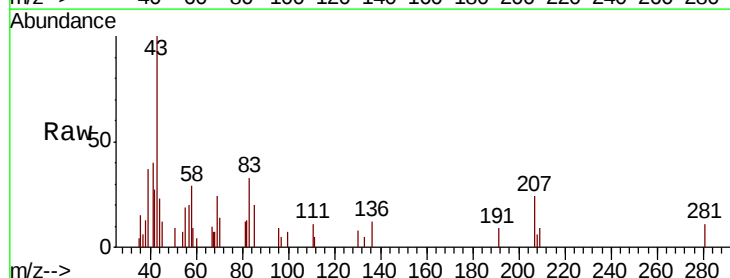
Acq: 14 Feb 2019 15:13

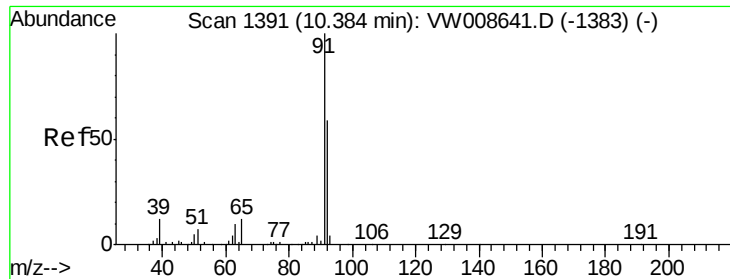
Tgt Ion: 43 Resp: 3198

Ion Ratio Lower Upper

43 100

58 29.5 29.0 43.6





#52

Toluene

Concen: 4.180 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW008666.D

Acq: 14 Feb 2019 15:13

Instrument :

MSVOA_W

ClientSampleId :

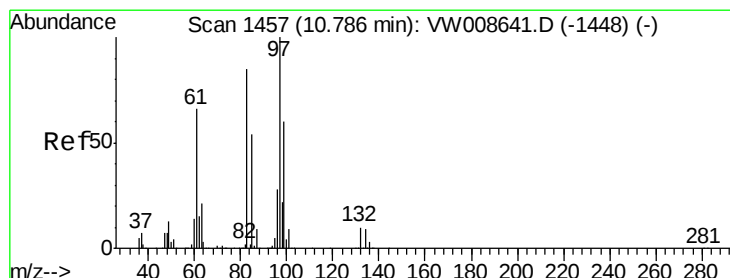
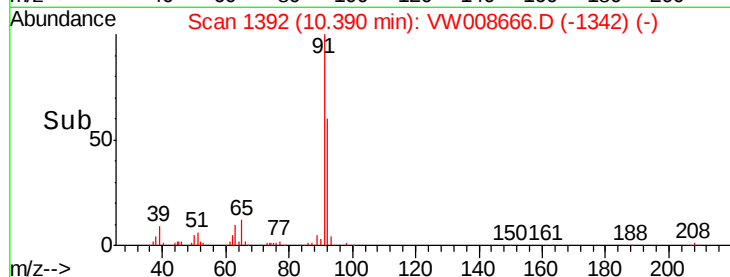
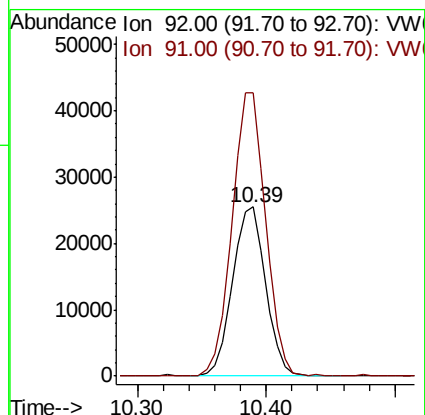
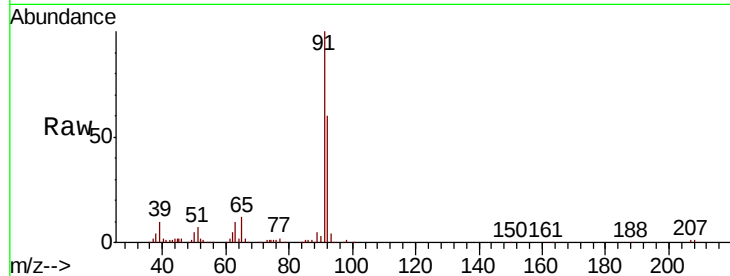
OR-01-021319-A

Tgt Ion: 92 Resp: 45616

Ion Ratio Lower Upper

92 100

91 169.7 135.8 203.6



#55

1,1,2-Trichloroethane

Concen: 1.256 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW008666.D

Acq: 14 Feb 2019 15:13

Tgt Ion: 97 Resp: 3974

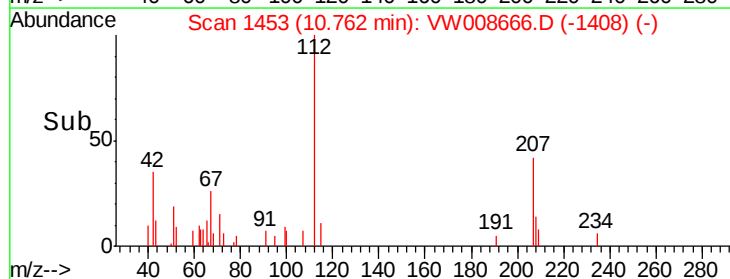
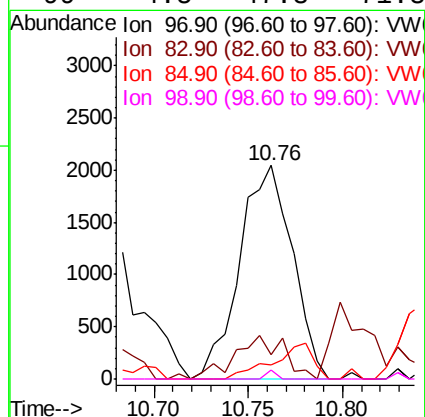
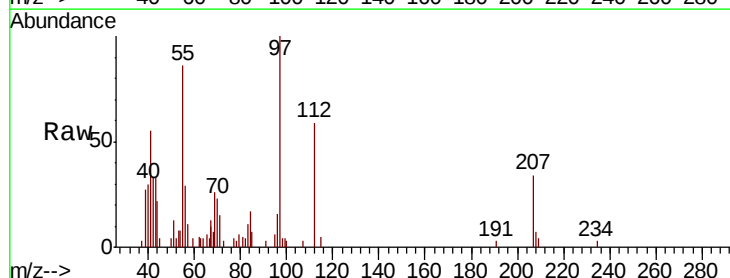
Ion Ratio Lower Upper

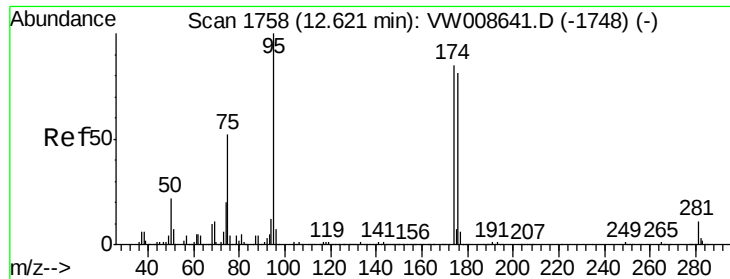
97 100

83 11.2 68.4 102.6#

85 6.7 43.1 64.7#

99 4.5 47.8 71.8#

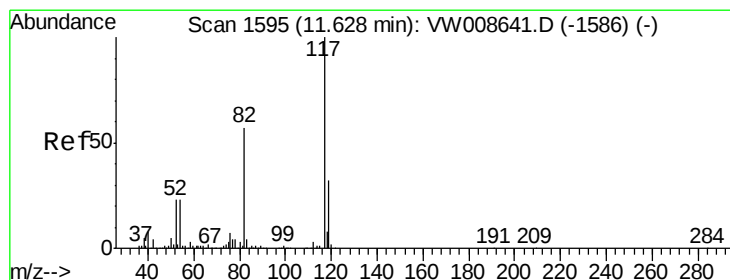
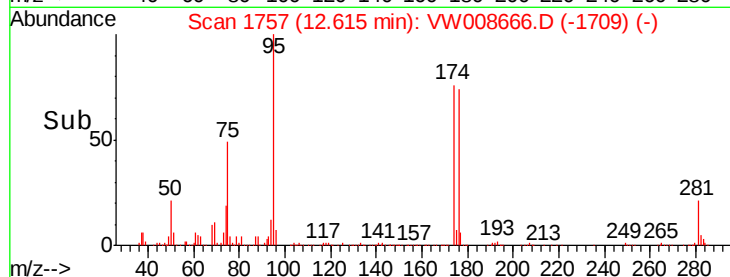
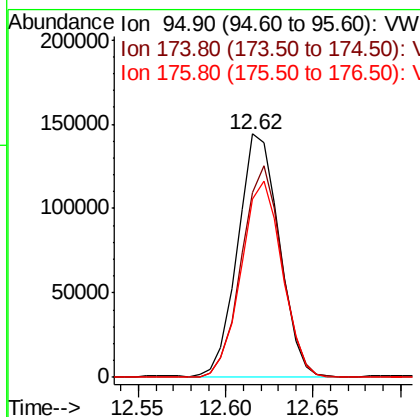
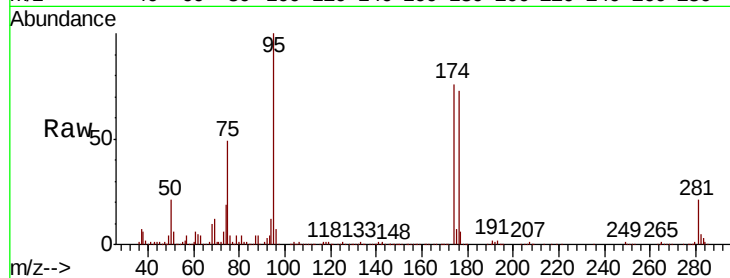




#62
4-Bromofluorobenzene
Concen: 42.692 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW008666.D
Acq: 14 Feb 2019 15:13

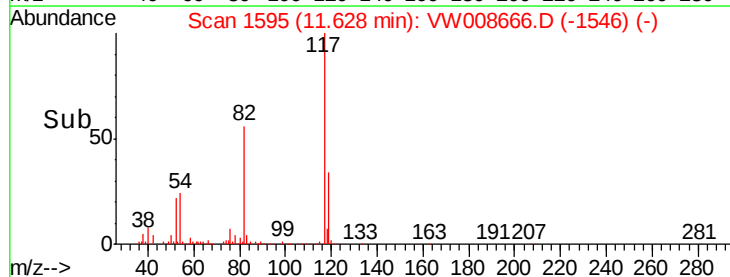
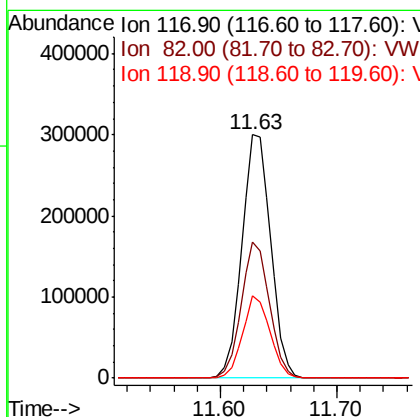
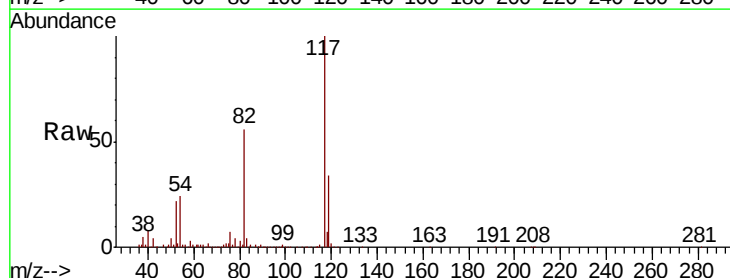
Instrument :
MSVOA_W
ClientSampleId :
OR-01-021319-A

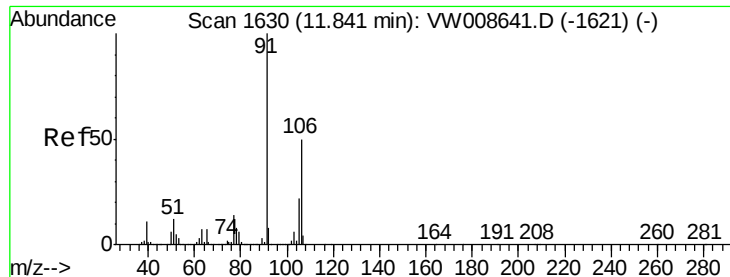
Tgt Ion: 95 Resp: 237283
Ion Ratio Lower Upper
95 100
174 84.6 0.0 163.2
176 80.4 0.0 158.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW008666.D
Acq: 14 Feb 2019 15:13

Tgt Ion: 117 Resp: 518555
Ion Ratio Lower Upper
117 100
82 55.5 45.6 68.4
119 33.6 25.7 38.5

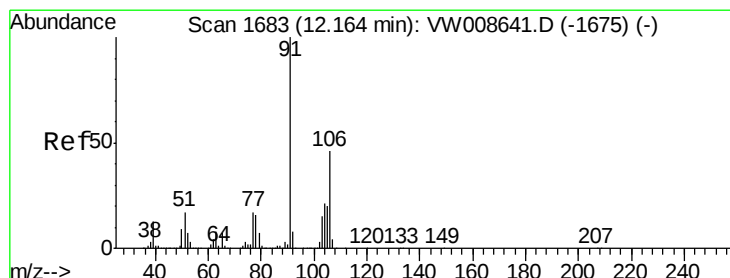
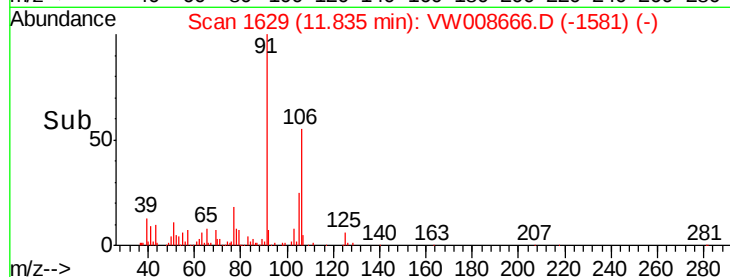
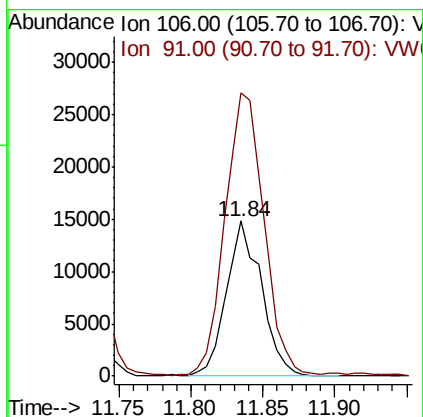
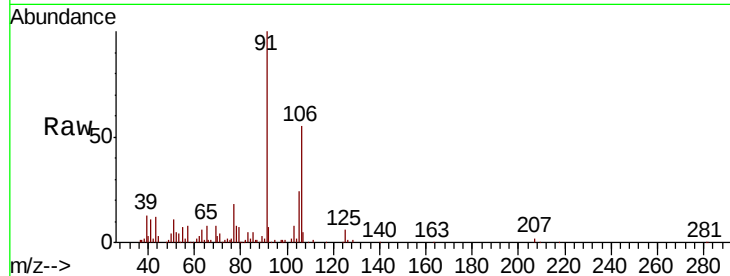




#68
m/p-Xylenes
Concen: 3.254 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008666.D
Acq: 14 Feb 2019 15:13

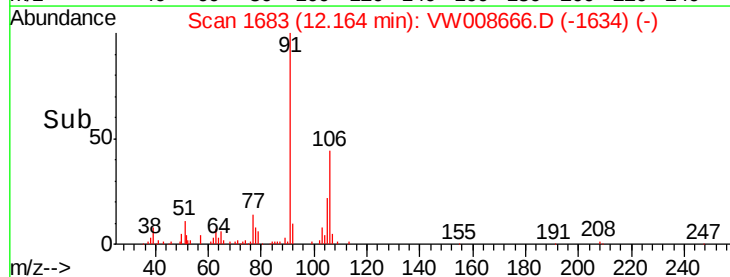
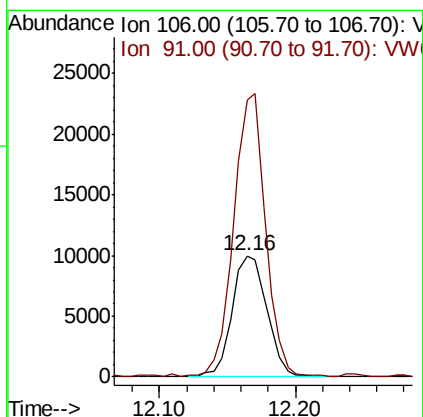
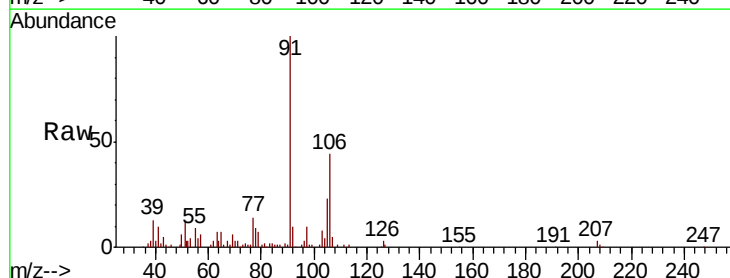
Instrument :
MSVOA_W
ClientSampleId :
OR-01-021319-A

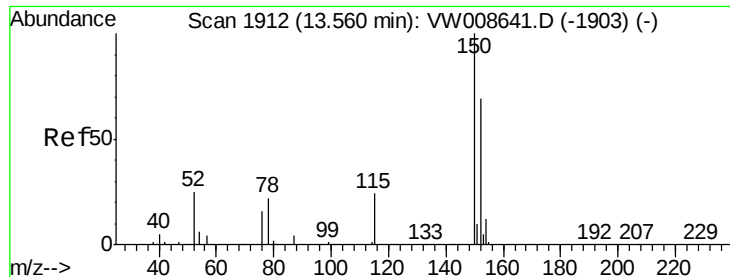
Tgt Ion:106 Resp: 25209
Ion Ratio Lower Upper
106 100
91 203.5 161.0 241.4



#69
o-Xylene
Concen: 2.420 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW008666.D
Acq: 14 Feb 2019 15:13

Tgt Ion:106 Resp: 17717
Ion Ratio Lower Upper
106 100
91 215.7 106.7 320.1

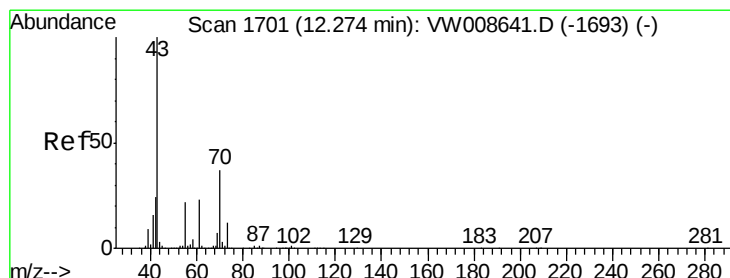
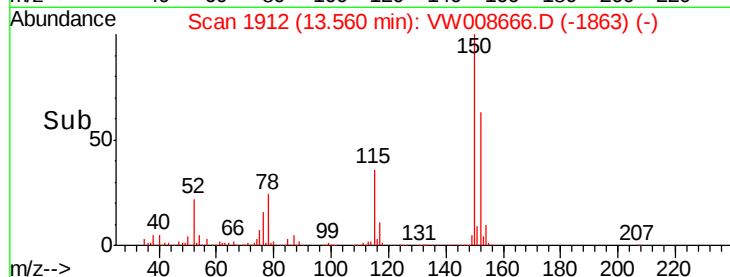
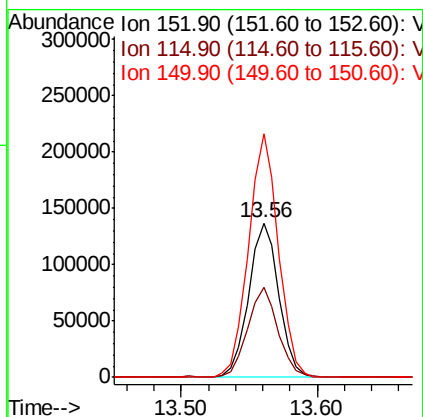
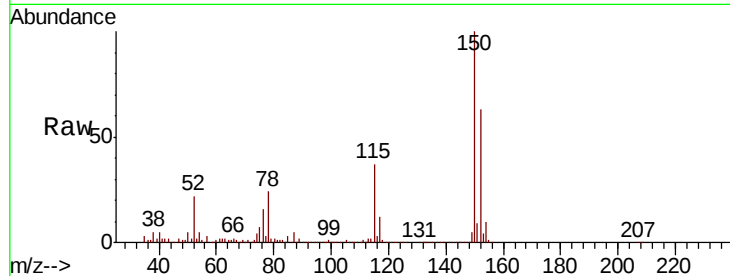




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. 0.00 min
 Lab File: VW008666.D
 Acq: 14 Feb 2019 15:13

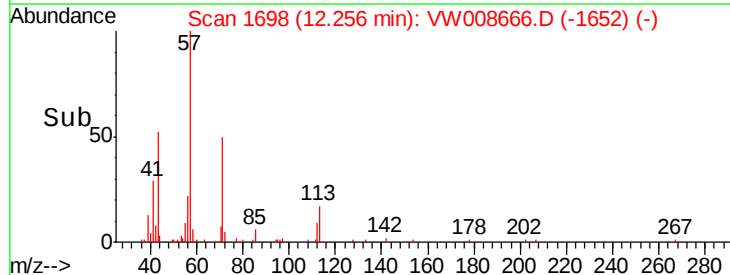
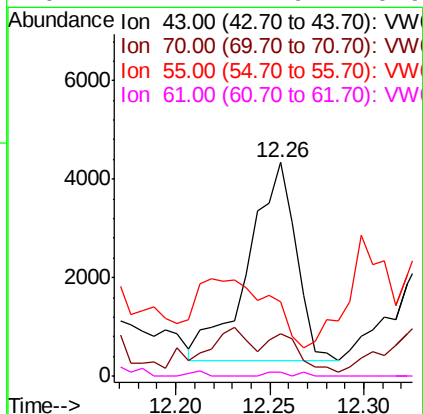
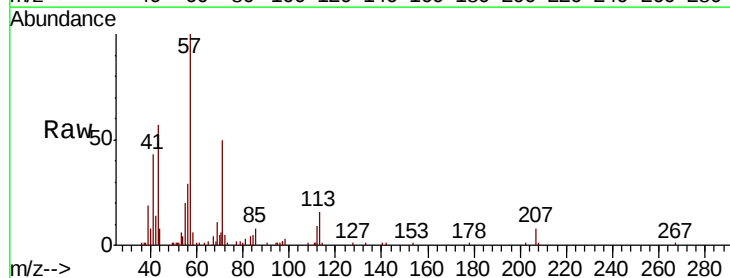
Instrument :
 MSVOA_W
 ClientSampleId :
 OR-01-021319-A

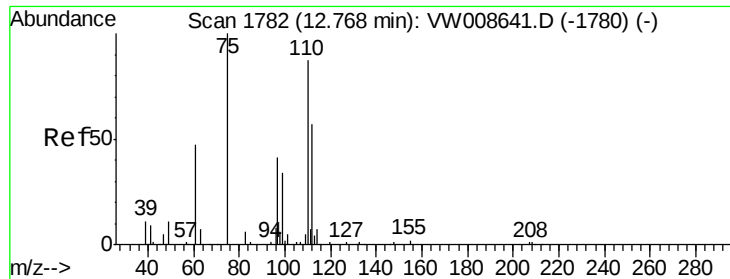
Tgt Ion: 152 Resp: 213747
 Ion Ratio Lower Upper
 152 100
 115 58.1 29.3 87.8
 150 155.2 0.0 352.8



#74
 N-ethyl acetate
 Concen: 1.652 ug/l
 RT: 12.26 min Scan# 1698
 Delta R.T. -0.02 min
 Lab File: VW008666.D
 Acq: 14 Feb 2019 15:13

Tgt Ion: 43 Resp: 7113
 Ion Ratio Lower Upper
 43 100
 70 12.7 30.5 45.7#
 55 0.0 17.6 26.4#
 61 1.1 17.9 26.9#

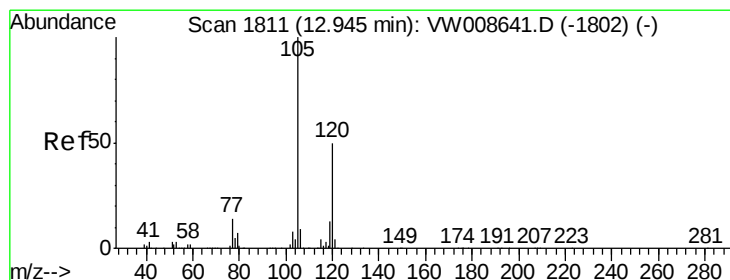
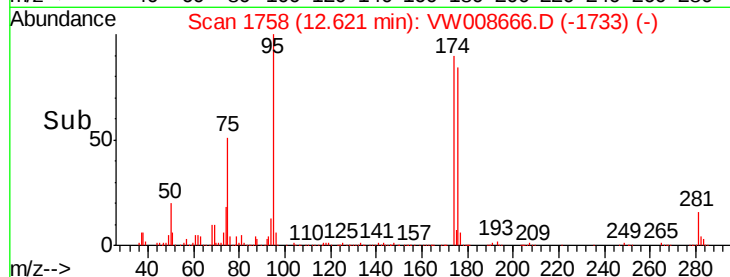
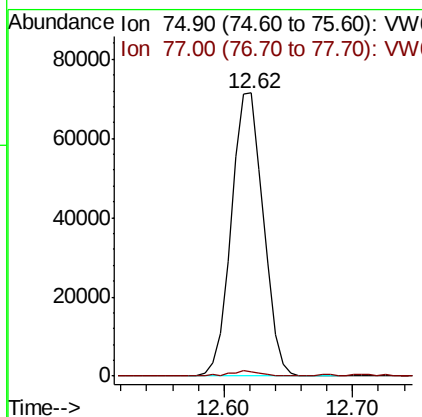
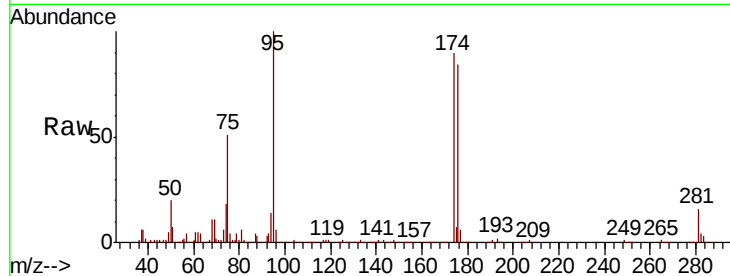




#76
 1,2,3-Trichloropropane
 Concen: 58.561 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008666.D
 Acq: 14 Feb 2019 15:13

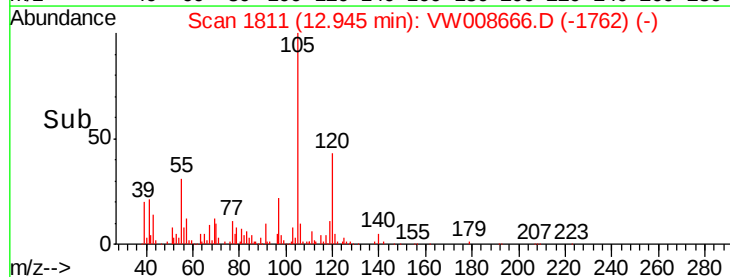
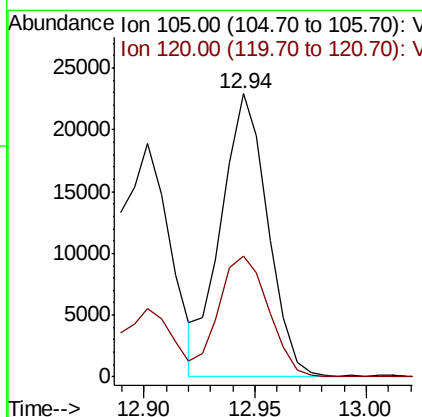
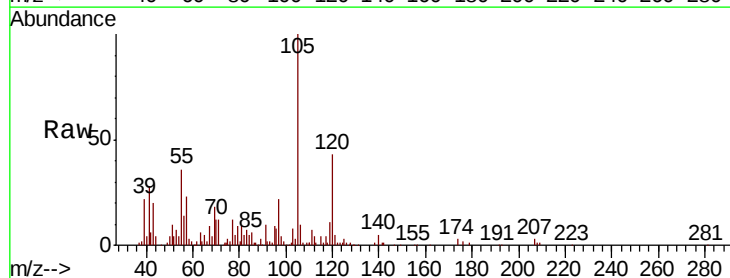
Instrument :
 MSVOA_W
 ClientSampleId :
 OR-01-021319-A

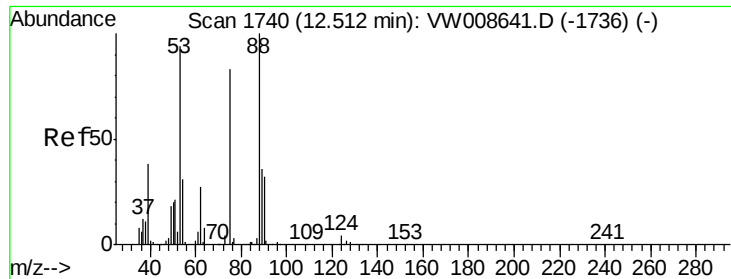
Tgt Ion: 75 Resp: 123601
 Ion Ratio Lower Upper
 75 100
 77 1.8 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 2.530 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW008666.D
 Acq: 14 Feb 2019 15:13

Tgt Ion: 105 Resp: 33452
 Ion Ratio Lower Upper
 105 100
 120 45.8 24.6 73.8

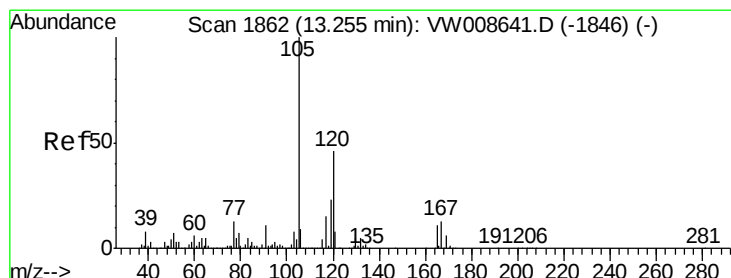
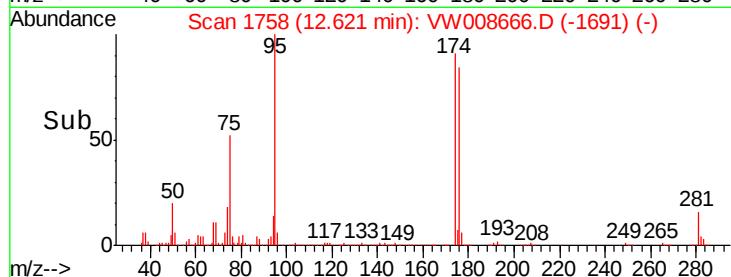
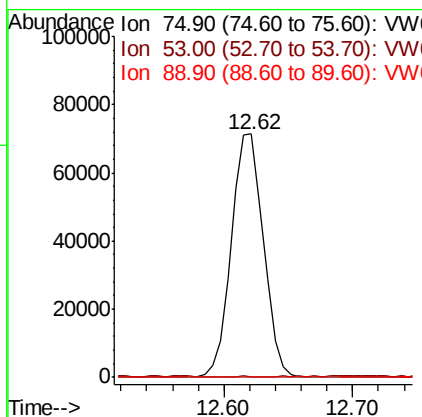
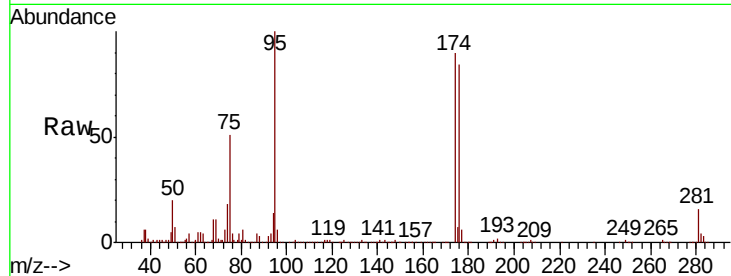




#81
trans-1,4-Dichloro-2-butene
Concen: 125.128 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW008666.D
Acq: 14 Feb 2019 15:13

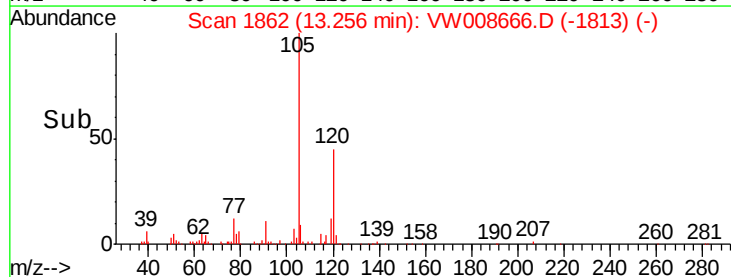
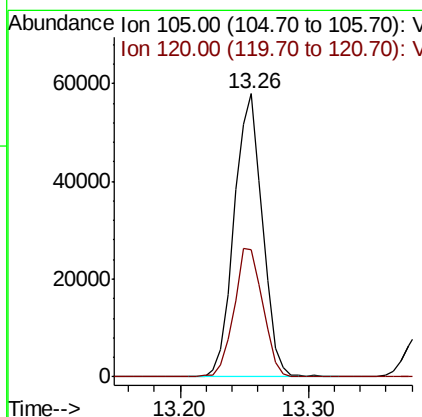
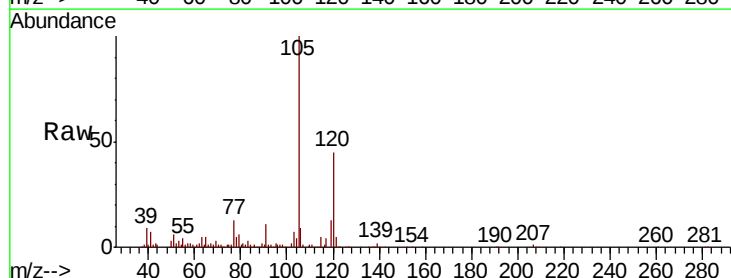
Instrument :
MSVOA_W
ClientSampleId :
OR-01-021319-A

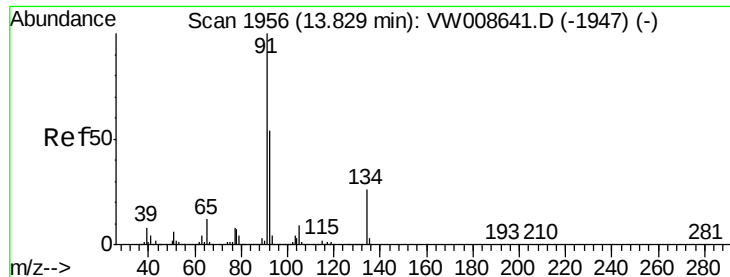
Tgt Ion: 75 Resp: 123601
Ion Ratio Lower Upper
75 100
53 0.1 87.4 131.0#
89 0.2 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 6.485 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW008666.D
Acq: 14 Feb 2019 15:13

Tgt Ion: 105 Resp: 88140
Ion Ratio Lower Upper
105 100
120 46.4 22.9 68.8





#89

n-Butylbenzene

Concen: 1.403 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.01 min

Lab File: VW008666.D

Acq: 14 Feb 2019 15:13

Instrument :

MSVOA_W

ClientSampleId :

OR-01-021319-A

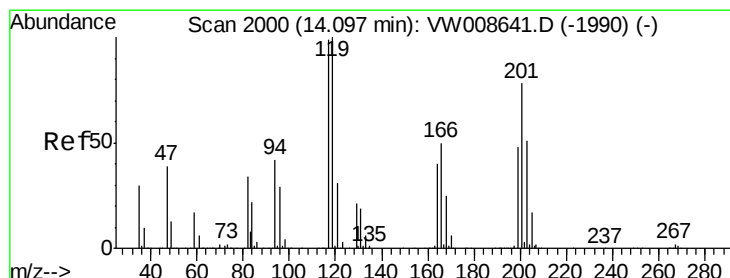
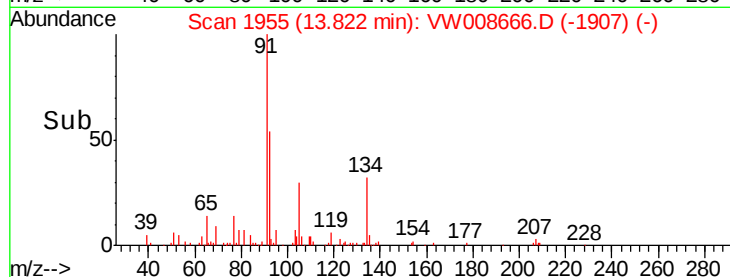
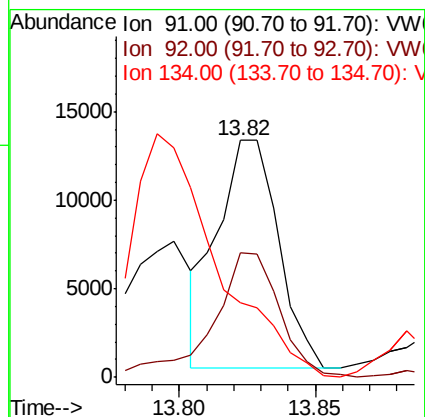
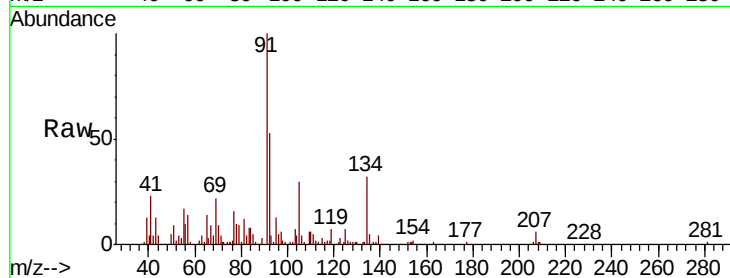
Tgt Ion: 91 Resp: 19947

Ion Ratio Lower Upper

91 100

92 59.8 26.8 80.4

134 0.0 13.0 39.0#



#90

Hexachloroethane

Concen: 2.260 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008666.D

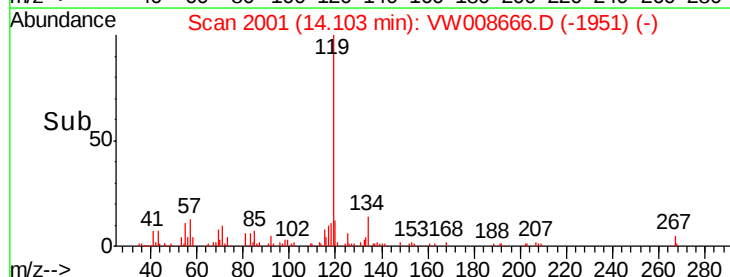
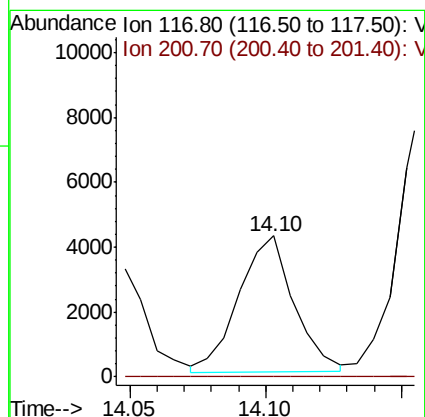
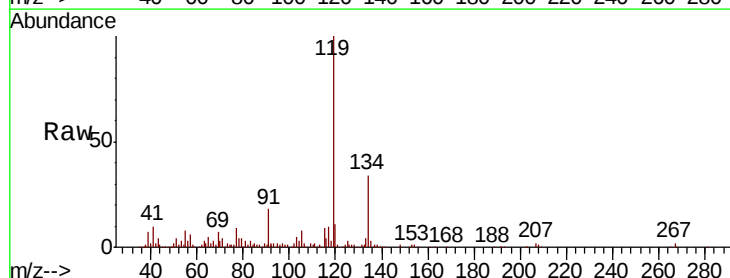
Acq: 14 Feb 2019 15:13

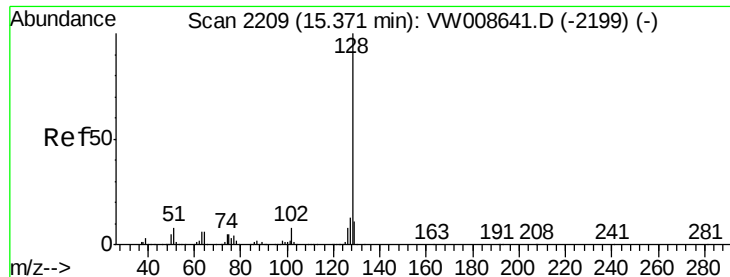
Tgt Ion: 117 Resp: 5906

Ion Ratio Lower Upper

117 100

201 0.0 38.7 116.1#





#95

Naphthalene

Concen: 14.372 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008666.D

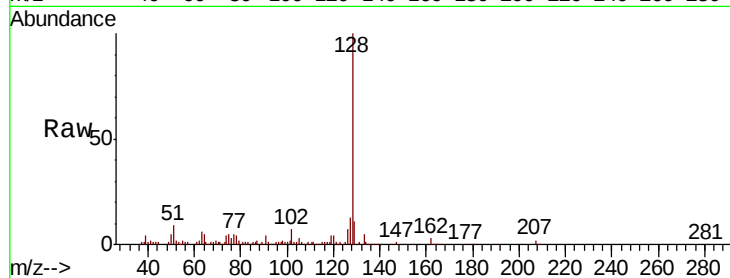
Acq: 14 Feb 2019 15:13

Instrument :

MSVOA_W

ClientSampleId :

OR-01-021319-A



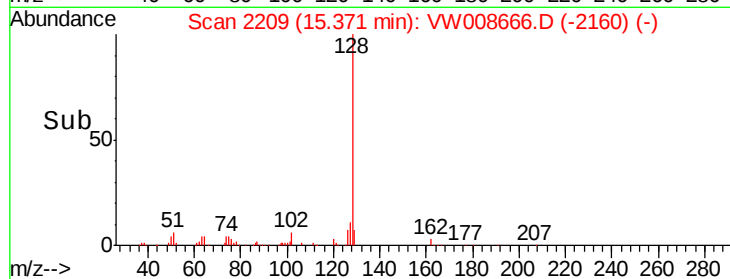
Tgt Ion:128 Resp: 120520

Ion Ratio Lower Upper

128 100

127 13.9 10.9 16.3

129 11.1 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

