

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR110618\
 Data File : VR026188.D
 Acq On : 6 Nov 2018 12:19
 Operator : SY/MD
 Sample : J5801-02
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 F9D01

Quant Time: Nov 06 16:11:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 06 15:50:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	978145	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	767517	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	343610	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	237142	2.77	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	55.40%
7) Chloroethane-d5	2.62	69	230622	3.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	62.60%#
11) 1,1-Dichloroethene-d2	3.61	63	484831	2.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	46.20%#
20) 2-Butanone-d5	6.58	46	209879	29.86	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	59.72%
24) Chloroform-d	7.20	84	434375	3.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	63.80%#
26) 1,2-Dichloroethane-d4	7.92	65	147054	2.60	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	52.00%#
32) Benzene-d6	7.88	84	1072928	4.35	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.00%
36) 1,2-Dichloropropane-d6	8.90	67	268901	4.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.40%
41) Toluene-d8	9.98	98	989017	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.00%
43) trans-1,3-Dichloropropene-	10.24	79	71856	4.30	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.00%
46) 2-Hexanone-d5	10.59	63	274385	56.89	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.78%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	109851	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.00%
64) 1,2-Dichlorobenzene-d4	13.52	152	270878	4.99	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	2.17	62	494273	4.755	ug/L	99
13) Acetone	3.70	43	141509	19.477	ug/L	87
16) Methylene chloride	4.40	84	15109	0.175	ug/L #	64
18) trans-1,2-Dichloroethene	4.89	96	61227	0.851	ug/L	96
19) 1,1-Dichloroethane	5.69	63	209681	1.553	ug/L	98
21) 2-Butanone	6.69	43	39918	4.763	ug/L	83
22) cis-1,2-Dichloroethene	6.67	96	464441	6.826	ug/L #	98
30) Cyclohexane	7.52	56	2863355	27.199	ug/L	99
33) Benzene	7.93	78	42729950	148.373	ug/L	100
34) Trichloroethene	8.71	95	28905	0.392	ug/L	86
35) Methylcyclohexane	8.95	83	1664177	15.165	ug/L	97
40) 4-Methyl-2-pentanone	9.87	43	197490	10.643	ug/L	97
42) Toluene	10.05	91	28669065	94.320	ug/L #	55
47) Tetrachloroethene	10.51	164	39599	0.752	ug/L	92
51) Chlorobenzene	11.32	112	232209	1.380	ug/L	99
52) Ethylbenzene	11.39	91	16760892	47.953	ug/L #	16
53) m,p-Xylene	11.51	106	16695338	131.099	ug/L #	40

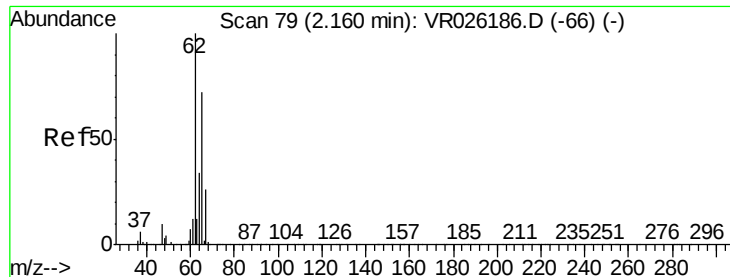
Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR110618\
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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Nov 06 15:50:53 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	11.83	106	10653912	91.253	ug/L #	37
55) Styrene	11.84	104	2726346	15.172	ug/L #	52
56) Isopropylbenzene	12.13	105	1697907	5.236	ug/L	99
62) 1,3-Dichlorobenzene	13.16	146	109604	0.960	ug/L #	87
63) 1,4-Dichlorobenzene	13.24	146	378886	3.205	ug/L	97
65) 1,2-Dichlorobenzene	13.53	146	3240804	35.374	ug/L	96

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



#5

Vinyl chloride

Concen: 4.755 ug/L

RT: 2.17 min Scan# 80

Delta R.T. 0.00 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

Instrument :

MSVOA_R

ClientSampleId :

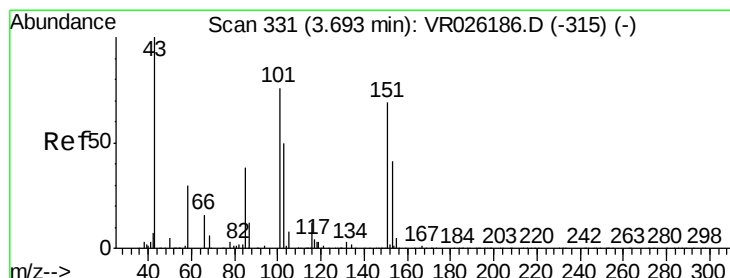
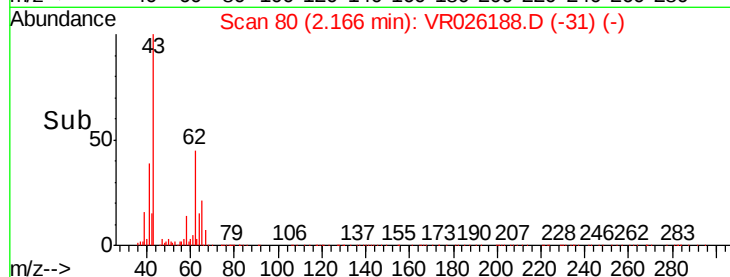
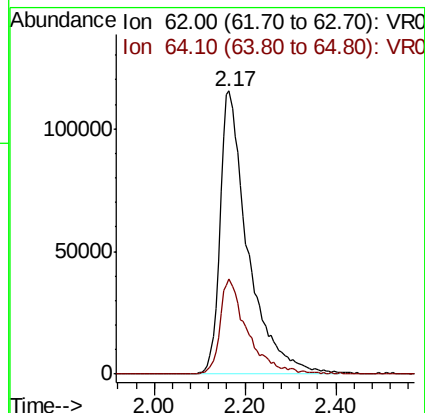
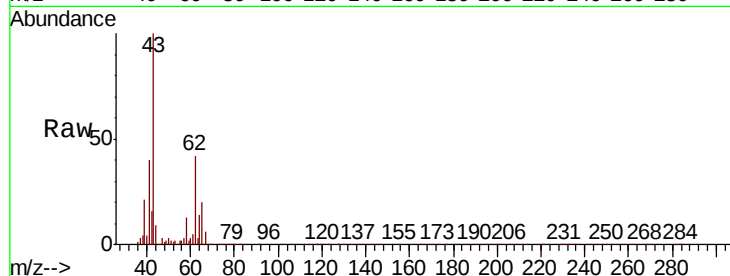
F9D01

Tot Ion: 62 Resp: 494273

Ion Ratio Lower Upper

62 100

64 33.5 23.9 44.3



#13

Acetone

Concen: 19.477 ug/L

RT: 3.70 min Scan# 332

Delta R.T. 0.00 min

Lab File: VR026188.D

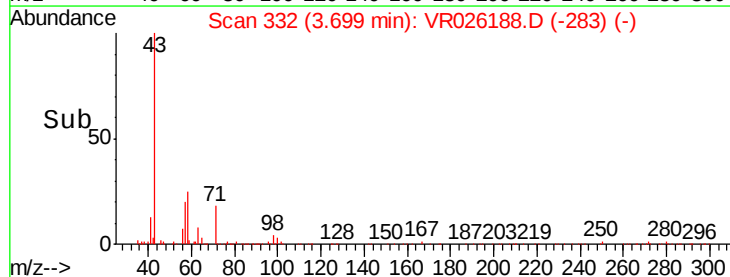
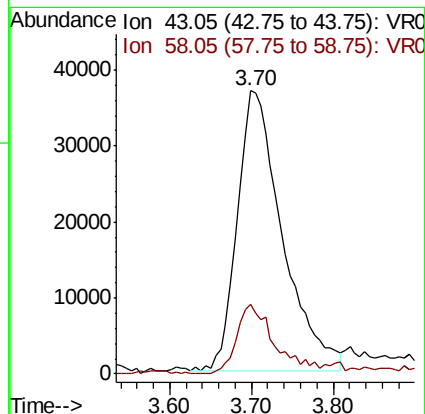
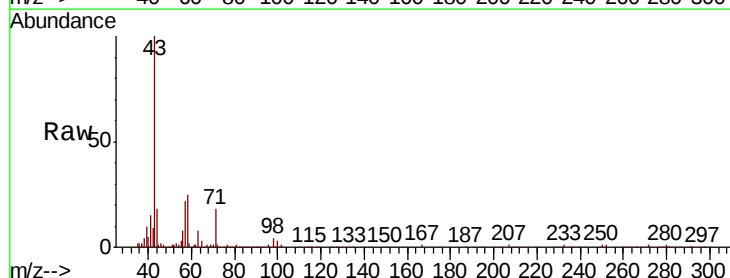
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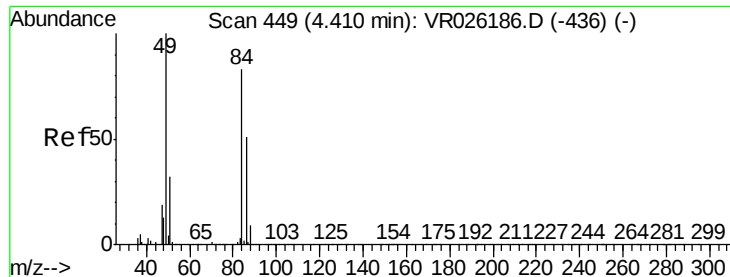
Tgt Ion: 43 Resp: 141509

Ion Ratio Lower Upper

43 100

58 20.8 0.0 55.4

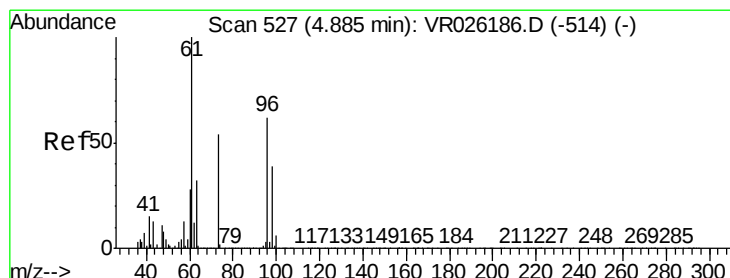
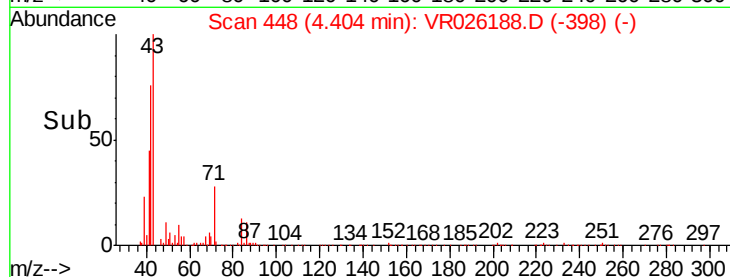
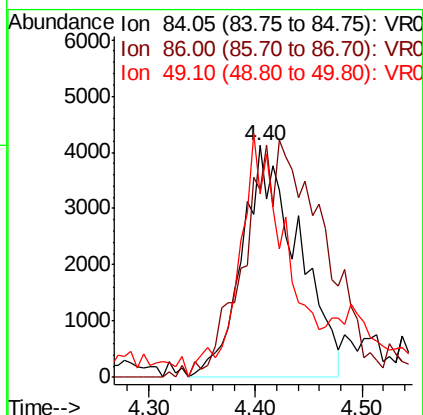
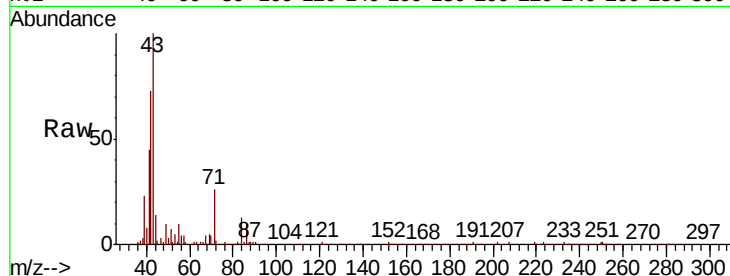




#16
Methvlene chloride
Concen: 0.175 ug/L
RT: 4.40 min Scan# 448
Delta R.T. 0.01 min
Lab File: VR026188.D
Acq: 6 Nov 2018 12:19

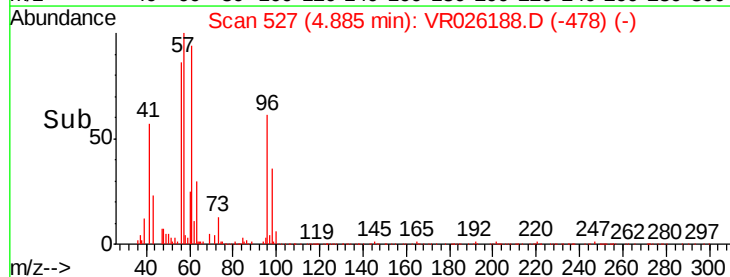
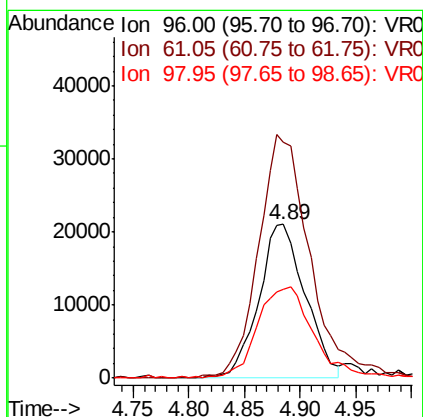
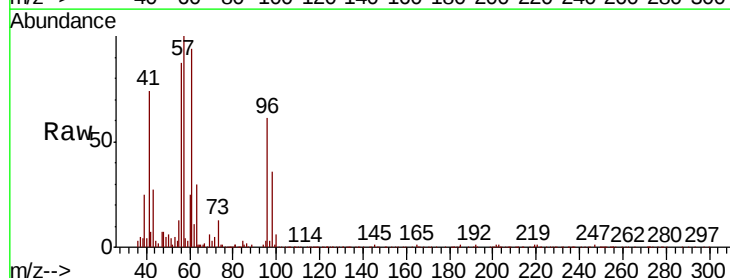
Instrument :
MSVOA_R
ClientSampleId :
F9D01

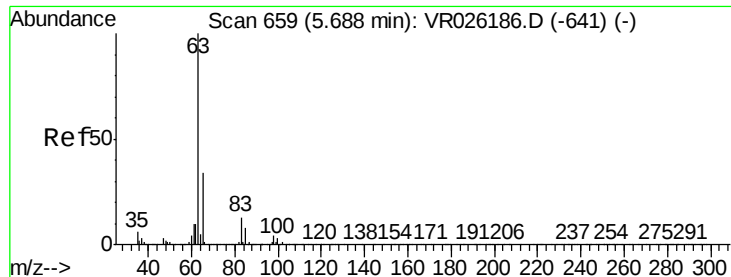
Tot Ion: 84 Resp: 15109
Ion Ratio Lower Upper
84 100
86 80.8 43.0 79.8#
49 79.3 89.1 165.5#



#18
trans-1,2-Dichloroethene
Concen: 0.851 ug/L
RT: 4.89 min Scan# 527
Delta R.T. 0.00 min
Lab File: VR026188.D
Acq: 6 Nov 2018 12:19

Tgt Ion: 96 Resp: 61227
Ion Ratio Lower Upper
96 100
61 153.4 111.4 206.8
98 57.8 41.4 77.0

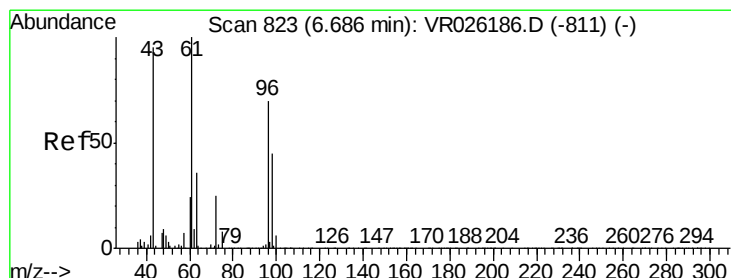
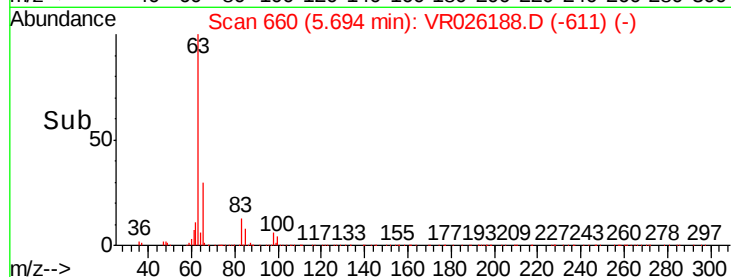
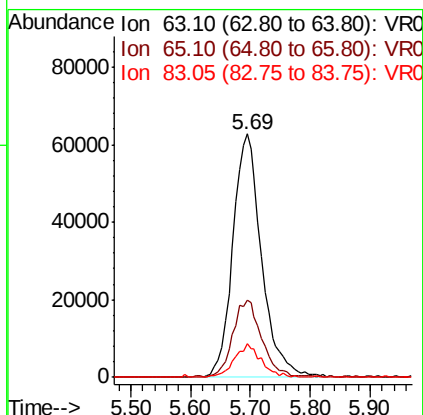
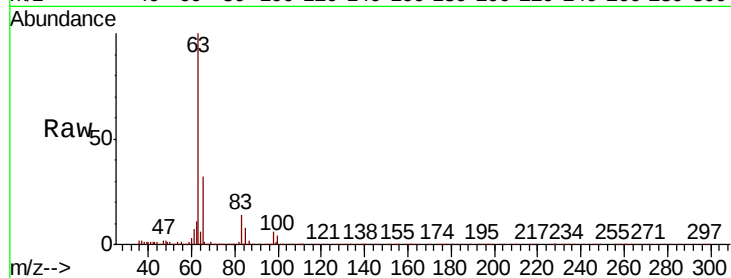




#19
 1,1-Dichloroethane
 Concen: 1.553 ug/L
 RT: 5.69 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VR026188.D
 Acq: 6 Nov 2018 12:19

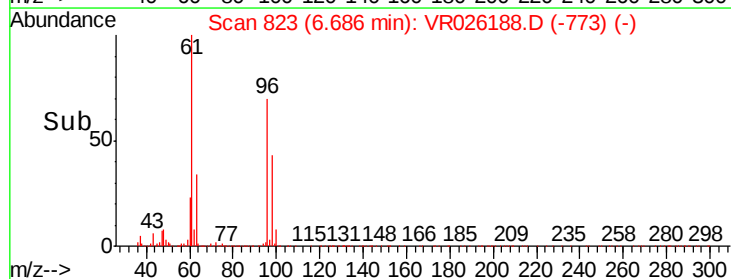
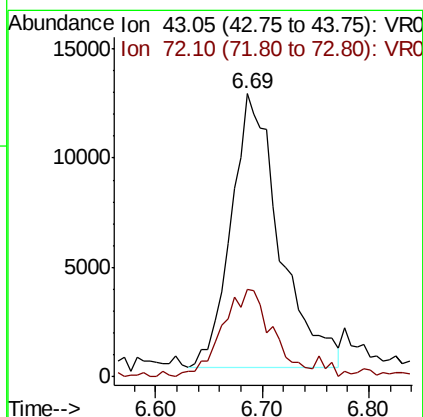
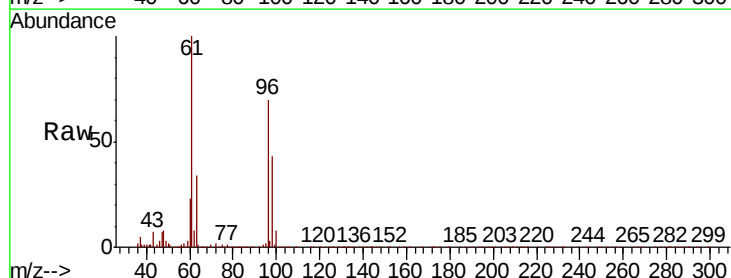
Instrument :
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 ClientSampleId :
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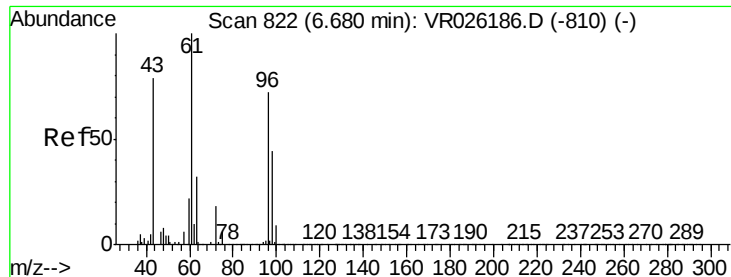
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.5	21.2	39.4
83	14.0	9.2	17.2



#21
 2-Butanone
 Concen: 4.763 ug/L
 RT: 6.69 min Scan# 823
 Delta R.T. 0.01 min
 Lab File: VR026188.D
 Acq: 6 Nov 2018 12:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	32.8	12.3	36.8



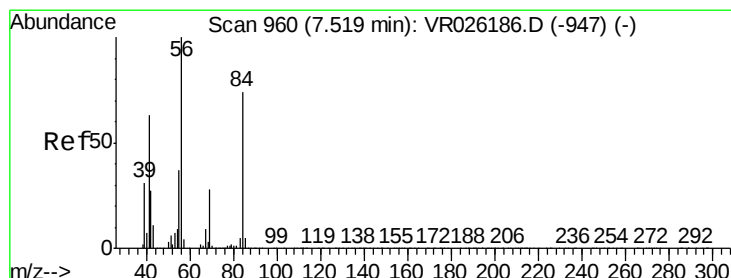
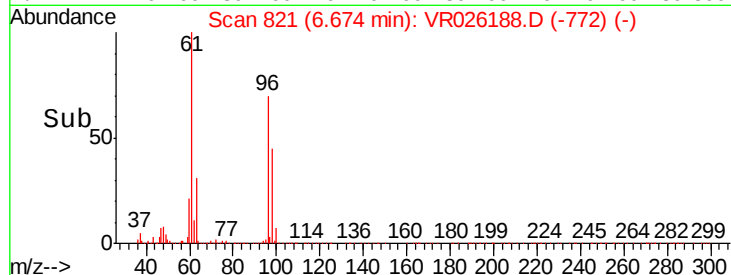
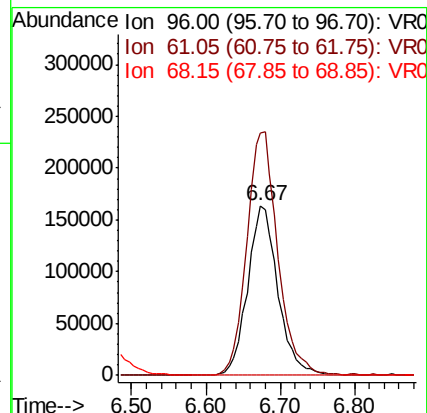
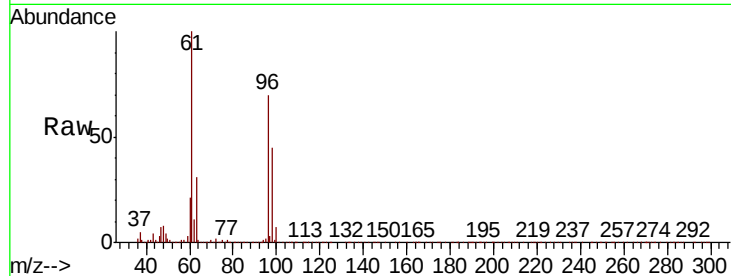


#22

cis-1,2-Dichloroethene
 Concen: 6.826 ug/L
 RT: 6.67 min Scan# 821
 Delta R.T. 0.00 min
 Lab File: VR026188.D
 Acq: 6 Nov 2018 12:19

Instrument :
 MSVOA_R
 ClientSampleId :
 F9D01

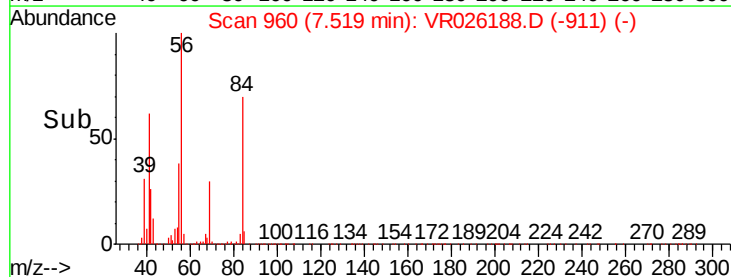
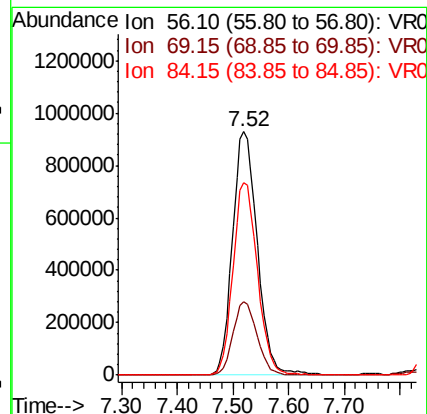
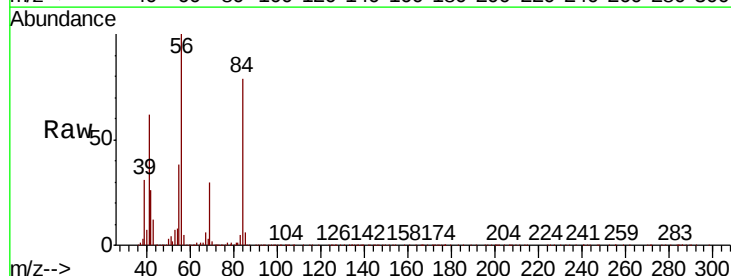
Tot Ion	Ratio	Lower	Upper
96	100		
61	142.8	101.8	189.0
68	0.1	0.1	0.3

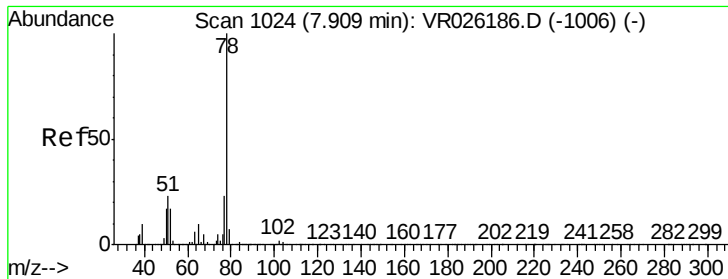


#30

Cyclohexane
 Concen: 27.199 ug/L
 RT: 7.52 min Scan# 960
 Delta R.T. 0.00 min
 Lab File: VR026188.D
 Acq: 6 Nov 2018 12:19

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.2	23.8	35.8
84	77.4	62.2	93.4





#33

Benzene

Concen: 148.373 ug/L

RT: 7.93 min Scan# 1028

Delta R.T. 0.02 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

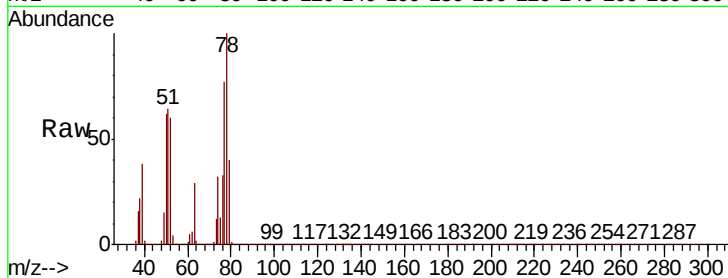
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MSVOA_R

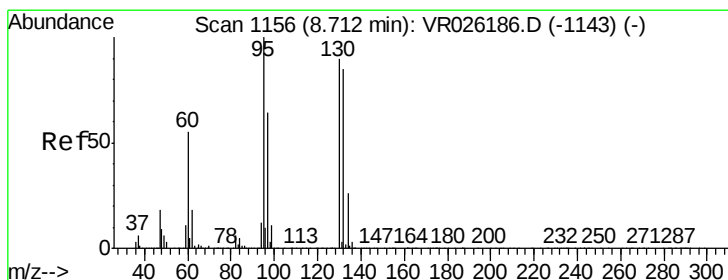
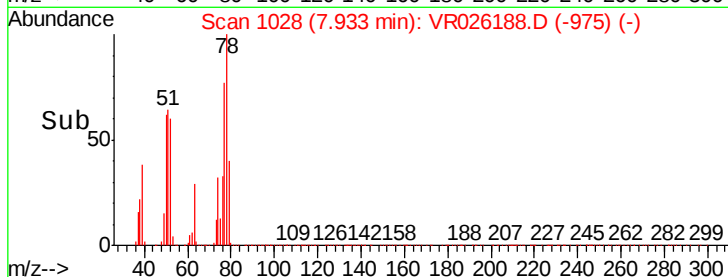
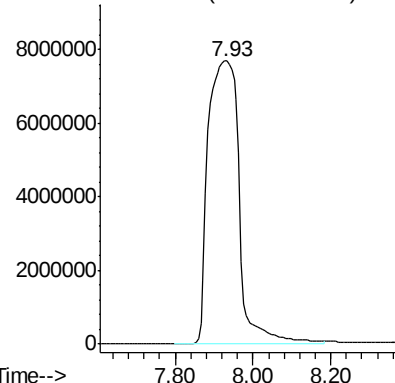
ClientSampleId :

F9D01

Tgt Ion: 78 Resp:42729950



Abundance Ion 78.10 (77.80 to 78.80): VR0



#34

Trichloroethene

Concen: 0.392 ug/L

RT: 8.71 min Scan# 1156

Delta R.T. 0.01 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

Tgt Ion: 95 Resp: 28905

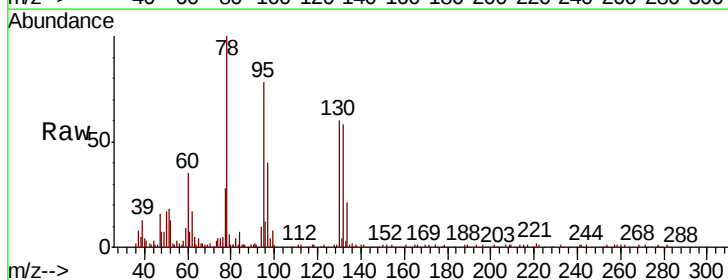
Ion Ratio Lower Upper

95 100

97 51.0 45.7 84.9

132 74.4 58.3 108.3

130 76.6 64.0 119.0

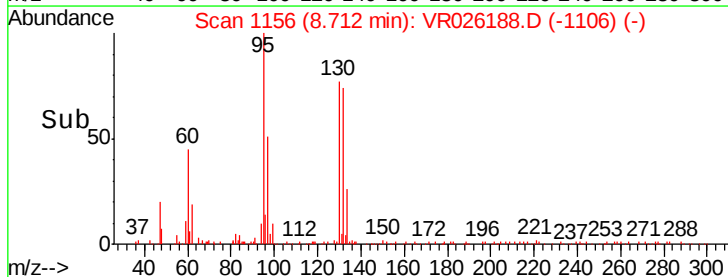
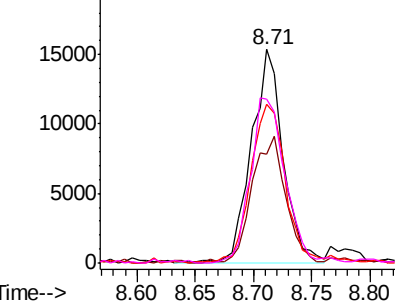


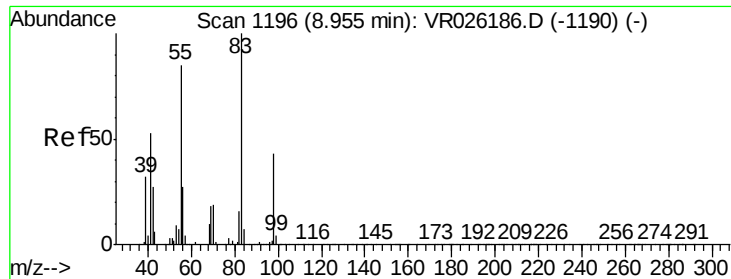
Abundance Ion 95.00 (94.70 to 95.70): VR0

Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

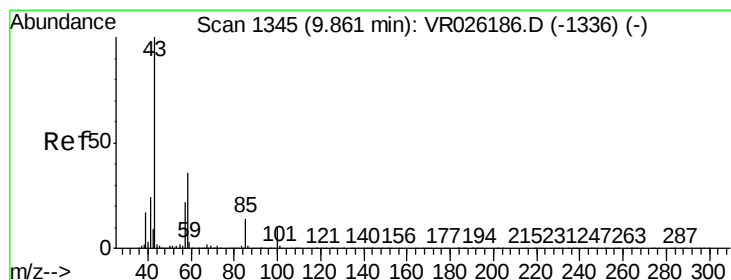
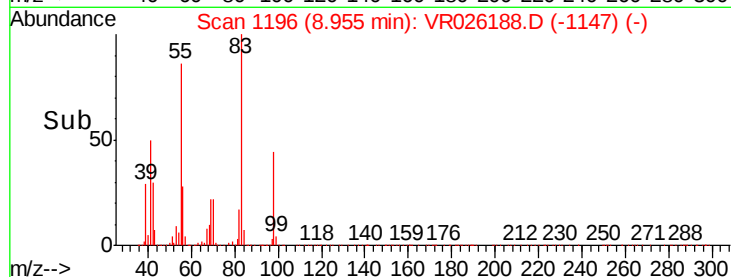
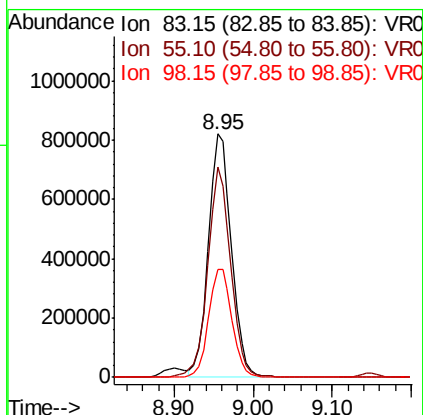
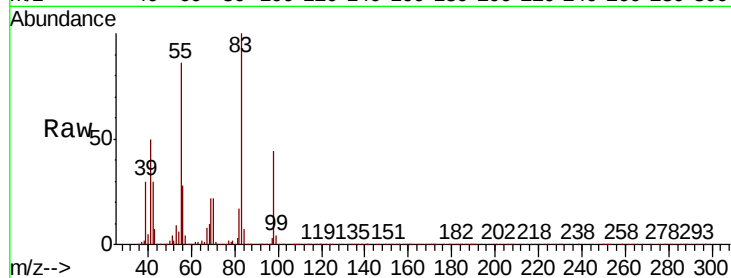




#35
Methylcyclohexane
Concen: 15.165 ug/L
RT: 8.95 min Scan# 1196
Delta R.T. 0.00 min
Lab File: VR026188.D
Acq: 6 Nov 2018 12:19

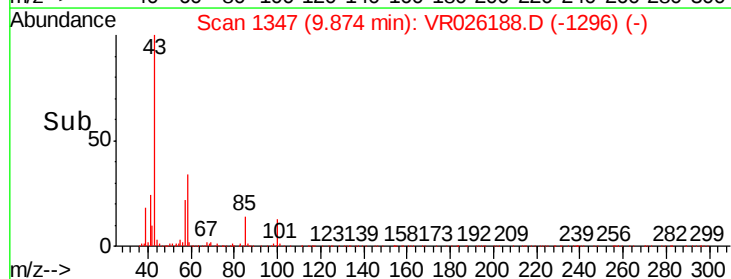
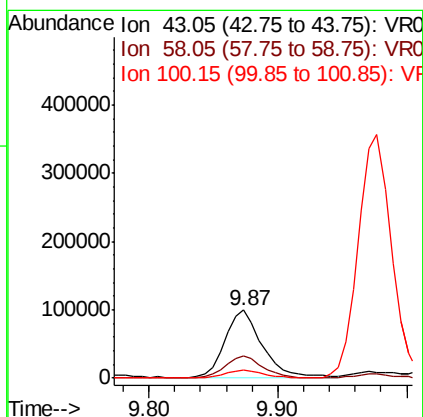
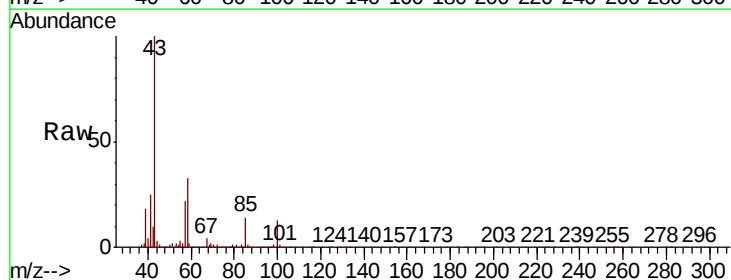
Instrument :
MSVOA_R
ClientSampled :
F9D01

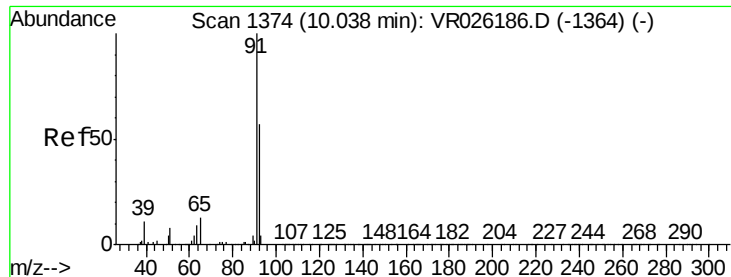
Tot Ion: 83 Resp: 1664177
Ion Ratio Lower Upper
83 100
55 86.2 66.8 100.2
98 45.3 35.2 52.8



#40
4-Methyl-2-pentanone
Concen: 10.643 ug/L
RT: 9.87 min Scan# 1347
Delta R.T. 0.01 min
Lab File: VR026188.D
Acq: 6 Nov 2018 12:19

Tgt Ion: 43 Resp: 197490
Ion Ratio Lower Upper
43 100
58 33.5 28.1 42.1
100 12.6 9.3 13.9





#42

Toluene

Concen: 94.320 ug/L

RT: 10.05 min Scan# 1376

Delta R.T. 0.01 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

Instrument :

MSVOA_R

ClientSampleId :

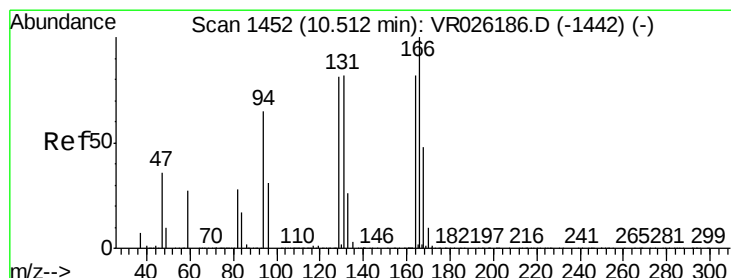
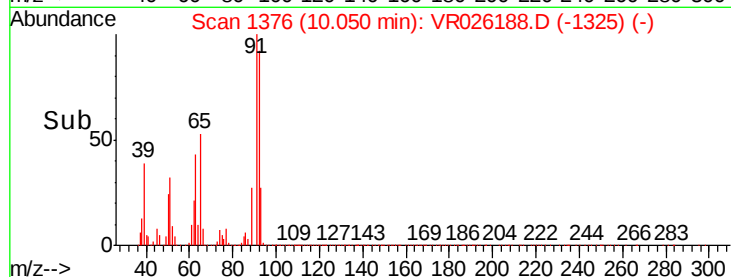
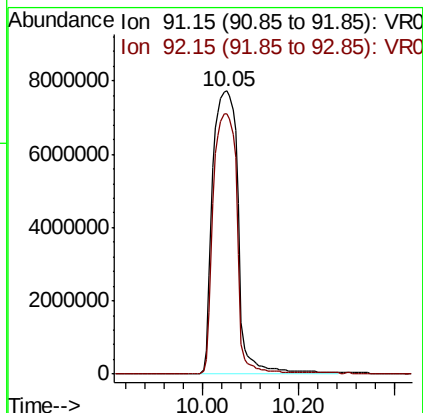
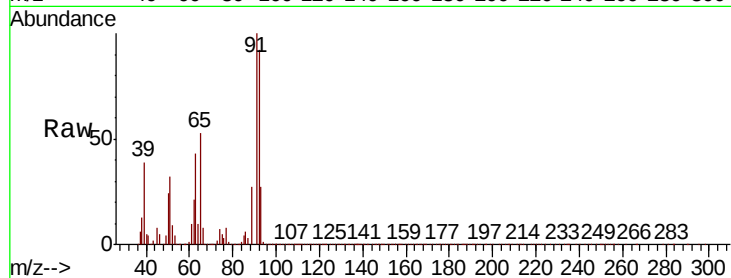
F9D01

Tot Ion: 91 Resp: 28669065

Ion Ratio Lower Upper

91 100

92 92.0 40.8 75.8#



#47

Tetrachloroethene

Concen: 0.752 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

Tgt Ion: 164 Resp: 39599

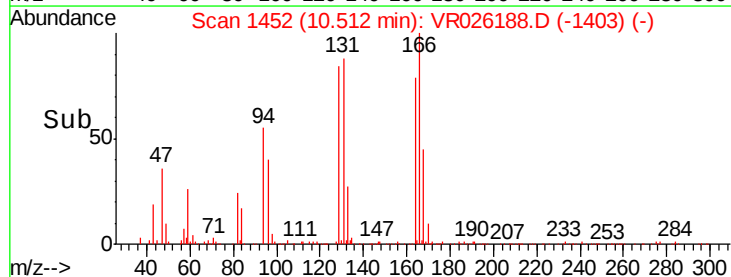
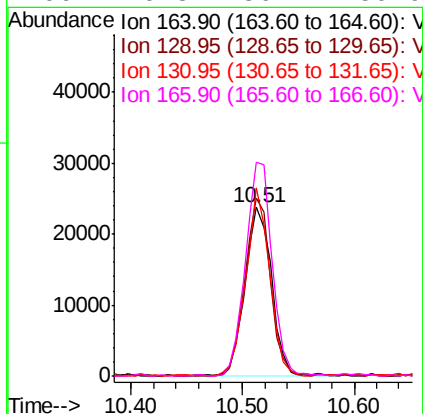
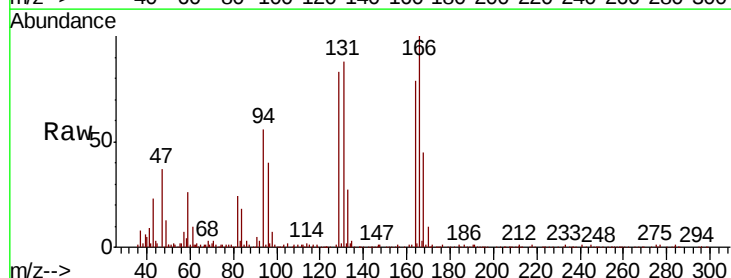
Ion Ratio Lower Upper

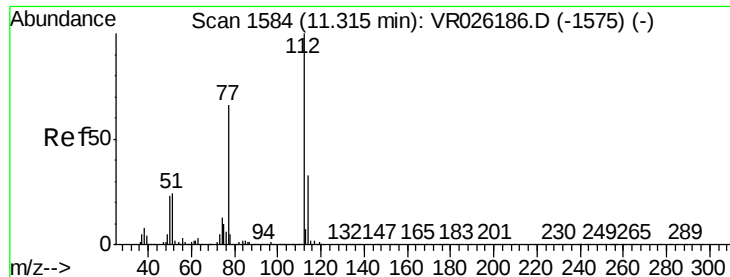
164 100

129 105.8 70.3 130.5

131 111.3 67.3 125.1

166 126.8 86.1 159.9





#51

Chlorobenzene

Concen: 1.380 ug/L

RT: 11.32 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

Instrument :

MSVOA_R

ClientSampleId :

F9D01

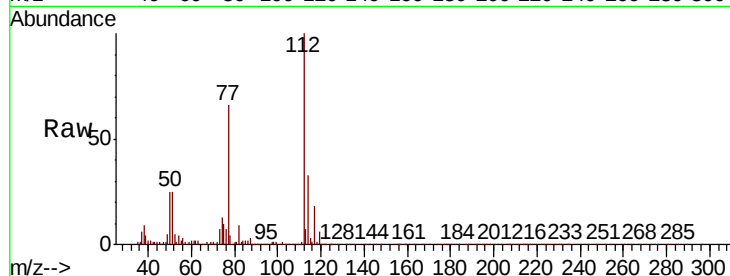
Tot Ion: 112 Resp: 232209

Ion Ratio Lower Upper

112 100

114 33.0 22.8 42.4

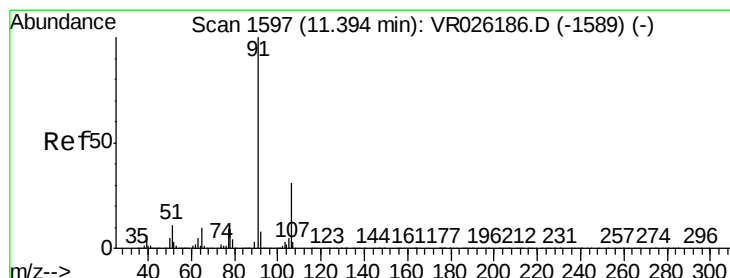
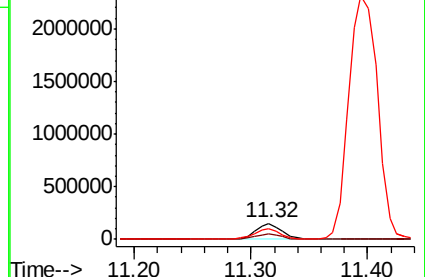
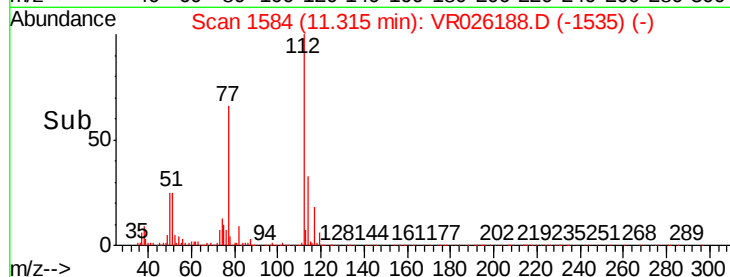
77 65.8 51.5 77.3



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VR0



#52

Ethylbenzene

Concen: 47.953 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VR026188.D

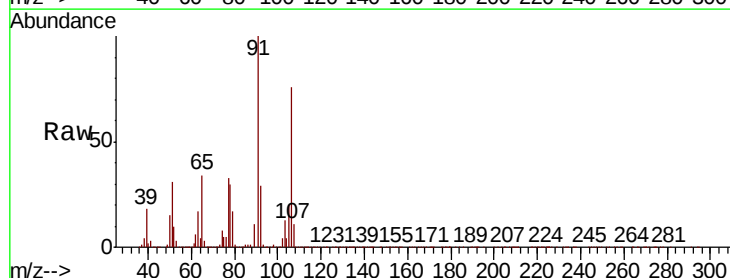
Acq: 6 Nov 2018 12:19

Tgt Ion: 91 Resp: 16760892

Ion Ratio Lower Upper

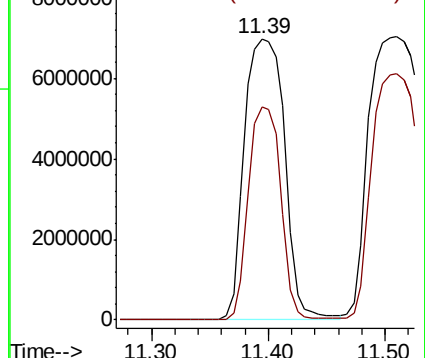
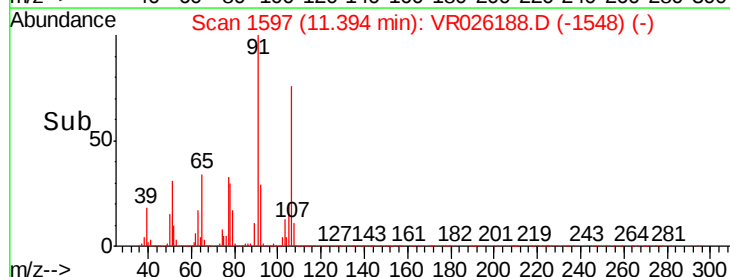
91 100

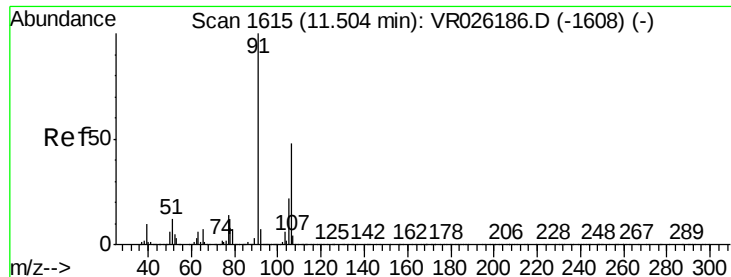
106 75.9 21.2 39.4#



Abundance Ion 91.15 (90.85 to 91.85): VR0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 131.099 ug/L

RT: 11.51 min Scan# 1616

Delta R.T. 0.01 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

Instrument :

MSVOA_R

ClientSampleId :

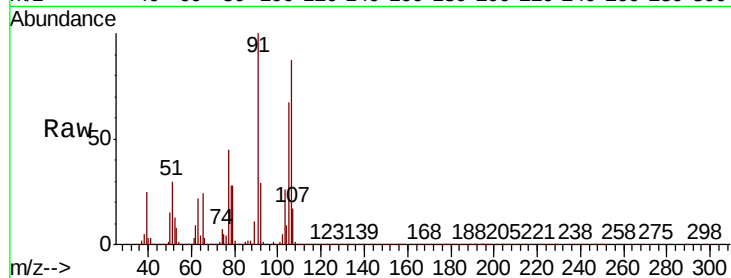
F9D01

Tot Ion:106 Resp:16695338

Ion Ratio Lower Upper

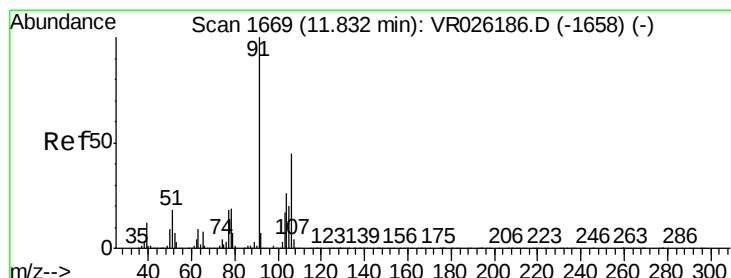
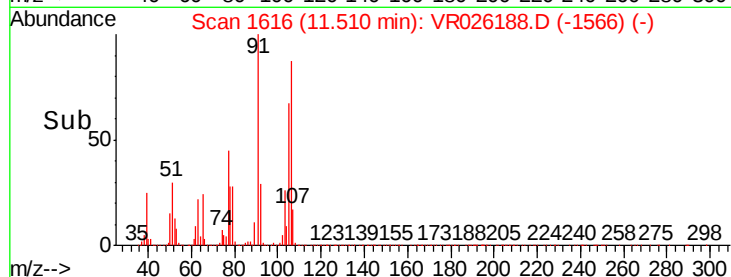
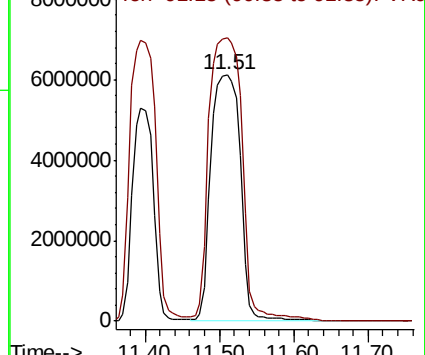
106 100

91 114.7 145.3 269.8#



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#54

o-Xylene

Concen: 91.253 ug/L

RT: 11.83 min Scan# 1669

Delta R.T. 0.01 min

Lab File: VR026188.D

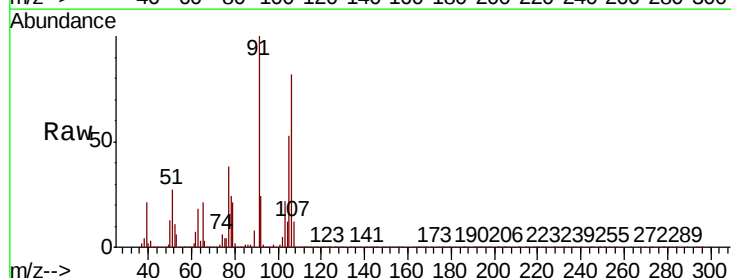
Acq: 6 Nov 2018 12:19

Tgt Ion:106 Resp:10653912

Ion Ratio Lower Upper

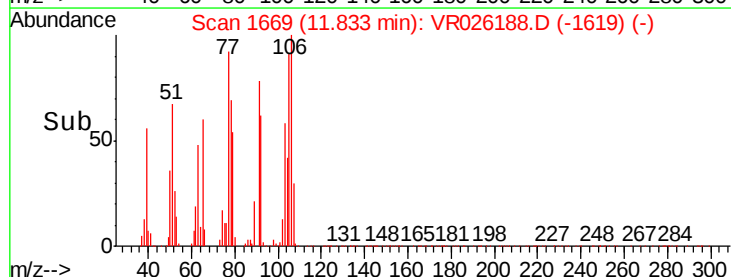
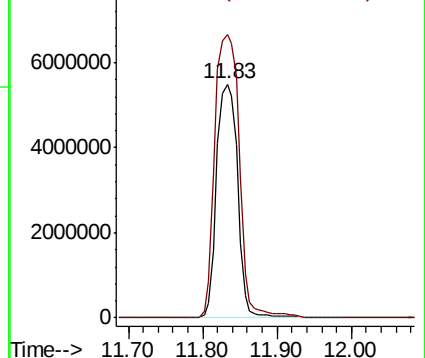
106 100

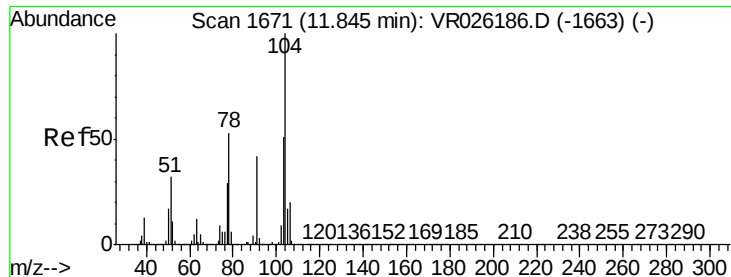
91 121.2 155.8 289.3#



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0





#55

Stvrene

Concen: 15.172 ug/L

RT: 11.84 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

Instrument :

MSVOA_R

ClientSampleId :

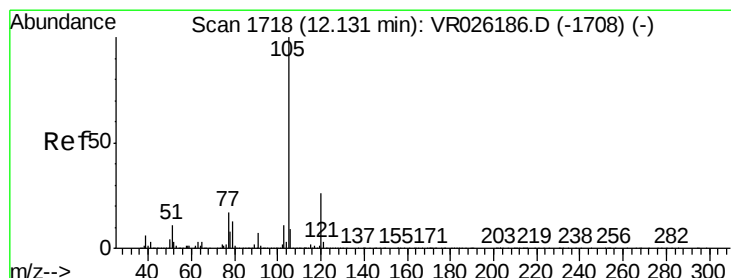
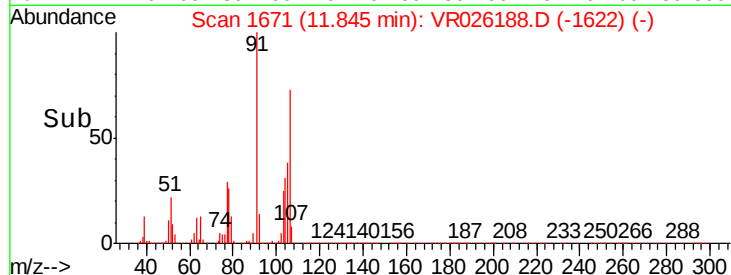
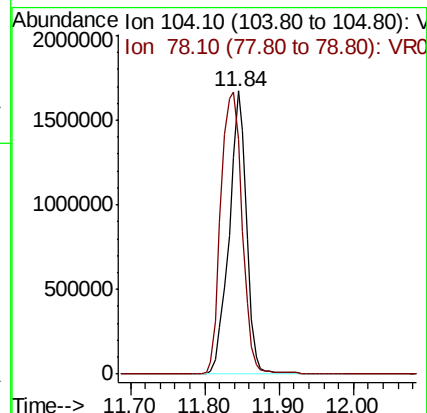
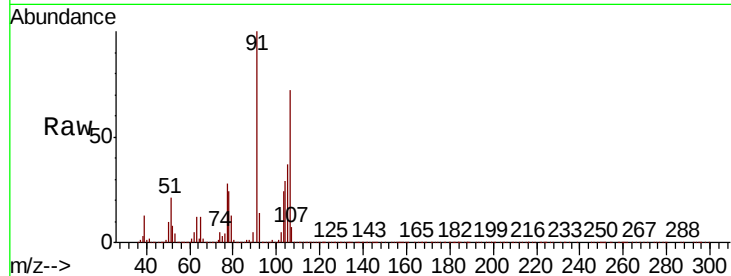
F9D01

Tot Ion:104 Resp: 2726346

Ion Ratio Lower Upper

104 100

78 82.8 34.7 64.5#



#56

Isopropylbenzene

Concen: 5.236 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. 0.00 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

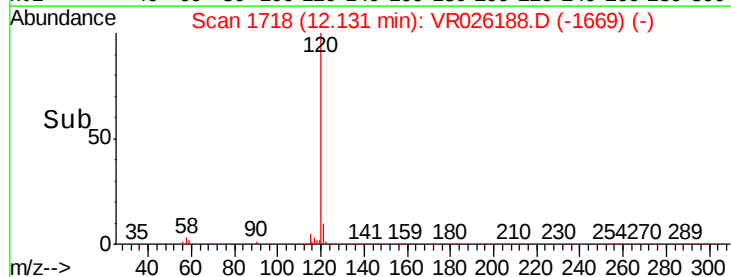
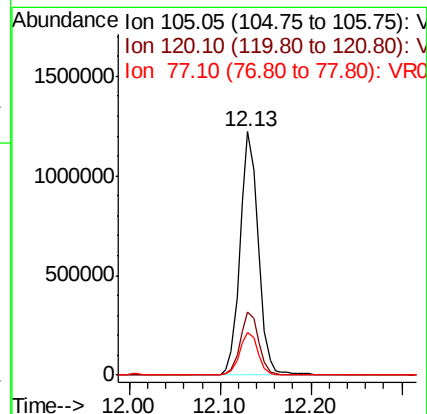
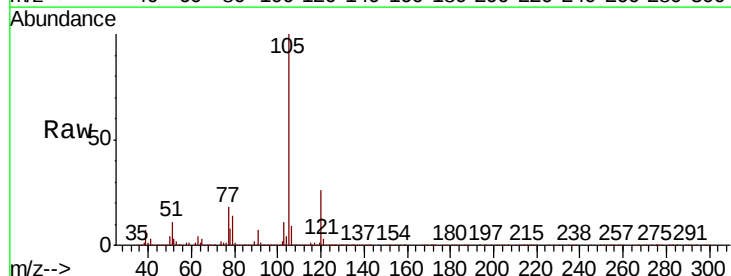
Tgt Ion:105 Resp: 1697907

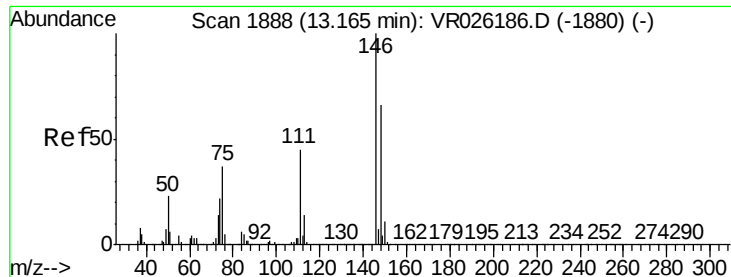
Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.4

77 17.6 14.6 21.8





#62

1,3-Dichlorobenzene

Concen: 0.960 ug/L

RT: 13.16 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

Instrument :

MSVOA_R

ClientSampleId :

F9D01

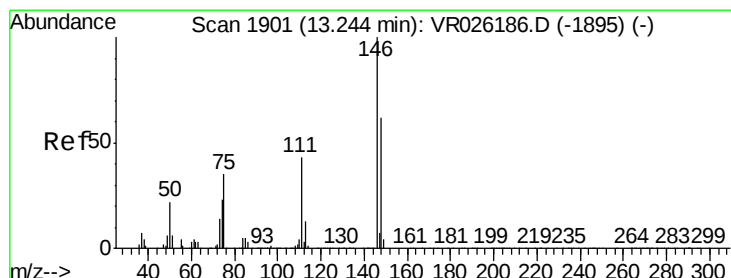
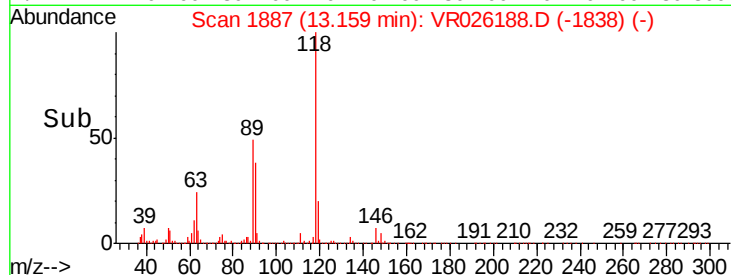
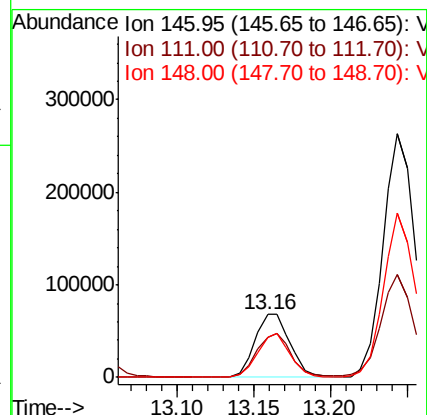
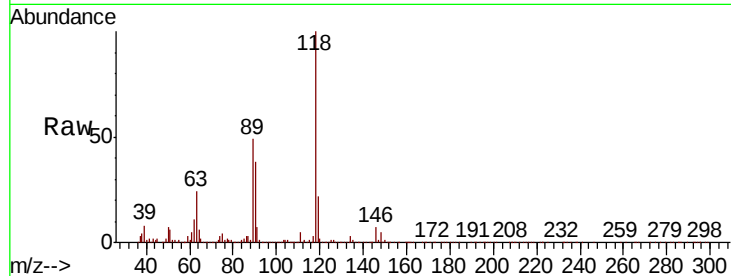
Tot Ion:146 Resp: 109604

Ion Ratio Lower Upper

146 100

111 64.6 32.1 59.7#

148 63.2 43.8 81.3



#63

1,4-Dichlorobenzene

Concen: 3.205 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

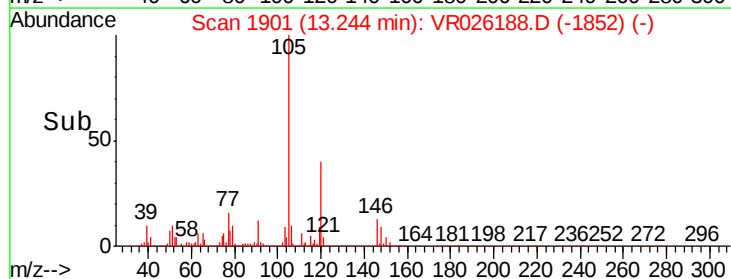
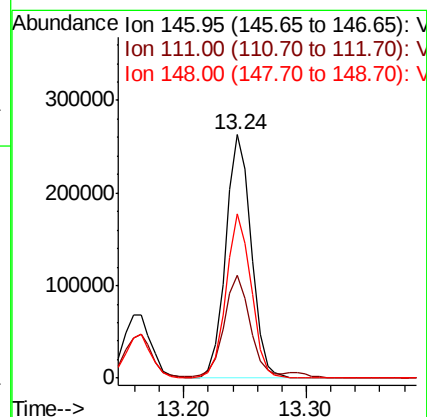
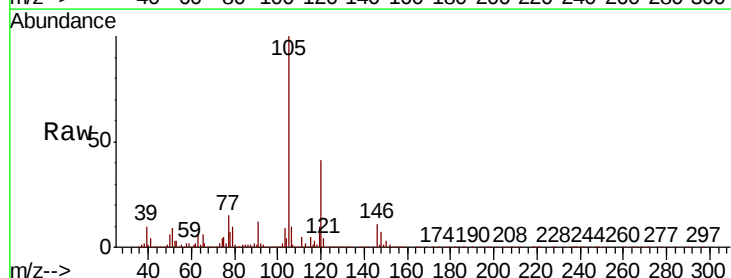
Tgt Ion:146 Resp: 378886

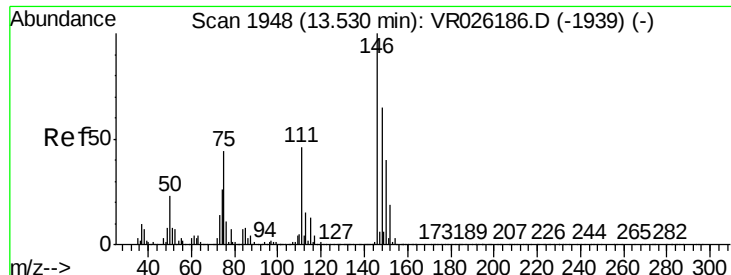
Ion Ratio Lower Upper

146 100

111 42.2 32.6 60.6

148 67.3 46.7 86.7





#65

1,2-Dichlorobenzene

Concen: 35.374 ug/L

RT: 13.53 min Scan# 1948

Delta R.T. 0.00 min

Lab File: VR026188.D

Acq: 6 Nov 2018 12:19

Instrument :

MSVOA_R

ClientSampleId :

F9D01

Tot Ion:146 Resp: 3240804

Ion Ratio Lower Upper

146 100

111 46.7 35.2 52.8

148 66.5 51.2 76.8

