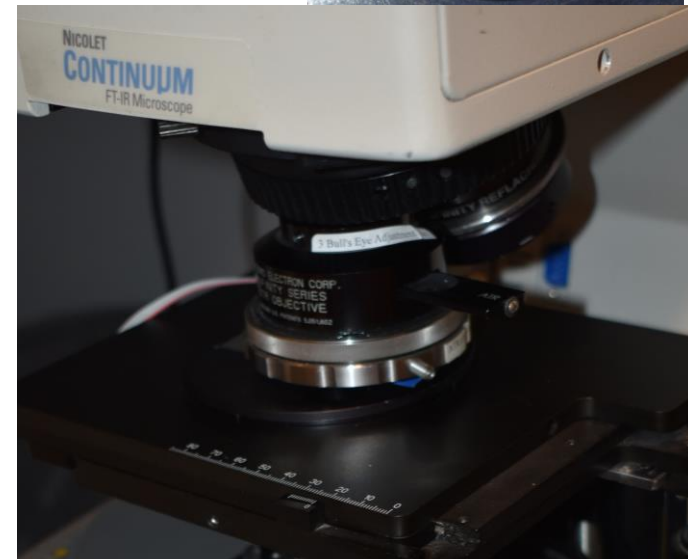
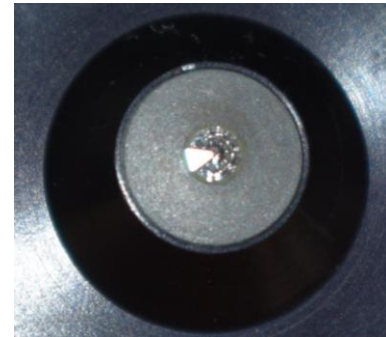
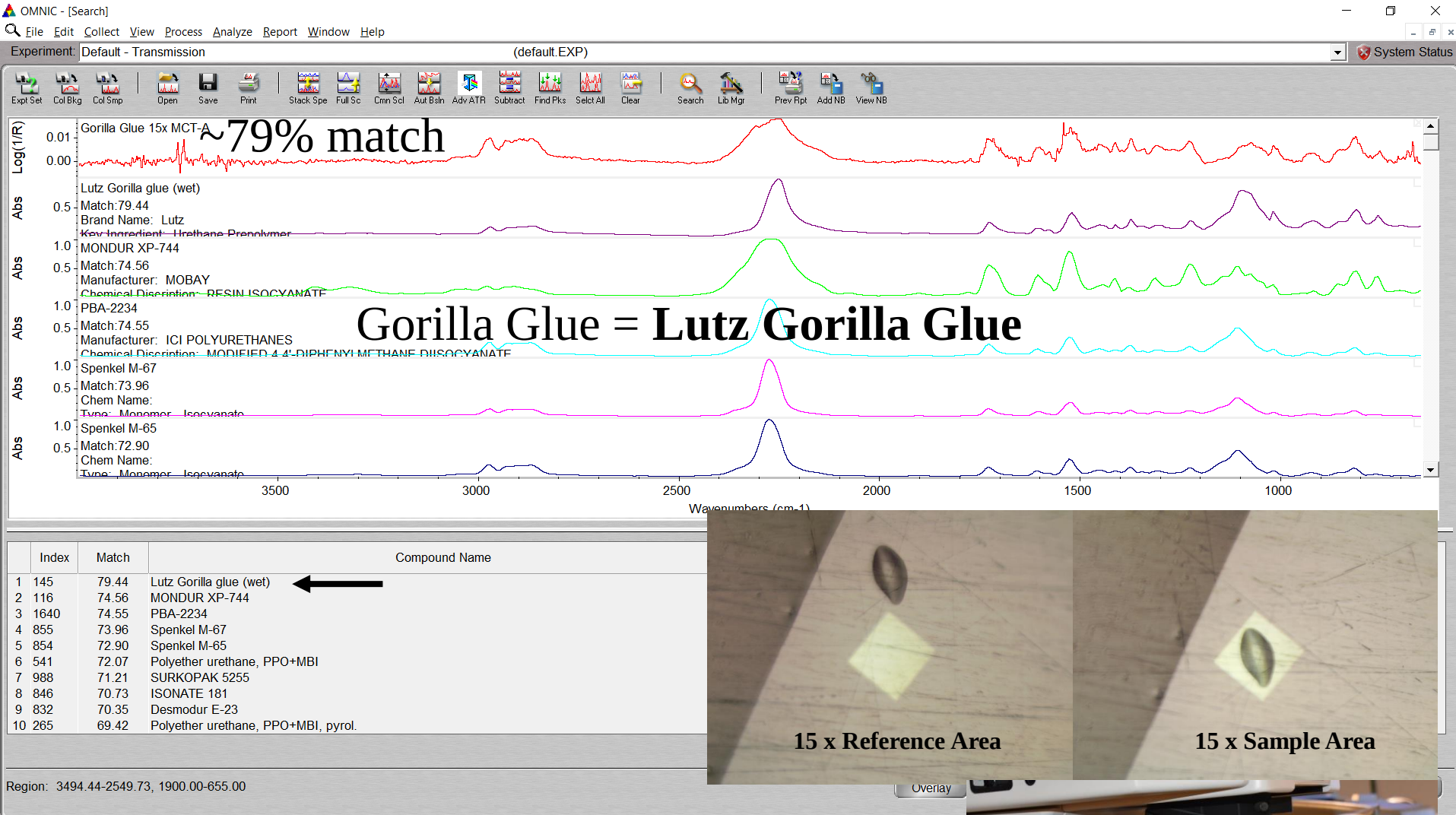


15x and 32x Refrachromat in Reflection and Infinity Series Diamond ATR Objective, MCT-A Detection and on Aluminum

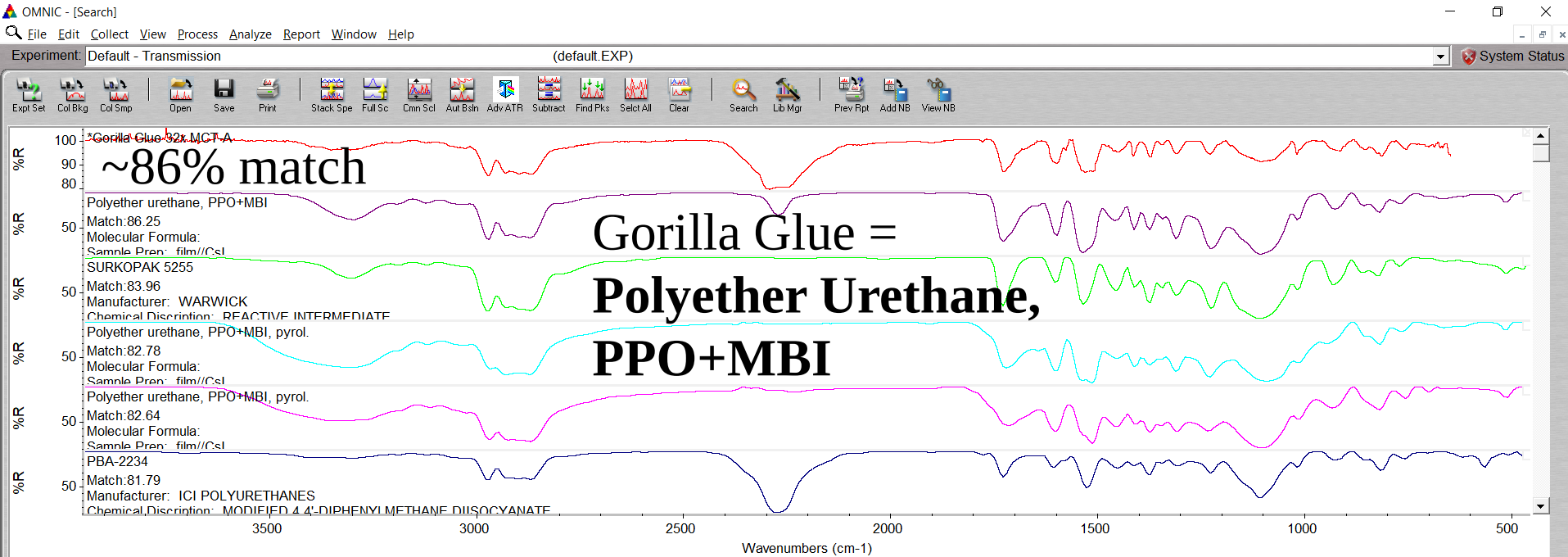
100<90% match Excellent
90<80% match Great
80<70% match OK-Good
70<60% match Unimpressive





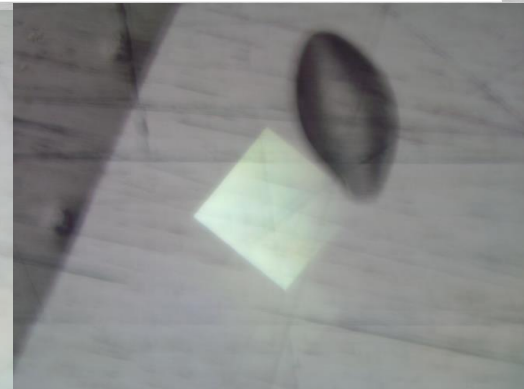
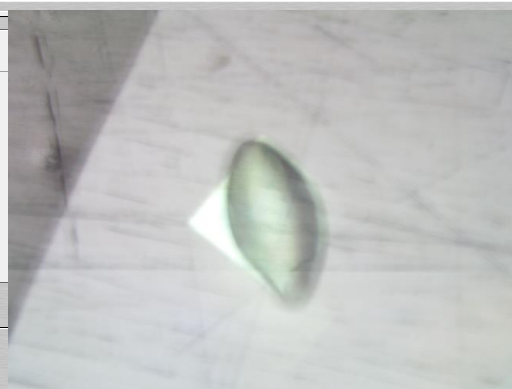
15x Refrachromat in reflection mode using an aluminum mirror.
Baseline corrected, spectral regions used.
#1 hit!





Index	Match	Compound Name
1 541	86.25	Polyether urethane, PPO+MBI
2 988	83.96	SURKOPAK 5255
3 265	82.78	Polyether urethane, PPO+MBI, pyrol.
4 273	82.64	Polyether urethane, PPO+MBI, pyrol.
5 1640	81.79	PBA-2234
6 855	81.73	Spengel M-67
7 541	80.63	Polyether urethane, polypropylene oxide + methylene bis(phen
8 271	79.65	Polyether urethane, PPO+MBI, pyrol.
9 547	79.34	Polyether urethane, PPO+MBI
10 854	78.67	Spengel M-65

Region: 3494.44-2549.73, 1900.00-655.00

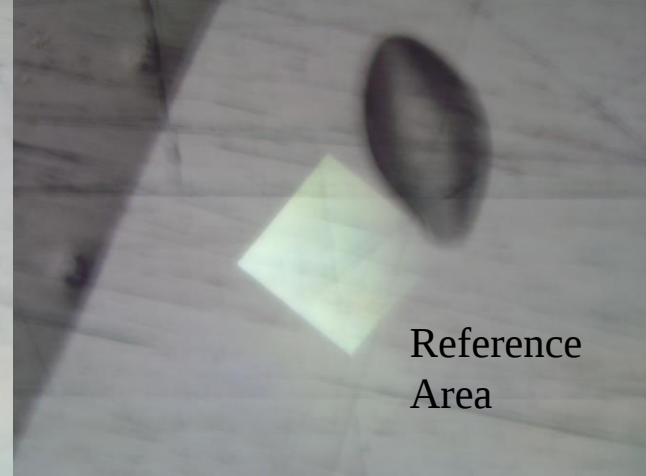
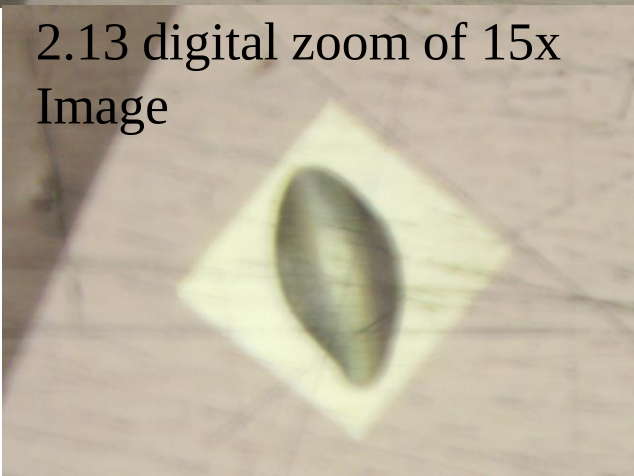


32x Refrachromat in reflection mode
using an aluminum mirror
Baseline corrected, spectral regions used.
Better matches are not always accurate.

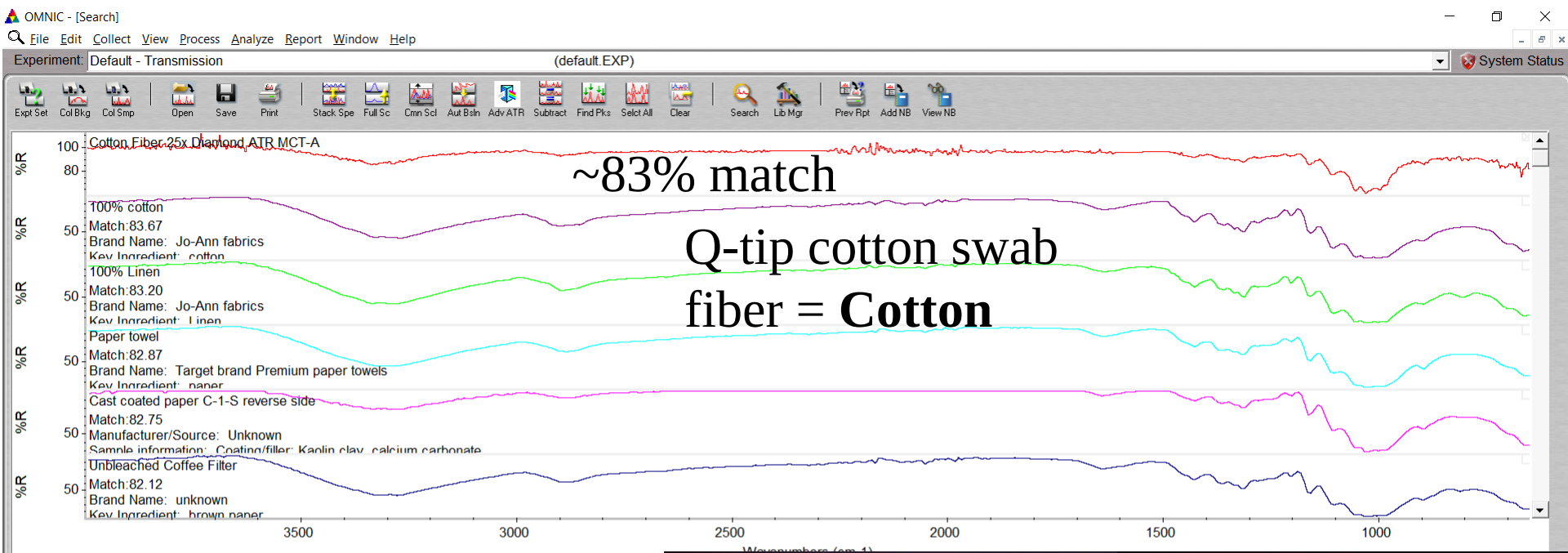


Gorilla Glue Drop on Aluminum Mirror

15x vs. 32x Refrachromat objectives in reflection mode



A bit better resolution

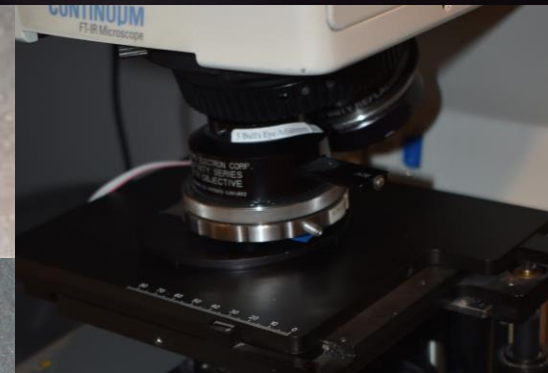
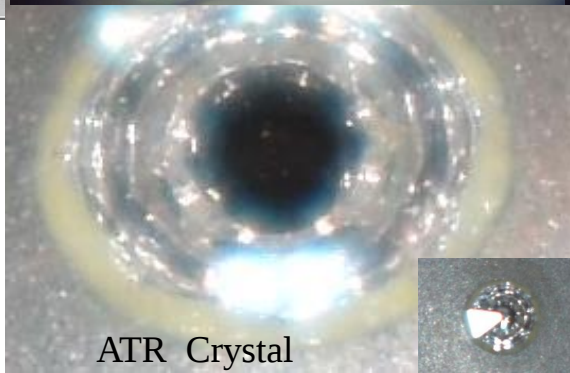


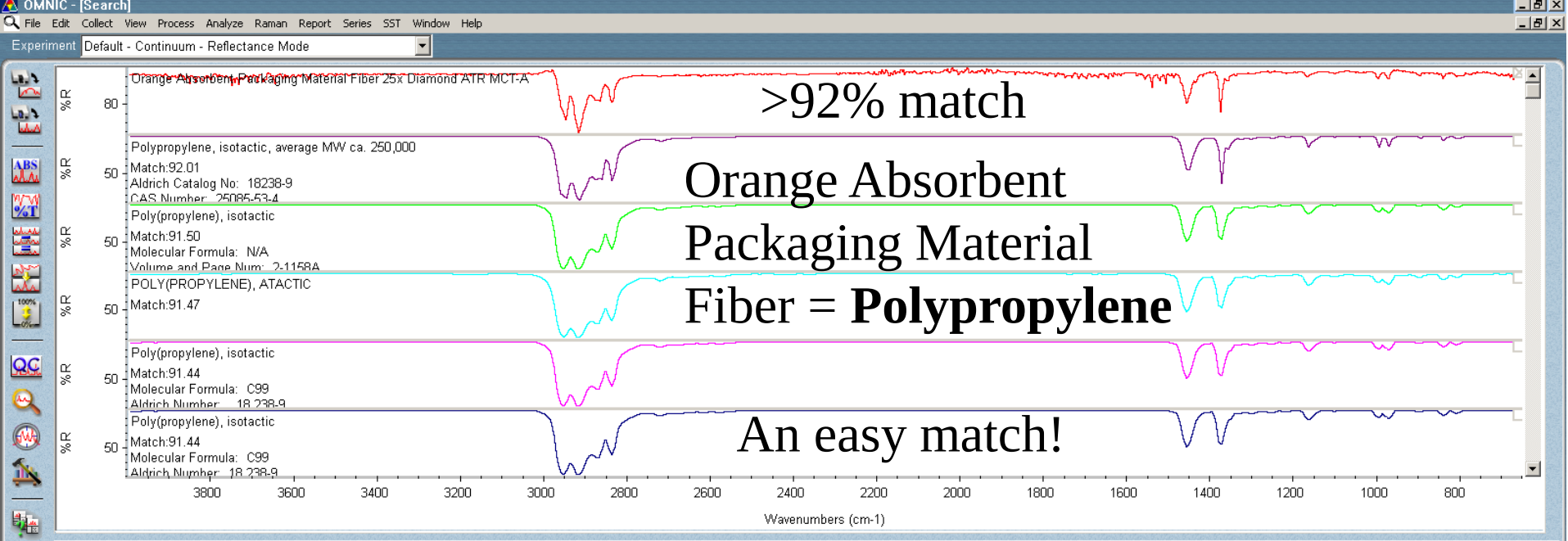
	Index	Match	Compound Name
1	36	83.67	100% cotton ←
2	30	83.20	100% Linen
3	173	82.87	Paper towel
4	20	82.75	Cast coated paper C-1-S reverse side
5	183	82.12	Unbleached Coffee Filter
6	59	81.95	150 grit sandpaper (back side)
7	226	81.72	Manila folder
8	170	81.37	Bleached coffee filter
9	6	81.32	18 point coated carton newsback paper-back side
10	225	80.60	Cardboard, 150lb burst

Region: 3494.44 - 655.00



~83% match
Cotton, Paper, Cellulose, and even
Rayon have issues with best matches.
This match is exceptional as it correctly
selects cotton as #1.





	Index	Match	Compound Name	Library Name
1	17997	92.01	Polypropylene, isotactic, average MW ca. 250,000	Aldrich FT-IR Collection Edition II
2	985	91.50	Poly(propylene), isotactic	Nicolet Condensed Phase Academic
3	41	91.47	POLY(PROPYLENE), ATACTIC	Hummel Polymer Sample Library
4	5	91.44	Poly(propylene), isotactic	Aldrich Polymers
5	10337	91.44	Poly(propylene), isotactic	Aldrich Condensed Phase
6	566	91.41	Polypropylene, atactic	Hummel Polymer and Additives
7	1476	90.98	POLYPROPYLENE #3	Polymer Additives and Plasticizers
8	324	90.96	Polypropylene+poly(ethylene:propylene)	Hummel Polymer and Additives
9	942	90.30	Polypropylene, isotactic	Hummel Polymer and Additives
10	1653	89.68	POLYPROPYLENE-AMORPHOUS	Polymer Additives and Plasticizers
11	393	89.52	POLYPROPYLENE, ISOTACTIC	fdmopa
12	1061	88.65	Poly(propylene:butenone):2:1	Hummel Polymer and Additives
13	437	87.92	POLYPROPYLENE #2	Polymer Additives and Plasticizers
14	499	87.27	Poly(propylene:ethylene):83mol%C3	Hummel Polymer and Additives

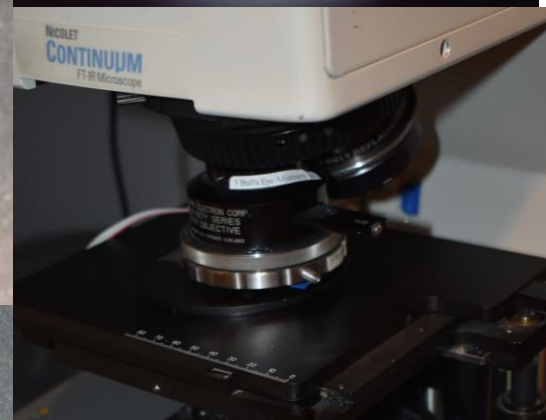
Region: 3494.44 - 655.00

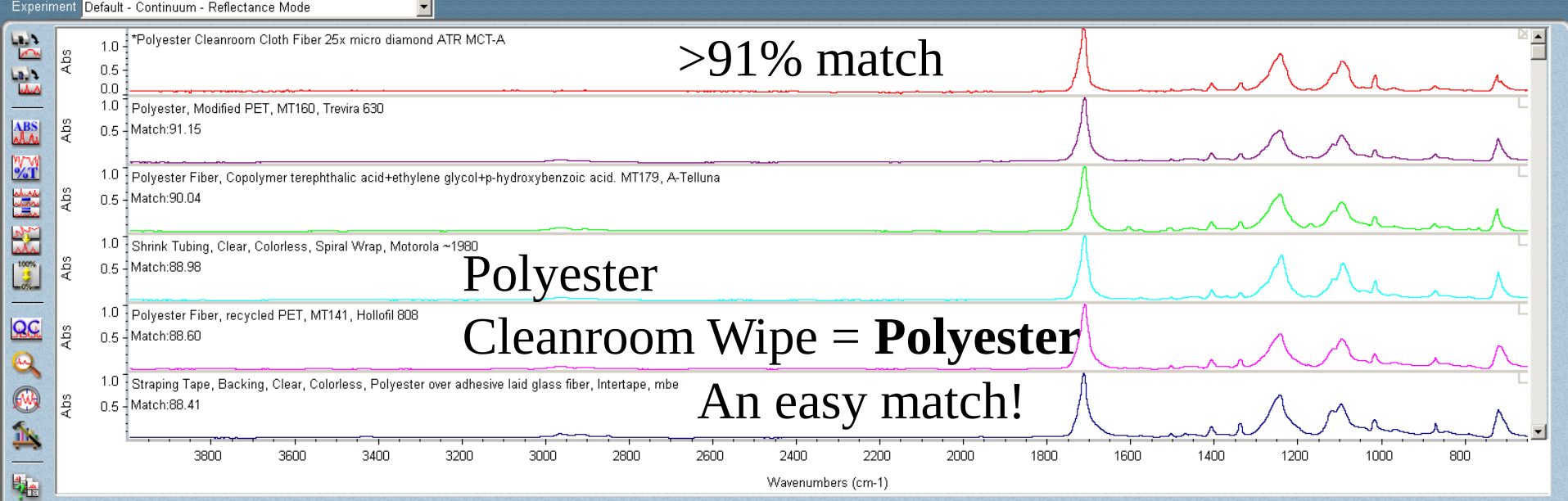
ATR Survey Mode
15x

ATR Contact Mode
25x

Infinity series
Diamond ATR
objective with
MCT-A

ATR Crystal





	Index	Match	Compound Name	Library Name
1	2759	91.15	Polyester, Modified PET, MT160, Trevira 630	HR Comprehensive Forensic FT-IR Collec
2	2749	90.04	Polyester Fiber, Copolymer terephthalic acid+eth	HR Comprehensive Forensic FT-IR Collec
3	3137	88.98	Shrink Tubing, Clear, Colorless, Spiral Wrap, Mot	HR Comprehensive Forensic FT-IR Collec
4	2755	88.60	Polyester Fiber, recycled PET, MT141, Holoofil 80	HR Comprehensive Forensic FT-IR Collec
5	3352	88.41	Strapping Tape, Backing, Clear, Colorless, Polyest	HR Comprehensive Forensic FT-IR Collec
6	1653	88.37	Kodel, poly(cis/trans cyclohexanediol terephthala	HR Comprehensive Forensic FT-IR Collec
7	2768	88.16	Polyester, PCDT, Kodel, Poly(1,4-CyclohexeneD	HR Comprehensive Forensic FT-IR Collec
8	1654	88.14	Kodel, poly(cis/trans cyclohexanediol terephthala	HR Comprehensive Forensic FT-IR Collec
9	3353	87.91	Strapping Tape, Backing, Clear, Colorless, Polyest	HR Comprehensive Forensic FT-IR Collec
10	3087	87.89	Rynite Polyester, Dupont	HR Comprehensive Forensic FT-IR Collec
11	3354	87.72	Strapping Tape, Backing, Polyester Coated White	HR Comprehensive Forensic FT-IR Collec
12	3136	87.21	Shrink Tubing, Clear, Colorless, Spiral Wrap, 2nd	HR Comprehensive Forensic FT-IR Collec
13	1153	87.11	EFG Collaborative S2006/2414/2	HR Comprehensive Forensic FT-IR Collec
14	2741	87.02	Polyester Fiber Mixture, Thin, Single Pore portion	HR Comprehensive Forensic FT-IR Collec

Region: 3494.44 - 655.00

ATR Survey Mode
15x

ATR Contact Mode
25x

Infinity series
Diamond ATR
objective with
MCT-A

D-ATR Crystal

ATR Objective with
Contact Alert