

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW020119\
 Data File : VW008480.D
 Acq On : 01 Feb 2019 14:38
 Operator : SY/VA
 Sample : K1011-15RE
 Misc : 6.22G/5ML/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-013119-BRE

Quant Time: Feb 02 00:42:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 25 11:07:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	350199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	571523	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	449277	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	164162	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	188061	54.66	ug/l	0.00
Spiked Amount			Recovery	=	109.32%	
35) Dibromofluoromethane	7.88	113	183292	54.85	ug/l	0.00
Spiked Amount			Recovery	=	109.70%	
50) Toluene-d8	10.32	98	637746	47.59	ug/l	0.00
Spiked Amount			Recovery	=	95.18%	
62) 4-Bromofluorobenzene	12.62	95	195265	37.91	ug/l	0.00
Spiked Amount			Recovery	=	75.82%	

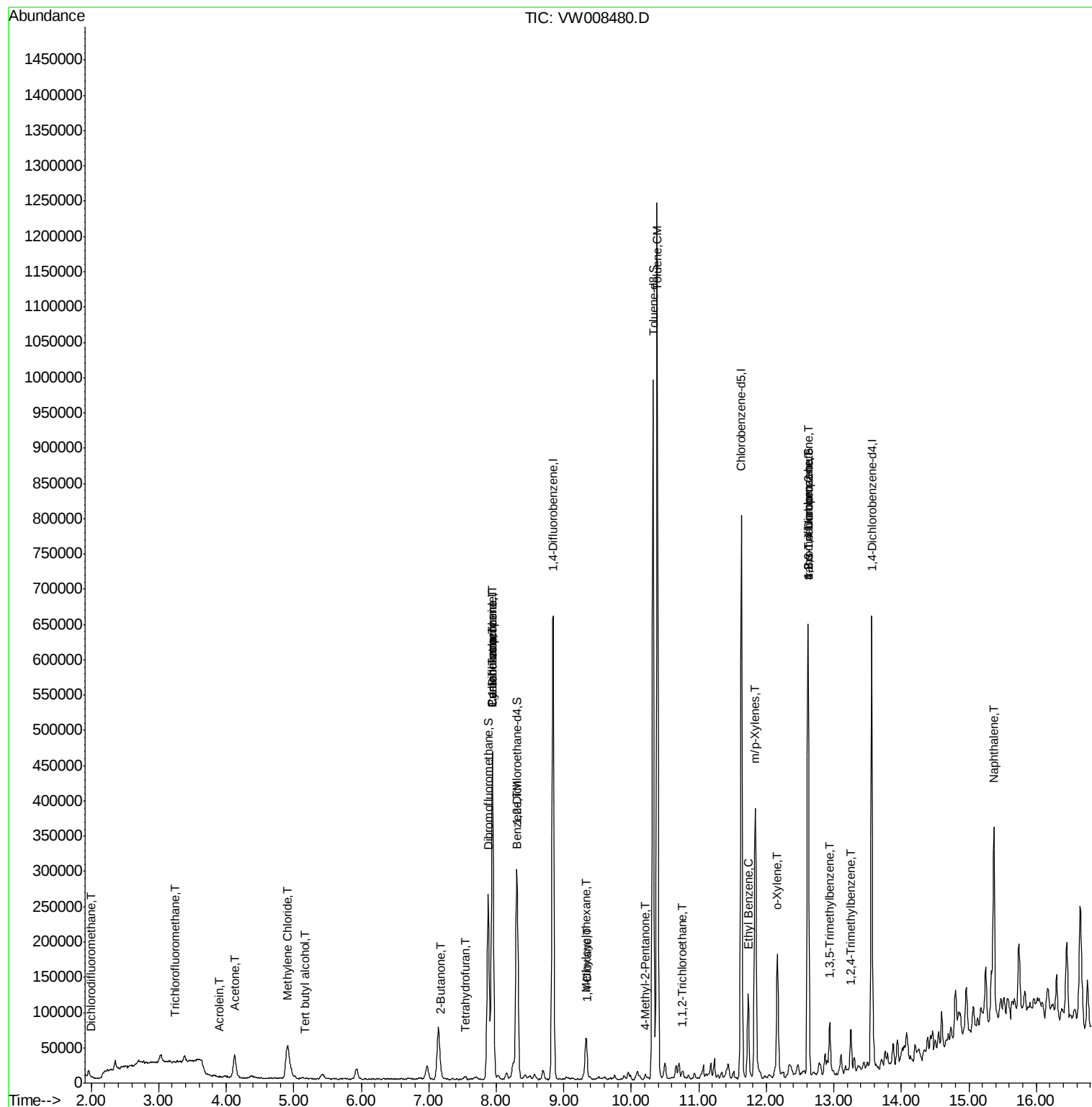
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	63	3.282	ug/l #	41
7) Trichlorofluoromethane	3.25	101	243	4.794	ug/l #	56
11) Tert butyl alcohol	5.18	59	1137	4.105	ug/l #	84
13) Acrolein	3.89	56	490	6.157	ug/l #	44
16) Acetone	4.13	43	56356	72.944	ug/l	97
20) Methylene Chloride	4.91	84	39190	11.006	ug/l	96
25) 2-Butanone	7.18	43	10272	9.572	ug/l #	87
29) Tetrahydrofuran	7.54	42	2755	4.051	ug/l #	85
31) Cyclohexane	7.95	56	21268	3.150	ug/l #	68
36) 1,1-Dichloropropene	7.95	75	25348	4.695	ug/l #	50
38) Carbon Tetrachloride	7.95	117	32839	6.045	ug/l #	17
39) Methylcyclohexane	9.33	83	25081	3.536	ug/l	94
40) Benzene	8.32	78	76915	5.134	ug/l	97
49) 1,4-Dioxane	9.35	88	87	2.679	ug/l #	64
51) 4-Methyl-2-Pentanone	10.21	43	3512	1.433	ug/l	93
52) Toluene	10.38	92	524762	53.065	ug/l	100
55) 1,1,2-Trichloroethane	10.76	97	4647	1.744	ug/l #	20
67) Ethyl Benzene	11.73	91	80046	4.748	ug/l	99
68) m/p-Xylenes	11.84	106	120800	18.468	ug/l	94
69) o-Xylene	12.16	106	45309	7.290	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	97958	68.633	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	15541	1.519	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.62	75	97958	135.556	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.26	105	34769	3.344	ug/l	99
95) Naphthalene	15.37	128	239215	39.972	ug/l	98

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

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Quant Time: Feb 02 00:42:31 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 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: VW008480.D

Acq: 01 Feb 2019 14:38

Instrument :

MSVOA_W

ClientSampleId :

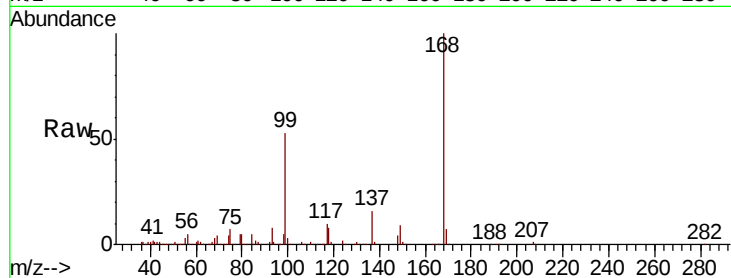
OR-02-013119-BRE

Tgt Ion:168 Resp: 350199

Ion Ratio Lower Upper

168 100

99 53.3 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

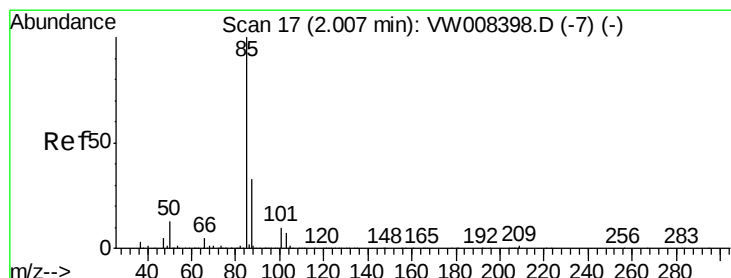
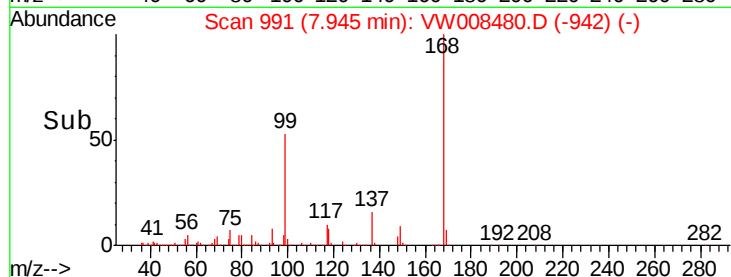
100000

50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 3.282 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW008480.D

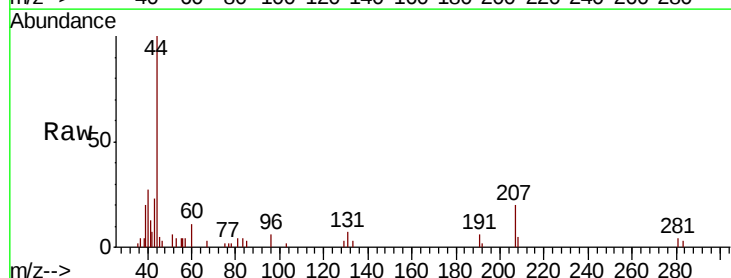
Acq: 01 Feb 2019 14:38

Tgt Ion: 85 Resp: 63

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

100

80

60

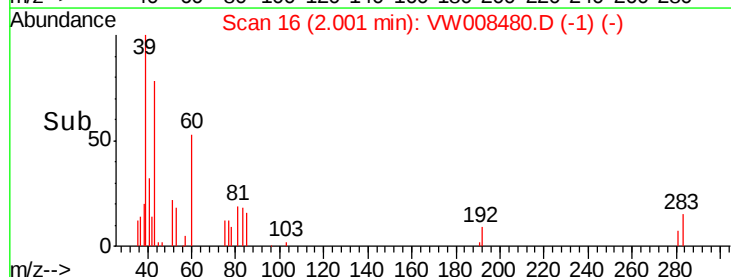
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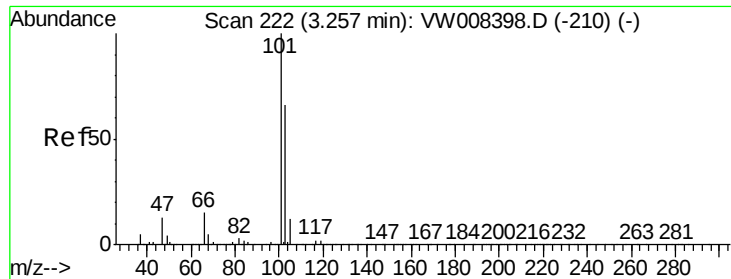
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0

1.98 2.00 2.02

Time-->



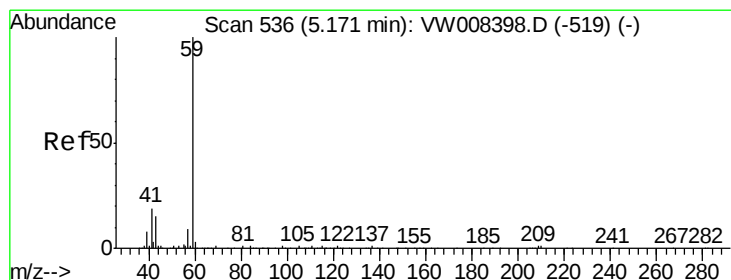
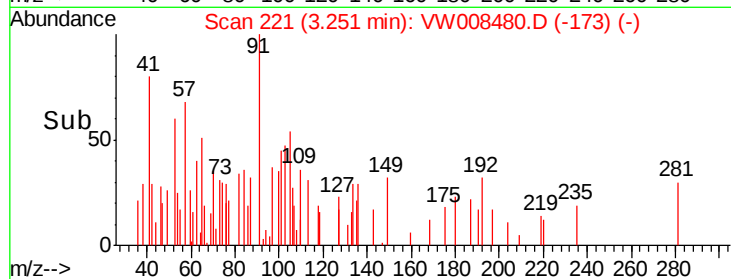
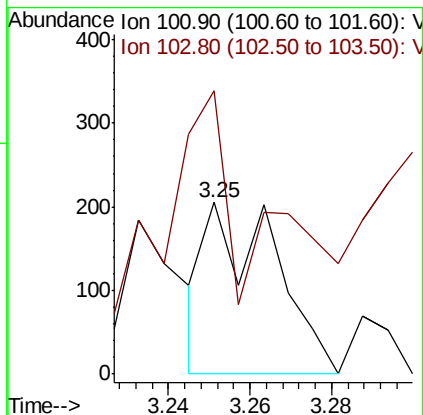
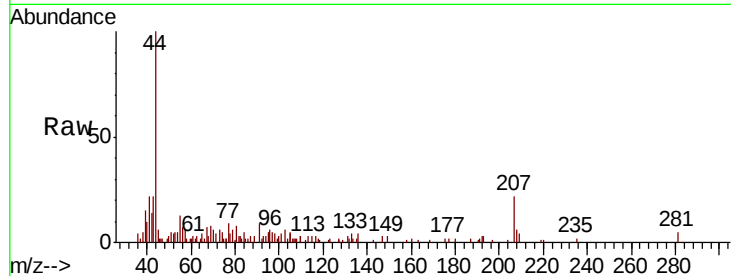


#7

Trichlorofluoromethane
 Concen: 4.794 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW008480.D
 Acq: 01 Feb 2019 14:38

Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-013119-BRE

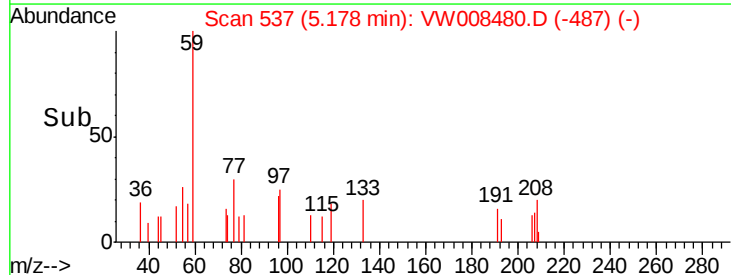
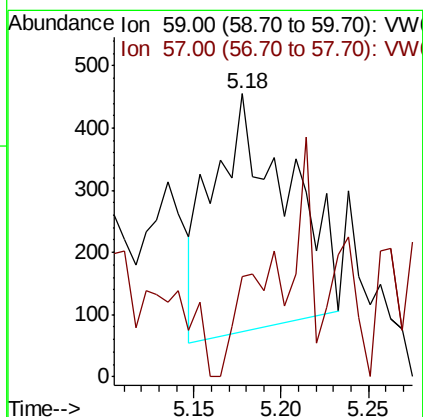
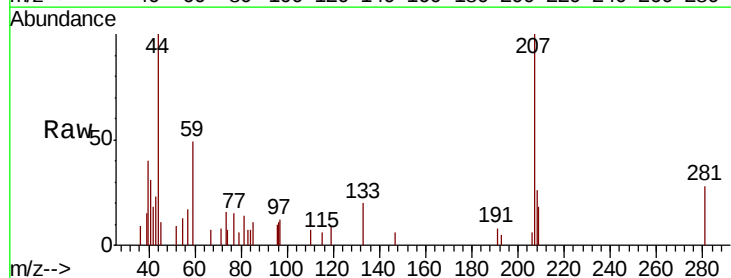
Tgt Ion: 101 Resp: 243
 Ion Ratio Lower Upper
 101 100
 103 100.5 52.5 78.7#

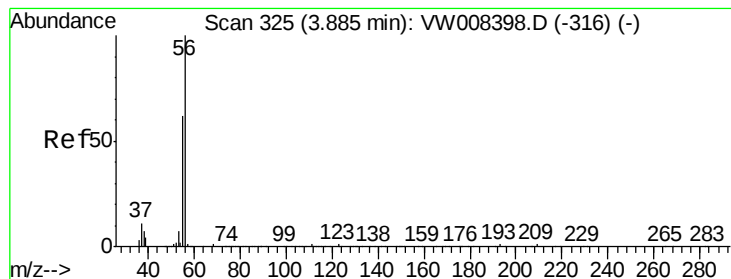


#11

Tert butyl alcohol
 Concen: 4.105 ug/l
 RT: 5.18 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VW008480.D
 Acq: 01 Feb 2019 14:38

Tgt Ion: 59 Resp: 1137
 Ion Ratio Lower Upper
 59 100
 57 17.6 9.3 13.9#





#13

Acrolein

Concen: 6.157 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

Instrument :

MSVOA_W

ClientSampleId :

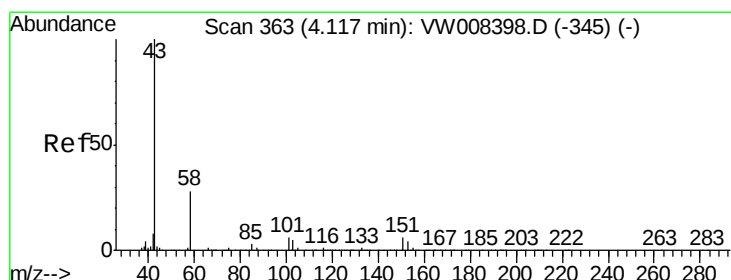
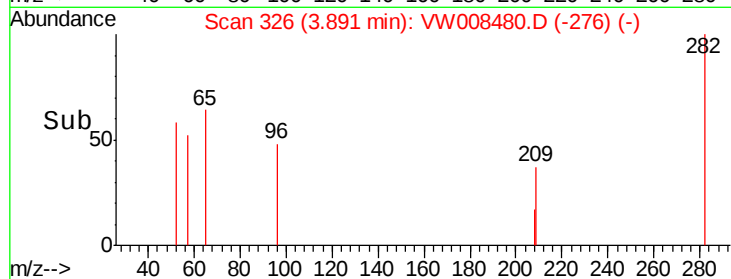
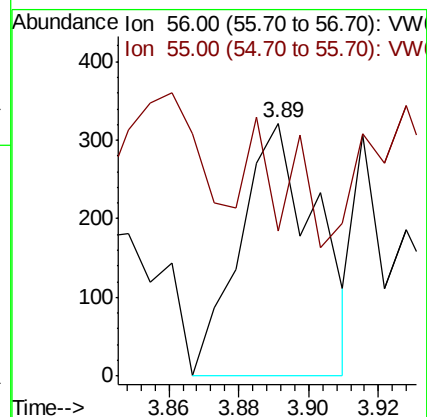
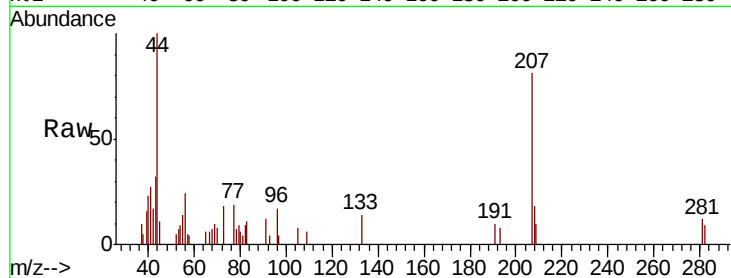
OR-02-013119-BRE

Tgt Ion: 56 Resp: 490

Ion Ratio Lower Upper

56 100

55 24.5 56.7 85.1#



#16

Acetone

Concen: 72.944 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008480.D

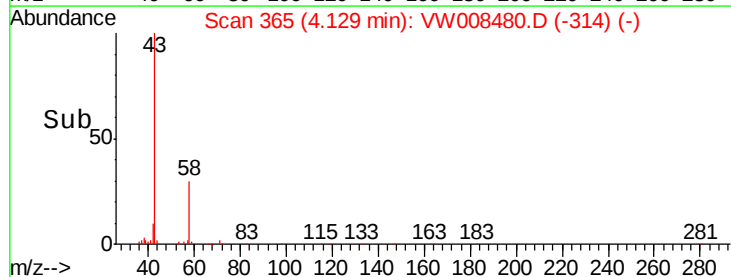
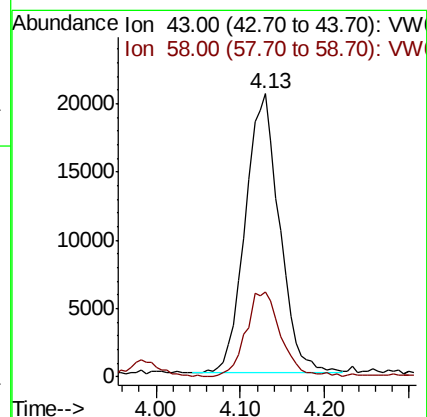
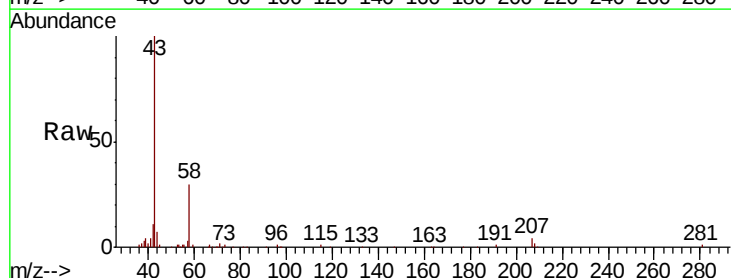
Acq: 01 Feb 2019 14:38

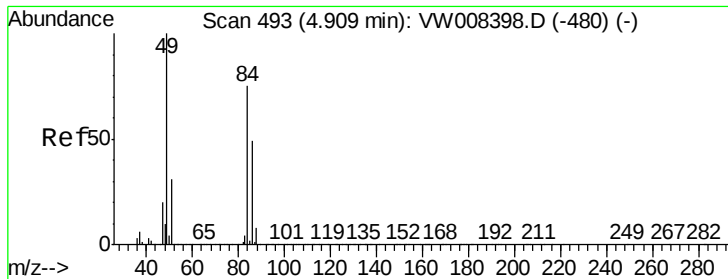
Tgt Ion: 43 Resp: 56356

Ion Ratio Lower Upper

43 100

58 30.0 22.6 34.0

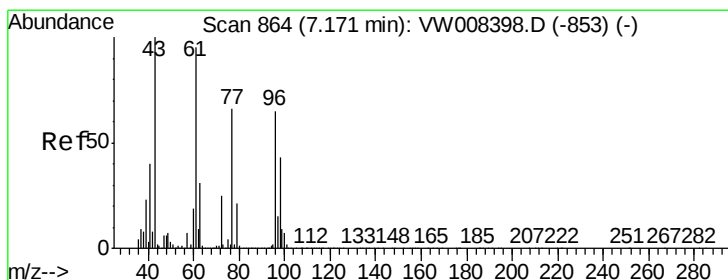
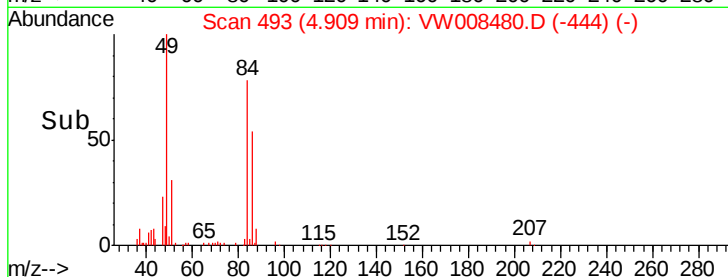
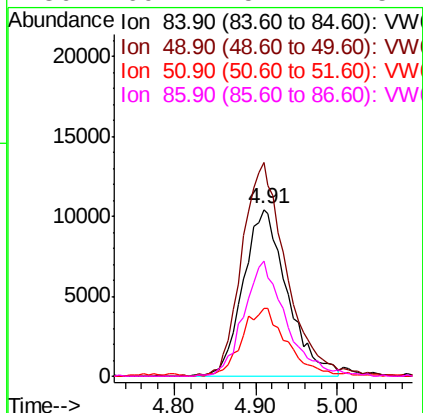
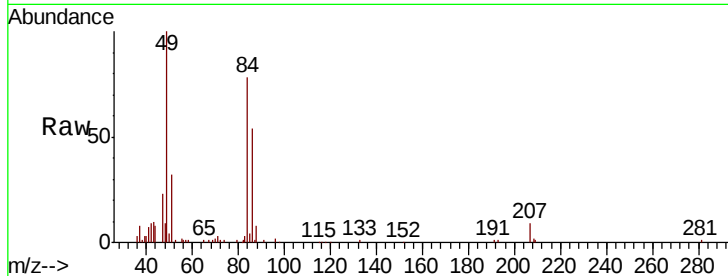




#20
Methylene Chloride
Concen: 11.006 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW008480.D
Acq: 01 Feb 2019 14:38

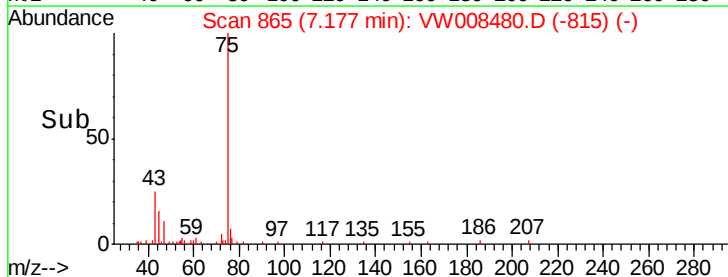
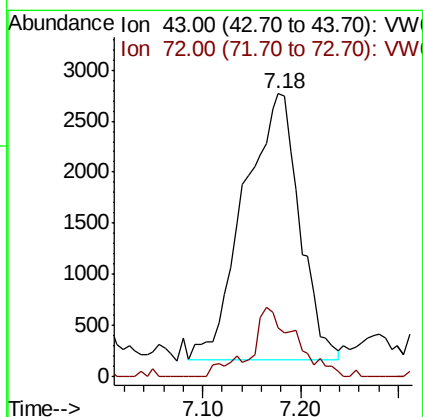
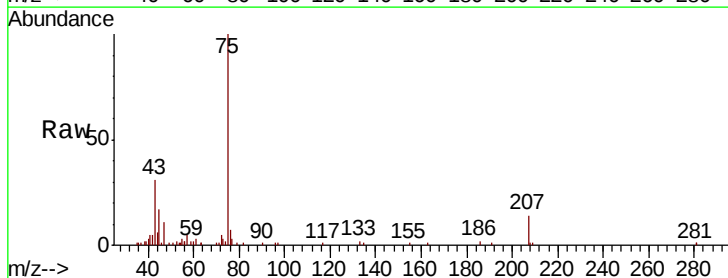
Instrument :
MSVOA_W
ClientSampleId :
OR-02-013119-BRE

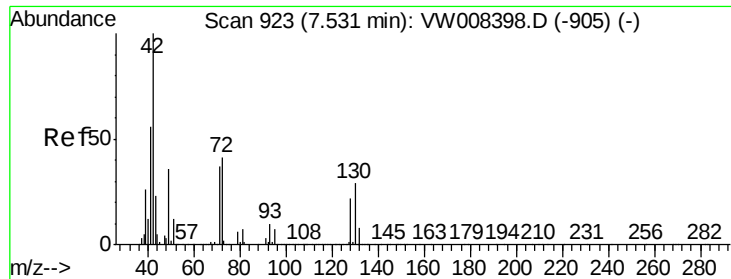
Tgt Ion:	84	Resp:	39190
Ion	Ratio	Lower	Upper
84	100		
49	128.0	106.8	160.2
51	40.9	32.9	49.3
86	69.1	52.2	78.2



#25
2-Butanone
Concen: 9.572 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW008480.D
Acq: 01 Feb 2019 14:38

Tgt Ion:	43	Resp:	10272
Ion	Ratio	Lower	Upper
43	100		
72	18.6	20.1	30.1#





#29

Tetrahydrofuran

Concen: 4.051 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

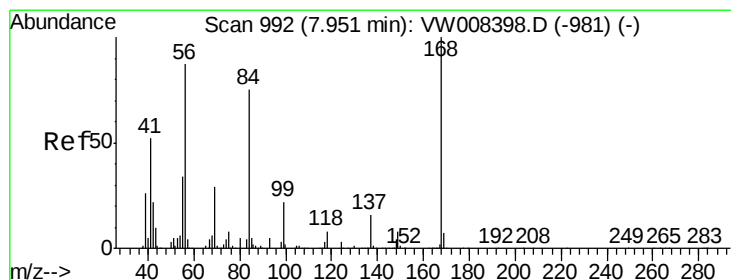
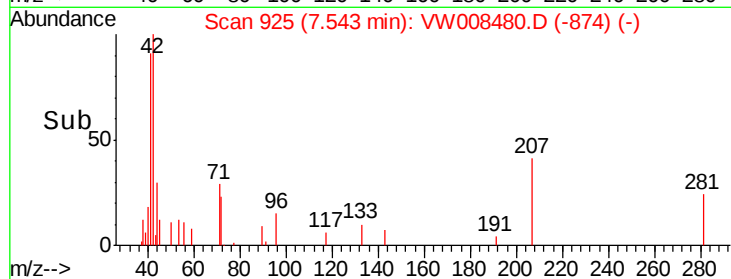
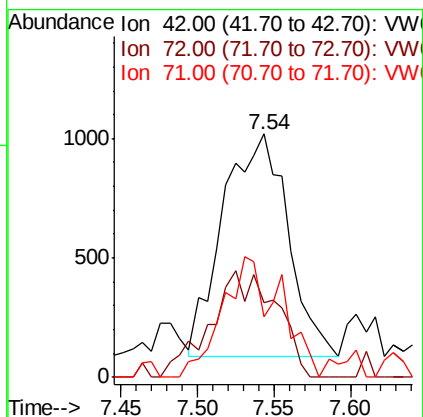
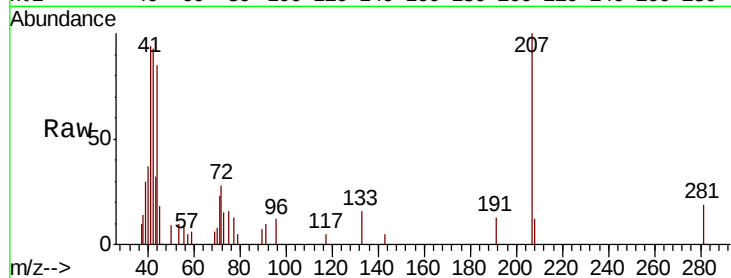
Instrument :

MSVOA_W

ClientSampleId :

OR-02-013119-BRE

Tgt Ion:	42	Resp:	2755
Ion	Ratio	Lower	Upper
42	100		
72	48.2	31.9	47.9#
71	47.8	29.9	44.9#



#31

Cyclohexane

Concen: 3.150 ug/l

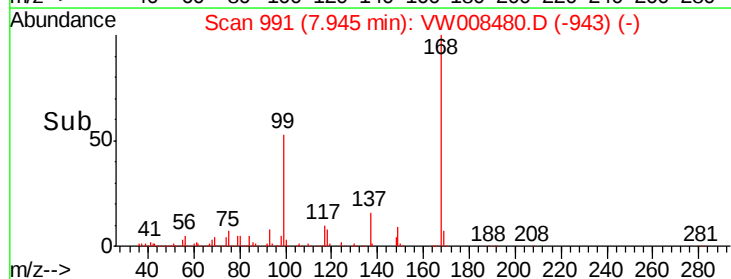
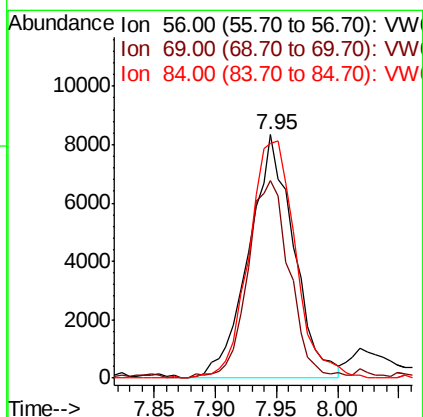
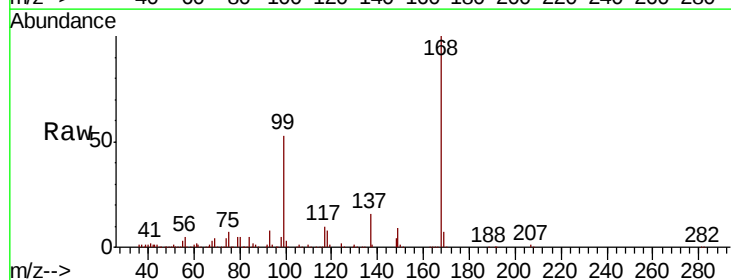
RT: 7.95 min Scan# 991

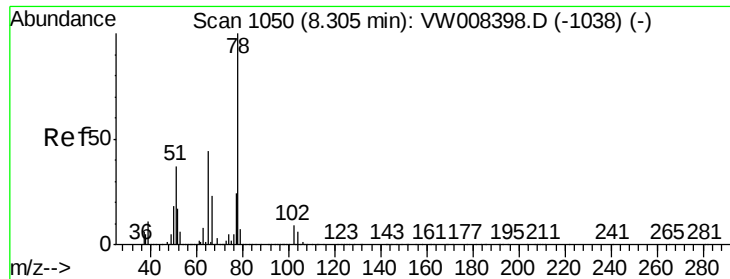
Delta R.T. -0.01 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

Tgt Ion:	56	Resp:	21268
Ion	Ratio	Lower	Upper
56	100		
69	81.2	26.4	39.6#
84	96.6	69.1	103.7





#33

1,2-Dichloroethane-d4

Concen: 54.663 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

Instrument :

MSVOA_W

ClientSampleId :

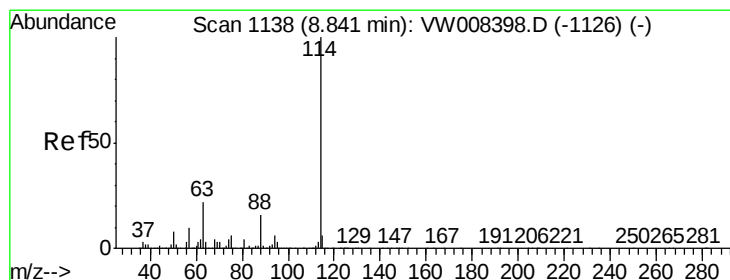
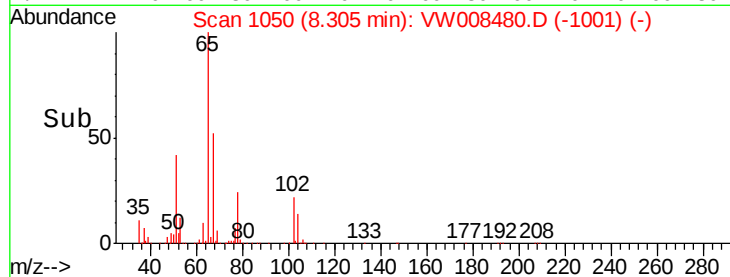
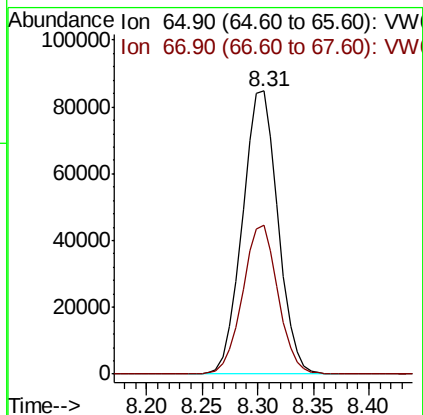
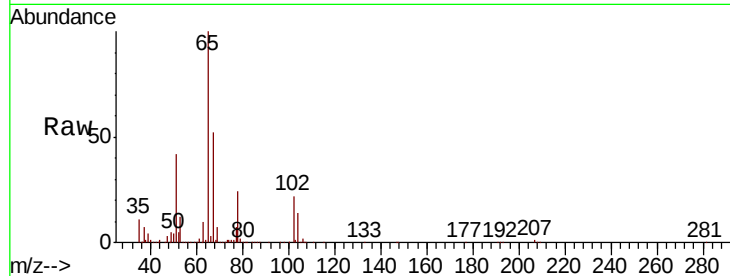
OR-02-013119-BRE

Tgt Ion: 65 Resp: 188061

Ion Ratio Lower Upper

65 100

67 52.4 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

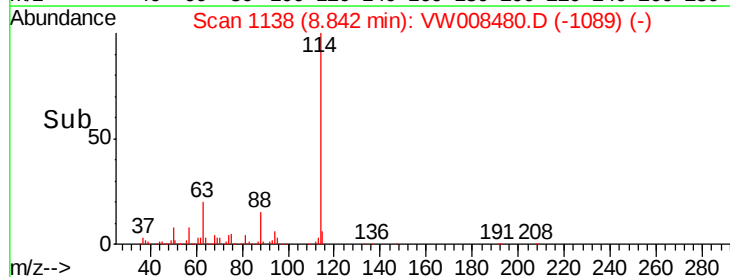
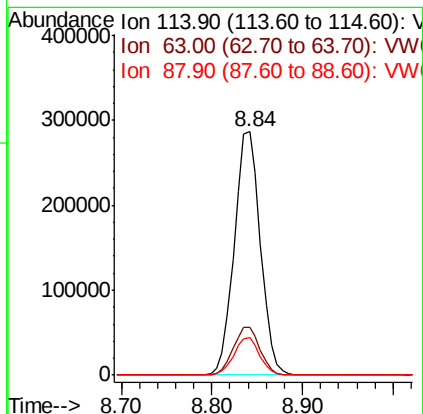
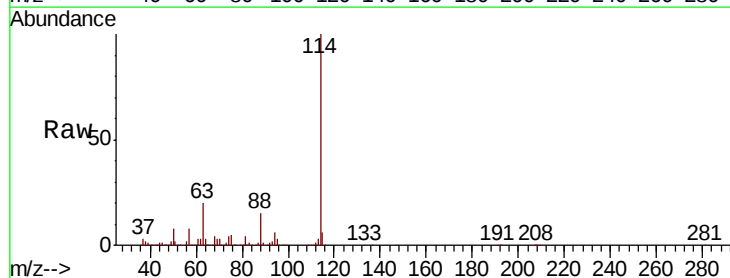
Tgt Ion: 114 Resp: 571523

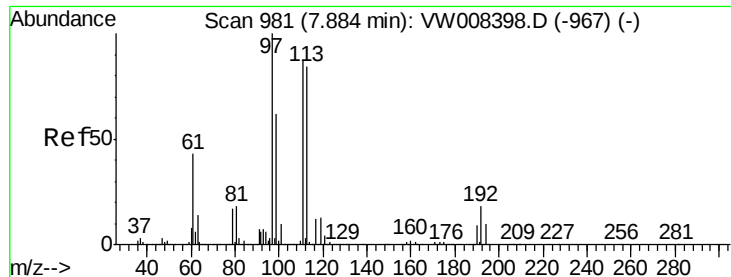
Ion Ratio Lower Upper

114 100

63 19.8 0.0 43.6

88 15.2 0.0 31.8

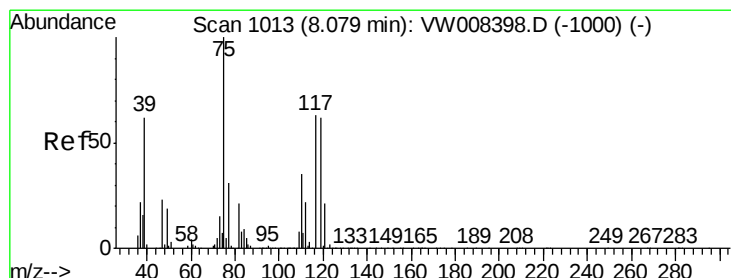
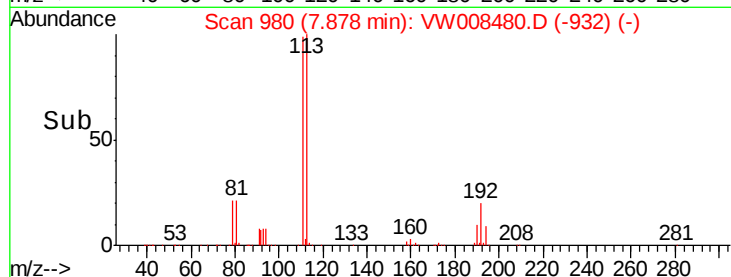
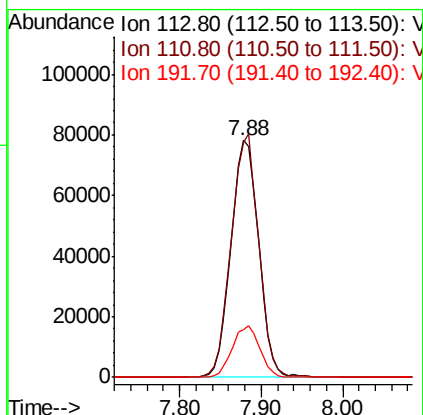
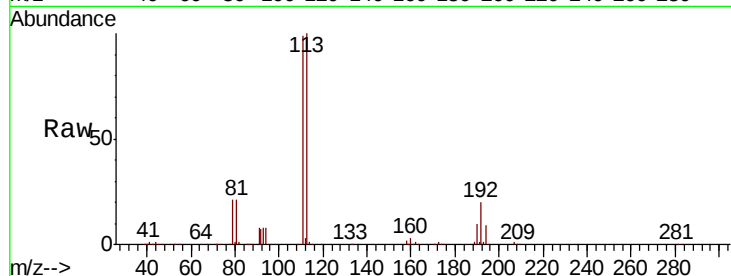




#35
 Dibromofluoromethane
 Concen: 54.847 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW008480.D
 Acq: 01 Feb 2019 14:38

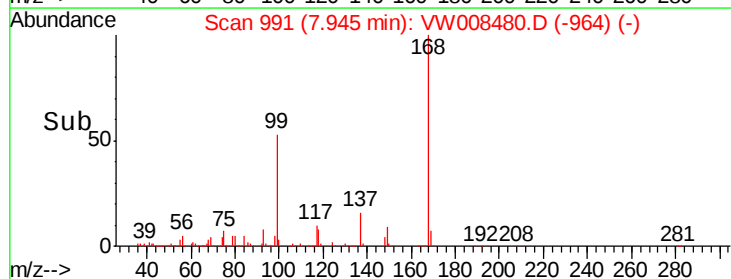
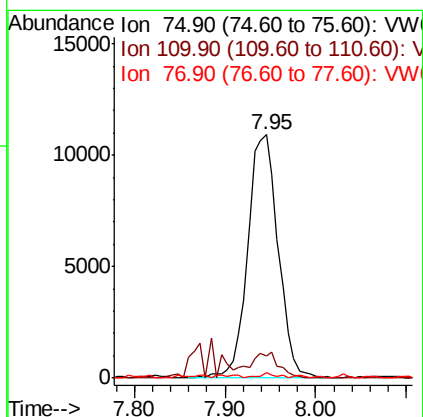
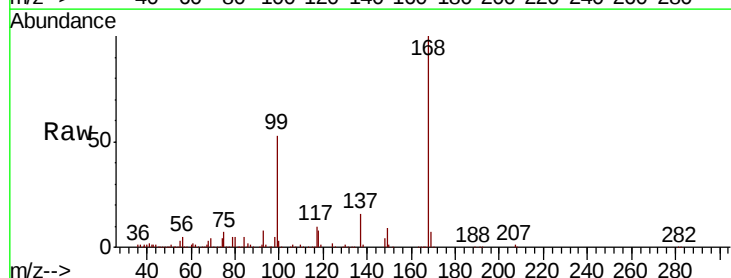
Instrument :
 MSVOA_W
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 OR-02-013119-BRE

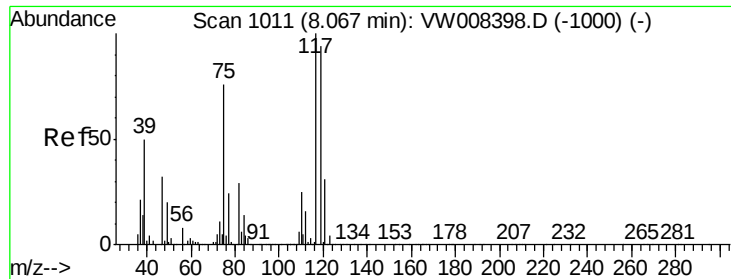
Tgt Ion: 113 Resp: 183292
 Ion Ratio Lower Upper
 113 100
 111 101.5 81.0 121.4
 192 21.7 16.8 25.2



#36
 1,1-Dichloropropene
 Concen: 4.695 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008480.D
 Acq: 01 Feb 2019 14:38

Tgt Ion: 75 Resp: 25348
 Ion Ratio Lower Upper
 75 100
 110 9.6 17.3 52.0#
 77 0.0 24.7 37.1#

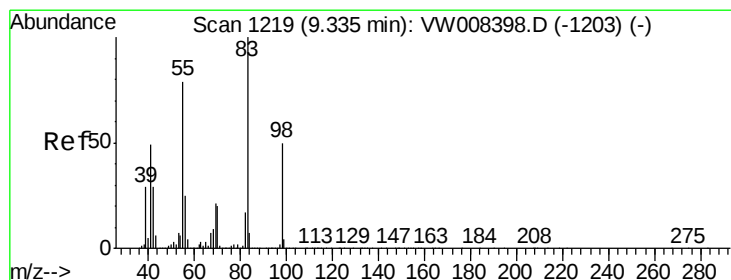
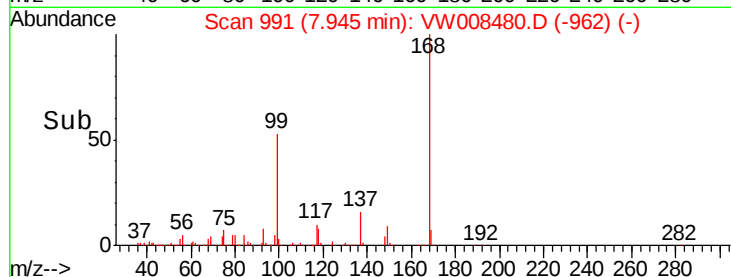
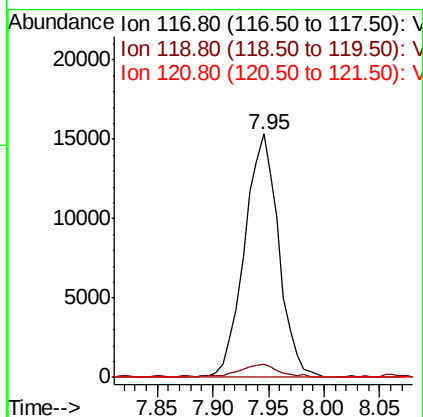
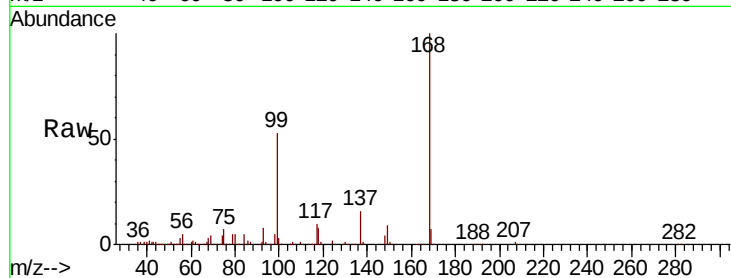




#38
Carbon Tetrachloride
Concen: 6.045 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW008480.D
Acq: 01 Feb 2019 14:38

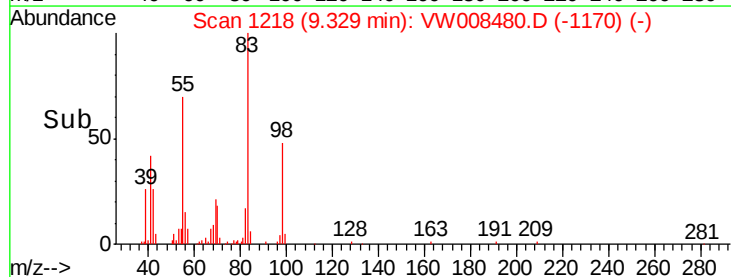
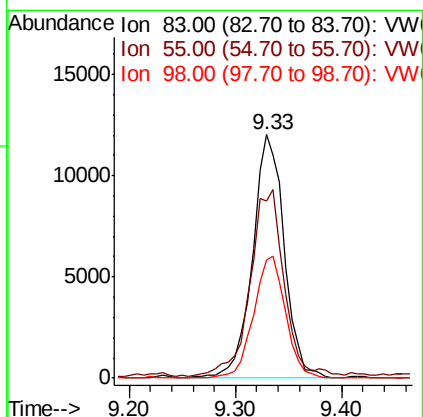
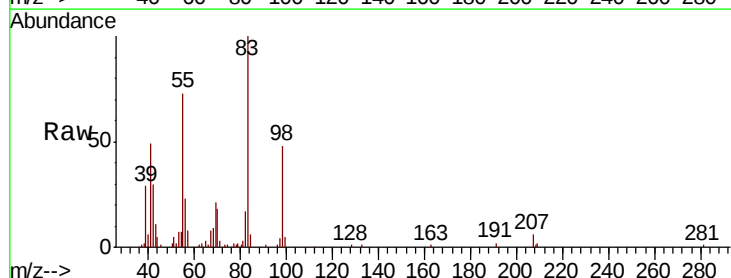
Instrument :
MSVOA_W
ClientSampleId :
OR-02-013119-BRE

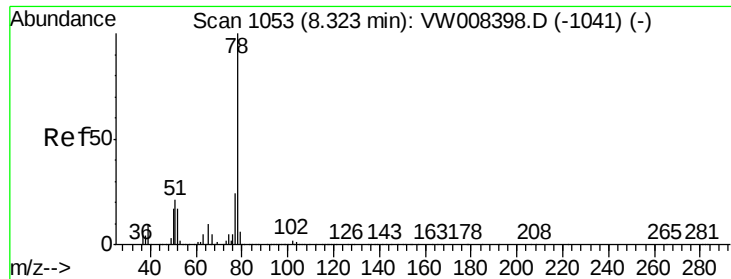
Tgt Ion: 117 Resp: 32839
Ion Ratio Lower Upper
117 100
119 5.4 75.0 112.4#
121 0.0 24.9 37.3#



#39
Methylcyclohexane
Concen: 3.536 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW008480.D
Acq: 01 Feb 2019 14:38

Tgt Ion: 83 Resp: 25081
Ion Ratio Lower Upper
83 100
55 71.8 63.3 94.9
98 48.3 39.7 59.5





#40

Benzene

Concen: 5.134 ug/l

RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

Instrument :

MSVOA_W

ClientSampleId :

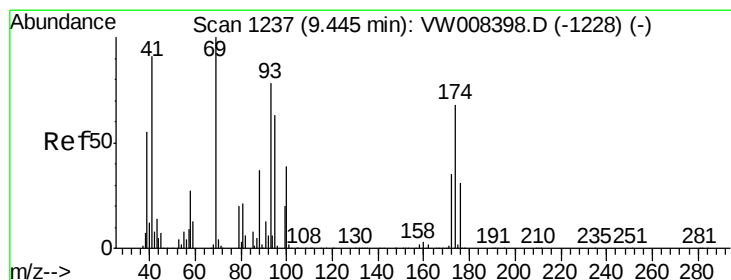
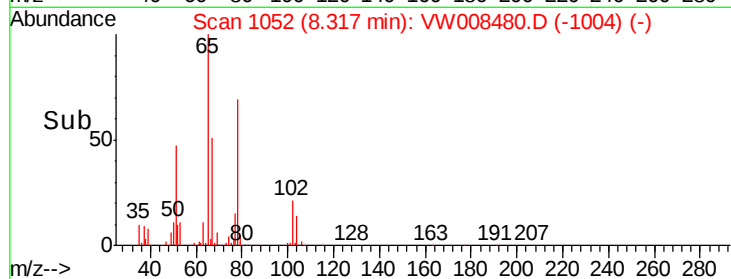
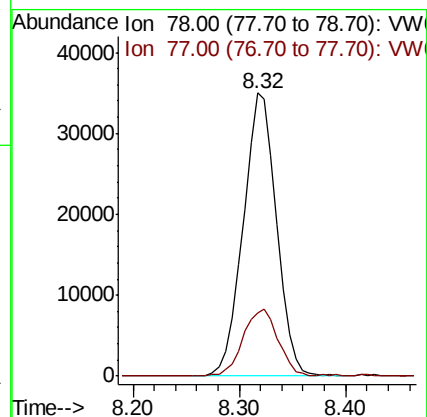
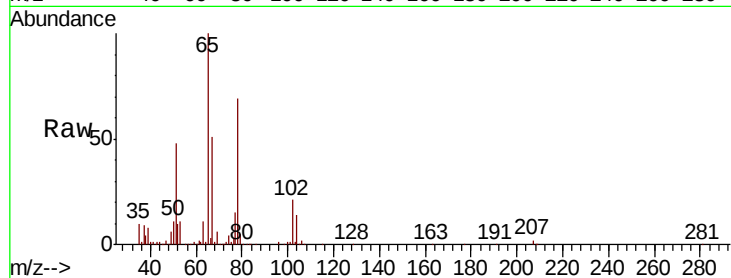
OR-02-013119-BRE

Tgt Ion: 78 Resp: 76915

Ion Ratio Lower Upper

78 100

77 22.2 19.0 28.6



#49

1,4-Dioxane

Concen: 2.679 ug/l

RT: 9.35 min Scan# 1221

Delta R.T. -0.10 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

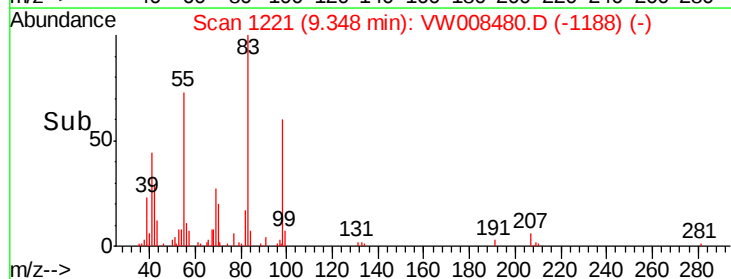
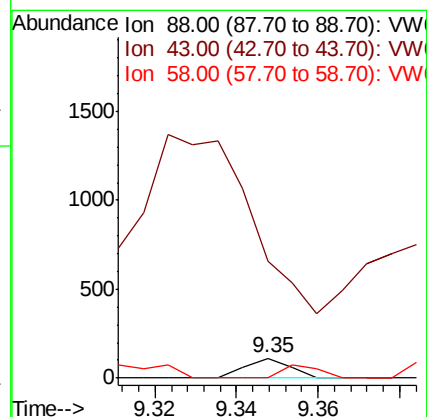
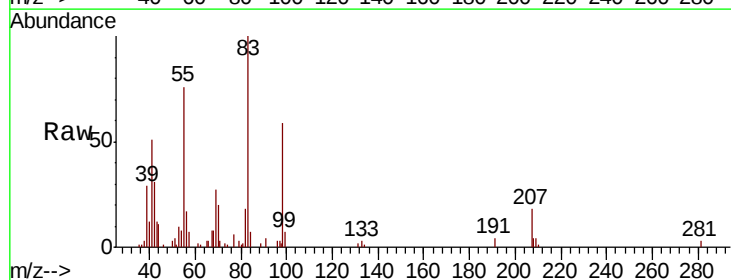
Tgt Ion: 88 Resp: 87

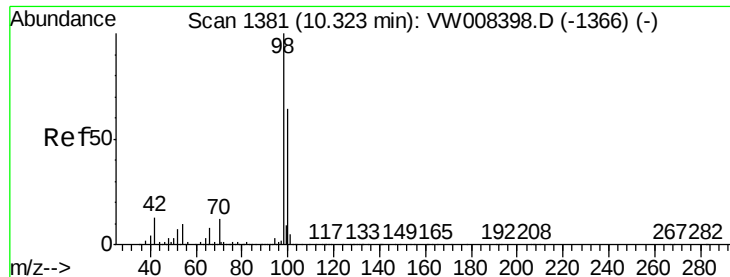
Ion Ratio Lower Upper

88 100

43 0.0 29.0 43.4#

58 51.7 56.4 84.6#





#50

Toluene-d8

Concen: 47.589 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

Instrument :

MSVOA_W

ClientSampleId :

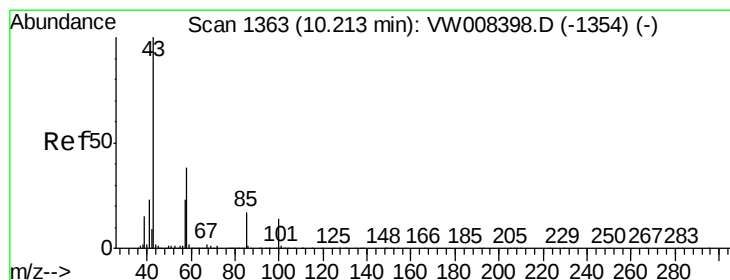
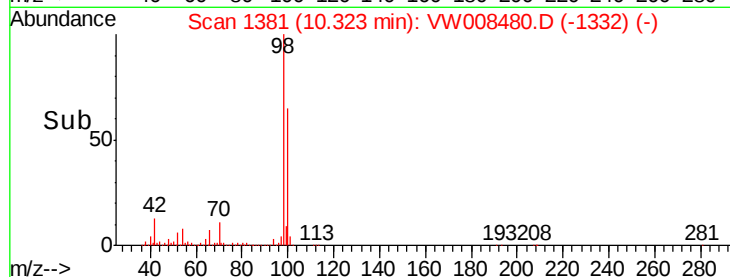
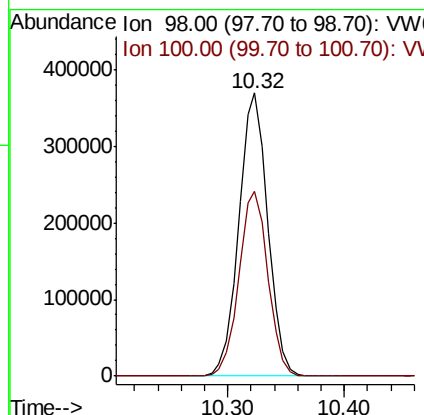
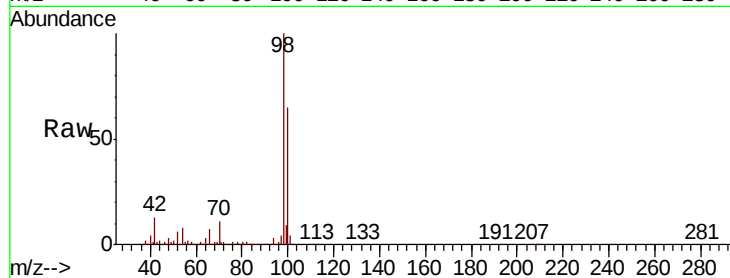
OR-02-013119-BRE

Tgt Ion: 98 Resp: 637746

Ion Ratio Lower Upper

98 100

100 65.7 52.6 78.8



#51

4-Methyl-2-Pentanone

Concen: 1.433 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW008480.D

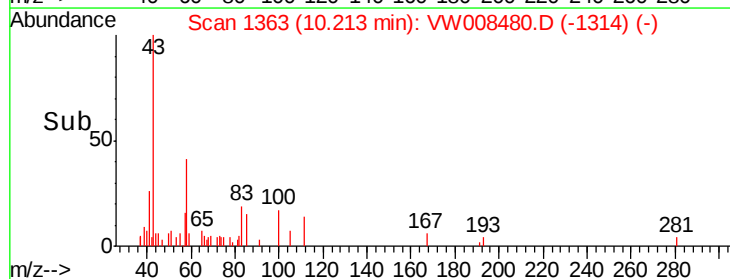
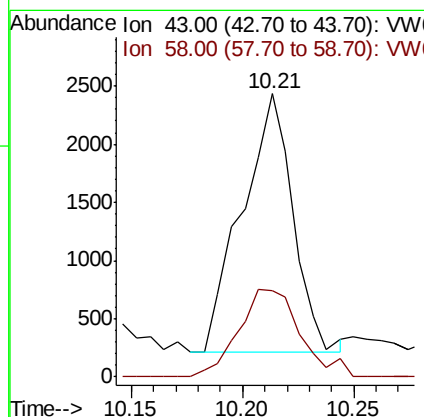
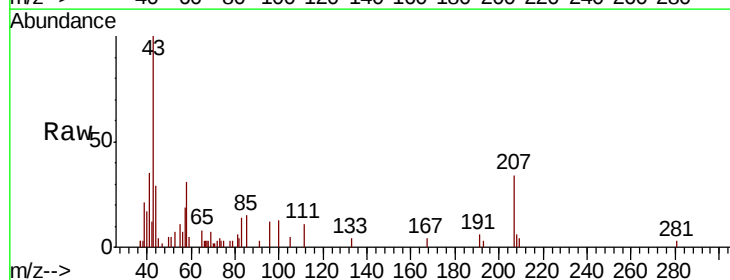
Acq: 01 Feb 2019 14:38

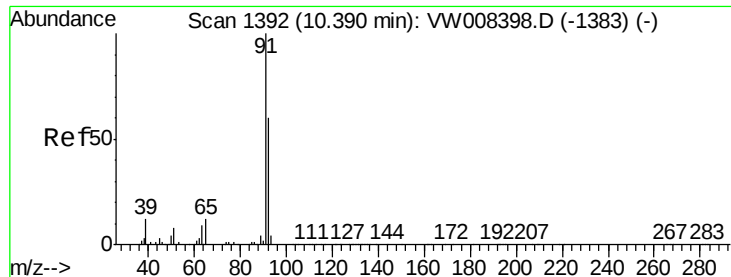
Tgt Ion: 43 Resp: 3512

Ion Ratio Lower Upper

43 100

58 41.3 29.7 44.5





#52

Toluene

Concen: 53.065 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

Instrument :

MSVOA_W

ClientSampleId :

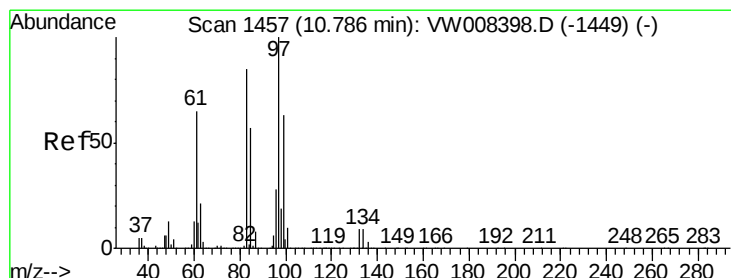
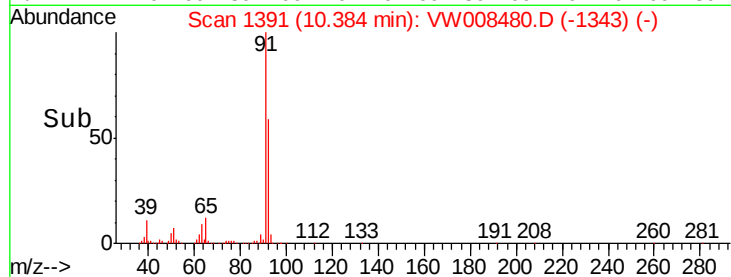
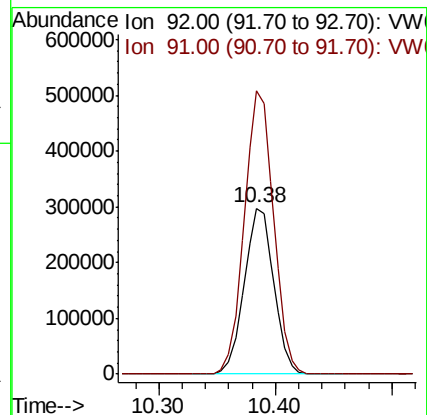
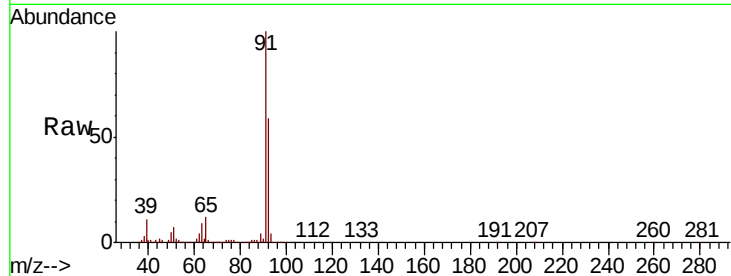
OR-02-013119-BRE

Tgt Ion: 92 Resp: 524762

Ion Ratio Lower Upper

92 100

91 169.9 135.5 203.3



#55

1,1,2-Trichloroethane

Concen: 1.744 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

Tgt Ion: 97 Resp: 4647

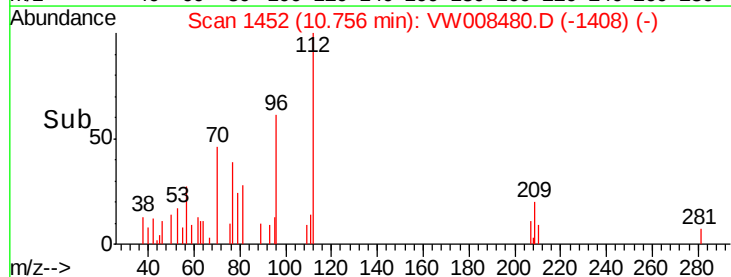
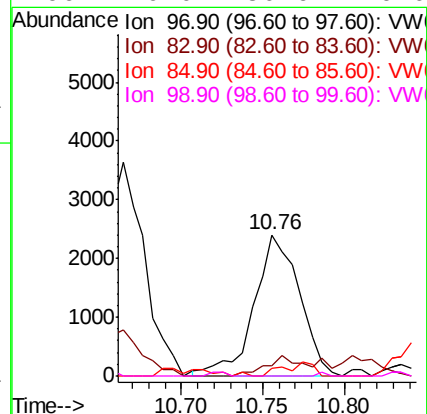
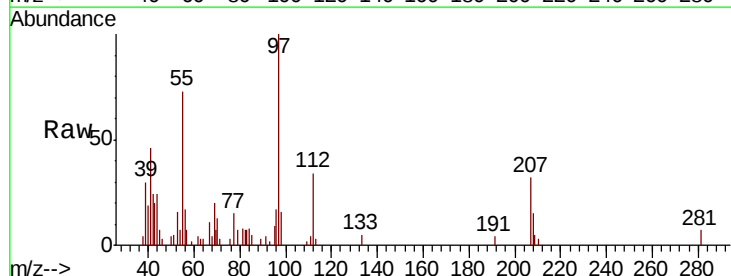
Ion Ratio Lower Upper

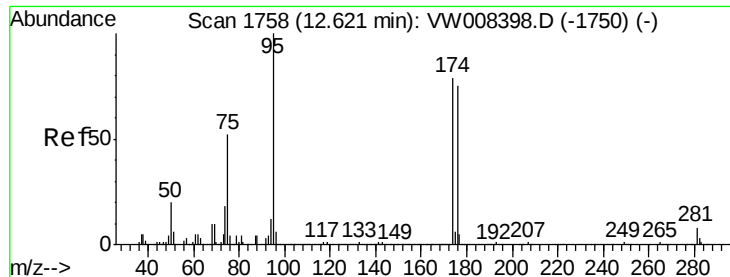
97 100

83 7.3 68.4 102.6#

85 5.2 45.3 67.9#

99 0.0 50.6 76.0#

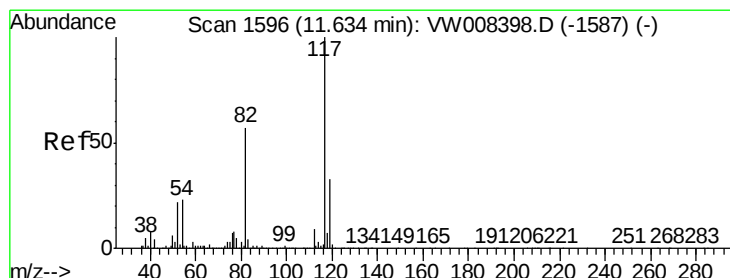
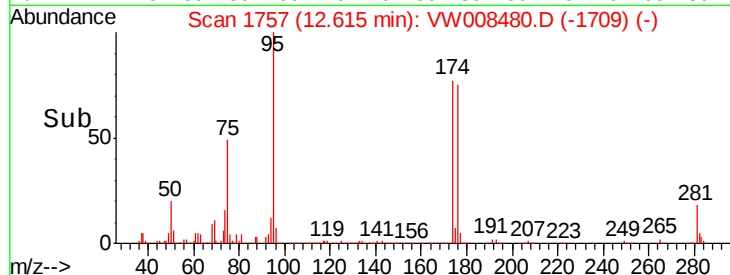
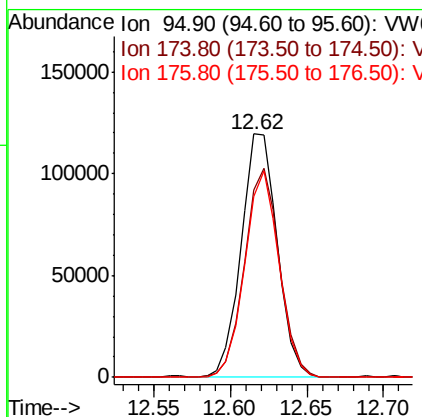
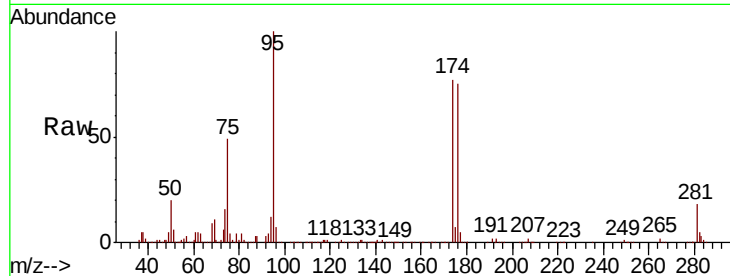




#62
4-Bromofluorobenzene
Concen: 37.907 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW008480.D
Acq: 01 Feb 2019 14:38

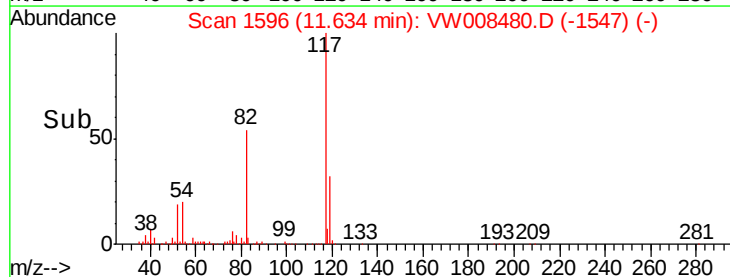
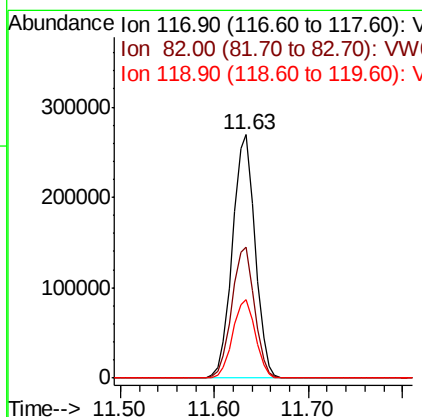
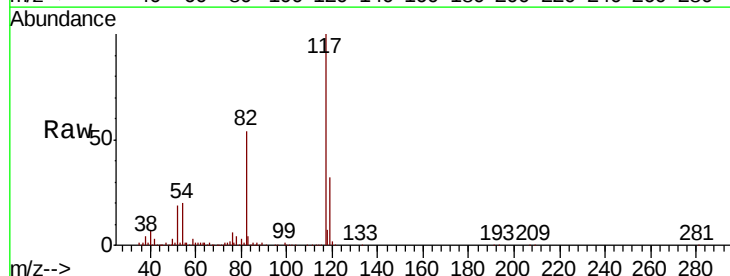
Instrument :
MSVOA_W
ClientSampleId :
OR-02-013119-BRE

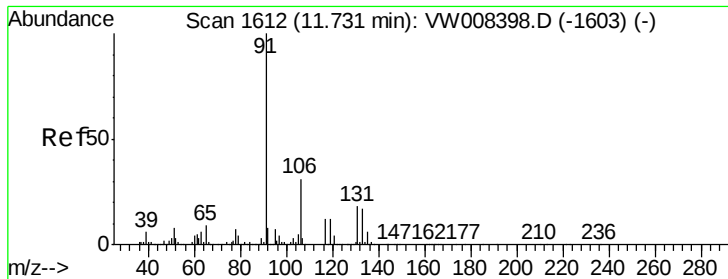
Tgt Ion:	95	Resp:	195265
Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	157.6
176	81.2	0.0	151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008480.D
Acq: 01 Feb 2019 14:38

Tgt Ion:	117	Resp:	449277
Ion	Ratio	Lower	Upper
117	100		
82	53.6	45.4	68.0
119	32.0	26.2	39.4





#67

Ethyl Benzene

Concen: 4.748 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

Instrument :

MSVOA_W

ClientSampleId :

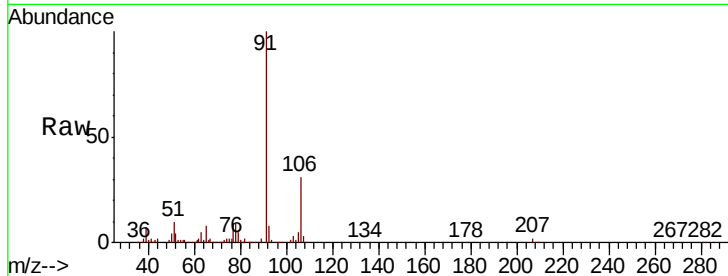
OR-02-013119-BRE

Tgt Ion: 91 Resp: 80046

Ion Ratio Lower Upper

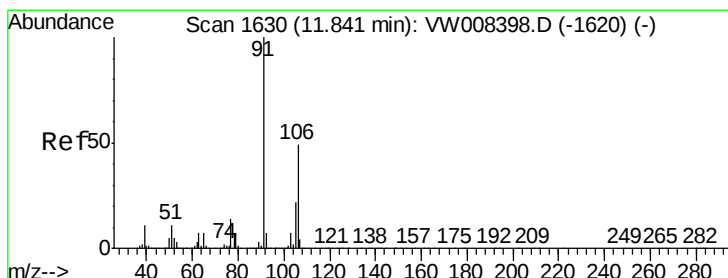
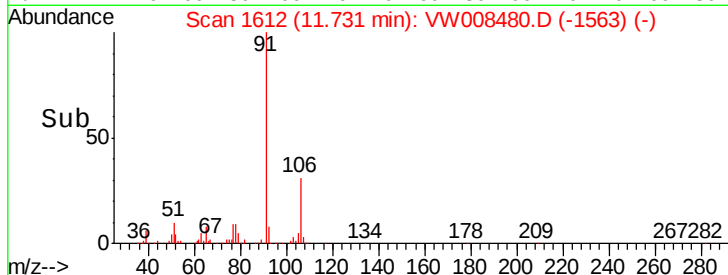
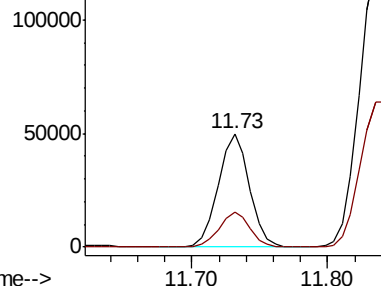
91 100

106 31.2 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 18.468 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW008480.D

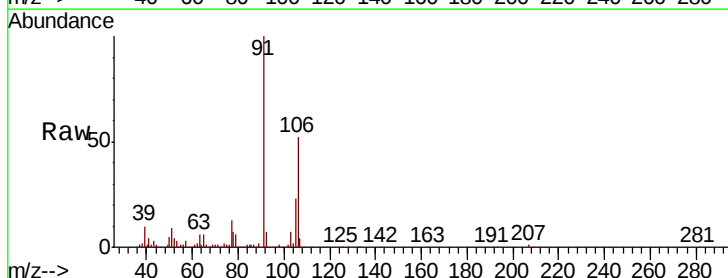
Acq: 01 Feb 2019 14:38

Tgt Ion: 106 Resp: 120800

Ion Ratio Lower Upper

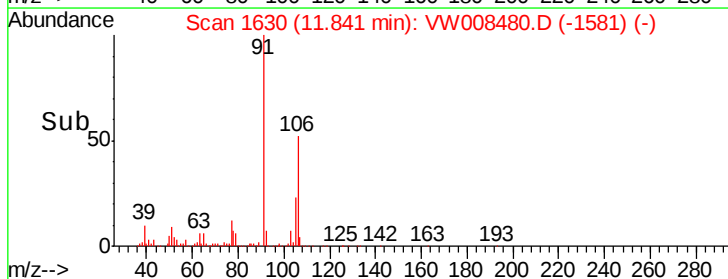
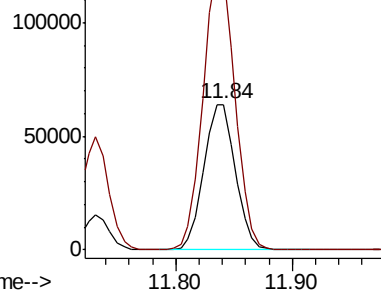
106 100

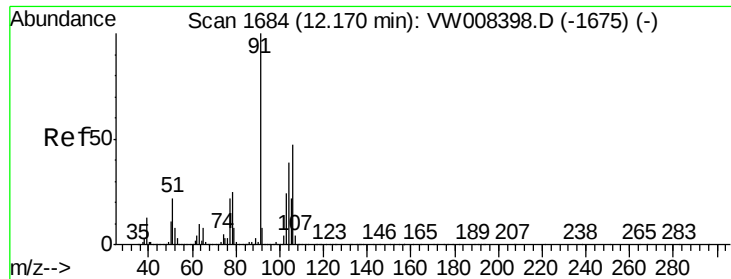
91 194.9 162.9 244.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

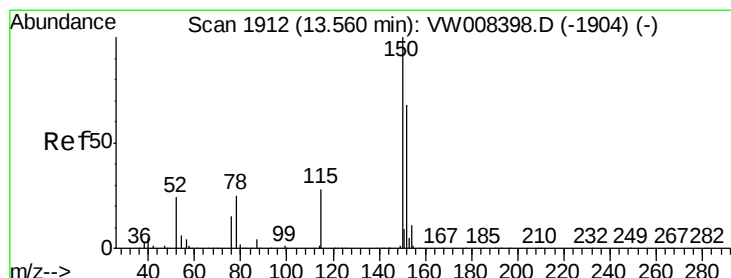
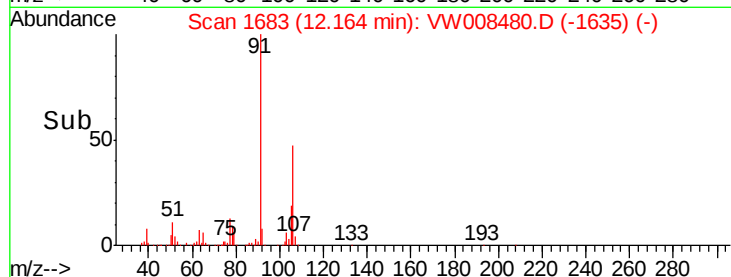
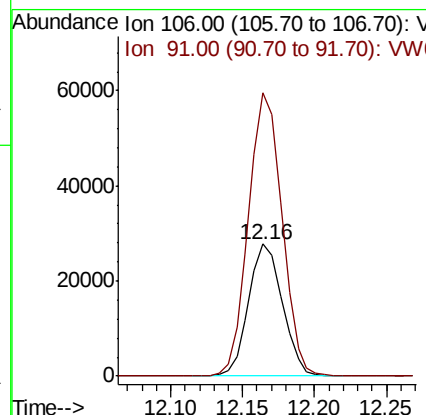
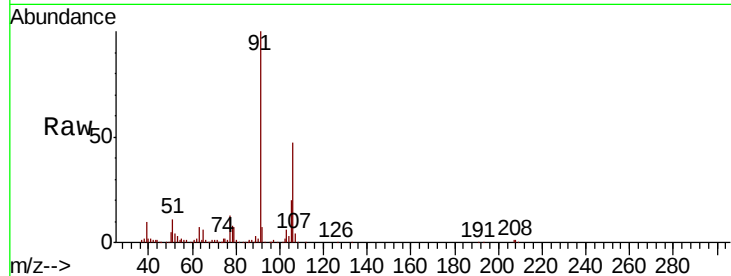




#69
o-Xylene
Concen: 7.290 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW008480.D
Acq: 01 Feb 2019 14:38

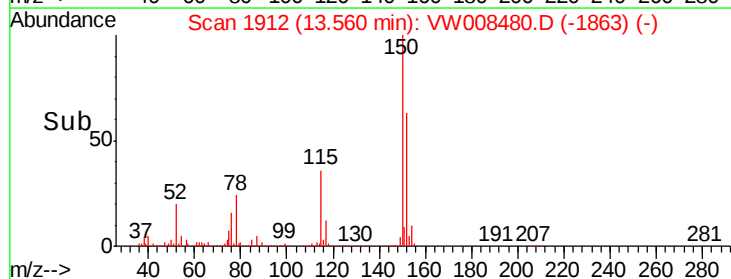
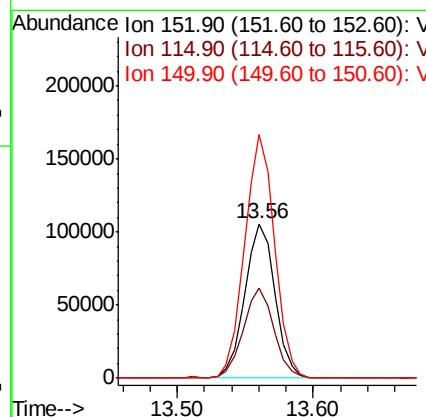
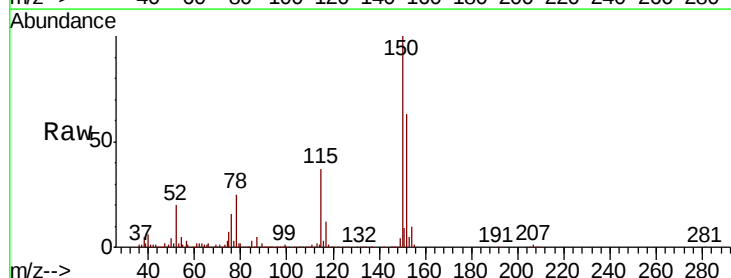
Instrument :
MSVOA_W
ClientSampleId :
OR-02-013119-BRE

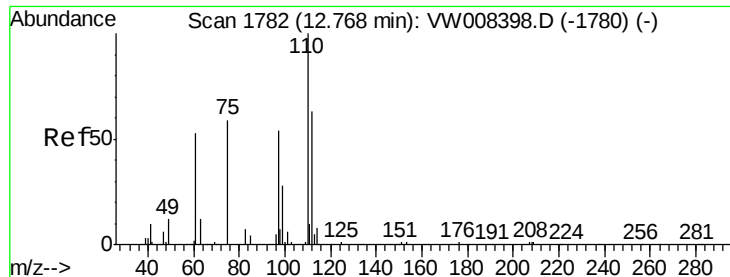
Tgt Ion:106 Resp: 45309
Ion Ratio Lower Upper
106 100
91 212.6 107.5 322.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008480.D
Acq: 01 Feb 2019 14:38

Tgt Ion:152 Resp: 164162
Ion Ratio Lower Upper
152 100
115 59.6 29.9 89.7
150 156.4 0.0 351.4

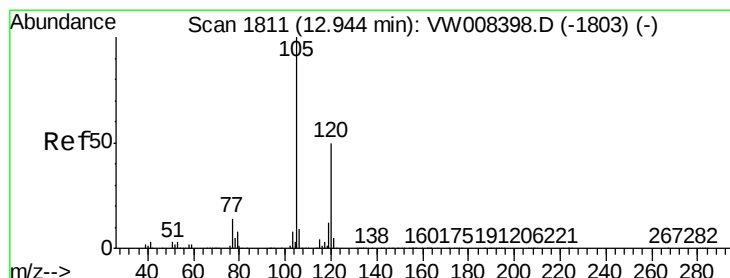
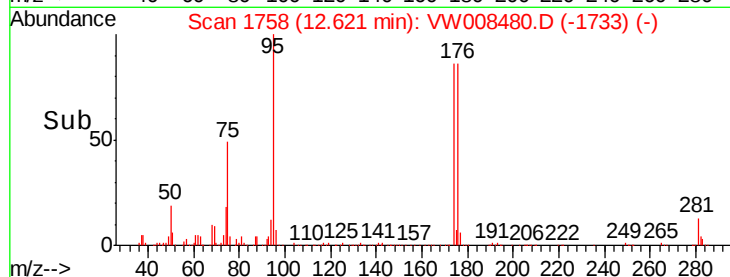
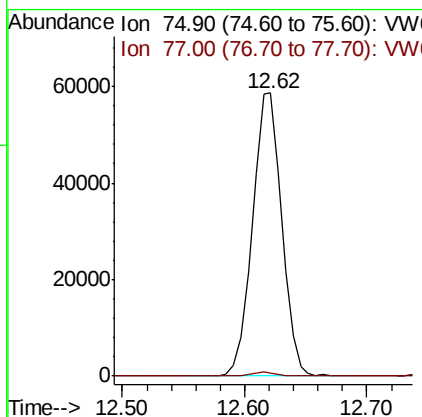
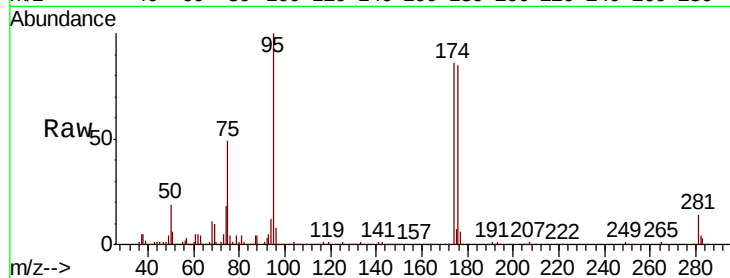




#76
 1,2,3-Trichloropropane
 Concen: 68.633 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008480.D
 Acq: 01 Feb 2019 14:38

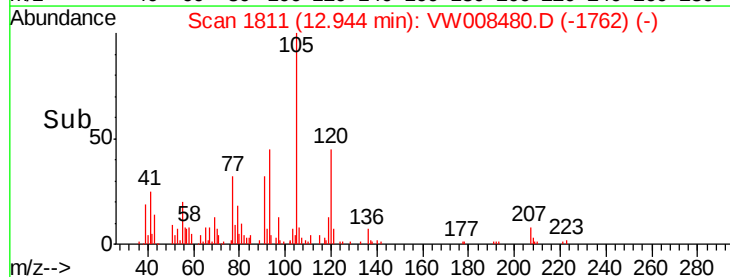
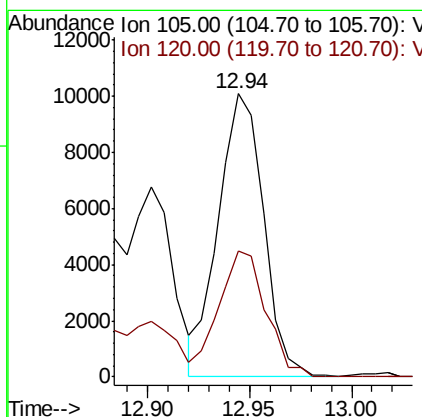
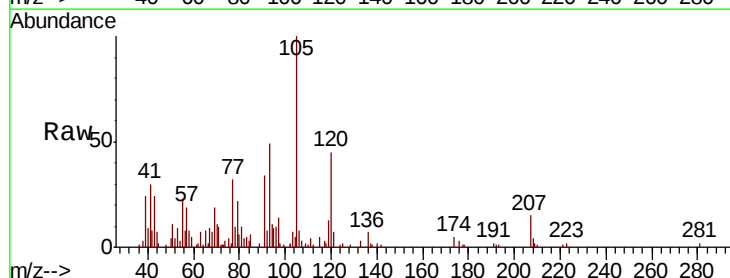
Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-013119-BRE

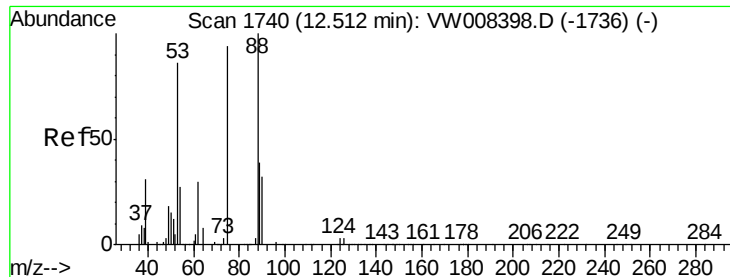
Tgt Ion: 75 Resp: 97958
 Ion Ratio Lower Upper
 75 100
 77 1.1 180.7 542.1#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.519 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW008480.D
 Acq: 01 Feb 2019 14:38

Tgt Ion: 105 Resp: 15541
 Ion Ratio Lower Upper
 105 100
 120 46.4 24.6 73.8





#81

trans-1,4-Dichloro-2-butene

Concen: 135.556 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008480.D

Acq: 01 Feb 2019 14:38

Instrument :

MSVOA_W

ClientSampleId :

OR-02-013119-BRE

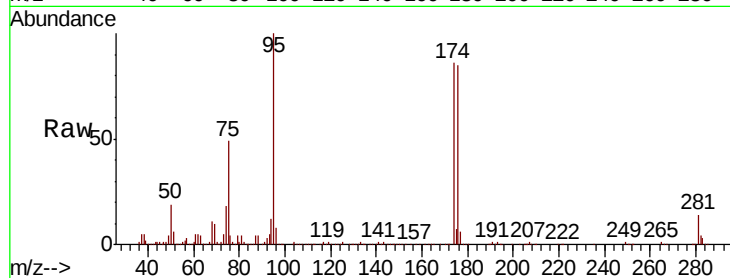
Tgt Ion: 75 Resp: 97958

Ion Ratio Lower Upper

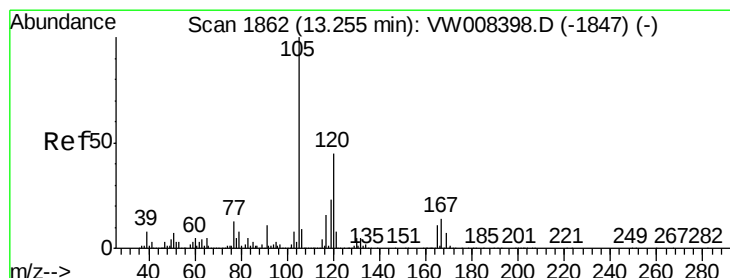
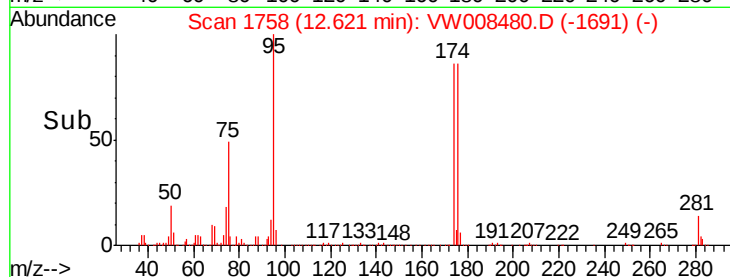
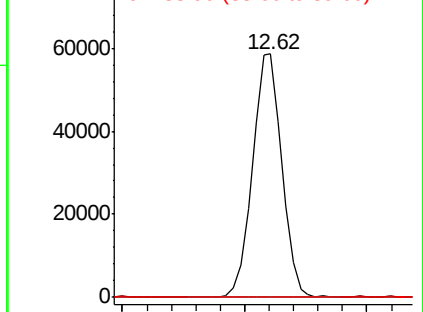
75 100

53 0.1 76.0 114.0#

89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#84

1,2,4-Trimethylbenzene

Concen: 3.344 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW008480.D

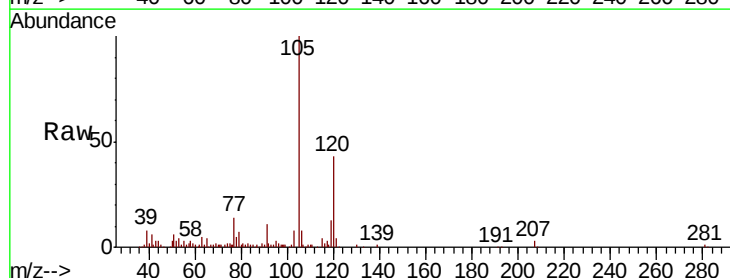
Acq: 01 Feb 2019 14:38

Tgt Ion: 105 Resp: 34769

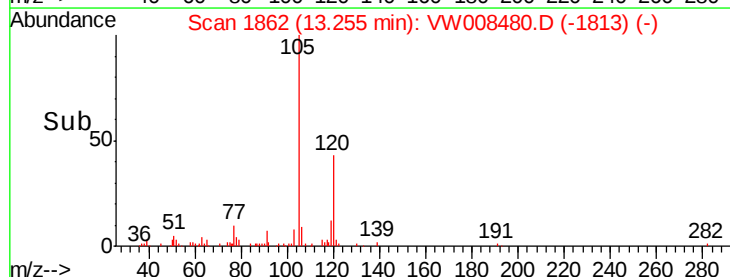
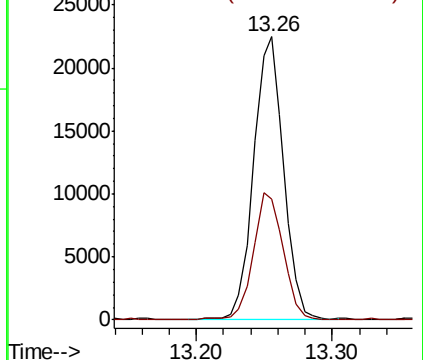
Ion Ratio Lower Upper

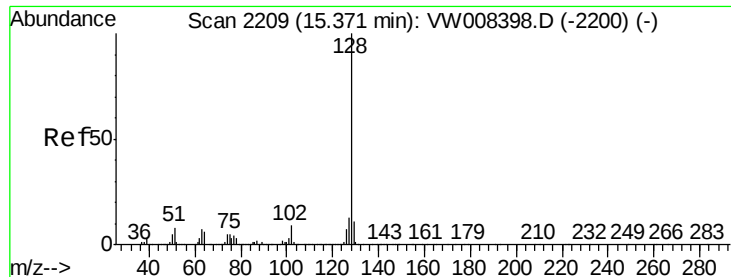
105 100

120 45.4 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 39.972 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW008480.D
Acq: 01 Feb 2019 14:38

Instrument :
MSVOA_W
ClientSampleId :
OR-02-013119-BRE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.6	15.8
129	11.5	8.7	13.1

