

H. A. Bader, Consultants

TLI Project: 56392
 Sample: 605

Method 8290 TCDD/TCDF Analysis (DB-225)
 Analysis File: P020108

Client Project:	NYC WTC area testing			Spike File:	SPC2NF4W
Sample Matrix:	WIPE	Date Received:	01/12/2002	ICal:	PF27021
TLI ID:	315-65-2	Date Extracted:	01/14/2002	ConCal:	P020100
		Date Analyzed:	01/16/2002		
Sample Size:	1.000	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	S020226	% Lipid:	n/a
GC Column:	DB-225	Analyst:	JLD	% Solids:	n/a

Analytes	Amt. (ng)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDF	0.04			0.84	23:13	B_

Internal Standard	Amt. (ng)	% Recovery	QC Limits	Ratio	RT	Flags
¹³ C ₁₂ -2,3,7,8-TCDF	2.6	64.2	40%-130%	0.78	23:11	—

Recovery Standard	Amt. (ng)	% Recovery	QC Limits	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD				0.80	22:00	—

Data Reviewer:  01/17/2002

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C2NF_PSR v2.03, LARS 6.25.01

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CITY_21MC100_003110518

InitialDate....

Data Review By:

Channel specific noise levels computed from 'NL' heights.

The Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

Page No. 1 Listing of P020108B.dbf
01/17/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/

M_Z.... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name... ID.. Flags.

		0.65-0.89		0.790-1.103			
TCDF							
304-306	DC NL	Height	0.14	0.05	0.09		
		18:32 RO 3.96	0.50	1.11	0.28	0.799	J
	DC SN	18:45 0.86	0.39			0.809	
	DC SN	18:57 RO 5.07	0.25			0.817	
		19:04 RO 1.78	1.93	1.94	1.09	0.822	
		19:29 0.83	5.55	2.52	3.03	0.840	
		19:39 RO 0.96	1.19	0.64	0.67	0.848	J
		19:47 0.89	6.04	2.85	3.19	0.853	
		19:57 RO 1.03	1.24	0.72	0.70	0.861	J
		20:15 0.72	2.35	0.98	1.37	0.873	
		20:22 0.76	6.19	2.68	3.51	0.879	
		20:32 0.67	3.37	1.35	2.02	0.886	
		20:41 0.75	8.73	3.75	4.98	0.892	
		20:50 0.78	4.28	1.88	2.40	0.899	
		21:13 0.75	17.66	7.58	10.08	0.915	
		21:41 RO 0.63	3.61	1.57	2.49	0.935	
		21:48 RO 0.47	0.32	0.14	0.30	0.940	J
		21:57 0.75	4.68	2.00	2.68	0.947	
		22:11 0.74	3.82	1.63	2.19	0.957	
		22:24 RO 1.00	0.57	0.32	0.32	0.966	J
		22:36 0.76	7.29	3.14	4.15	0.975	
		23:03 RO 0.64	3.17	1.38	2.16	0.994	
		23:13 0.84	2.95	1.35	1.60	1.001	2378-TCDF AN
		23:25 0.88	4.20	1.96	2.24	1.010	
		23:42 0.81	5.89	2.64	3.25	1.022	
		23:51 0.77	3.80	1.65	2.15	1.029	
	DC SN	24:03 0.69	0.22			1.037	
		24:09 RO 1.05	0.35	0.21	0.20	1.042	J
		24:39 0.69	1.96	0.80	1.16	1.063	
	DC SN	25:16 RO 2.33	0.05			1.090	
	DC SN	25:23 RO 0.59	0.46			1.095	
	DC WH	25:37 RO 2.25	0.07			1.105	
	DC WH	25:43 0.87	0.84			1.109	
304-306		25 Peaks	101.64				
13C12-TCDF		0.65-0.89			0.957-1.043		
316-318	DC NL	Height	0.18	0.07	0.11		
	DC WL	18:47 0.82	0.60			0.810	
	DC WL	20:42 0.88	0.15			0.893	
	DC WL	21:39 RO 1.28	1.20			0.934	
	DC WL	21:55 0.67	2.82			0.945	
		23:11 0.78	336.20	146.83	189.37	1.000	13C12-2378-TCDF ISO
		Height	73.27	31.48	41.79		

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Page No. 2 Listing of P020108B.dbf
01/17/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/
M_Z.... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name.. ID.. Flags.

DC	SN	23:27	RO	1.36	0.44			1.012		
DC	SN	23:38	RO	1.83	0.21			1.019		
		23:51		0.65	6.94	2.74	4.20	1.029		
DC	WH	25:20	RO	0.93	0.74			1.093		
316-318		2 Peaks			343.14					

----- Above: TCDF / TCDD Follows -----

13C12-TCDD		0.65-0.89		0.908-1.092	
332-334	DC NL	Height	0.30	0.22	0.08
	21:43	0.79	233.83	103.15	130.68 1.000 13C12-2378-TCDD IS1
		Height	50.00	22.11	27.89
	22:00	0.80	321.32	143.25	178.07 1.013 13C12-1234-TCDD RS1
332-334	2 Peaks		555.15		

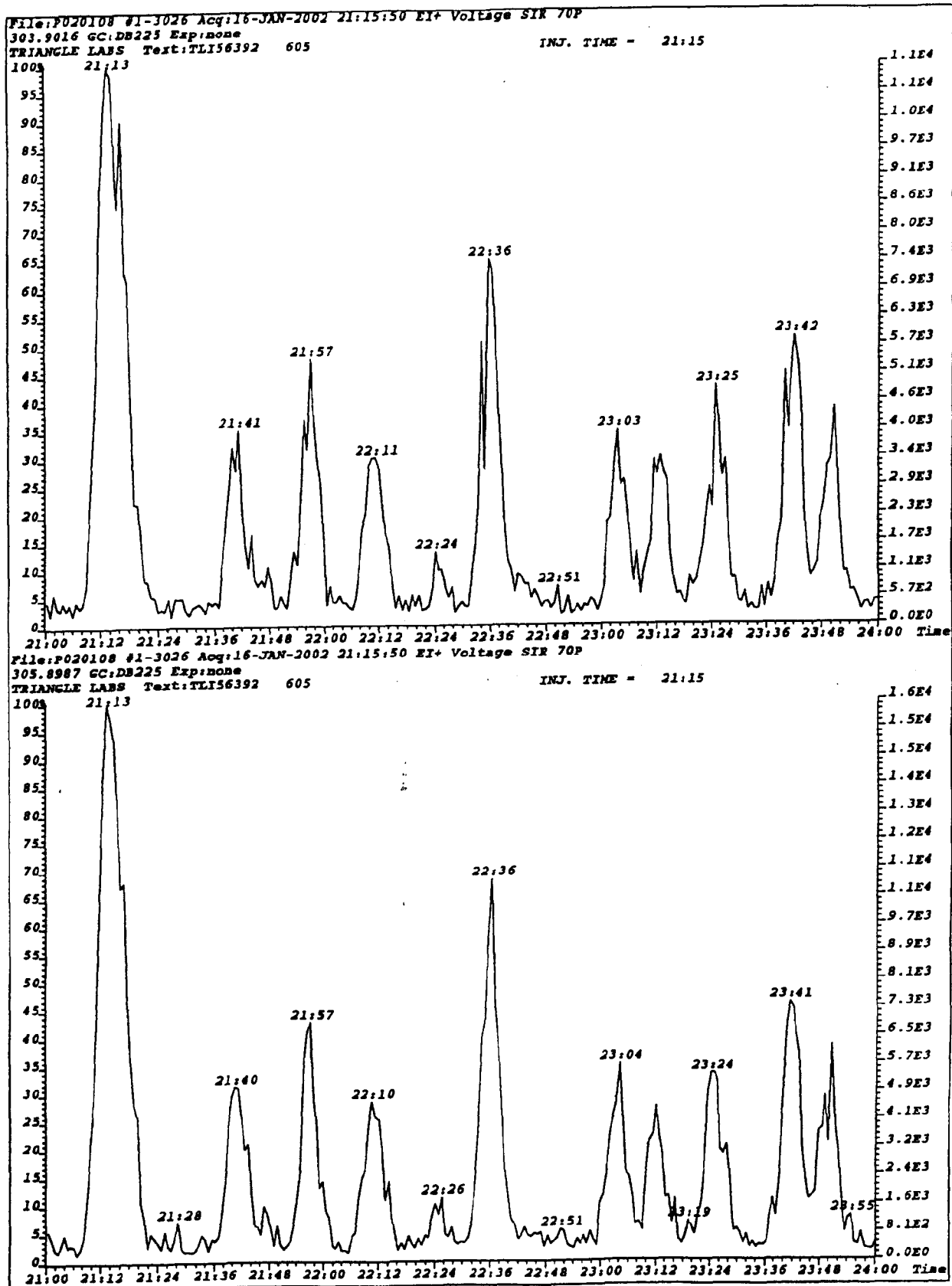
Column Description.....	"Why" Code	Description.....	QC Log Desc.....
M_Z -Nominal Ion Mass(es)	WL	Below Retention Time Window	A-Peak Added
..RT. -Retention Time (mm:ss)	WH	Above Retention Time Window	X-Peak Kept
Rat.1 -Ratio of M/M+2 Ions	SN	Below Signal to Noise Level	D-Peak Deleted
OK -RO=Ratio Outside Limits	<M	Below Method Detection Limit	T-Time Changed
Rel.RT-Relative Retention Time	NL	Channel Specific Noise Level	M-Peak Area Changed
			N-Name Changed
			X-Ether Interference

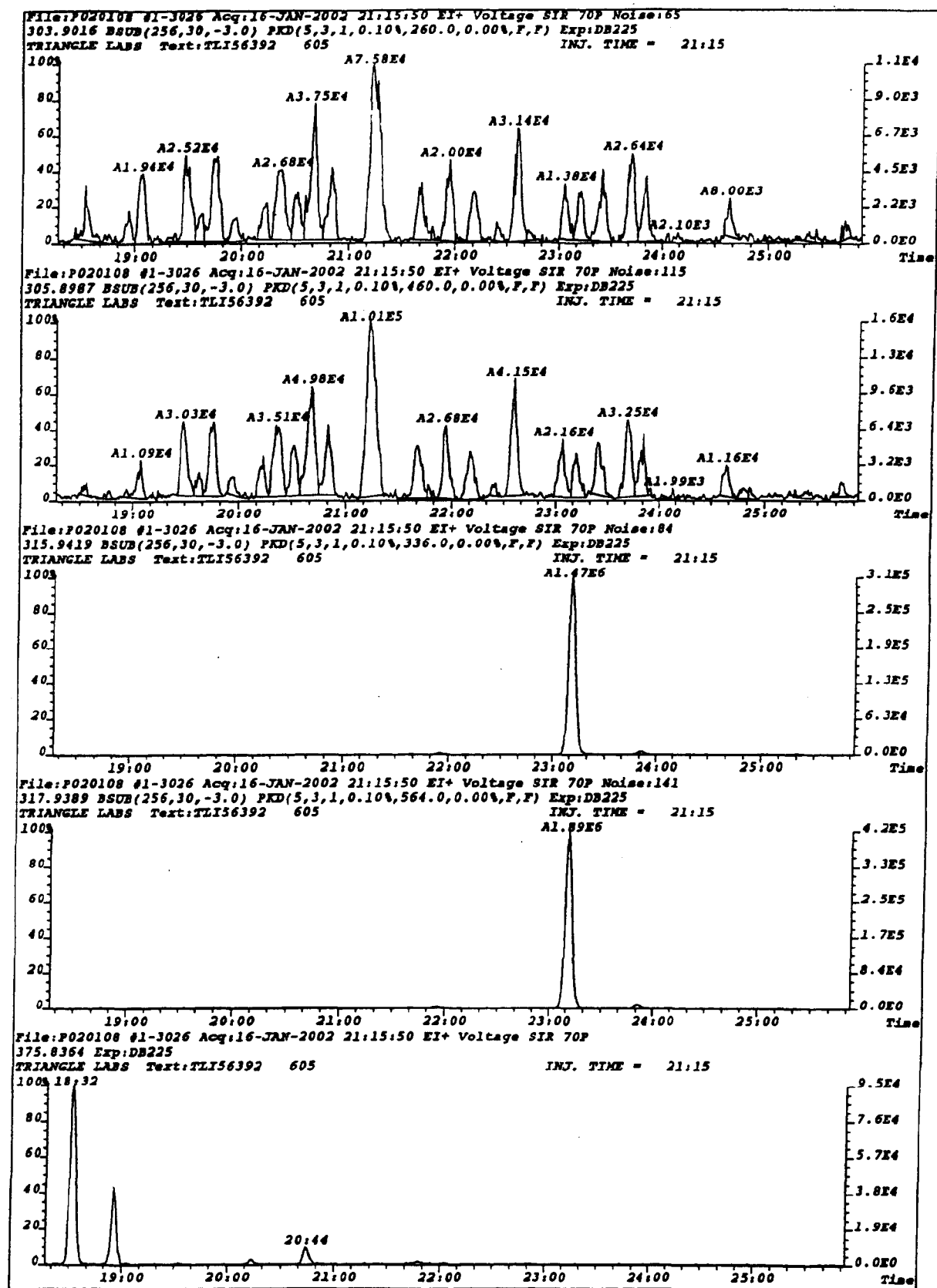
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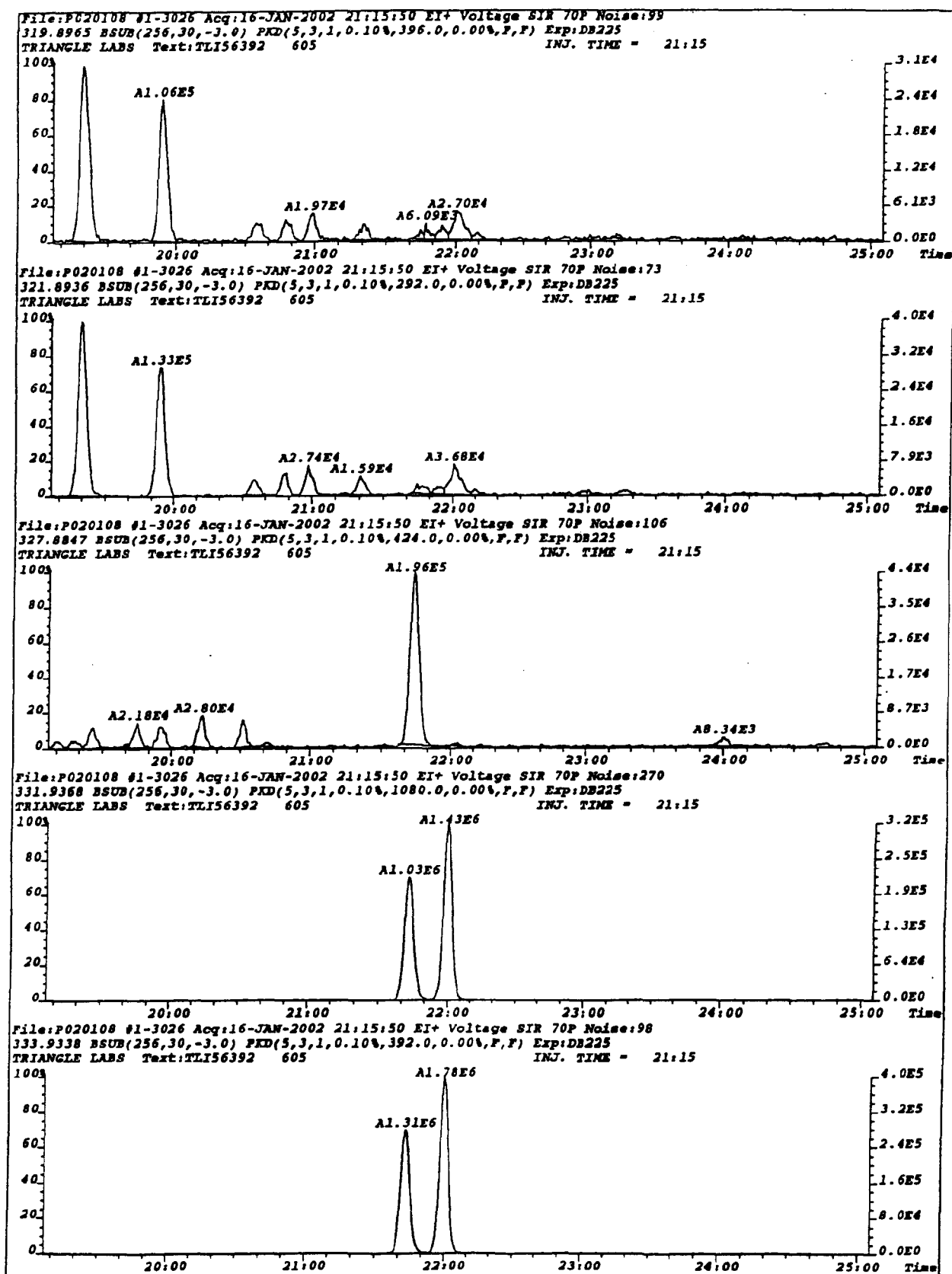
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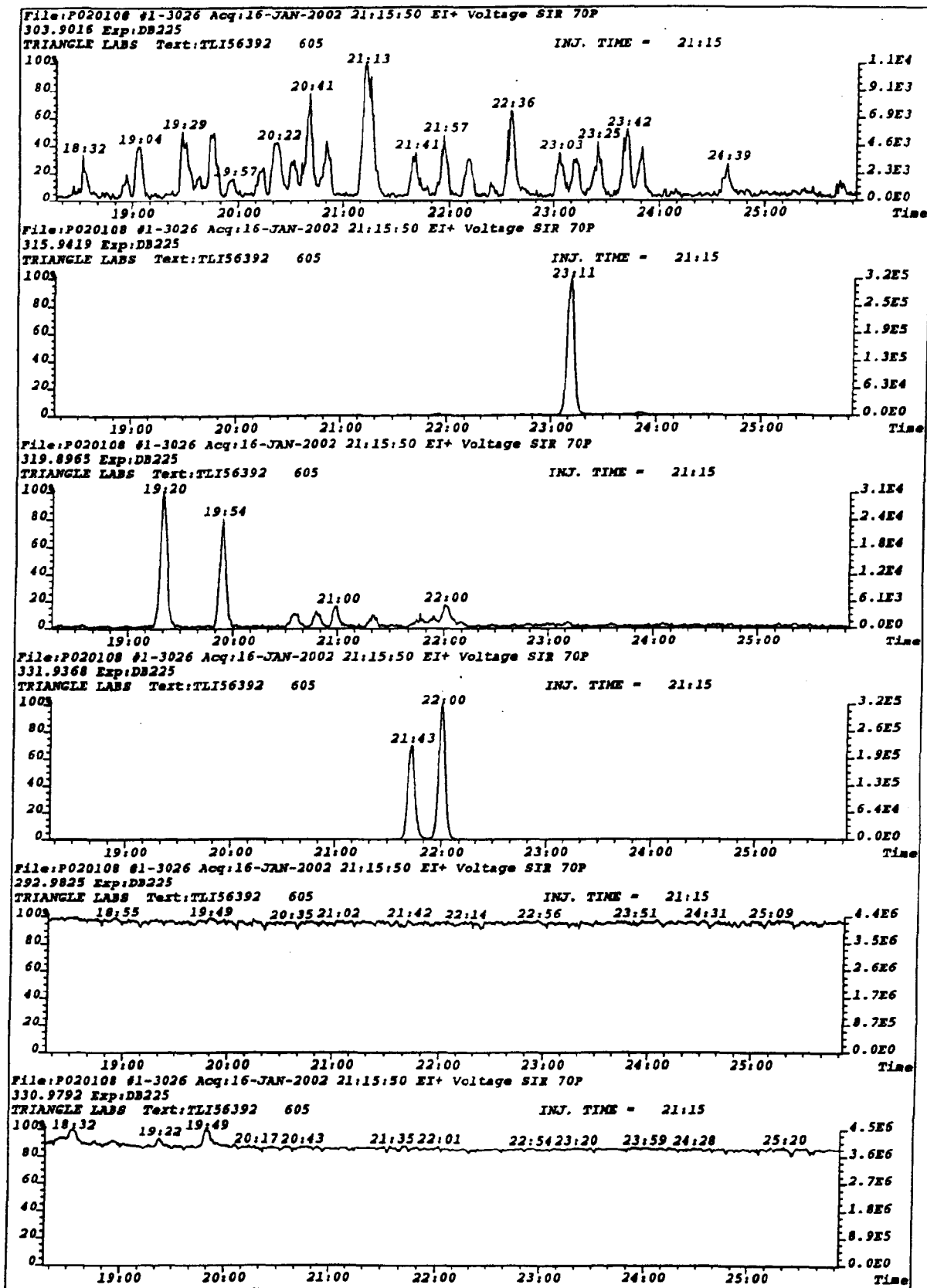
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