



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878


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A N A L Y T I C A L   R E P O R T

Prepared for:

Chaney, Walton & McCall  
No. 35 Embarcadero Cove  
Oakland, CA 94606-5203

Date: 03-FEB-99  
Lab Job Number: 137630  
Project ID: N/A  
Location: Thompson & Thompson Fence

SXID 3191 

Reviewed by: 

Reviewed by: 

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## TVH-Total Volatile Hydrocarbons

Client: Chaney, Walton & McCall  
Location: Thompson & Thompson Fence

Analysis Method: EPA 8015M  
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
137630-001	MW-1	46006	01/21/99	01/30/99	01/30/99	
137630-002	MW-2	46044	01/21/99	02/03/99	02/03/99	
137630-003	MW-3	46006	01/21/99	01/30/99	01/30/99	

Matrix: Water

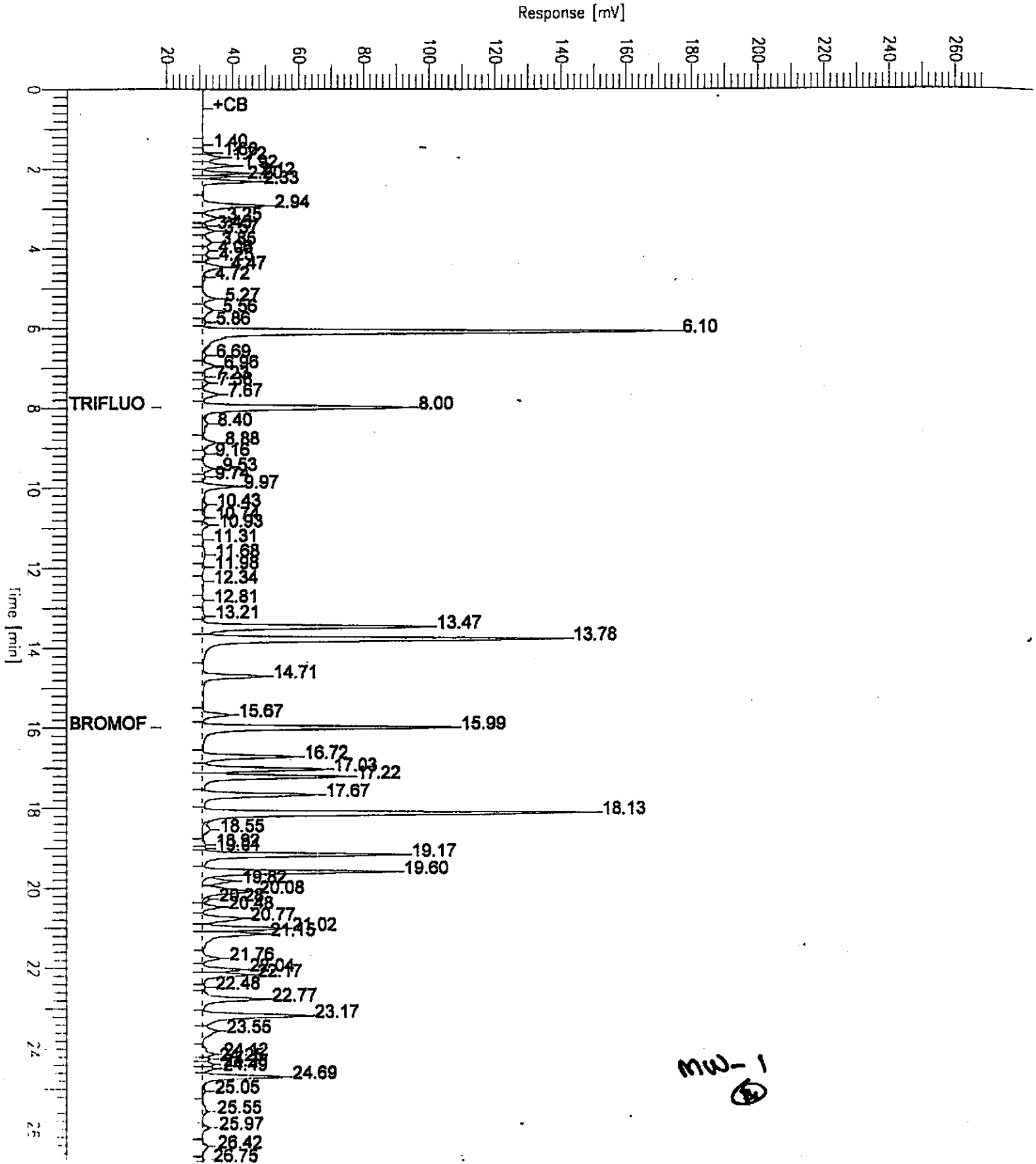
Analyte	Units	137630-001	137630-002	137630-003
Diln Fac:		20	10	1
Gasoline C7-C12	ug/L	24000	12000	<50
Surrogate				
Trifluorotoluene	%REC	67	80	101
Bromofluorobenzene	%REC	108	105	114

# Chromatogram

Sample Name : D\_137630-01A\_45006  
FileName : G:\GC09\DATA\029G009.raw  
Method : TVHBTXE  
Start Time : 0.00 min  
Scale Factor : -1.0

End Time : 26.80 min  
Plot Offset : 18 mV

Sample #: PH<2 1:20  
Date : 1/30/99 07:11 AM  
Time of Injection: 1/30/99 06:43 AM  
Low Point : 18.39 mV  
Plot Scale : 250.0 mV  
Page 1 of 1  
High Point : 268.39 mV

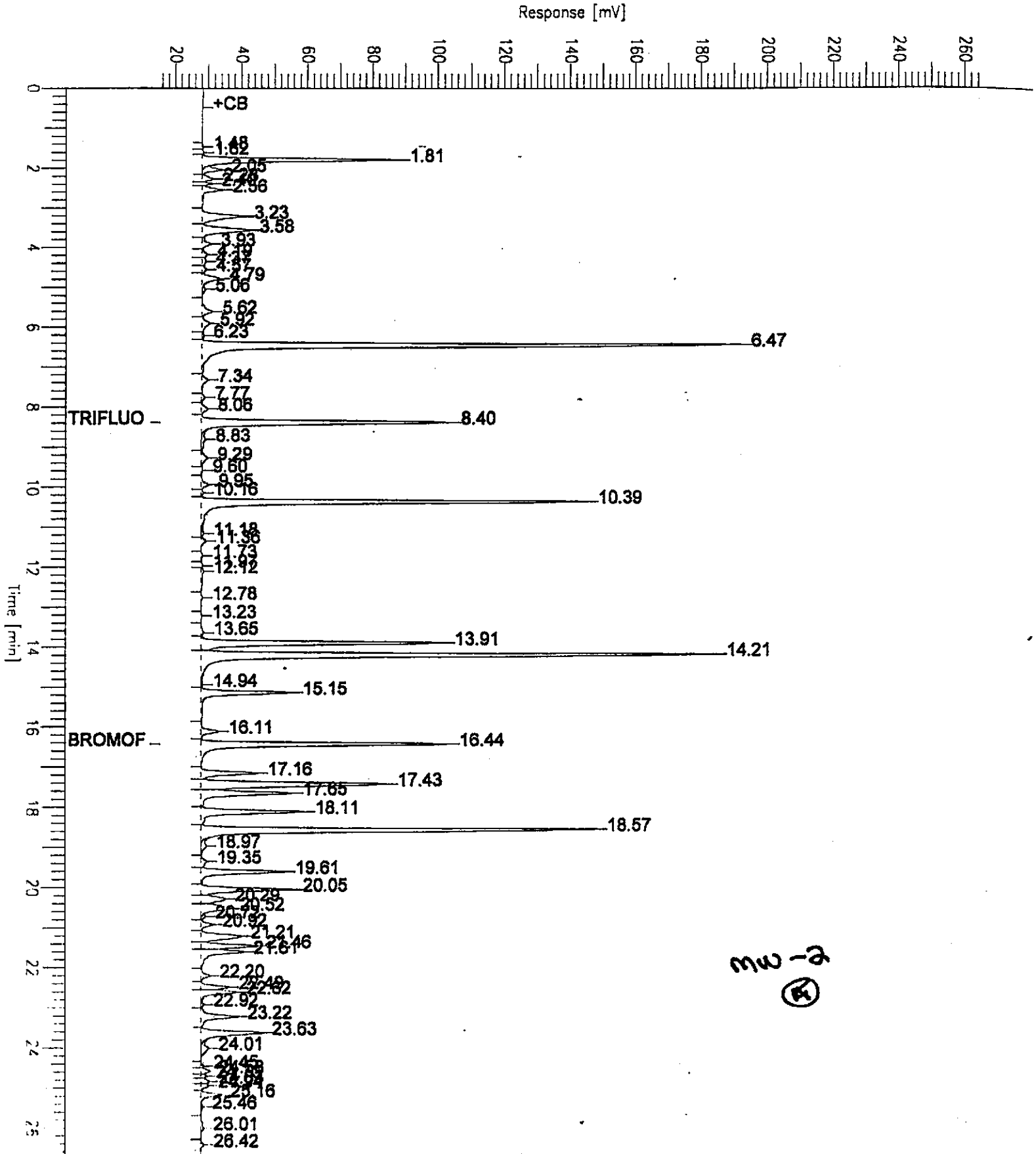


# Chromatogram

Sample Name : RR,137630-002A,46044,  
FileName : G:\GC05\DATA\033G034.raw  
Method : TVHBTXE  
Start Time : 0.00 min  
Scale Factor : -1.0

End Time : 26.80 min  
Plot Offset : 15 mV

Sample #: pH=1  
Date : 2/3/99 10:18 AM  
Time of Injection: 2/3/99 09:50 AM  
Low Point : 15.45 mV  
Plot Scale: 250.0 mV  
High Point : 263.45 mV



Lab #: 137630

BATCH QC REPORT



Curtis & Tompkins, Ltd. 1

TVH-Total Volatile Hydrocarbons

Client: Chaney, Walton & McCall  
Location: Thompson & Thompson Fence

Analysis Method: EPA 8015M  
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water  
Batch#: 46006  
Units: ug/L  
Diln Fac: 1

Prep Date: 01/29/99  
Analysis Date: 01/29/99

MB Lab ID: QC89921

Analyte	Result	
Gasoline C7-C12	<50	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	95	59-162
Bromofluorobenzene	107	59-162

Lab #: 137630

BATCH QC REPORT



Curtis & Tompkins, Ltd. 1

TVH-Total Volatile Hydrocarbons

Client: Chaney, Walton & McCall  
Location: Thompson & Thompson Fence

Analysis Method: EPA 8015M  
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water  
Batch#: 46006  
Units: ug/L  
Diln Fac: 1

Prep Date: 01/29/99  
Analysis Date: 01/29/99

LCS Lab ID: QC89920

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	2030	2000	102	80-119
Surrogate	%Rec	Limits		
Trifluorotoluene	126	59-162		
Bromofluorobenzene	114	59-162		

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

Lab #: 137630

BATCH QC REPORT



Curtis & Tompkins, Inc. 1

TVH-Total Volatile Hydrocarbons

Client: Chaney, Walton & McCall  
 Location: Thompson & Thompson Fence  
 Analysis Method: EPA 8015M  
 Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ  
 Lab ID: 137677-005  
 Matrix: Water  
 Batch#: 46006  
 Units: ug/L  
 Diln Fac: 1  
 Sample Date: 01/26/99  
 Received Date: 01/26/99  
 Prep Date: 01/30/99  
 Analysis Date: 01/30/99

MS Lab ID: QC89924

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	2000	<50	1988	99	71-131
Surrogate	%Rec	Limits			
Trifluorotoluene	106	59-162			
Bromofluorobenzene	113	59-162			

MSD Lab ID: QC89925

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	2000	2105	105	71-131	6	26
Surrogate	%Rec	Limits				
Trifluorotoluene	93	59-162				
Bromofluorobenzene	111	59-162				

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits



Lab #: 137630

BATCH QC REPORT



Curtis & Tompkins, Ltd. 1

TVH-Total Volatile Hydrocarbons

Client: Chaney, Walton & McCall  
Location: Thompson & Thompson Fence

Analysis Method: EPA 8015M  
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water  
Batch#: 46044  
Units: ug/L  
Diln Fac: 1

Prep Date: 02/02/99  
Analysis Date: 02/02/99

MB Lab ID: QC90060

Analyte	Result	
Gasoline C7-C12	<50	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	98	59-162
Bromofluorobenzene	117	59-162

Lab #: 137630

BATCH QC REPORT



Curtis & Tompkins, Inc. 1

TVH-Total Volatile Hydrocarbons

Client: Chaney, Walton & McCall  
Location: Thompson & Thompson Fence

Analysis Method: EPA 8015M  
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water  
Batch#: 46044  
Units: ug/L  
Diln Fac: 1

Prep Date: 02/02/99  
Analysis Date: 02/02/99

LCS Lab ID: QC90059

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	1867	2000	93	80-119
Surrogate	%Rec	Limits		
Trifluorotoluene	116	59-162		
Bromofluorobenzene	98	59-162		

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

Lab #: 137630

BATCH QC REPORT



Curtis & Tompkins, Inc. 1

TVH-Total Volatile Hydrocarbons

Client: Chaney, Walton & McCall  
 Location: Thompson & Thompson Fence

Analysis Method: EPA 8015M  
 Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ  
 Lab ID: 137755-002  
 Matrix: Water  
 Batch#: 46044  
 Units: ug/L  
 Diln Fac: 1

Sample Date: 01/31/99  
 Received Date: 02/01/99  
 Prep Date: 02/03/99  
 Analysis Date: 02/03/99

MS Lab ID: QC90063

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	2000	<50	1749	87	71-131
Surrogate	%Rec	Limits			
Trifluorotoluene	119	59-162			
Bromofluorobenzene	107	59-162			

MSD Lab ID: QC90064

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	2000	1832	92	71-131	5	26
Surrogate	%Rec	Limits				
Trifluorotoluene	124	59-162				
Bromofluorobenzene	109	59-162				

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 1 outside limits

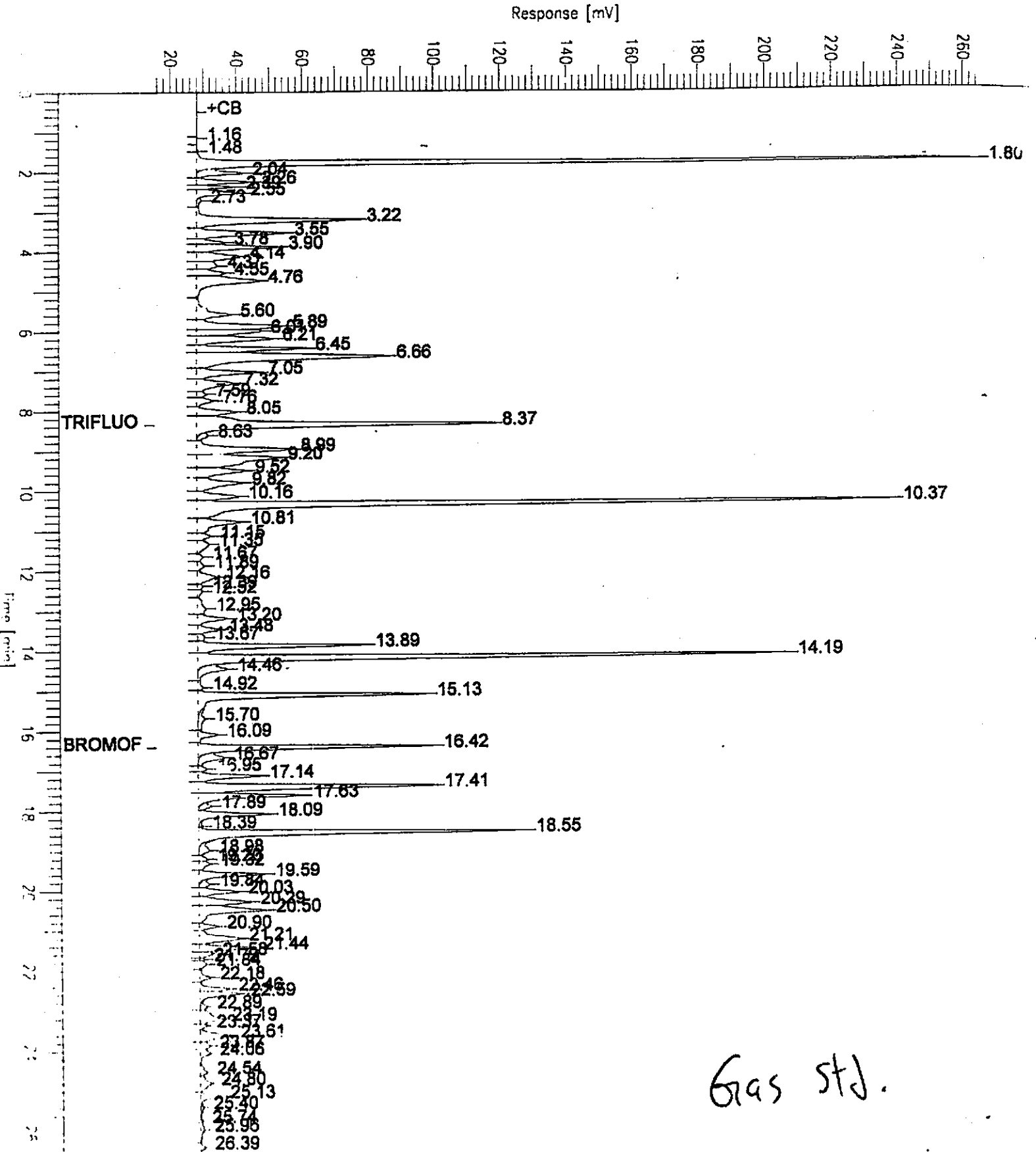
Spike Recovery: 0 out of 2 outside limits

# Chromatogram

Sample Name : CCV/LCS, QC90059, 98WS6813, 46044,  
FileName : G:\GC05\DATA\03JG001.raw  
Method : TVHBTXE  
Start Time : 0.00 min  
Scale Factor: -1.0

End Time : 26.80 min  
Plot Offset: 15 mV

Sample #: GAS  
Date : 2/2/99 05:00 PM  
Time of Injection: 2/2/99 10:46 AM  
Low Point : 15.14 mV  
Plot Scale: 250.0 mV  
High Point : 265.14 mV



# Chromatogram

Sample Name : CCV/LCS.QC89920.98WS6813.46006

Sample #: GAS

Page 1 of 1

FileName : g:\gc05\data\028g029.raw

Date : 2/1/99 02:03 PM

Method : TVHBTXE

Time of Injection: 1/29/99 03:05 PM

Start Time : 0.00 min

End Time : 26.80 min

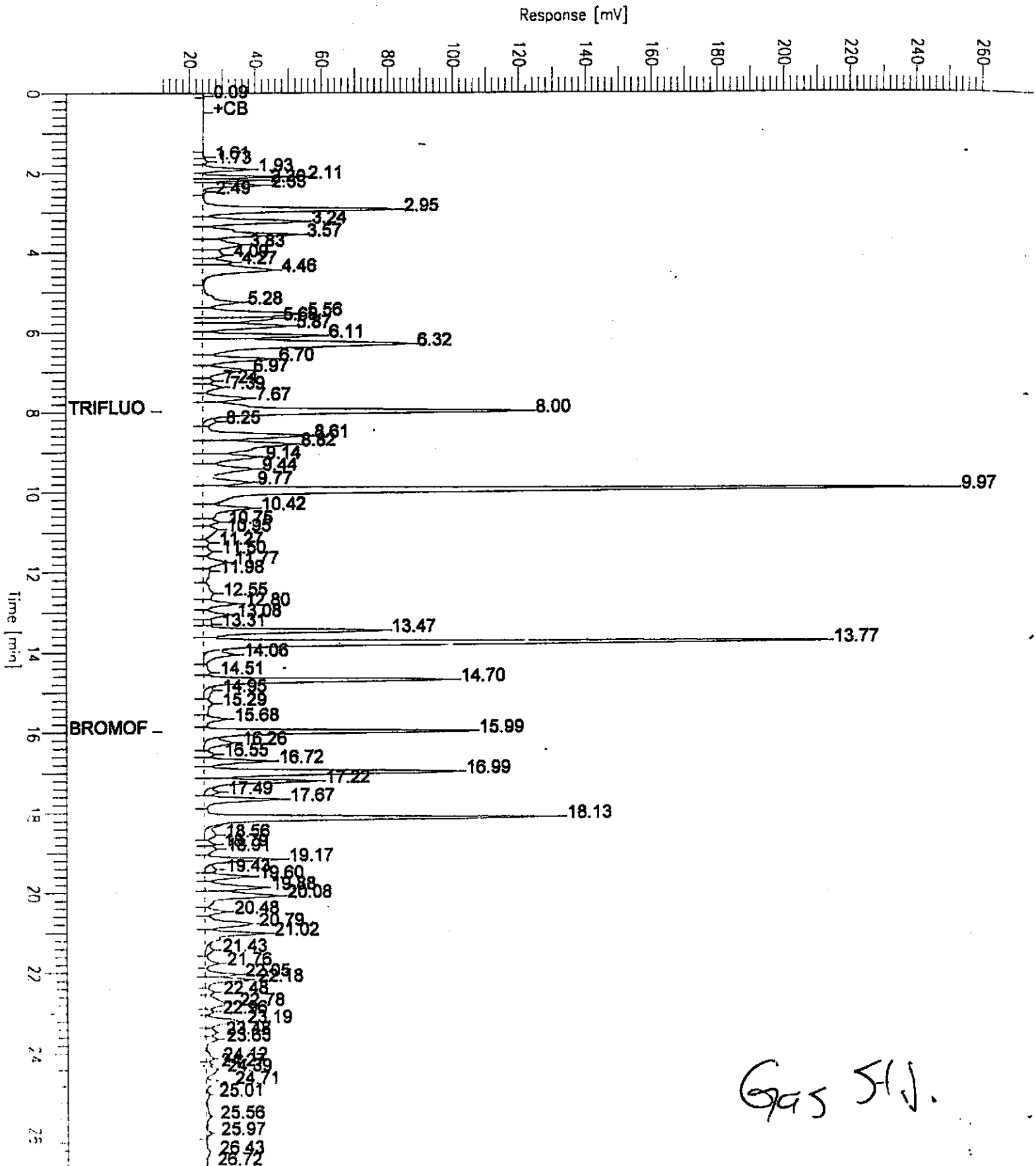
Low Point : 11.61 mV

High Point : 261.61 mV

Scale Factor: -1.0

Plot Offset: 12 mV

Plot Scale: 250.0 mV





## BTXE

Client: Chaney, Walton & McCall  
Location: Thompson & Thompson Fence

Analysis Method: EPA 8021B  
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
137630-001	MW-1	46006	01/21/99	01/30/99	01/30/99	
137630-002	MW-2	46044	01/21/99	02/03/99	02/03/99	
137630-003	MW-3	46006	01/21/99	01/30/99	01/30/99	

Matrix: Water

Analyte	Units	137630-001	137630-002	137630-003
Diln Fac:		20	10	1
MTBE	ug/L	110	300	<2
Benzene	ug/L	1800	1100	<0.5
Toluene	ug/L	120	780	<0.5
Ethylbenzene	ug/L	890	540	<0.5
m,p-Xylenes	ug/L	1500	1100	<0.5
o-Xylene	ug/L	240	210	<0.5
Surrogate				
Trifluorotoluene	%REC	62	83	99
Bromofluorobenzene	%REC	108	111	117

Lab #: 137630

BATCH QC REPORT



Curtis & Tompkins, Ltd. 1

BTXE

Client: Chaney, Walton & McCall  
Location: Thompson & Thompson Fence

Analysis Method: EPA 8021B  
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water  
Batch#: 46006  
Units: ug/L  
Diln Fac: 1

Prep Date: 01/29/99  
Analysis Date: 01/29/99

MB Lab ID: QC89921

Analyte	Result	
MTBE	<2.0	
Benzene	<0.5	
Toluene	<0.5	
Ethylbenzene	<0.5	
m,p-Xylenes	<0.5	
o-Xylene	<0.5	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	92	53-124
Bromofluorobenzene	107	41-142

Lab #: 137630

BATCH QC REPORT



Curtis & Tompkins, Ltd. 1

BTXE

Client: Chaney, Walton & McCall  
 Location: Thompson & Thompson Fence

Analysis Method: EPA 8021B  
 Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water  
 Batch#: 46006  
 Units: ug/L  
 Diln Fac: 1

Prep Date: 01/29/99  
 Analysis Date: 01/29/99

BS Lab ID: QC89922

Analyte	Spike Added	BS	%Rec #	Limits
MTBE	20	17.89	89	65-135
Benzene	20	18.71	94	69-109
Toluene	20	19.89	99	72-116
Ethylbenzene	20	20.79	104	67-120
m,p-Xylenes	40	42.41	106	69-117
o-Xylene	20	21.51	108	75-122
Surrogate			%Rec	Limits
Trifluorotoluene			94	53-124
Bromofluorobenzene			113	41-142

BSD Lab ID: QC89923

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
MTBE	20	17.99	90	65-135	1	20
Benzene	20	18.6	93	69-109	1	11
Toluene	20	20.11	101	72-116	1	11
Ethylbenzene	20	20.83	104	67-120	0	12
m,p-Xylenes	40	42.09	105	69-117	1	11
o-Xylene	20	21.54	108	75-122	0	12
Surrogate			%Rec	Limits		
Trifluorotoluene			93	53-124		
Bromofluorobenzene			110	41-142		

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits



Lab #: 137630

BATCH QC REPORT



Curtis & Tompkins, Ltd. 1

BTXE

Client: Chaney, Walton & McCall  
Location: Thompson & Thompson Fence

Analysis Method: EPA 8021B  
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water  
Batch#: 46044  
Units: ug/L  
Diln Fac: 1

Prep Date: 02/02/99  
Analysis Date: 02/02/99

MB Lab ID: QC90060

Analyte	Result
MTBE	<2.0
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylenes	<0.5
o-Xylene	<0.5

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	99	53-124
Bromofluorobenzene	107	41-142

Lab #: 137630

BATCH QC REPORT



Curtis & Tompkins, Ltd. 1

BTKE

Client: Chaney, Walton & McCall  
 Location: Thompson & Thompson Fence

Analysis Method: EPA 8021B  
 Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water  
 Batch#: 46044  
 Units: ug/L  
 Diln Fac: 1

Prep Date: 02/02/99  
 Analysis Date: 02/02/99

BS Lab ID: QC90061

Analyte	Spike Added	BS	%Rec #	Limits
MTBE	20	19.95	100	65-135
Benzene	20	18.44	92	69-109
Toluene	20	19.43	97	72-116
Ethylbenzene	20	20.56	103	67-120
m,p-Xylenes	40	40.98	102	69-117
o-Xylene	20	21.18	106	75-122
Surrogate			%Rec	Limits
Trifluorotoluene			94	53-124
Bromofluorobenzene			109	41-142

BSD Lab ID: QC90062

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
MTBE	20	20.24	101	65-135	1	20
Benzene	20	18.51	93	69-109	0	11
Toluene	20	19.89	99	72-116	2	11
Ethylbenzene	20	20.74	104	67-120	1	12
m,p-Xylenes	40	41.65	104	69-117	2	11
o-Xylene	20	21.44	107	75-122	1	12
Surrogate			%Rec	Limits		
Trifluorotoluene			87	53-124		
Bromofluorobenzene			105	41-142		

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits