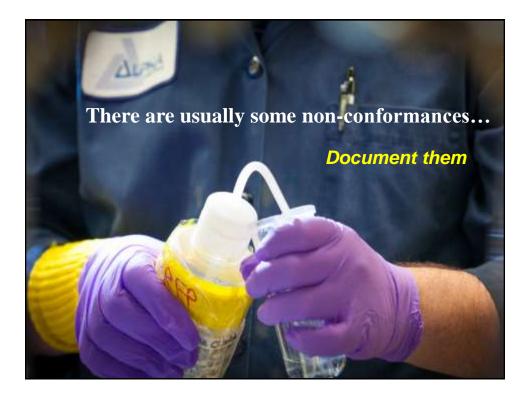


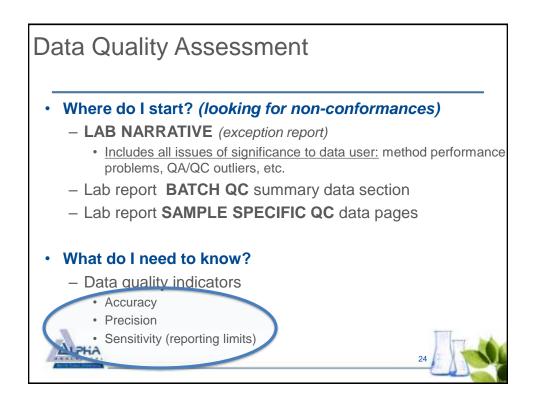
Duality Control Requirements and Performance Standards for the Analysis of Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) in Support of Response Actions under the Massachusetts Contingency Plan (MCP)

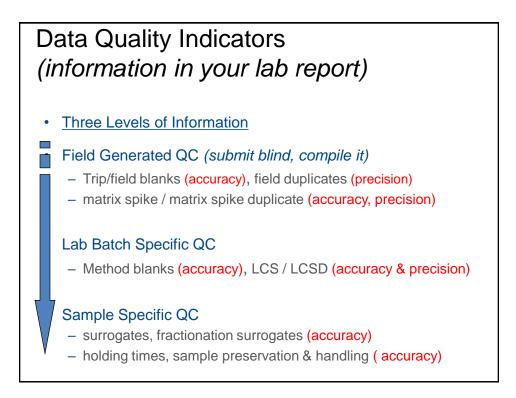
Tabl	e II A-1: Specific C	IC Requirements and Performance	Standards for	r vocs (SW-846 8	200B) Using WSC-CA	
Reamed QC Parameter	Gana Oscality Objection	Propried Parliemence Standard	Required Defrection?	Hejection Criteria per MSC 07-050	Resourced Correction Galaxy	Required development Response Action
hylid Devianistation of . Franksiesca	Laduratory Analytical Accuracy & Precision	 Hilder be performed prior to uning reached or samples. Haar is performed for each coarts. Most contain all ranger solution. Most follow procedure is Section 6.4 of 500-646 (2000). 	No	NA:	Robusto Saction 8.4 of NV-Alia 80005 and Section 3.1.2 of 901 protocol	- No.
GC/WE Turner with BFB	Indus-laboratory Consistence & Comparability	 Criteria Scried in Table 4 of 100 046 02000 (the careir orderstansactive conditional analyses) Scriety ID Scriet phone to cardiple analysis. 	No	NA.	Partury Integrant mainterance to processing retained instrument,	Suspiral of analyses set basing new compliance is restilled.
tessa California	Laboretory Analytical decoming	 Di Mari fei melytetti eli kust tere preterio melytetti agrissimativi, silve visibili californiario verificationi in containing calibrativo verificationi in containing eliterativo verificationi eliterativi adalla eliterativi eliteratittario eliterati eliterativi eliterativi eliterativi elitera	866	RF = 10.4% attents soulderen immedia for affectual analytic in aff immedia analytical couldwidth initial collocation initial collocation.	 Handmark R 100% of single analytic existing SIGD, 77, 167 % This SIGD, 77, 167 % This single analytic existing second coloring, metable coloring, resulting of the single analytic second coloring, results and an image as MARB coloring and the single and the metable coloring, results and an image as MARB coloring and the single and second coloring, results and an image as MARB instantic coloring, the single and the single and single and single	Larregita analysis Lancest Particular allocation, Particul calibration, Papperis neurosciencies, comparate fixika valor data fixi particular allocation and data fixi particular allocation and data fixika analysis cale and balancestary representation in anyof fixis reacting statement balancestary representation along with the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparately allocation of the comparat

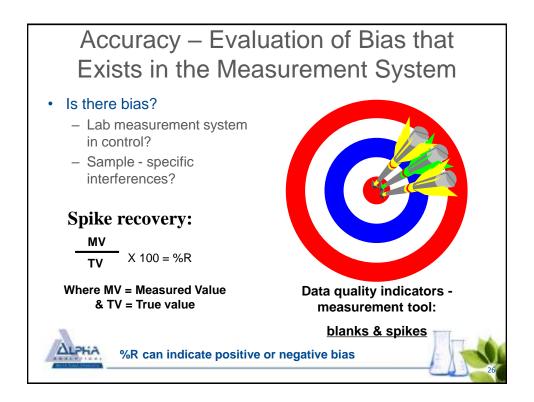


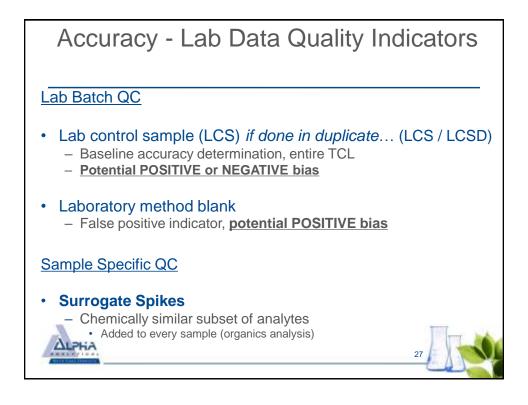
	Data Quality Assessment- <u>Starting the Process</u> (w/ CAM, RCP, DKQP compliant data)					
•	 "Presumptive Certainty", Reasonable Confidence and/or "Data of Known Quality" QUESTION H* (CAM) "Were all QC performance standards for the specified methods achieved?" "YES" 					
A	Were all samples received in a condition consistent with those described on the Chain-of- Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	O Yes O N				
в	Ware the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	□ Yes □ N				
с	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?					
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Quidelines for the Acquisition and Reporting of Analytical Data"	G Yes D N				
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH. Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications) b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	⊡Yes ⊡Ni ⊡Yes ⊡Ni				
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	O Yes D N				
Re	sponses to Questions G, H and I below are required for "Presumptive Certainty" statu	15				
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	C Yes C No				
1	Pata User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usa	billity and				
		TYes No				
н	Were all QC performance standards specified in the CAM protocol(s) achieved?	LI 165 LI 160				

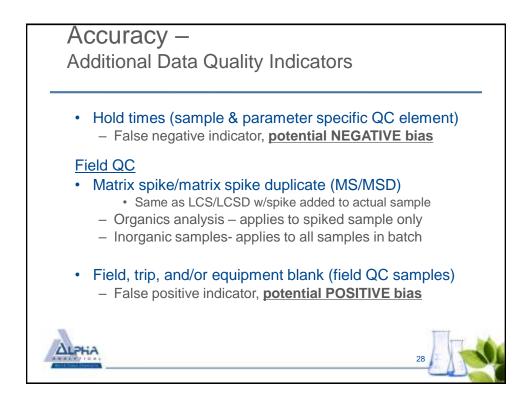




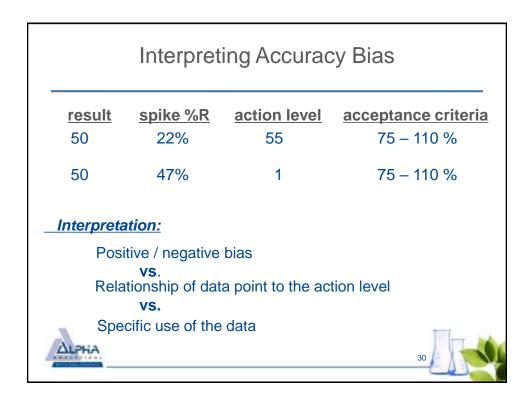


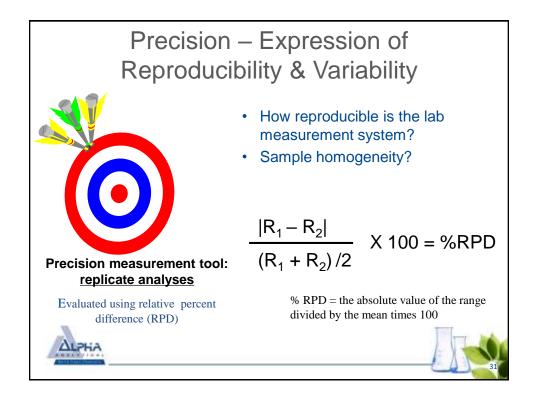


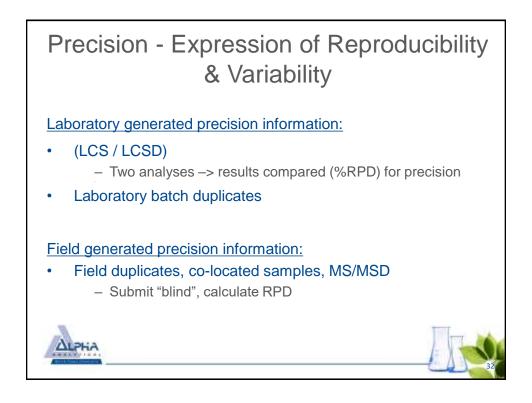




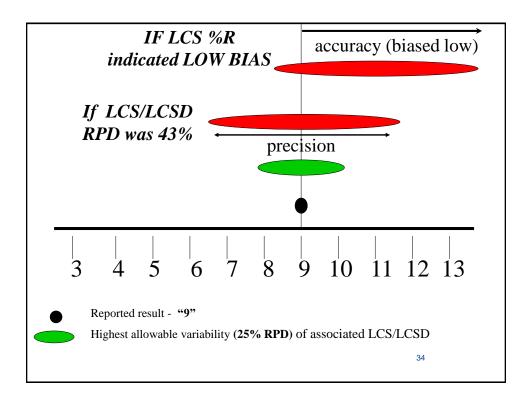
Evaluatin		does the criteria come from? What's in your report?
Example %R	Example Acceptance Criteria	Recommendation
55	70 - 130	Negative bias
147	70 - 130	Positive bias
• %R us	be positive or negative, ed for surrogates, LCS/LCS n't do the math!	
• A word	l about positive bias	29

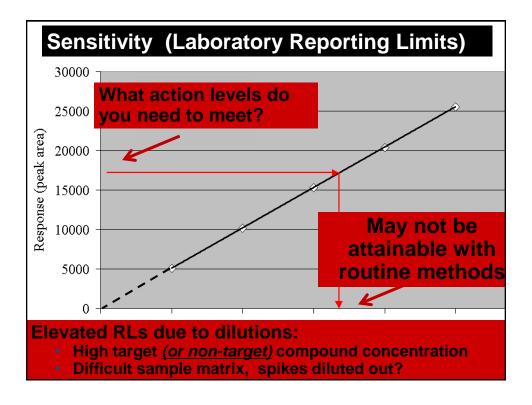






Evalua	ting Precision	
Example RPD	Example Acceptance Criteria (%RPD Upper Limit)	Recommendation
14	25	Precision <u>within</u> acceptable range
35	25	Precision <u>outside</u> acceptable range
– Gre) acceptance criteria rep eater the RPD, more van) used for LCS/LCSD, N	
ЦРНА		





So...Is the Data Usable?

